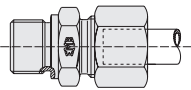
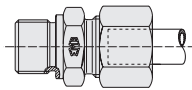
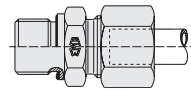
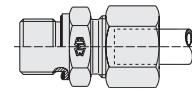
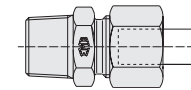
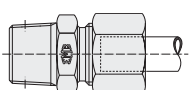
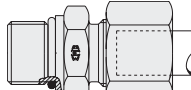
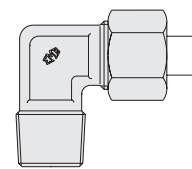
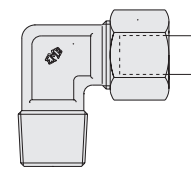
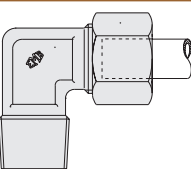
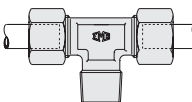
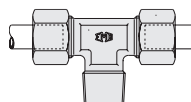
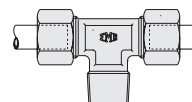
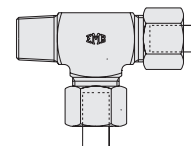
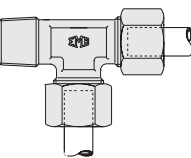
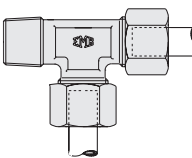
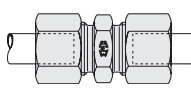
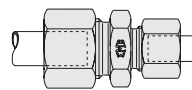
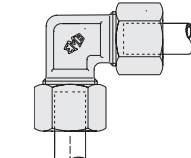
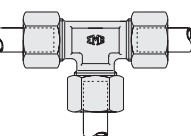
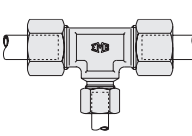
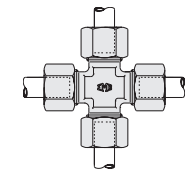
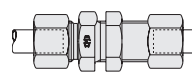
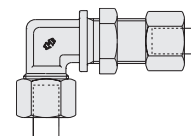
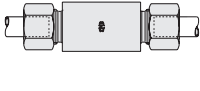
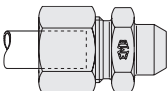
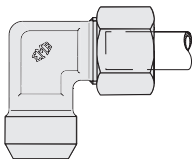


## TABELA DOBORU ZŁĄCZY RUROWYCH

ŚWIAT ZŁĄCZY RUROWYCH

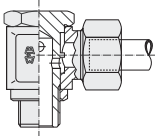
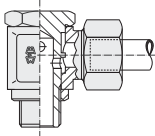
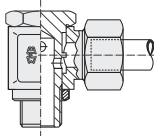
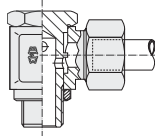
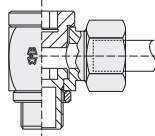
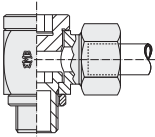
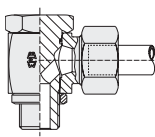
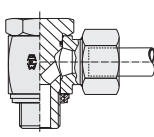
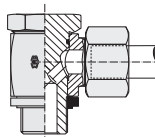
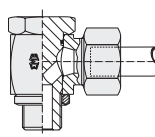
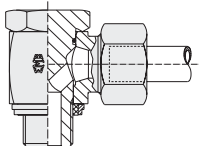
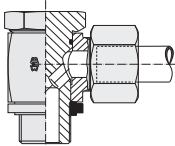
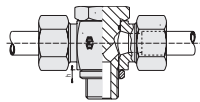
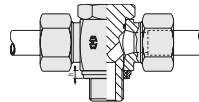
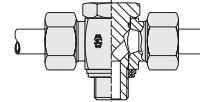
### ŁĄCZNIKI RUROWO-GWINTOWE/ŁĄCZNIKI GWINTOWO-GWINTOWE/RUROWE ZŁĄCZA GWINTOWANE

| A                                                                                   |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    |    |    |    |    |
| <b>A Złącze rurowe męskie</b><br>BSP<br>str. 366                                    | <b>A Złącze rurowe męskie</b><br>Metryczne<br>str. 368                              | <b>A Złącze rurowe męskie</b><br>BSP WD<br>str. 369                                 | <b>A Złącze rurowe męskie</b><br>Metryczne WD<br>str. 370                            | <b>A Złącze rurowe męskie</b><br>NPT<br>str. 371                                      |
| A                                                                                   |                                                                                     |                                                                                     | B                                                                                    |                                                                                       |
|   |   |   |   |   |
| <b>A Złącze rurowe męskie</b><br>BSP gwint stożk.<br>str. 372                       | <b>A Złącze rurowe męskie</b><br>Metryczne O-ring<br>str. 373                       | <b>A Złącze rurowe męskie</b><br>UNF/UN<br>str. 374                                 | <b>B Złącze kolanowe</b><br>BSP gwint stożk.<br>str. 375                             | <b>B Złącze kolanowe</b><br>Metryczne gwint stożk.<br>str. 376                        |
| B                                                                                   | C                                                                                   |                                                                                     |                                                                                      | D                                                                                     |
|  |  |  |  |  |
| <b>B Złącze kolanowe</b><br>NPT<br>str. 377                                         | <b>C Złącze rurowe męskie</b><br>BSP gwint stożk.<br>str. 378                       | <b>C Złącze rurowe męskie</b><br>Metryczne gwint stożk.<br>str. 379                 | <b>C Złącze rurowe męskie</b><br>NPT<br>str. 380                                     | <b>D Trójnik z gwintem zewn. na przełocie</b> BSP gwint stożk.<br>str. 381            |
| D                                                                                   | E                                                                                   | ER                                                                                  | F                                                                                    |                                                                                       |
|  |  |  |  |  |
| <b>D Trójnik z gwintem zewn. na przełocie</b> Metryczne gwint stożk.<br>str. 382    | <b>D Trójnik z gwintem zewn. na przełocie</b> NPT<br>str. 383                       | <b>E Złącza proste</b><br>str. 384                                                  | <b>ER Złącza proste redukcyjne</b><br>str. 385                                       | <b>F Kolanka symetryczne</b><br>str. 386                                              |
| G                                                                                   | GR                                                                                  | H                                                                                   | K                                                                                    | L                                                                                     |
|  |  |  |  |  |
| <b>G Trójniki symetryczne</b><br>str. 387                                           | <b>GR Trójniki redukcyjne</b><br>str. 388                                           | <b>H Czwórniki symetryczne</b><br>str. 390                                          | <b>K Złącza grodziowe proste</b><br>str. 391                                         | <b>L Złącza grodziowe kolankowe</b><br>str. 392                                       |

| N                                                                                 | V                                                                                 | BS                                                                                |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |
| <b>N Złącza grodziowe spawalne</b><br>str. 393                                    | <b>V Przetąca spawalne</b><br>str. 394                                            | <b>BS Kolanka spawalne</b><br>str. 395                                            |

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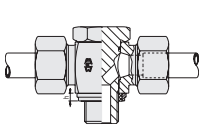
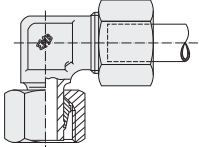
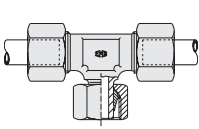
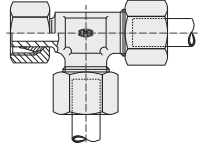
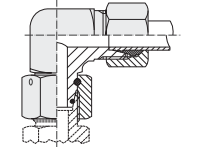
### Złącze Banjo

| SBD                                                                                 |                                                                                     |                                                                                     |                                                                                      |                                                                                       | SB                                                                                    |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |                                                                                       |  |
| <b>Złącze Banjo SBD BSP</b><br>str. 398                                             | <b>Złącze Banjo SBD Metryczne</b><br>str. 399                                       | <b>Złącze Banjo SBD komponenty BSP</b><br>str. 400                                  | <b>Złącze Banjo SBD komponenty Metryczne</b><br>str. 401                             |                                                                                       | <b>Złącze Banjo SB bezdławikowe BSP</b><br>str. 402                                   |
| SB                                                                                  | SBE                                                                                 |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|  |  |  |  |  |                                                                                       |
| <b>Złącze Banjo SB bezdławikowe Metryczne</b><br>str. 403                           | <b>Złącze Banjo SBE wys. ciśnienie BSP DKA</b><br>str. 404                          | <b>Złącze Banjo SBE wys. ciśnienie BSP EDE</b><br>str. 405                          | <b>Złącze Banjo SBE wys. ciśnienie BSP KDE</b><br>str. 406                           | <b>Złącze Banjo SBE wys. ciśnienie Metryczne DKA</b><br>str. 407                      |                                                                                       |
| SBE                                                                                 |                                                                                     | SGE                                                                                 |                                                                                      |                                                                                       |                                                                                       |
|  |  |  |  |  |                                                                                       |
| <b>Złącze Banjo SBE wys. ciśnienie Metryczne EDE</b><br>str. 408                    | <b>Złącze Banjo SBE wys. ciśnienie Metryczne KDE</b><br>str. 409                    | <b>SGE T złącze ze śrubą obrotową wys. ciśnienie BSP DKA</b><br>str. 410            | <b>SGE T złącze ze śrubą obrotową wys. ciśnienie BSP EDE</b><br>str. 411             | <b>SGE T złącze ze śrubą obrotową wys. ciśnienie Metryczne DKA</b><br>str. 412        |                                                                                       |

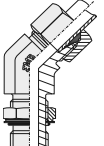
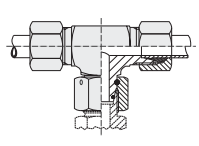
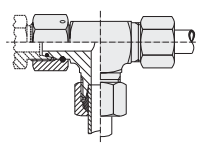
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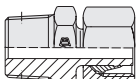
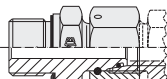
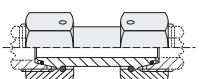
ŚWIAT ZŁĄCZY RUROWYCH

### Złącza Nastawne

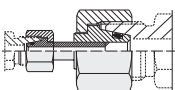
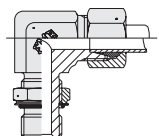
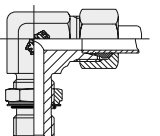
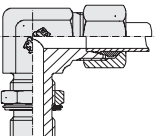
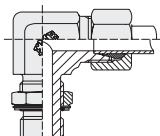
| SGE                                                                               | VB                                                                                | VC                                                                                | VD                                                                                 | VBDKO                                                                               |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| SGE T złącze ze śrubą obrotową wys. ciśnienie<br>Metryczne EDE str. 413           | VB Nastawne złącze kolanowe<br>str. 414                                           | VC Regulowany trójnik<br>str. 415                                                 | VD Nastawny trójnik barytkowy<br>str. 416                                          | VBDKO Nastawne złącze kolanowe<br>str. 417                                          |

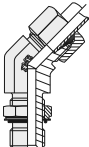
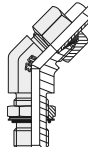
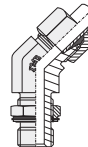
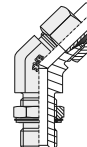
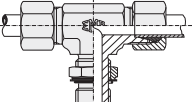
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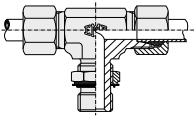
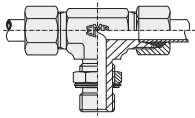
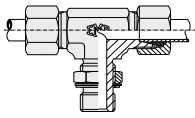
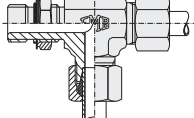
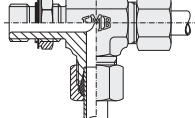
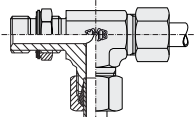
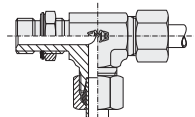
| BFDKO                                                                              | VCDKO                                                                              | VDDKO                                                                              | VA                                                                                 |                                                                                     |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| BFDKO Nastawny kolano 45°<br>str. 418                                              | VCDKO Nastawne trójnik symetryczny<br>str. 419                                     | VDDKO Nastawny trójnik barytkowy z gwintem zewn. str. 420                          | VA Złącze rurowe proste BSP<br>str. 421                                            | VA Złącze rurowe proste Metryczne<br>str. 422                                       |

| VA                                                                                  | VADKO                                                                               |                                                                                     |                                                                                      | EDKO                                                                                  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| VA Złącze rurowe proste NPT<br>str. 423                                             | VADKO Króciec redukcyjny złącza rurowego BSP<br>str. 424                            | VADKO Króciec redukcyjny złącza rurowego Metryczne str. 425                         | VADKO Króciec redukcyjny złącza rurowego NPT<br>str. 426                             | EDKO Straight łącznik gwint stożkowy<br>str. 427                                      |

### Nastawne złącze z przeciwnakr.

| EDKOR                                                                               | BE                                                                                  |                                                                                     |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| EDKOR Złącze redukcyjne proste, gwint stożk.<br>str. 428                            | BE Nastawne złącze kolanowe z przeciwnakr.<br>Metryczne str. 430                    | BE Nastawne złącze kolanowe z przeciwnakr. UNF/UN str. 431                          | BE Nastawne złącze kolanowe z przeciwnakr. BSP RR str. 432                           | BE Nastawne złącze kolanowe z przeciwnakr. Metryczne RR str. 433                      |

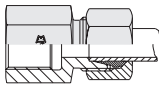
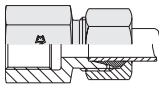
| BFE                                                                                 |                                                                                     |                                                                                     |                                                                                      | CE                                                                                    |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| BFE Nastawne złącze kolanowe 45° z przeciwnakr. Metryczne str. 434                  | BFE Nastawne złącze kolanowe 45° z przeciwnakr. UNF/UN str. 435                     | BFE Nastawne złącze kolanowe 45° z przeciwnakr. BSP RR str. 436                     | BFE Nastawne złącze kolanowe 45° z przeciwnakr. Metryczne RR str. 437                | CE Nastawny trójnik z przeciwnakr. i gwintem w odgałęzieniu Metryczne str. 438        |

| CE                                                                                |                                                                                   |                                                                                   | DE                                                                                 |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| CE Nastawny trójnik z przeciwnakr. i gwintem w odgałęzieniu UNF/UN str. 439       | CE Nastawny trójnik z przeciwnakr. i gwintem w odgałęzieniu BSP RR str. 440       | CE Nastawny trójnik z przeciwnakr. i gwintem w odgałęzieniu Metryczne RR str. 441 | DE Nastawny trójnik z przeciwnakr. i gwintem na przelocie Metryczne str. 442       | DE Nastawny trójnik z przeciwnakr. i gwintem na przelocie UNF/UN str. 443           |
| DE                                                                                |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|  |  |                                                                                   |                                                                                    |                                                                                     |
| DE Nastawny trójnik z przeciwnakr. gwint na przelocie BSP RR str. 444             | DE Nastawny trójnik z przeciwnakr. gwint na przelocie Metryczne RR str. 445       |                                                                                   |                                                                                    |                                                                                     |

## POŁĄCZENIA RUROWE / POŁĄCZENIA MANOMETRYCZNE / POŁĄCZENIA REDUKCYJNE

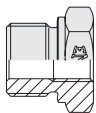
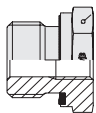
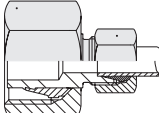
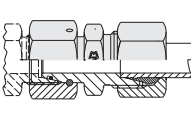
### Złącza manometryczne

### Złącza rurowe żeńskie

| O                                                                                   | VODKO                                                                               | AI                                                                                  |                                                                                      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |
| O Złącze pomiarowe BSP str. 448                                                     | VODKO Złącze pomiarowe str. 449                                                     | AI Złącze rurowe żeńskie BSP str. 450                                               | AI Złącze rurowe żeńskie Metryczne str. 451                                          |

### Łączniki redukcyjne

### Przyłącza redukcyjne

| RI                                                                                  | RI/WD                                                                               | RL/RS                                                                               | RLDKO/RSDKO                                                                          |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |
| RI Łącznik redukcyjny BSP str. 452                                                  | RI/WD Łącznik redukcyjny BSP str. 453                                               | RL/RS Przyłącze redukcyjne str. 454-455                                             | RLDKO/RSDKO Przyłącze redukcyjne str. 456-457                                        |

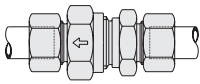
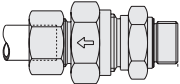
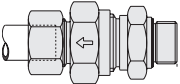
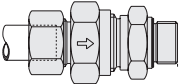
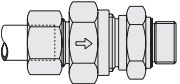


## TABELA DOBORU ZŁĄCZY RUROWYCH

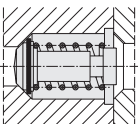
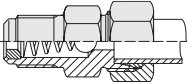
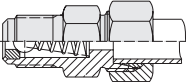
ŚWIAT ZŁĄCZY RUROWYCH

### ZAWORY / ZAWORY ZWROTNE / ELEMENTY ODCINAJĄCE

#### Zawory zwrotne ze stożkiem

| RD                                                                                | RV                                                                                |                                                                                   | RZ                                                                                 |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| RD Zawory zwrotne<br>str. 461                                                     | RV Zawory zwrotne<br>BSP<br>str. 462                                              | RV Zawory zwrotne<br>Metryczne<br>str. 463                                        | RZ Zawory zwrotne<br>BSP<br>str. 464                                               | RZ Zawory zwrotne<br>Metryczne<br>str. 465                                          |

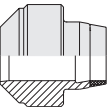
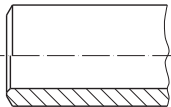
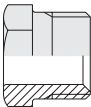
#### Kulowe zawory zwrotne

| RF                                                                                  | RVS                                                                                | ARVA                                                                                | ARVV                                                                                 |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |
| RF Zawory zwrotne<br>str. 466                                                       | RVS Części wewnętrzne<br>str. 466                                                  | ARVA Kulowe zawory<br>zwrotne<br>str. 467                                           | ARVV Kulowe zawory<br>zwrotne<br>str. 467                                            |

### POJEDYNCZE CZĘŚCI

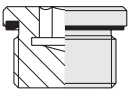
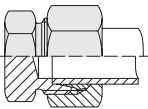
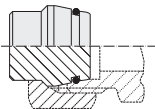
#### Pierścień zacinający

#### Nakrętka

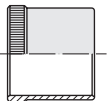
| DS                                                                                  | DSW                                                                                 | M                                                                                   | UES                                                                                  | GM                                                                                    |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| DS Pierścień zacinający<br>str. 470                                                 | DSW Pierścień zacinający<br>str. 471                                                | M Nakrętka złączna<br>str. 472                                                      | UES Wewnętrzna nakrętka<br>złączna<br>str. 473                                       | GM Przeciwnakrętka<br>str. 473                                                        |

#### Zatyczka

#### Pierścień uszczelniający

| VSCH                                                                                | VSCHK                                                                               | STO                                                                                 | DKA/DKAD                                                                             | DKI                                                                                   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| VSCH Zaślepka<br>str. 474                                                           | VSCHK Zatyczka<br>rurowa<br>str. 475                                                | STO Zaślepka<br>str. 476                                                            | DKA/DKAD Pierścień<br>uszczelniający<br>str. 477-478                                 | DKI Pierścień<br>uszczelniający<br>str. 479                                           |

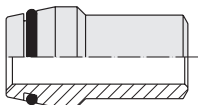
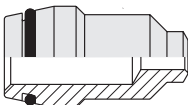
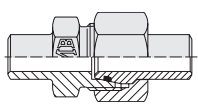
## Kołnierz przytrzymujący

| WD                                                                                | TR                                                                                | KDE                                                                               | EDE                                                                                | VSH                                                                                 |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| WD Uszczelnienie zintegrowane<br>str. 479                                         | TR Pierścień uszczelniający<br>str. 480                                           | KDE Pierścień przytrzymujący<br>str. 481                                          | EDE Pierścień przytrzymujący z uszczelnieniem zintegrowanym<br>str. 482            | Kołnierz przytrzymujący VSH<br>str. 483                                             |

## ŁĄCZNIKI GWINTOWANE DO WSPAWANIA

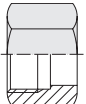
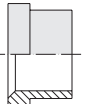
### Złączki do spawania

### Łączniki do spawania

| SNO                                                                                 | SNR                                                                                 | SNO-V                                                                               | SNO-A                                                                                |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |
| SNO Złączka do spawania<br>str. 486                                                 | SNR Redukcja złączki do spawania<br>str. 487                                        | SNO-V Śrubunek typ spawany<br>str. 488                                              | SNO-A Typ spawany przykładowe zamówienie<br>str. 489                                 |

## ZŁĄCZA KIELICHOWE

### Elementy przyłączy kielichowych

| BAO                                                                                 | BMO                                                                                 | SRO                                                                                 | ABO-A                                                                                |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |
| BAO Kształtka kielichowa<br>str. 493                                                | BMO Nakrętka<br>str. 493                                                            | SRO Pierścień wspomagający<br>str. 493                                              | Przykład zamówienia na złącza kielichowe<br>str. 494                                 |

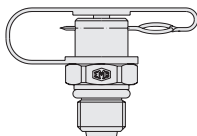
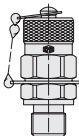
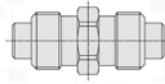
## TABELA DOBORU ZŁĄCZY RUROWYCH

ŚWIAT ZŁĄCZY RUROWYCH

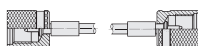
### SYSTEM KONTROLI

#### Złącza testowe

#### Pomocnicze

| CST                                                                                | CSH                                                                                | CSS                                                                                | CSHK                                                                                | CST                                                                                  |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|   |   |   |   |   |
| <b>CST Złącze kontrolne<br/>400 bar</b><br>str. 498-501                            | <b>CSH Złącze kontrolne<br/>400 bar</b><br>str. 502-508                            | <b>CSS Złącze kontrolne<br/>630 bar</b><br>str. 509-515                            | <b>CSHK Złącze kontrolne<br/>630 bar</b><br>str. 516-519                            | <b>CST Zestaw do pomiaru<br/>ciśnienia</b><br>str. 520                               |
| CSH                                                                                | CSS                                                                                | CMM                                                                                | VO                                                                                  | CS                                                                                   |
|  |  |  |  |  |
| <b>CSH Zestaw do pomiaru<br/>ciśnienia</b><br>str. 520                             | <b>CSS Zestaw do pomiaru<br/>ciśnienia</b><br>str. 520                             | <b>CMM Miernik ciśnienia</b><br>str. 521                                           | <b>VO Nastawne<br/>złącze pomiarowe</b><br>str. 521                                 | <b>CS Łącznik do węży</b><br>str. 522                                                |

#### ZŁĄCZA DO WĘŻY



**Złącza do węży**  
str. 523-531



# ŚWIAT ZŁĄCZY RUROWYCH

ZINTEGROWANE ROZWIĄZANIA FLUID POWER



# ŁĄCZNIKI RUROWO-GWINTOWE



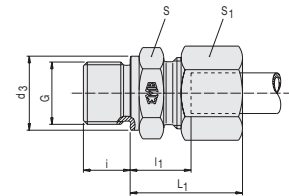
## ŁĄCZNIKI RUROWO-GWINTOWE A ZŁĄCZA MĘSKIE WKREĆCANE

ŚWIAT ZŁĄCZY RUROWYCH

### A ZŁĄCZE RUROWE MĘSKIE BSP

Seria LL, BSP gwint stożk.

Seria L+S, walcowy BSP gwint walc., Forma B.



| opis             | Śr. zew.<br>rury | Nr produktu<br>seria | S  | S <sub>1</sub> | L <sub>1</sub> | l <sub>1</sub> | d <sub>3</sub> | i  | G                     | kg /<br>100pcs |
|------------------|------------------|----------------------|----|----------------|----------------|----------------|----------------|----|-----------------------|----------------|
| A 4-RLL          | 4                | LL 100 (400)         | 11 | 10             | 26,0           | 16,0           | –              | 8  | R 1/8" K gwint stożk. | 1,4            |
| A 6-RLL          | 6                | LL PN 100 (400)      | 11 | 12             | 26,0           | 14,5           | –              | 8  | R 1/8" K gwint stożk. | 1,6            |
| A 8-RLL          | 8                | LL PN 100 (400)      | 12 | 14             | 28,0           | 16,5           | –              | 8  | R 1/8" K gwint stożk. | 1,8            |
| DS-A 6-RL        | 6                | L PN 400 (1600)      | 14 | 14             | 23,0           | 8,5            | 14             | 8  | G 1/8" A              | 2,5            |
| DS-A 6-L/R 1/4"  | 6                | L PN 400 (1600)      | 19 | 14             | 25,0           | 10,0           | 18             | 12 | G 1/4" A              | 3,5            |
| DS-A 6-L/R 3/8"  | 6                | L PN 400 (1600)      | 22 | 14             | 26,0           | 11,5           | 22             | 12 | G 3/8" A              | 5,6            |
| DS-A 6-L/R 1/2"  | 6                | L PN 400 (1600)      | 27 | 14             | 27,0           | 12,0           | 26             | 14 | G 1/2" A              | 7,3            |
| DS-A 8-RL        | 8                | L PN 400 (1600)      | 19 | 17             | 25,0           | 10,0           | 18             | 12 | G 1/4" A              | 4,5            |
| DS-A 8-L/R 1/8"  | 8                | L PN 400 (1600)      | 14 | 17             | 24,0           | 9,5            | 14             | 8  | G 1/8" A              | 3,1            |
| DS-A 8-L/R 3/8"  | 8                | L PN 400 (1600)      | 22 | 17             | 26,0           | 11,5           | 22             | 12 | G 3/8" A              | 6,0            |
| DS-A 8-L/R 1/2"  | 8                | L PN 400 (1600)      | 27 | 17             | 27,0           | 12,0           | 26             | 14 | G 1/2" A              | 9,0            |
| DS-A 10-RL       | 10               | L PN 400 (1600)      | 19 | 19             | 26,0           | 11,0           | 18             | 12 | G 1/4" A              | 4,7            |
| DS-A 10-L/R 3/8" | 10               | L PN 400 (1600)      | 22 | 19             | 27,0           | 12,5           | 22             | 12 | G 3/8" A              | 6,2            |
| DS-A 10-L/R 1/2" | 10               | L PN 400 (1600)      | 27 | 19             | 28,0           | 13,0           | 26             | 14 | G 1/2" A              | 9,2            |
| DS-A 12-RL       | 12               | L PN 400 (1600)      | 22 | 22             | 27,0           | 12,5           | 22             | 12 | G 3/8" A              | 7,0            |
| DS-A 12-L/R 1/4" | 12               | L PN 400 (1600)      | 19 | 22             | 27,0           | 12,0           | 18             | 12 | G 1/4" A              | 5,8            |
| DS-A 12-L/R 1/2" | 12               | L PN 400 (1600)      | 27 | 22             | 28,0           | 13,0           | 26             | 14 | G 1/2" A              | 9,4            |
| DS-A 12-L/R 3/4" | 12               | L PN 400 (1600)      | 32 | 22             | 29,0           | 14,0           | 32             | 16 | G 3/4" A              | 14,7           |
| DS-A 15-RL       | 15               | L PN 400 (1600)      | 27 | 27             | 29,0           | 14,0           | 26             | 14 | G 1/2" A              | 11,5           |
| DS-A 15-L/R 3/8" | 15               | L PN 400 (1600)      | 24 | 27             | 29,0           | 13,5           | 22             | 12 | G 3/8" A              | 9,7            |
| DS-A 15-L/R 3/4" | 15               | L PN 400 (1600)      | 32 | 27             | 30,0           | 15,0           | 32             | 16 | G 3/4" A              | 16,1           |
| DS-A 18-RL       | 18               | L PN 400 (1600)      | 27 | 32             | 31,0           | 14,5           | 26             | 14 | G 1/2" A              | 13,2           |
| DS-A 18-L/R 3/8" | 18               | L PN 400 (1600)      | 27 | 32             | 29,5           | 14,0           | 22             | 12 | G 3/8" A              | 13,3           |
| DS-A 18-L/R 3/4" | 18               | L PN 400 (1600)      | 32 | 32             | 30,0           | 14,5           | 32             | 16 | G 3/4" A              | 17,3           |

*L<sub>1</sub> = przybliżona długość z dokręconą nakrętką*

*Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.*



## ŁĄCZNIKI RUROWO-GWINTOWE A ZŁĄCZA MĘSKIE WKREĆANE

| opis               | Śr. zew.<br>rury | PN/PB<br>seria  | S  | S <sub>1</sub> | L <sub>1</sub> | l <sub>1</sub> | d <sub>3</sub> | i  | G          | kg /<br>100pcs |
|--------------------|------------------|-----------------|----|----------------|----------------|----------------|----------------|----|------------|----------------|
| DS-A 22-RL         | 22               | L PN 250 (1000) | 32 | 36             | 33             | 16,5           | 32             | 16 | G 3/4" A   | 18,5           |
| DS-A 22-L/R 1/2"   | 22               | L PN 250 (1000) | 32 | 36             | 47             | 26,5           | 26             | 14 | G 1/2" A   | 17,7           |
| DS-A 28-RL         | 28               | L PN 250 (1000) | 41 | 41             | 34             | 17,5           | 39             | 18 | G 1" A     | 25,9           |
| DS-A 28-L/R 3/4"   | 28               | L PB 250 (625)  | 41 | 41             | 34             | 17,5           | 32             | 16 | G 3/4" A   | 25,6           |
| DS-A 35-RL         | 35               | L PB 250 (625)  | 50 | 50             | 39             | 17,5           | 49             | 20 | G 1 1/4" A | 42,2           |
| DS-A 35-L/R 1"     | 35               | L PB 250 (625)  | 46 | 50             | 39             | 17,5           | 39             | 18 | G 1" A     | 37,8           |
| DS-A 42-RL         | 42               | L PB 250 (625)  | 55 | 60             | 42             | 19,0           | 55             | 22 | G 1 1/2" A | 56,9           |
| DS-A 6-RS          | 6                | S PB 630 (1575) | 19 | 17             | 28             | 13,0           | 18             | 12 | G 1/4" A   | 5,0            |
| DS-A 6-S/R 1/2"    | 6                | S PB 630 (1575) | 27 | 17             | 33             | 18,0           | 26             | 14 | G 1/2" A   | 10,8           |
| DS-A 8-RS          | 8                | S PB 630 (1575) | 19 | 19             | 30             | 15,0           | 18             | 12 | G 1/4" A   | 5,5            |
| DS-A 8-S/R 3/8"    | 8                | S PB 630 (1575) | 22 | 19             | 30             | 15,5           | 22             | 12 | G 3/8" A   | 8,0            |
| DS-A 10-RS         | 10               | S PB 630 (1575) | 22 | 22             | 31             | 15,0           | 22             | 12 | G 3/8" A   | 8,8            |
| DS-A 10-S/R 1/4"   | 10               | S PB 630 (1575) | 19 | 22             | 31             | 14,5           | 18             | 12 | G 1/4" A   | 7,5            |
| DS-A 10-S/R 1/2"   | 10               | S PB 630 (1575) | 27 | 22             | 34             | 17,5           | 26             | 14 | G 1/2" A   | 12,9           |
| DS-A 12-RS         | 12               | S PB 630 (1575) | 22 | 24             | 33             | 17,0           | 22             | 12 | G 3/8" A   | 10,0           |
| DS-A 12-S/R 1/4"   | 12               | S PB 630 (1575) | 22 | 24             | 33             | 16,5           | 18             | 12 | G 1/4" A   | 9,3            |
| DS-A 12-S/R 1/2"   | 12               | S PB 630 (1575) | 27 | 24             | 34             | 17,5           | 26             | 14 | G 1/2" A   | 13,3           |
| DS-A 14-RS         | 14               | S PB 630 (1575) | 27 | 27             | 37             | 19,0           | 26             | 14 | G 1/2" A   | 14,8           |
| DS-A 14-S/R 3/8"   | 14               | S PB 630 (1575) | 24 | 27             | 36             | 18,5           | 22             | 12 | G 3/8" A   | 12,8           |
| DS-A 16-RS         | 16               | S PB 630 (1575) | 27 | 30             | 37             | 18,5           | 26             | 14 | G 1/2" A   | 16,1           |
| DS-A 16-S/R 3/8"   | 16               | S PB 630 (1575) | 27 | 30             | 36             | 18,0           | 22             | 12 | G 3/8" A   | 15,3           |
| DS-A 16-S/R 3/4"   | 16               | S PB 400 (1000) | 32 | 30             | 39             | 20,5           | 32             | 16 | G 3/4" A   | 22,6           |
| DS-A 20-RS         | 20               | S PB 400 (1000) | 32 | 36             | 42             | 20,5           | 32             | 16 | G 3/4" A   | 25,3           |
| DS-A 20-S/R 1/2"   | 20               | S PB 400 (1000) | 32 | 36             | 42             | 20,5           | 26             | 14 | G 1/2" A   | 24,3           |
| DS-A 25-RS         | 25               | S PB 400 (1000) | 41 | 46             | 47             | 23,0           | 39             | 18 | G 1" A     | 48,7           |
| DS-A 25-S/R 3/4"   | 25               | S PB 400 (1000) | 41 | 46             | 47             | 23,0           | 32             | 16 | G 3/4" A   | 46,5           |
| DS-A 30-RS         | 30               | S PB 250 (625)  | 50 | 50             | 50             | 23,5           | 49             | 20 | G 1 1/4" A | 66,3           |
| DS-A 30-S/R 1"     | 30               | S PB 250 (625)  | 46 | 50             | 50             | 23,5           | 39             | 18 | G 1" A     | 57,8           |
| DS-A 38-RS         | 38               | S PB 250 (625)  | 55 | 60             | 57             | 26,0           | 55             | 22 | G 1 1/2" A | 90,1           |
| DS-A 38-S/R 1,1/4" | 38               | S PB 250 (625)  | 55 | 60             | 57             | 26,0           | 49             | 20 | G 1 1/4" A | 91,9           |

*L<sub>1</sub> = przybliżona długość z dokręconą nakrętką*

*Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.*



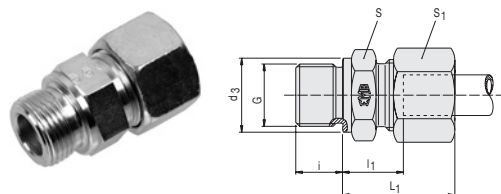
## ŁĄCZNIKI RUROWO-GWINTOWE A ZŁĄCZA MĘSKIE WKREĆCANE

ŚWIAT ZŁĄCZY RUROWYCH

### A ZŁĄCZE RUROWE MĘSKIE METRYCZNE

Seria LL, metryczne gwint stożk.

Seria L+S, walcowy metryczny, Forma B.



| opis                 | Śr. zew.<br>rury | PN/PB<br>seria  | S  | S <sub>1</sub> | L <sub>1</sub> | l <sub>1</sub> | d <sub>3</sub> | i  | G          | kg /<br>100pcs |
|----------------------|------------------|-----------------|----|----------------|----------------|----------------|----------------|----|------------|----------------|
| A 4-MLL              | 4                | LL PN 100 (400) | 10 | 10             | 25             | 16,0           | –              | 8  | M 8 x 1 K  | 1,4            |
| A 4-LL/M 6 x 1       | 4                | LL PN 100 (400) | 9  | 10             | 26             | 16,0           | –              | 8  | M 6 x 1 K  | 0,9            |
| A 6-MLL              | 6                | LL PN 100 (400) | 11 | 12             | 25             | 14,5           | –              | 8  | M 10 x 1 K | 1,6            |
| A 8-MLL              | 8                | LL PN 100 (400) | 12 | 14             | 27             | 16,5           | –              | 8  | M 10 x 1 K | 1,8            |
| DS-A 6-ML            | 6                | L PN 400 (1600) | 14 | 14             | 23             | 8,5            | 14             | 8  | M 10 x 1   | 2,5            |
| DS-A 8-ML            | 8                | L PN 400 (1600) | 17 | 17             | 25             | 10,0           | 17             | 12 | M 12 x 1,5 | 4,0            |
| DS-A 8-L/M 18 x 1,5  | 8                | L PN 400 (1600) | 24 | 17             | 26             | 11,5           | 23             | 12 | M 18 x 1,5 | 6,7            |
| DS-A 10-ML           | 10               | L PN 400 (1600) | 19 | 19             | 26             | 11,0           | 19             | 12 | M 14 x 1,5 | 4,9            |
| DS-A 10-L/M 16 x 1,5 | 10               | L PN 400 (1600) | 22 | 19             | 27             | 12,0           | 21             | 12 | M 16 x 1,5 | 6,0            |
| DS-A 10-L/M 18 x 1,5 | 10               | L PN 400 (1600) | 24 | 19             | 27             | 12,5           | 23             | 12 | M 18 x 1,5 | 7,0            |
| DS-A 10-L/M 22 x 1,5 | 10               | L PN 400 (1600) | 27 | 19             | 29             | 14,0           | 27             | 14 | M 22 x 1,5 | 9,2            |
| DS-A 12-ML           | 12               | L PN 400 (1600) | 22 | 22             | 27             | 12,5           | 21             | 12 | M 16 x 1,5 | 6,8            |
| DS-A 12-L/M 14 x 1,5 | 12               | L PN 400 (1600) | 19 | 22             | 26             | 11,0           | 19             | 12 | M 14 x 1,5 | 5,7            |
| DS-A 12-L/M 18 x 1,5 | 12               | L PN 400 (1600) | 24 | 22             | 27             | 12,5           | 23             | 12 | M 18 x 1,5 | 7,4            |
| DS-A 12-L/M 22 x 1,5 | 12               | L PN 400 (1600) | 27 | 22             | 29             | 14,0           | 27             | 14 | M 22 x 1,5 | 10,3           |
| DS-A 15-ML           | 15               | L PN 400 (1600) | 24 | 27             | 29             | 13,5           | 23             | 12 | M 18 x 1,5 | 9,5            |
| DS-A 15-L/M 16 x 1,5 | 15               | L PN 400 (1600) | 24 | 27             | 28             | 13,0           | 21             | 12 | M 16 x 1,5 | 9,4            |
| DS-A 15-L/M 22 x 1,5 | 15               | L PN 400 (1600) | 27 | 27             | 30             | 15,0           | 27             | 14 | M 22 x 1,5 | 12,1           |
| DS-A 18-ML           | 18               | L PN 400 (1600) | 27 | 32             | 31             | 14,5           | 27             | 14 | M 22 x 1,5 | 13,7           |
| DS-A 18-L/M 18 x 1,5 | 18               | L PN 400 (1600) | 27 | 32             | 30             | 14,0           | 23             | 12 | M 18 x 1,5 | 13,2           |
| DS-A 22-ML           | 22               | L PN 250 (1000) | 32 | 36             | 33             | 16,5           | 31             | 16 | M 26 x 1,5 | 18,8           |
| DS-A 22-L/M 22 x 1,5 | 22               | L PN 250 (1000) | 32 | 36             | 33             | 16,5           | 27             | 14 | M 22 x 1,5 | 17,8           |
| DS-A 28-ML           | 28               | L PN 250 (1000) | 41 | 41             | 34             | 17,5           | 39             | 18 | M 33 x 2   | 25,8           |
| DS-A 35-ML           | 35               | L PB 250 (625)  | 50 | 50             | 39             | 17,5           | 49             | 20 | M 42 x 2   | 42,0           |
| DS-A 42-ML           | 42               | L PB 250 (625)  | 55 | 60             | 42             | 19,0           | 55             | 22 | M 48 x 2   | 57,5           |
| DS-A 6-MS            | 6                | S PB 630*       | 17 | 17             | 28             | 13,0           | 17             | 12 | M 12 x 1,5 | 4,7            |
| DS-A 8-MS            | 8                | S PB 630*       | 19 | 19             | 30             | 15,0           | 19             | 12 | M 14 x 1,5 | 6,5            |
| DS-A 10-MS           | 10               | S PB 630*       | 22 | 22             | 31             | 15,0           | 21             | 12 | M 16 x 1,5 | 8,6            |
| DS-A 12-MS           | 12               | S PB 630*       | 24 | 24             | 33             | 17,0           | 23             | 12 | M 18 x 1,5 | 10,9           |
| DS-A 12-S/M 22 x 1,5 | 12               | S PB 630*       | 27 | 24             | 34             | 17,5           | 27             | 14 | M 22 x 1,5 | 13,0           |
| DS-A 14-MS           | 14               | S PB 630*       | 27 | 27             | 37             | 19,0           | 25             | 14 | M 20 x 1,5 | 14,8           |
| DS-A 16-MS           | 16               | S PB 630*       | 27 | 30             | 37             | 18,5           | 27             | 14 | M 22 x 1,5 | 16,6           |
| DS-A 16-S/M 18 x 1,5 | 16               | S PB 630*       | 27 | 30             | 36             | 18,0           | 23             | 12 | M 18 x 1,5 | 15,7           |
| DS-A 20-MS           | 20               | S PB 400 (1000) | 32 | 36             | 42             | 20,5           | 32             | 16 | M 27 x 2   | 25,3           |
| DS-A 25-MS           | 25               | S PB 400 (1000) | 41 | 46             | 47             | 23,0           | 39             | 18 | M 33 x 2   | 46,5           |
| DS-A 30-MS           | 30               | S PB 250 (625)  | 50 | 50             | 50             | 23,5           | 49             | 20 | M 42 x 2   | 64,4           |
| DS-A 38-MS           | 38               | S PB 250 (625)  | 55 | 60             | 57             | 26,0           | 55             | 22 | M 48 x 2   | 87,3           |

L<sub>1</sub> = przybliżona długość z dokręconą nakrętką

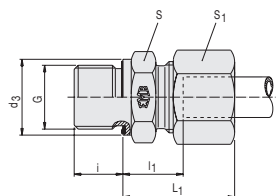
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne – Wybór właściwego złącza rurowego”.

## ŁĄCZNIKI RUROWO-GWINTOWE A ZŁĄCZA MĘSKIE WKREĆANE

### A ZŁĄCZE RUROWE MĘSKIE BSP WD

BSP gwint walc.

Uszczelnienie zintegrowane NBR (np. Perbunan),  
FPM (np. Viton) na zamówienie.



| opis                | Śr. zew.<br>rury | Nr produktu<br>seria | S  | S <sub>1</sub> | L <sub>1</sub> | l <sub>1</sub> | d <sub>3</sub> | i  | G          | kg /<br>100pcs |
|---------------------|------------------|----------------------|----|----------------|----------------|----------------|----------------|----|------------|----------------|
| DS-A 6-RL/WD        | 6                | L 500 (2200)         | 14 | 14             | 23             | 8,5            | 14             | 8  | G 1/8" A   | 2,5            |
| DS-A 6-L/R 1/4"/WD  | 6                | L 500 (2200)         | 19 | 14             | 25             | 10,0           | 19             | 12 | G 1/4" A   | 3,9            |
| DS-A 8-RL/WD        | 8                | L 500 (2200)         | 19 | 17             | 25             | 10,0           | 19             | 12 | G 1/4" A   | 4,5            |
| DS-A 8-L/R 1/8"/WD  | 8                | L 500 (2200)         | 14 | 17             | 23             | 8,5            | 14             | 8  | G 1/8" A   | 2,9            |
| DS-A 8-L/R 3/8"/WD  | 8                | L 500 (2200)         | 22 | 17             | 26             | 11,5           | 22             | 12 | G 3/8" A   | 5,9            |
| DS-A 10-RL/WD       | 10               | L 500 (2200)         | 19 | 19             | 26             | 11,0           | 19             | 12 | G 1/4" A   | 4,7            |
| DS-A 10-L/R 3/8"/WD | 10               | L 500 (2200)         | 22 | 19             | 27             | 12,5           | 22             | 12 | G 3/8" A   | 6,2            |
| DS-A 10-L/R 1/2"/WD | 10               | L 500 (2200)         | 27 | 19             | 28             | 13,0           | 27             | 14 | G 1/2" A   | 9,2            |
| DS-A 12-RL/WD       | 12               | L 400 (1700)         | 22 | 22             | 27             | 12,5           | 22             | 12 | G 3/8" A   | 6,9            |
| DS-A 12-L/R 1/4"/WD | 12               | L 400 (1700)         | 19 | 22             | 27             | 12,0           | 19             | 12 | G 1/4" A   | 5,8            |
| DS-A 12-L/R 1/2"/WD | 12               | L 400 (1700)         | 27 | 22             | 28             | 13,0           | 27             | 14 | G 1/2" A   | 9,4            |
| DS-A 15-RL/WD       | 15               | L 400 (1700)         | 27 | 27             | 29             | 14,0           | 27             | 14 | G 1/2" A   | 11,5           |
| DS-A 15-L/R 3/8"/WD | 15               | L 400 (1700)         | 24 | 27             | 29             | 13,5           | 22             | 12 | G 3/8" A   | 9,7            |
| DS-A 18-RL/WD       | 18               | L 400 (1700)         | 27 | 32             | 31             | 14,5           | 27             | 14 | G 1/2" A   | 13,2           |
| DS-A 18-L/R 3/4"/WD | 18               | L 400 (1700)         | 32 | 32             | 31             | 14,5           | 32             | 16 | G 3/4" A   | 17,4           |
| DS-A 22-RL/WD       | 22               | L 250 (1100)         | 32 | 36             | 33             | 16,5           | 32             | 16 | G 3/4" A   | 18,5           |
| DS-A 28-RL/WD       | 28               | L 250 (1100)         | 41 | 41             | 34             | 17,5           | 40             | 18 | G 1" A     | 25,9           |
| DS-A 35-RL/WD       | 35               | L 250 (1100)         | 50 | 50             | 39             | 17,5           | 50             | 20 | G 1 1/4" A | 42,2           |
| DS-A 42-RL/WD       | 42               | L 250 (1100)         | 55 | 60             | 42             | 19,0           | 55             | 22 | G 1 1/2" A | 56,9           |
| DS-A 6-RS/WD        | 6                | S 800 (3400)         | 19 | 17             | 28             | 13,0           | 19             | 12 | G 1/4" A   | 5,0            |
| DS-A 8-RS/WD        | 8                | S 800 (3400)         | 19 | 19             | 30             | 15,0           | 19             | 12 | G 1/4" A   | 5,5            |
| DS-A 8-S/R 3/8"/WD  | 8                | S 800 (3400)         | 22 | 19             | 30             | 15,5           | 22             | 12 | G 3/8" A   | 7,8            |
| DS-A 10-RS/WD       | 10               | S 800 (3400)         | 22 | 22             | 31             | 15,0           | 22             | 12 | G 3/8" A   | 8,8            |
| DS-A 10-S/R 1/4"/WD | 10               | S 800 (3400)         | 19 | 22             | 31             | 14,5           | 19             | 12 | G 1/4" A   | 7,3            |
| DS-A 10-S/R 1/2"/WD | 10               | S 800 (3400)         | 27 | 22             | 34             | 17,5           | 27             | 14 | G 1/2" A   | 12,9           |
| DS-A 12-RS/WD       | 12               | S 630 (2700)         | 22 | 24             | 33             | 17,0           | 22             | 12 | G 3/8" A   | 10,0           |
| DS-A 12-S/R 1/4"/WD | 12               | S 630 (2700)         | 22 | 24             | 33             | 16,5           | 19             | 12 | G 1/4" A   | 9,3            |
| DS-A 12-S/R 1/2"/WD | 12               | S 630 (2700)         | 27 | 24             | 34             | 17,5           | 27             | 14 | G 1/2" A   | 13,6           |
| DS-A 14-RS/WD       | 14               | S 630 (2700)         | 27 | 27             | 37             | 19,0           | 27             | 14 | G 1/2" A   | 14,8           |
| DS-A 16-RS/WD       | 16               | S 630 (2700)         | 27 | 30             | 37             | 18,5           | 27             | 14 | G 1/2" A   | 16,1           |
| DS-A 16-S/R 3/8"/WD | 16               | S 630 (2700)         | 27 | 30             | 36             | 18,0           | 22             | 12 | G 3/8" A   | 15,2           |
| DS-A 16-S/R 3/4"/WD | 16               | S 630 (2700)         | 32 | 30             | 39             | 20,5           | 27             | 16 | G 3/4" A   | 22,2           |
| DS-A 20-RS/WD       | 20               | S 400 (1700)         | 32 | 36             | 42             | 20,5           | 32             | 16 | G 3/4" A   | 25,3           |
| DS-A 25-RS/WD       | 25               | S 400 (1700)         | 41 | 46             | 47             | 23,0           | 40             | 18 | G 1" A     | 46,5           |
| DS-A 25-S/R 1/2"/WD | 25               | S 400 (1700)         | 41 | 46             | 47             | 23,0           | 27             | 14 | G 1/2" A   | 45,0           |
| DS-A 30-RS/WD       | 30               | S 400 (1700)         | 50 | 50             | 50             | 23,5           | 50             | 20 | G 1 1/4" A | 63,5           |
| DS-A 38-RS/WD       | 38               | S 400 (1700)         | 55 | 60             | 57             | 26,0           | 55             | 22 | G 1 1/2" A | 87,0           |

L<sub>1</sub> = przybliżona długość z dokręconą nakrętką

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

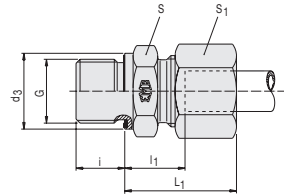
## ŁĄCZNIKI RUROWO-GWINTOWE A ZŁĄCZA MĘSKIE WKREĆCANE

ŚWIAT ZŁĄCZY RUROWYCH

### A ZŁĄCZE RUROWE MĘSKIE METRYCZNE WD

Walcowy metryczny.

Uszczelnienie zintegrowane NBR (np. Perbunan),  
FPM (np. Viton) na zamówienie.



| opis                  | Śr. zew.<br>rury | Nr produktu<br>seria | S  | S <sub>1</sub> | L <sub>1</sub> | l <sub>1</sub> | d <sub>3</sub> | i  | G          | kg /<br>100pcs |
|-----------------------|------------------|----------------------|----|----------------|----------------|----------------|----------------|----|------------|----------------|
| DS-A 6-ML/WD          | 6                | L 500 (2200)         | 14 | 14             | 23             | 8,5            | 14             | 8  | M 10 x 1   | 2,5            |
| DS-A 8-ML/WD          | 8                | L 500 (2200)         | 17 | 17             | 25             | 10,0           | 17             | 12 | M 12 x 1,5 | 4,0            |
| DS-A 10-ML/WD         | 10               | L 500 (2200)         | 19 | 19             | 26             | 11,0           | 19             | 12 | M 14 x 1,5 | 4,9            |
| DS-A 12-ML/WD         | 12               | L 400 (1700)         | 22 | 22             | 27             | 12,5           | 22             | 12 | M 16 x 1,5 | 6,8            |
| DS-A 12-L/M 18x1,5/WD | 12               | L 400 (1700)         | 24 | 22             | 27             | 12,5           | 24             | 12 | M 18 x 1,5 | 7,4            |
| DS-A 12-L/M 22x1,5/WD | 12               | L 400 (1700)         | 27 | 22             | 29             | 14,0           | 27             | 14 | M 22 x 1,5 | 10,3           |
| DS-A 15-ML/WD         | 15               | L 400 (1700)         | 24 | 27             | 29             | 13,5           | 24             | 12 | M 18 x 1,5 | 9,5            |
| DS-A 15-L/M 22x1,5/WD | 15               | L 400 (1700)         | 27 | 27             | 30             | 15,0           | 27             | 14 | M 22 x 1,5 | 12,0           |
| DS-A 18-ML/WD         | 18               | L 400 (1700)         | 27 | 32             | 31             | 14,5           | 27             | 14 | M 22 x 1,5 | 13,7           |
| DS-A 22-ML/WD         | 22               | L 250 (1100)         | 32 | 36             | 33             | 16,5           | 32             | 16 | M 26 x 1,5 | 18,8           |
| DS-A 28-ML/WD         | 28               | L 250 (1100)         | 41 | 41             | 34             | 17,5           | 40             | 18 | M 33 x 2   | 25,8           |
| DS-A 35-ML/WD         | 35               | L 250 (1100)         | 50 | 50             | 39             | 17,5           | 50             | 20 | M 42 x 2   | 42,0           |
| DS-A 42-ML/WD         | 42               | L 250 (1100)         | 55 | 60             | 42             | 19,0           | 55             | 22 | M 48 x 2   | 57,5           |
| DS-A 6-MS/WD          | 6                | S 800 (3400)         | 17 | 17             | 28             | 13,0           | 17             | 12 | M 12 x 1,5 | 4,7            |
| DS-A 8-MS/WD          | 8                | S 800 (3400)         | 19 | 19             | 30             | 15,0           | 19             | 12 | M 14 x 1,5 | 6,5            |
| DS-A 10-MS/WD         | 10               | S 800 (3400)         | 22 | 22             | 31             | 15,0           | 22             | 12 | M 16 x 1,5 | 8,6            |
| DS-A 12-MS/WD         | 12               | S 630 (2700)         | 24 | 24             | 33             | 17,0           | 24             | 12 | M 18 x 1,5 | 10,9           |
| DS-A 14-MS/WD         | 14               | S 630 (2700)         | 27 | 27             | 37             | 19,0           | 26             | 14 | M 20 x 1,5 | 14,8           |
| DS-A 16-MS/WD         | 16               | S 630 (2700)         | 27 | 30             | 37             | 18,5           | 27             | 14 | M 22 x 1,5 | 16,6           |
| DS-A 20-MS/WD         | 20               | S 400 (1700)         | 32 | 36             | 42             | 20,5           | 32             | 16 | M 27 x 2   | 25,3           |
| DS-A 25-MS/WD         | 25               | S 401 (1700)         | 41 | 46             | 47             | 23,0           | 40             | 18 | M 33 x 2   | 46,5           |
| DS-A 30-MS/WD         | 30               | S 402 (1700)         | 50 | 50             | 50             | 23,5           | 50             | 20 | M 42 x 2   | 64,4           |
| DS-A 38-MS/WD         | 38               | S 403 (1700)         | 55 | 60             | 57             | 26,0           | 55             | 22 | M 48 x 2   | 87,3           |

L<sub>1</sub> = przybliżona długość z dokręconą nakrętką

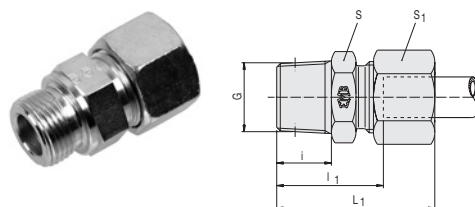
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ŁĄCZNIKI RUROWO-GWINTOWE A ZŁĄCZA MĘSKIE WKREĆCANE

### A ZŁĄCZE RUROWE MĘSKIE NPT

NPT (ANSI/ASME B1-20.1, 1983).

Wymiary specjalne.



| opis                 | Śr. zew. rury | Nr produktu seria | S  | S <sub>1</sub> | L <sub>4</sub> | L <sub>4</sub> | i    | G          | kg / 100pcs |
|----------------------|---------------|-------------------|----|----------------|----------------|----------------|------|------------|-------------|
| A 4-LL/NPT           | 4             | LL 100 (400)      | 11 | 10             | 28             | 18,0           | 10,0 | 1/8" NPT   | 1,5         |
| A 6-LL/NPT           | 6             | LL 100 (400)      | 11 | 12             | 28             | 16,5           | 10,0 | 1/8" NPT   | 1,5         |
| A 8-LL/NPT           | 8             | LL 100 (400)      | 12 | 14             | 30             | 18,5           | 10,0 | 1/8" NPT   | 2,0         |
| DS-A 6-L / NPT       | 6             | L 315 (1260)      | 12 | 14             | 32             | 18,0           | 10,0 | 1/8" NPT   | 2,6         |
| DS-A 6-L 1/4" / NPT  | 6             | L 315 (1260)      | 17 | 14             | 38             | 23,0           | 15,1 | 1/4" NPT   | 3,8         |
| DS-A 8-L / NPT       | 8             | L 315 (1260)      | 17 | 17             | 38             | 23,0           | 15,0 | 1/4" NPT   | 4,0         |
| DS-A 10-L / NPT      | 10            | L 315 (1260)      | 17 | 19             | 39             | 24,0           | 15,0 | 1/4" NPT   | 4,8         |
| DS-A 10-L 3/8" / NPT | 10            | L 315 (1260)      | 19 | 19             | 40             | 25,0           | 15,2 | 3/8" NPT   | 6,0         |
| DS-A 12-L / NPT      | 12            | L 315 (1260)      | 19 | 22             | 40             | 25,0           | 15,0 | 3/8" NPT   | 6,5         |
| DS-A 12-L 1/4" / NPT | 12            | L 315 (1260)      | 19 | 22             | 40             | 25,0           | 15,1 | 1/4" NPT   | 5,8         |
| DS-A 12-L 1/2" / NPT | 12            | L 315 (1260)      | 24 | 22             | 45             | 30,0           | 19,8 | 1/2" NPT   | 8,9         |
| DS-A 15-L / NPT      | 15            | L 315 (1260)      | 24 | 27             | 46             | 31,0           | 20,0 | 1/2" NPT   | 11,0        |
| DS-A 18-L / NPT      | 18            | L 315 (1260)      | 27 | 32             | 48             | 31,5           | 20,0 | 1/2" NPT   | 13,5        |
| DS-A 22-L / NPT      | 22            | L 160 (640)       | 32 | 36             | 50             | 33,5           | 20,0 | 3/4" NPT   | 19,0        |
| DS-A 28-L / NPT      | 28            | L 160 (640)       | 41 | 41             | 56             | 39,5           | 25,0 | 1" NPT     | 27,5        |
| DS-A 35-L / NPT      | 35            | L 160 (640)       | 46 | 50             | 62             | 40,0           | 25,6 | 1 1/4" NPT | 40,5        |
| DS-A 42-L / NPT      | 42            | L 160 (640)       | 55 | 60             | 65             | 42,0           | 26,0 | 1 1/2" NPT | 57,0        |
| DS-A 6-S / NPT       | 6             | S 630 (2520)      | 17 | 17             | 43             | 26,0           | 15,0 | 1/4" NPT   | 5,0         |
| DS-A 8-S / NPT       | 8             | S 630 (2520)      | 17 | 19             | 43             | 28,0           | 15,0 | 1/4" NPT   | 5,5         |
| DS-A 10-S / NPT      | 10            | S 630 (2520)      | 19 | 22             | 44             | 27,5           | 15,0 | 3/8" NPT   | 8,0         |
| DS-A 10-S 1/4" / NPT | 10            | S 630 (2520)      | 19 | 22             | 44             | 27,5           | 15,1 | 1/4" NPT   | 7,6         |
| DS-A 12-S / NPT      | 12            | S 630 (2520)      | 22 | 24             | 46             | 29,5           | 15,0 | 3/8" NPT   | 10,0        |
| DS-A 12-S 1/4" / NPT | 12            | S 630 (2520)      | 22 | 24             | 46             | 29,5           | 15,1 | 1/4" NPT   | 9,4         |
| DS-A 12-S 1/2" / NPT | 12            | S 630 (2520)      | 24 | 24             | 51             | 34,5           | 19,8 | 1/2" NPT   | 11,9        |
| DS-A 14-S / NPT      | 14            | S 630 (2520)      | 24 | 27             | 54             | 36,0           | 20,0 | 1/2" NPT   | 15,5        |
| DS-A 16-S / NPT      | 16            | S 630 (2520)      | 27 | 30             | 54             | 35,5           | 20,0 | 1/2" NPT   | 16,0        |
| DS-A 20-S / NPT      | 20            | S 400 (1600)      | 32 | 36             | 59             | 37,5           | 20,0 | 3/4" NPT   | 25,0        |
| DS-A 25-S / NPT      | 25            | S 400 (1600)      | 41 | 46             | 69             | 45,0           | 25,0 | 1" NPT     | 47,5        |
| DS-A 30-S/NPT        | 30            | S 400 (1600)      | 46 | 50             | 73             | 46,0           | 25,6 | 1 1/4" NPT | 62,0        |
| DS-A 38-S/NPT        | 38            | S 400 (1600)      | 55 | 60             | 80             | 49,0           | 26,0 | 1 1/2" NPT | 89,0        |

L<sub>4</sub> = przybliżona długość z dokręconą nakrętką

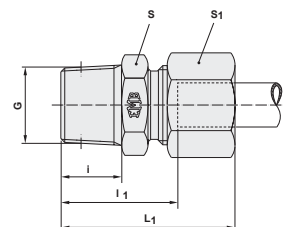
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ŁĄCZNIKI RUROWO-GWINTOWE A ZŁĄCZA MĘSKIE WKREĆANE

ŚWIAT ZŁĄCZY RUROWYCH

### AP ZŁĄCZA RUROWE MĘSKIE BSP GWINT STOŻK.

BSP gwint stożk.



| opis                | Śr. zew.<br>rury | Nr produktu<br>seria | S  | S <sub>1</sub> | L <sub>1</sub> | l <sub>1</sub> | i  | G          | kg /<br>100pcs |
|---------------------|------------------|----------------------|----|----------------|----------------|----------------|----|------------|----------------|
| DS-AP 6-L/R 1/8"    | 6                | L 315 (1260)         | 12 | 14             | 30,0           | 15,0           | 8  | R 1/8" K   | 2,2            |
| DS-AP 8-L/R 1/4"    | 8                | L 315 (1260)         | 17 | 17             | 35,0           | 20,0           | 12 | R 1/4" K   | 3,8            |
| DS-AP 10-L/R 1/4"   | 10               | L 315 (1260)         | 17 | 19             | 37,0           | 22,0           | 12 | R 1/4" K   | 4,3            |
| DS-AP 12-L/R 3/8"   | 12               | L 315 (1260)         | 19 | 22             | 37,0           | 22,0           | 12 | R 3/8" K   | 6,0            |
| DS-AP 15-L/R 1/2"   | 15               | L 315 (1260)         | 24 | 27             | 40,0           | 25,0           | 14 | R 1/2" K   | 10,3           |
| DS-AP 18-L/R 1/2"   | 18               | L 315 (1260)         | 27 | 32             | 42,0           | 25,5           | 14 | R 1/2" K   | 12,7           |
| DS-AP 22-L/R 3/4"   | 22               | L 160 (640)          | 32 | 36             | 46,0           | 29,5           | 16 | R 3/4" K   | 18,5           |
| DS-AP 28-L/R 1"     | 28               | L 161 (640)          | 41 | 41             | 51,5           | 34,5           | 18 | R 1" K     | 25,8           |
| DS-AP 35-L/R 1 1/4" | 35               | L 162 (640)          | 50 | 50             | 56,0           | 34,5           | 20 | R 1 1/4" K | 41,5           |
| DS-AP 42-L/R 1 1/2" | 42               | L 163 (640)          | 55 | 60             | 61,0           | 38,0           | 22 | R 1 1/2" K | 56,7           |

L<sub>1</sub> = przybliżona długość z dokręconą nakrętką

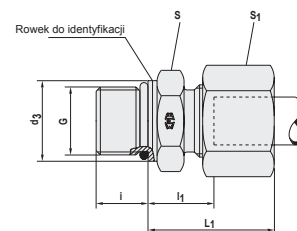
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ŁĄCZNIKI RUROWO-GWINTOWE A ZŁĄCZA MĘSKIE WKREĆANE

### A ZŁĄCZE RUROWE MĘSKIE METRYCZNE O-RING

Walcowy metryczny (DIN ISO 6149-2 a. -3).

Uszczelnienie typu O-ring.



| opis         | Śr. zew. rury | Nr produktu seria | S  | S <sub>1</sub> | L <sub>1</sub> | L <sub>1</sub> | d <sub>3</sub> | i    | G          | kg / 100pcs | o-ring A-90 |
|--------------|---------------|-------------------|----|----------------|----------------|----------------|----------------|------|------------|-------------|-------------|
| DS-A 6-ML/O  | 6             | L 400 (1700)      | 14 | 14             | 24             | 9,5            | 14             | 9,5  | M 10 x 1   | 2,4         | 8,1 x 1,6   |
| DS-A 8-ML/O  | 8             | L 400 (1700)      | 17 | 17             | 24             | 10,0           | 17             | 11,0 | M 12 x 1,5 | 3,8         | 9,3 x 2,2   |
| DS-A 10-ML/O | 10            | L 400 (1700)      | 19 | 19             | 25             | 11,0           | 19             | 11,0 | M 14 x 1,5 | 5,1         | 11,3 x 2,2  |
| DS-A 12-ML/O | 12            | L 400 (1700)      | 22 | 22             | 27             | 12,5           | 22             | 11,5 | M 16 x 1,5 | 6,8         | 13,3 x 2,2  |
| DS-A 15-ML/O | 15            | L 400 (1700)      | 24 | 27             | 28             | 13,5           | 24             | 14,0 | M 18 x 1,5 | 9,5         | 15,3 x 2,2  |
| DS-A 18-ML/O | 18            | L 400 (1700)      | 27 | 32             | 30             | 14,5           | 27             | 15,0 | M 22 x 1,5 | 14,0        | 19,3 x 2,2  |
| DS-A 22-ML/O | 22            | L 250 (1100)      | 32 | 36             | 32             | 16,5           | 32             | 18,5 | M 27 x 2   | 18,8        | 23,6 x 2,9  |
| DS-A 28-ML/O | 28            | L 250 (1100)      | 41 | 41             | 34             | 17,5           | 41             | 18,5 | M 33 x 2   | 26,8        | 29,6 x 2,9  |
| DS-A 35-ML/O | 35            | L 250 (1100)      | 50 | 50             | 39             | 17,5           | 50             | 19,0 | M 42 x 2   | 43,4        | 38,6 x 2,9  |
| DS-A 6-MS/O  | 6             | S 630 (2700)      | 17 | 17             | 27             | 13,0           | 17             | 11,0 | M 12 x 1,5 | 4,8         | 9,3 x 2,2   |
| DS-A 8-MS/O  | 8             | S 630 (2700)      | 19 | 19             | 29             | 15,0           | 19             | 11,0 | M 14 x 1,5 | 6,4         | 11,3 x 2,2  |
| DS-A 10-MS/O | 10            | S 630 (2700)      | 22 | 22             | 31             | 15,0           | 22             | 12,5 | M 16 x 1,5 | 8,6         | 13,3 x 2,2  |
| DS-A 12-MS/O | 12            | S 630 (2700)      | 24 | 24             | 33             | 17,0           | 24             | 14,0 | M 18 x 1,5 | 10,9        | 15,3 x 2,2  |
| DS-A 16-MS/O | 16            | S 630 (2700)      | 27 | 30             | 36             | 18,5           | 27             | 15,0 | M 22 x 1,5 | 16,6        | 19,3 x 2,2  |
| DS-A 20-MS/O | 20            | S 400 (1700)      | 32 | 36             | 42             | 20,5           | 32             | 18,5 | M 27 x 2   | 26,2        | 23,6 x 2,9  |
| DS-A 25-MS/O | 25            | S 400 (1700)      | 41 | 46             | 47             | 23,0           | 41             | 18,5 | M 33 x 2   | 48,8        | 29,6 x 2,9  |
| DS-A 30-MS/O | 30            | S 400 (1700)      | 50 | 50             | 50             | 23,5           | 50             | 19,0 | M 42 x 2   | 66,2        | 38,6 x 2,9  |

L<sub>1</sub> = przybliżona długość z dokręconą nakrętką

O-ringi NBR (np. Perbunan). FPM (np. Viton) na zamówienie

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

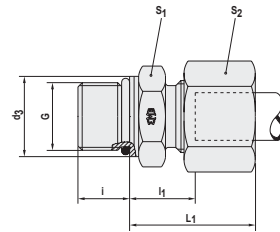
## ŁĄCZNIKI RUROWO-GWINTOWE A ZŁĄCZA MĘSKIE WKREĆANE

ŚWIAT ZŁĄCZY RUROWYCH

### A ZŁĄCZE RUROWE MĘSKIE UNF/UN O-RING

UNF/UN (ISO 11926-2 and 3).

Uszczelnienie typu O-ring.



| opis                    | Sr.<br>zew.<br>rury | Nr produktu<br>seria | S  | S <sub>1</sub> | L <sub>1</sub> | L <sub>1</sub> | d <sub>3</sub> | i    | G              | kg /<br>100pcs | o-ring A-90  |
|-------------------------|---------------------|----------------------|----|----------------|----------------|----------------|----------------|------|----------------|----------------|--------------|
| DS-A 8-L/7/16"-20 UNF   | 8                   | L 400 (1700)         | 17 | 17             | 25             | 10,0           | 14             | 9,0  | 7/16-20 UNF-2A | 3,6            | 8,92 x 1,83  |
| DS-A 10-S/9/16"-18 UNF  | 10                  | L 400 (1700)         | 17 | 19             | 26             | 11,0           | 14             | 9,0  | 7/16-20 UNF-2A | 4,2            | 8,92 x 1,83  |
| DS-A 12-L/7/16"-20 UNF  | 12                  | L 400 (1700)         | 19 | 22             | 26             | 11,0           | 17             | 10,0 | 9/16-18 UNF-2A | 5,6            | 12,00 x 2,00 |
| DS-A 12-L/3/4"-16 UNF   | 12                  | L 400 (1700)         | 24 | 22             | 28             | 13,0           | 22             | 11,0 | 3/4-16 UNF-2A  | 7,6            | 16,36 x 2,21 |
| DS-A 12-L/7/8"-14 UNF   | 12                  | L 400 (1700)         | 27 | 22             | 29             | 14,3           | 27             | 12,7 | 7/8-14 UNF-2A  | 10,1           | 19,18 x 2,46 |
| DS-A 15-L/3/4"-16 UNF   | 15                  | L 400 (1700)         | 24 | 27             | 29             | 14,0           | 22             | 11,0 | 3/4-16 UNF-2A  | 9,7            | 16,36 x 2,21 |
| DS-A 15-L/7/8"-14 UNF   | 15                  | L 400 (1700)         | 27 | 27             | 30             | 15,3           | 27             | 12,7 | 7/8-14 UNF-2A  | 12,0           | 19,18 x 2,46 |
| DS-A 18-L/3/4"-16 UNF   | 18                  | L 400 (1700)         | 27 | 32             | 31             | 14,5           | 22             | 11,0 | 3/4-16 UNF-2A  | 13,1           | 16,36 x 2,21 |
| DS-A 18-L/7/8"-14 UNF   | 18                  | L 400 (1700)         | 27 | 32             | 31             | 14,8           | 27             | 12,7 | 7/8-14 UNF-2A  | 13,7           | 19,18 x 2,46 |
| DS-A 22-L/7/8"-14 UNF   | 22                  | L 250 (1100)         | 32 | 36             | 33             | 16,8           | 27             | 12,7 | 7/8-14 UNF-2A  | 18,0           | 19,18 x 2,46 |
| DS-A 22-L/1,1/16"-12 UN | 22                  | L 250 (1100)         | 32 | 36             | 33             | 16,5           | 32             | 15,0 | 11/16-12 UN-2A | 18,8           | 23,47 x 2,95 |
| DS-A 22-L 1,5/16"-12 UN | 22                  | L 250 (1100)         | 41 | 36             | 34             | 17,5           | 41             | 15,0 | 15/16-12 UN-2A | 24,8           | 29,74 x 2,95 |
| DS-A 28-L/1,1/16"-12 UN | 28                  | L 250 (1100)         | 41 | 41             | 34             | 17,5           | 32             | 15,0 | 11/16-12 UN-2A | 25,2           | 23,47 x 2,95 |
| DS-A 28-L/1,5/16"-12 UN | 28                  | L 250 (1100)         | 41 | 41             | 34             | 17,5           | 41             | 15,0 | 15/16-12 UN-2A | 26,2           | 29,74 x 2,95 |
| DS-A 35-L/1,5/16"-12 UN | 35                  | L 250 (1100)         | 46 | 50             | 39             | 17,5           | 41             | 15,0 | 15/16-12 UN-2A | 37,6           | 37,46 x 2,95 |
| DS-A 35-L/1,5/8"-12 UN  | 35                  | L 250 (1100)         | 50 | 50             | 39             | 17,5           | 50             | 15,0 | 15/8-12 UN-2A  | 41,0           | 37,46 x 3    |
| DS-A 42-L/1,5/8"-12 UN  | 42                  | L 250 (1100)         | 55 | 60             | 42             | 19,0           | 50             | 15,0 | 15/8-12 UN-2A  | 57,6           | 37,46 x 3    |
| DS-A 8-S/7/16"-20 UNF   | 8                   | S 630 (2700)         | 17 | 19             | 30             | 15,0           | 14             | 9,0  | 7/16-20 UNF-2A | 5,4            | 8,92 x 1,83  |
| DS-A 10-S/9/16"-18 UNF  | 10                  | S 630 (2700)         | 19 | 22             | 31             | 14,5           | 17             | 10,0 | 9/16-18 UNF-2A | 7,4            | 12,00 x 2,00 |
| DS-A 12-S 9/16"-18 UNF  | 12                  | S 630 (2700)         | 22 | 24             | 31             | 14,5           | 17             | 10,0 | 9/16-18 UNF-2A | 8,6            | 12,00 x 2,00 |
| DS-A 12-S 3/4"-16 UNF   | 12                  | S 630 (2700)         | 24 | 24             | 34             | 17,5           | 22             | 11,0 | 3/4-16 UNF-2A  | 10,9           | 16,36 x 2,21 |
| DS-A 16-S/3/4"-16 UNF   | 16                  | S 630 (2700)         | 24 | 30             | 34             | 15,5           | 22             | 11,0 | 3/4-16 UNF-2A  | 13,5           | 16,36 x 2,21 |
| DS-A 16-S/7/8"-14 UNF   | 16                  | S 630 (2700)         | 27 | 30             | 37             | 18,8           | 27             | 12,7 | 7/8-14 UNF-2A  | 16,4           | 19,18 x 2,46 |
| DS-A 20-S 3/4"-16 UNF   | 20                  | S 400 (1700)         | 32 | 36             | 42             | 20,5           | 22             | 11,0 | 3/4-16 UNF-2A  | 24,0           | 16,36 x 2,21 |
| DS-A 20-S/7/8"-14 UNF   | 20                  | S 400 (1700)         | 32 | 36             | 42             | 20,8           | 27             | 12,7 | 7/8-14 UNF-2A  | 25,2           | 19,18 x 2,46 |
| DS-A 20-S/1,1/16"-12 UN | 20                  | S 400 (1700)         | 32 | 36             | 42             | 20,5           | 32             | 15,0 | 11/16-12 UN-2A | 26,0           | 23,47 x 2,95 |
| DS-A 25-S/1,1/16"-12 UN | 25                  | S 400 (1700)         | 36 | 46             | 47             | 23,0           | 32             | 15,0 | 11/16-12 UN-2A | 42,5           | 23,47 x 2,95 |
| DS-A 25-S/1,5/16"-12 UN | 25                  | S 400 (1700)         | 41 | 46             | 47             | 23,0           | 41             | 15,0 | 15/16-12 UN-2A | 47,7           | 29,74 x 2,95 |
| DS-A 30-S/1,5/16"-12 UN | 30                  | S 400 (1700)         | 46 | 50             | 50             | 23,5           | 41             | 15,0 | 15/16-12 UN-2A | 56,3           | 29,74 x 2,95 |
| DS-A 30-S/1,5/8"-12 UN  | 30                  | S 400 (1700)         | 50 | 50             | 50             | 23,5           | 50             | 15,0 | 15/8-12 UN-2A  | 63,4           | 37,46 x 3    |
| DS-A 38-S 1,5/8"-12 UN  | 38                  | S 400 (1700)         | 55 | 60             | 57             | 26,0           | 50             | 15,0 | 15/8-12 UN-2A  | 89,4           | 37,46 x 3    |

L<sub>1</sub> = przybliżona długość z dokręconą nakrętką

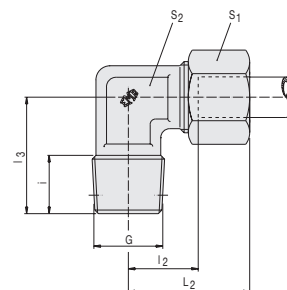
O-ringi NBR (np. Perbunan). FPM (np. Viton) na zamówienie

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ŁĄCZNIKI RUROWO-GWINTOWE B KOLANKA MĘSKIE WKREĆCANE

### B ZŁĄCZE KOLANOWE BSP GWINT STOŻK.

BSP gwint stożk.



| opis       | Śr. zew.<br>rury | Nr produktu<br>seria | S <sub>1</sub> | S <sub>2</sub> | L <sub>2</sub> | l <sub>2</sub> | l <sub>3</sub> | i  | G        | kg /<br>100pcs |
|------------|------------------|----------------------|----------------|----------------|----------------|----------------|----------------|----|----------|----------------|
| B 4-RLL    | 4                | LL 100 (400)         | 10             | 11             | 21             | 11,0           | 17             | 8  | R 1/8" K | 2,2            |
| B 6-RLL    | 6                | LL 100 (400)         | 12             | 11             | 21             | 9,5            | 17             | 8  | R 1/8" K | 2,5            |
| B 8-RLL    | 8                | LL 100 (400)         | 14             | 12             | 23             | 11,5           | 20             | 8  | R 1/8" K | 3,4            |
| DS-B 6-RL  | 6                | L 315 (1260)         | 14             | 12             | 27             | 12,0           | 20             | 8  | R 1/8" K | 4,0            |
| DS-B 8-RL  | 8                | L 315 (1260)         | 17             | 14             | 29             | 14,0           | 26             | 12 | R 1/4" K | 6,6            |
| DS-B 10-RL | 10               | L 315 (1260)         | 19             | 17             | 30             | 15,0           | 27             | 12 | R 1/4" K | 8,3            |
| DS-B 12-RL | 12               | L 315 (1260)         | 22             | 19             | 32             | 17,0           | 28             | 12 | R 3/8" K | 11,8           |
| DS-B 15-RL | 15               | L 315 (1260)         | 27             | 19             | 36             | 21,0           | 34             | 14 | R 1/2" K | 13,0           |
| DS-B 18-RL | 18               | L 315 (1260)         | 32             | 24             | 40             | 23,5           | 36             | 14 | R 1/2" K | 16,6           |
| DS-B 6-RS  | 6                | S 630* (2520)        | 17             | 14             | 31             | 16,0           | 26             | 12 | R 1/4" K | 7,2            |
| DS-B 8-RS  | 8                | S 630* (2520)        | 19             | 17             | 32             | 17,0           | 27             | 12 | R 1/4" K | 8,8            |
| DS-B 10-RS | 10               | S 630* (2520)        | 22             | 19             | 34             | 17,5           | 28             | 12 | R 3/8" K | 13,4           |
| DS-B 12-RS | 12               | S 630* (2520)        | 24             | 22             | 38             | 21,5           | 28             | 12 | R 3/8" K | 16,5           |
| DS-B 14-RS | 14               | S 630* (2520)        | 27             | 19             | 40             | 22,0           | 32             | 14 | R 1/2" K | 15,3           |
| DS-B 16-RS | 16               | S 630* (2520)        | 30             | 24             | 43             | 24,5           | 32             | 14 | R 1/2" K | 17,9           |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

Śr. zew. 4 do 12 mm wykonana z materiału profilowanego

\* PN 630 dotyczy tylko portów z gwintem stożkowym; PN 400 dotyczy tylko portów z gwintem walcowym

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

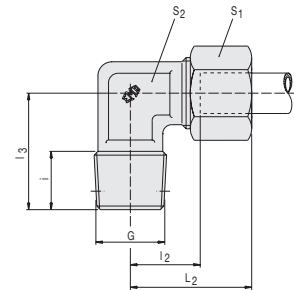


## ŁĄCZNIKI RUROWO-GWINTOWE B KOLANKA MĘSKIE WKREĆANE

ŚWIAT ZŁĄCZY RUROWYCH

### B ZŁĄCZE KOLANOWE METRYCZNE GWINT STOŻK.

Metryczne gwint stożk.



| opis       | Śr. zew. rury | Nr produktu seria | S <sub>1</sub> | S <sub>2</sub> | L <sub>2</sub> | l <sub>2</sub> | l <sub>3</sub> | i  | G          | kg / 100pcs |
|------------|---------------|-------------------|----------------|----------------|----------------|----------------|----------------|----|------------|-------------|
| B 4-MLL    | 4             | LL 100 (400)      | 10             | 9              | 21             | 11,0           | 17             | 8  | M 8x1 K    | 2,1         |
| B 6-MLL    | 6             | LL 100 (400)      | 12             | 11             | 21             | 9,5            | 17             | 8  | M 10x1 K   | 2,5         |
| B 8-MLL    | 8             | LL 100 (400)      | 14             | 12             | 23             | 11,5           | 20             | 8  | M 10x1 K   | 3,4         |
| DS-B 6-ML  | 6             | L 315 (1260)      | 14             | 12             | 27             | 12,0           | 20             | 8  | M 10x1 K   | 4,0         |
| DS-B 8-ML  | 8             | L 315 (1260)      | 17             | 14             | 29             | 14,0           | 26             | 12 | M 12x1,5 K | 6,6         |
| DS-B 10-ML | 10            | L 315 (1260)      | 19             | 17             | 30             | 15,0           | 27             | 12 | M 14x1,5 K | 8,3         |
| DS-B 12-ML | 12            | L 315 (1260)      | 22             | 19             | 32             | 17,0           | 28             | 12 | M 16x1,5 K | 11,8        |
| DS-B 15-ML | 15            | L 315 (1260)      | 27             | 19             | 36             | 21,0           | 32             | 12 | M 18x1,5 K | 12,0        |
| DS-B 18-ML | 18            | L 315 (1260)      | 32             | 24             | 40             | 23,5           | 36             | 14 | M 22x1,5 K | 19,1        |
| DS-B 6-MS  | 6             | S 630* (2520)     | 17             | 14             | 31             | 16,0           | 26             | 12 | M 12x1,5 K | 7,5         |
| DS-B 8-MS  | 8             | S 630* (2520)     | 19             | 17             | 32             | 17,0           | 27             | 12 | M 14x1,5 K | 10,0        |
| DS-B 10-MS | 10            | S 630* (2520)     | 22             | 19             | 34             | 17,5           | 28             | 12 | M 16x1,5 K | 13,8        |
| DS-B 12-MS | 12            | S 630* (2520)     | 24             | 22             | 38             | 21,5           | 28             | 12 | M 18x1,5 K | 16,5        |
| DS-B 14-MS | 14            | S 630* (2520)     | 27             | 19             | 40             | 22,0           | 32             | 14 | M 20x1,5 K | 15,3        |
| DS-B 16-MS | 16            | S 630* (2520)     | 30             | 24             | 43             | 24,5           | 32             | 14 | M 22x1,5 K | 19,0        |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

Śr. zew. 4 do 12 mm wykonana z materiału profilowanego

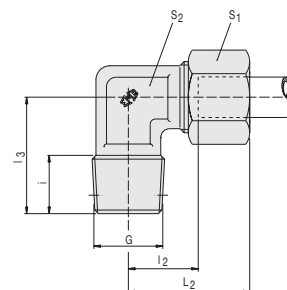
\* PN 630 dotyczy tylko portów z gwintem stożkowym; PN 400 dotyczy tylko portów z gwintem walcowym

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ŁĄCZNIKI RUROWO-GWINTOWE B KOLANKA MĘSKIE WKREĆCANE

### B ZŁĄCZE KOLANOWE NPT

NPT (ANSI/ASME B1-20.1, 1983).



| opis          | Śr. zew. rury | Nr produktu seria | S <sub>1</sub> | S <sub>2</sub> | L <sub>2</sub> | l <sub>2</sub> | l <sub>3</sub> | i    | G          | kg / 100pcs |
|---------------|---------------|-------------------|----------------|----------------|----------------|----------------|----------------|------|------------|-------------|
| B 4-LL/NPT    | 4             | LL 100 (400)      | 10             | 11             | 21             | 11,0           | 17             | 10,0 | 1/8" NPT   | 2,1         |
| B 6-LL/NPT    | 6             | LL 100 (400)      | 12             | 11             | 21             | 9,5            | 17             | 10,0 | 1/8" NPT   | 2,4         |
| B 8-LL/NPT    | 8             | LL 100 (400)      | 14             | 12             | 23             | 11,5           | 20             | 10,0 | 1/8" NPT   | 3,3         |
| DS-B 6-L/NPT  | 6             | L 315 (1260)      | 14             | 12             | 27             | 12,0           | 20             | 10,0 | 1/8" NPT   | 4,0         |
| DS-B 8-L/NPT  | 8             | L 315 (1260)      | 17             | 14             | 29             | 14,0           | 26             | 15,0 | 1/4" NPT   | 6,3         |
| DS-B 10-L/NPT | 10            | L 315 (1260)      | 19             | 17             | 30             | 15,0           | 27             | 15,0 | 1/4" NPT   | 8,2         |
| DS-B 12-L/NPT | 12            | L 315 (1260)      | 22             | 19             | 32             | 17,0           | 28             | 15,0 | 3/8" NPT   | 11,6        |
| DS-B 15-L/NPT | 15            | L 315 (1260)      | 27             | 19             | 36             | 21,0           | 34             | 20,0 | 1/2" NPT   | 14,0        |
| DS-B 18-L/NPT | 18            | L 160 (640)       | 32             | 24             | 40             | 23,5           | 36             | 20,0 | 1/2" NPT   | 16,5        |
| DS-B 22-L/NPT | 22            | L 160 (640)       | 36             | 27             | 44             | 27,5           | 42             | 20,0 | 3/4" NPT   | 23,5        |
| DS-B 28-L/NPT | 28            | L 160 (640)       | 41             | 36             | 47             | 30,5           | 48             | 25,0 | 1" NPT     | 37,5        |
| DS-B 35-L/NPT | 35            | L 160 (640)       | 50             | 41             | 56             | 34,5           | 54             | 25,5 | 1 1/4" NPT | 57,5        |
| DS-B 42-L/NPT | 42            | L 160 (640)       | 60             | 50             | 63             | 40,0           | 61             | 26,0 | 1 1/2" NPT | 83,0        |
| DS-B 6-S/NPT  | 6             | S 630 (2520)      | 17             | 14             | 31             | 16,0           | 26             | 15,0 | 1/4" NPT   | 6,9         |
| DS-B 8-S/NPT  | 8             | S 630 (2520)      | 19             | 17             | 32             | 17,0           | 27             | 15,0 | 1/4" NPT   | 8,5         |
| DS-B 10-S/NPT | 10            | S 630 (2520)      | 22             | 19             | 34             | 17,5           | 28             | 15,0 | 3/8" NPT   | 13,3        |
| DS-B 12-S/NPT | 12            | S 630 (2520)      | 24             | 22             | 38             | 21,5           | 28             | 15,0 | 3/8" NPT   | 16,8        |
| DS-B 14-S/NPT | 14            | S 630 (2520)      | 27             | 19             | 40             | 22,0           | 34             | 20,0 | 1/2" NPT   | 16,6        |
| DS-B 16-S/NPT | 16            | S 630 (2520)      | 30             | 24             | 43             | 24,5           | 36             | 20,0 | 1/2" NPT   | 18,6        |
| DS-B 20-S/NPT | 20            | S 400 (1600)      | 36             | 27             | 48             | 26,5           | 42             | 20,0 | 3/4" NPT   | 30,0        |
| DS-B 25-S/NPT | 25            | S 400 (1600)      | 46             | 36             | 54             | 30,0           | 48             | 25,0 | 1" NPT     | 56,5        |
| DS-B 30-S/NPT | 30            | S 400 (1600)      | 50             | 41             | 62             | 35,5           | 54             | 25,5 | 1 1/4" NPT | 82,0        |
| DS-B 38-S/NPT | 38            | S 400 (1600)      | 60             | 50             | 72             | 41,0           | 61             | 26,0 | 1 1/2" NPT | 116,0       |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

Śr. zew. 4 do 12 mm wykonana z materiału profilowanego

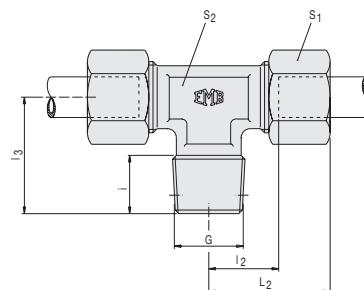
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne – Wybór właściwego złącza rurowego”.

## ŁĄCZNIKI RUROWO-GWINTOWE C TRÓJNIKI WKREĆANE GWINT NA ODGAŁĘZIENIU

ŚWIAT ZŁĄCZY RUROWYCH

### C TRÓJNIK Z GWINTEM ZEWN. NA ODGAŁĘZIENIU BSP GWINT STOŻK.

BSP gwint stożk.



| opis       | Śr.<br>zew.<br>rury | Nr produktu<br>seria | S <sub>1</sub> | S <sub>2</sub> * | L <sub>2</sub> | l <sub>2</sub> | l <sub>3</sub> | i  | G        | kg %<br>pc |
|------------|---------------------|----------------------|----------------|------------------|----------------|----------------|----------------|----|----------|------------|
| C 4-RLL    | 4                   | LL 100 (400)         |                | 10/9             | 21             | 11,0           | 17             | 8  | R 1/8" K | 2,9        |
| C 6-RLL    | 6                   | LL 100 (400)         | 12             | 11               | 21             | 9,5            | 17             | 8  | R 1/8" K | 3,4        |
| C 8-RLL    | 8                   | LL 100 (400)         | 14             | 12/14            | 23             | 11,5           | 20             | 8  | R 1/8" K | 4,7        |
| DS-C 6-RL  | 6                   | L 315 (1260)         | 14             | 12/14            | 27             | 12,0           | 20             | 8  | R 1/8" K | 6,0        |
| DS-C 8-RL  | 8                   | L 315 (1260)         | 17             | 14               | 29             | 14,0           | 26             | 12 | R 1/4" K | 9,2        |
| DS-C 10-RL | 10                  | L 315 (1260)         | 19             | 17               | 30             | 15,0           | 27             | 12 | R 1/4" K | 11,7       |
| DS-C 12-RL | 12                  | L 315 (1260)         | 22             | 19               | 32             | 17,0           | 28             | 12 | R 3/8" K | 16,0       |
| DS-C 15-RL | 15                  | L 315 (1260)         | 27             | 19               | 36             | 21,0           | 34             | 14 | R 1/2" K | 20,3       |
| DS-C 18-RL | 18                  | L 315 (1260)         | 32             | 24               | 40             | 23,5           | 36             | 14 | R 1/2" K | 29,2       |
| DS-C 6-RS  | 6                   | S 400 (1600)         | 17             | 14               | 31             | 16,0           | 26             | 12 | R 1/4" K | 10,9       |
| DS-C 8-RS  | 8                   | S 400 (1600)         | 19             | 17               | 32             | 17,0           | 27             | 12 | R 1/4" K | 14,0       |
| DS-C 10-RS | 10                  | S 400 (1600)         | 22             | 19               | 34             | 17,5           | 28             | 12 | R 3/8" K | 19,0       |
| DS-C 12-RS | 12                  | S 400 (1600)         | 24             | 22               | 38             | 21,5           | 28             | 12 | R 3/8" K | 24,5       |
| DS-C 14-RS | 14                  | S 400 (1600)         | 27             | 19               | 40             | 22,0           | 32             | 14 | R 1/2" K | 24,4       |
| DS-C 16-RS | 16                  | S 400 (1600)         | 30             | 24               | 43             | 24,5           | 32             | 14 | R 1/2" K | 28,4       |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

Śr.zew. 4 do 12 mm wykonana z materiału profilowanego

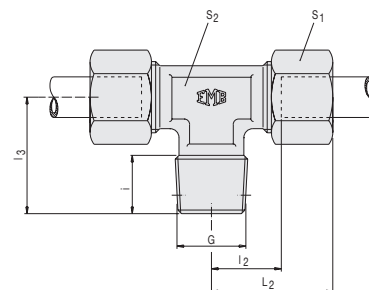
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

\* Zależy od rodzaju produkcji, rozmiar klucza w niektórych przypadkach może być inny.

## ŁĄCZNIKI RUROWO-GWINTOWE C TRÓJNIKI WKREĆANE GWINT NA ODGAŁĘZIENIU

### C TRÓJNIK Z GWINTEM ZEWN. NA ODGAŁĘZIENIU METRYCZNE GWINT STOŻK.

Metryczne gwint stożk.



| opis       | Śr.<br>zew.<br>rury | Nr produktu<br>seria | S <sub>1</sub> | S <sub>2</sub> * | L <sub>2</sub> | l <sub>2</sub> | l <sub>3</sub> | i  | G          | kg %<br>pc |
|------------|---------------------|----------------------|----------------|------------------|----------------|----------------|----------------|----|------------|------------|
| C 4-MLL    | 4                   | LL 100 (400)         |                | 10/9             | 21             | 11,0           | 17             | 8  | M 8x1 K    | 2,8        |
| C 6-MLL    | 6                   | LL 100 (400)         | 12             | 11               | 21             | 9,5            | 17             | 8  | M 10x1 K   | 3,4        |
| C 8-MLL    | 8                   | LL 100 (400)         | 14             | 12/14            | 23             | 11,5           | 20             | 8  | M 10x1 K   | 4,7        |
| DS-C 6-ML  | 6                   | L 315 (1260)         | 14             | 12/14            | 27             | 12,0           | 20             | 8  | M 10x1 K   | 6,0        |
| DS-C 8-ML  | 8                   | L 315 (1260)         | 17             | 14               | 29             | 14,0           | 26             | 12 | M 12x1,5 K | 9,2        |
| DS-C 10-ML | 10                  | L 315 (1260)         | 19             | 17               | 30             | 15,0           | 27             | 12 | M 14x1,5 K | 11,7       |
| DS-C 12-ML | 12                  | L 315 (1260)         | 22             | 19               | 32             | 17,0           | 28             | 12 | M 16x1,5 K | 16,0       |
| DS-C 15-ML | 15                  | L 315 (1260)         | 27             | 19               | 36             | 21,0           | 32             | 12 | M 18x1,5 K | 19,3       |
| DS-C 18-ML | 18                  | L 315 (1260)         | 32             | 24               | 40             | 23,5           | 36             | 14 | M 22x1,5 K | 29,2       |
| DS-C 6-MS  | 6                   | S 400 (1600)         | 17             | 14               | 31             | 16,0           | 26             | 12 | M 12x1,5 K | 10,9       |
| DS-C 8-MS  | 8                   | S 400 (1600)         | 19             | 17               | 32             | 17,0           | 27             | 12 | M 14x1,5 K | 14,0       |
| DS-C 10-MS | 10                  | S 400 (1600)         | 22             | 19               | 34             | 17,5           | 28             | 12 | M 16x1,5 K | 19,0       |
| DS-C 12-MS | 12                  | S 400 (1600)         | 24             | 22               | 38             | 21,5           | 28             | 12 | M 18x1,5 K | 24,5       |
| DS-C 14-MS | 14                  | S 400 (1600)         | 27             | 19               | 40             | 22,0           | 32             | 14 | M 20x1,5 K | 24,4       |
| DS-C 16-MS | 16                  | S 400 (1600)         | 30             | 24               | 43             | 24,5           | 32             | 14 | M 22x1,5 K | 28,4       |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

Śr.zew. 4 do 12 mm wykonana z materiału profilowanego

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

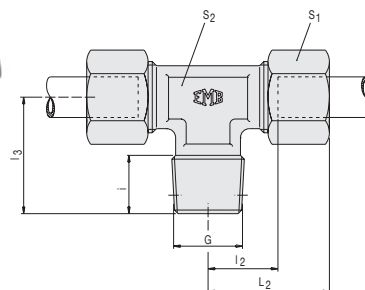
\* Zależy od rodzaju produkcji, rozmiar klucza w niektórych przypadkach może być inny.

## ŁĄCZNIKI RUROWO-GWINTOWE C TRÓJNIKI WKREĆANE GWINT NA ODGAŁĘZIENIU

ŚWIAT ZŁĄCZY RUROWYCH

### C TRÓJNIK Z GWINTEM ZEWN. NA ODGAŁĘZIENIU NPT

NPT [ANSI/ASME B1-20.1, 1983].



| opis          | Śr.zew.<br>rury | Nr produktu<br>seria | S <sub>1</sub> | S <sub>2</sub> | L <sub>2</sub> | l <sub>2</sub> | l <sub>3</sub> | i    | G          | kg /<br>100pcs |
|---------------|-----------------|----------------------|----------------|----------------|----------------|----------------|----------------|------|------------|----------------|
| C 4-LL/NPT    | 4               | LL 100 (400)         | 10             | 11             | 21             | 11,0           | 17             | 10,0 | 1/8" NPT   | 2,2            |
| C 6-LL/NPT    | 6               | LL 100 (400)         | 12             | 11             | 21             | 9,5            | 17             | 10,0 | 1/8" NPT   | 2,8            |
| C 8-LL/NPT    | 8               | LL 100 (400)         | 14             | 12             | 23             | 11,5           | 20             | 10,0 | 1/8" NPT   | 3,7            |
| DS-C 6-L/NPT  | 6               | L 315 (1260)         | 14             | 12             | 27             | 12,0           | 20             | 10,0 | 1/8" NPT   | 4,5            |
| DS-C 8-L/NPT  | 8               | L 315 (1260)         | 17             | 14             | 29             | 14,0           | 26             | 15,0 | 1/4" NPT   | 6,5            |
| DS-C 10-L/NPT | 10              | L 315 (1260)         | 19             | 17             | 30             | 15,0           | 27             | 15,0 | 1/4" NPT   | 8,5            |
| DS-C 12-L/NPT | 12              | L 315 (1260)         | 22             | 19             | 32             | 17,0           | 28             | 15,0 | 3/8" NPT   | 12,0           |
| DS-C 15-L/NPT | 15              | L 315 (1260)         | 27             | 19             | 36             | 21,0           | 34             | 20,0 | 1/2" NPT   | 21,0           |
| DS-C 18-L/NPT | 18              | L 315 (1260)         | 32             | 24             | 40             | 23,5           | 36             | 20,0 | 1/2" NPT   | 28,0           |
| DS-C 22-L/NPT | 22              | L 160 (640)          | 36             | 27             | 44             | 27,5           | 42             | 20,0 | 3/4" NPT   | 38,0           |
| DS-C 28-L/NPT | 28              | L 161 (640)          | 41             | 36             | 47             | 30,5           | 48             | 25,0 | 1" NPT     | 56,0           |
| DS-C 35-L/NPT | 35              | L 162 (640)          | 50             | 41             | 56             | 34,5           | 54             | 25,5 | 1 1/4" NPT | 91,0           |
| DS-C 42-L/NPT | 42              | L 163 (640)          | 60             | 50             | 63             | 40,0           | 61             | 26,0 | 1 1/2" NPT | 137,0          |
| DS-C 6-S/NPT  | 6               | S 630 (2520)         | 17             | 14             | 31             | 16,0           | 26             | 15,0 | 1/4" NPT   | 8,5            |
| DS-C 8-S/NPT  | 8               | S 630 (2520)         | 19             | 17             | 32             | 17,0           | 27             | 15,0 | 1/4" NPT   | 10,5           |
| DS-C 10-S/NPT | 10              | S 630 (2520)         | 22             | 19             | 34             | 17,5           | 28             | 15,0 | 3/8" NPT   | 15,0           |
| DS-C 12-S/NPT | 12              | S 630 (2520)         | 24             | 22             | 38             | 21,5           | 28             | 15,0 | 3/8" NPT   | 18,0           |
| DS-C 14-S/NPT | 14              | S 630 (2520)         | 27             | 19             | 40             | 22,0           | 34             | 20,0 | 1/2" NPT   | 25,0           |
| DS-C 16-S/NPT | 16              | S 630 (2520)         | 30             | 24             | 43             | 24,5           | 36             | 20,0 | 1/2" NPT   | 34,5           |
| DS-C 20-S/NPT | 20              | S 400 (1600)         | 36             | 27             | 48             | 26,5           | 42             | 20,0 | 3/4" NPT   | 49,5           |
| DS-C 25-S/NPT | 25              | S 400 (1600)         | 46             | 36             | 54             | 30,0           | 48             | 25,0 | 1" NPT     | 92,5           |
| DS-C 30-S/NPT | 30              | S 400 (1600)         | 50             | 41             | 62             | 35,5           | 54             | 25,5 | 1 1/4" NPT | 128,0          |
| DS-C 38-S/NPT | 38              | S 400 (1600)         | 60             | 50             | 72             | 41,0           | 61             | 26,0 | 1 1/2" NPT | 189,0          |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

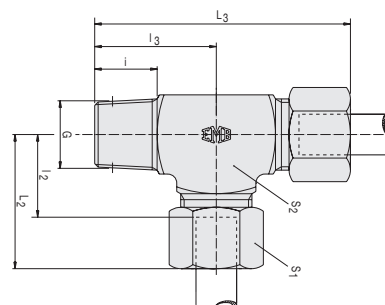
Śr.zew. 4 do 12 mm wykonana z materiału profilowanego

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne – Wybór właściwego złącza rurowego”.

## ŁĄCZNIKI RUROWO-GWINTOWE D TRÓJNIKI WKREĆCANE Z GWINTEM NA PRZELOCIE

### D TRÓJNIK Z GWINTEM ZEWN. NA PRZELOCIE BSP GWINT STOŻK.

BSP gwint stożk.



| opis       | Śr. zew. rury | Nr produktu seria | S <sub>1</sub> | S <sub>2</sub> * | L <sub>2</sub> | l <sub>2</sub> | L <sub>3</sub> | l <sub>3</sub> | i  | G        | kg % pc |
|------------|---------------|-------------------|----------------|------------------|----------------|----------------|----------------|----------------|----|----------|---------|
| D 4-RLL    | 4             | LL 100 (400)      | 10             | 11               | 21             | 11,0           | 38             | 17             | 8  | R 1/8" K | 2,9     |
| D 6-RLL    | 6             | LL 100 (400)      | 12             | 11               | 21             | 9,5            | 38             | 17             | 8  | R 1/8" K | 3,5     |
| D 8-RLL    | 8             | LL 100 (400)      | 14             | 12               | 23             | 11,5           | 43             | 20             | 8  | R 1/8" K | 4,7     |
| DS-D 6-RL  | 6             | L 315 (1260)      | 14             | 12/14            | 27             | 12,0           | 47             | 20             | 8  | R 1/8" K | 6,0     |
| DS-D 8-RL  | 8             | L 315 (1260)      | 17             | 14               | 29             | 14,0           | 55             | 26             | 12 | R 1/4" K | 9,1     |
| DS-D 10-RL | 10            | L 315 (1260)      | 19             | 17               | 30             | 15,0           | 57             | 27             | 12 | R 1/4" K | 11,4    |
| DS-D 12-RL | 12            | L 315 (1260)      | 22             | 19               | 32             | 17,0           | 60             | 28             | 12 | R 3/8" K | 16,2    |
| DS-D 15-RL | 15            | L 315 (1260)      | 27             | 19               | 36             | 21,0           | 70             | 34             | 14 | R 1/2" K | 20,0    |
| DS-D 18-RL | 18            | L 315 (1260)      | 32             | 24               | 40             | 23,5           | 76             | 36             | 14 | R 1/2" K | 26,7    |
| DS-D 6-RS  | 6             | S 400 (1600)      | 17             | 14               | 31             | 16,0           | 57             | 26             | 12 | R 1/4" K | 10,8    |
| DS-D 8-RS  | 8             | S 400 (1600)      | 19             | 17               | 32             | 17,0           | 59             | 27             | 12 | R 1/4" K | 13,8    |
| DS-D 10-RS | 10            | S 400 (1600)      | 22             | 19               | 34             | 17,5           | 62             | 28             | 12 | R 3/8" K | 19,0    |
| DS-D 12-RS | 12            | S 400 (1600)      | 24             | 22               | 38             | 21,5           | 66             | 28             | 12 | R 3/8" K | 24,3    |
| DS-D 14-RS | 14            | S 400 (1600)      | 27             | 19               | 40             | 22,0           | 72             | 32             | 14 | R 1/2" K | 23,4    |
| DS-D 16-RS | 16            | S 400 (1600)      | 30             | 24               | 43             | 24,5           | 75             | 32             | 14 | R 1/2" K | 30,7    |

$L_2+L_3$  = przybliżona długość z dokręconą nakrętką

Śr. zew. 4 do 12 mm wykonana z materiału profilowanego

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

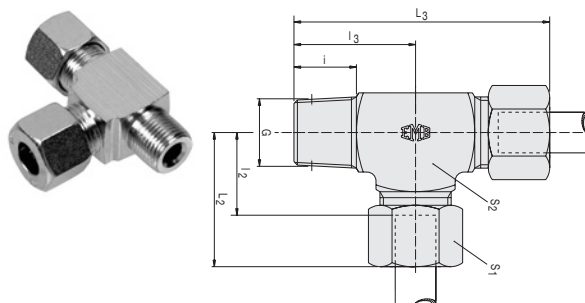
\* Zależy od rodzaju produkcji, rozmiar klucza w niektórych przypadkach może być inny

## ŁĄCZNIKI RUROWO-GWINTOWE D TRÓJNIKI WKREĆANE Z GWINTEM NA PRZELOCIE

ŚWIAT ZŁĄCZY RUROWYCH

### D TRÓJNIK Z GWINTEM ZEWN. NA PRZELOCIE METRYCZNE GWINT STOŻK.

Metryczne gwint stożk.



| opis       | Śr.zew.<br>rury | Nr produktu<br>seria | S <sub>1</sub> | S <sub>2</sub> * | L <sub>2</sub> | l <sub>2</sub> | L <sub>3</sub> | l <sub>3</sub> | i  | G          | kg %<br>pc |
|------------|-----------------|----------------------|----------------|------------------|----------------|----------------|----------------|----------------|----|------------|------------|
| D 4-MLL    | 4               | LL 100 (400)         | 10             | 9                | 21             | 11,0           | 38             | 17             | 8  | M 8x1 K    | 2,8        |
| D 6-MLL    | 6               | LL 100 (400)         | 12             | 11               | 21             | 9,5            | 38             | 17             | 8  | M 10x1 K   | 3,5        |
| D 8-MLL    | 8               | LL 100 (400)         | 14             | 12               | 23             | 11,5           | 43             | 20             | 8  | M 10x1 K   | 4,7        |
| DS-D 6-ML  | 6               | L 315 (1260)         | 14             | 12/14            | 27             | 12,0           | 47             | 20             | 8  | M 10x1 K   | 6,0        |
| DS-D 8-ML  | 8               | L 315 (1260)         | 17             | 14               | 29             | 14,0           | 55             | 26             | 12 | M 12x1,5 K | 9,1        |
| DS-D 10-ML | 10              | L 315 (1260)         | 19             | 17               | 30             | 15,0           | 57             | 27             | 12 | M 14x1,5 K | 11,4       |
| DS-D 12-ML | 12              | L 315 (1260)         | 22             | 19               | 32             | 17,0           | 60             | 28             | 12 | M 16x1,5 K | 16,2       |
| DS-D 15-ML | 15              | L 315 (1260)         | 27             | 19               | 36             | 21,0           | 68             | 32             | 12 | M 18x1,5 K | 18,6       |
| DS-D 18-ML | 18              | L 315 (1260)         | 32             | 24               | 40             | 23,5           | 76             | 36             | 14 | M 22x1,5 K | 26,6       |
| DS-D 6-MS  | 6               | S 400 (1600)         | 17             | 14               | 31             | 16,0           | 57             | 26             | 12 | M 12x1,5 K | 10,8       |
| DS-D 8-MS  | 8               | S 400 (1600)         | 19             | 17               | 32             | 17,0           | 59             | 27             | 12 | M 14x1,5 K | 13,8       |
| DS-D 10-MS | 10              | S 400 (1600)         | 22             | 19               | 34             | 17,5           | 62             | 28             | 12 | M 16x1,5 K | 19,0       |
| DS-D 12-MS | 12              | S 400 (1600)         | 24             | 22               | 38             | 21,5           | 66             | 28             | 12 | M 18x1,5 K | 24,3       |
| DS-D 14-MS | 14              | S 400 (1600)         | 27             | 19               | 40             | 22,0           | 72             | 32             | 14 | M 20x1,5 K | 23,8       |
| DS-D 16-MS | 16              | S 400 (1600)         | 30             | 24               | 43             | 24,5           | 75             | 32             | 14 | M 22x1,5 K | 31,9       |

$L_2+L_3$  = przybliżona długość z dokręconą nakrętką

Śr.zew. 4 do 12 mm wykonana z materiału profilowanego

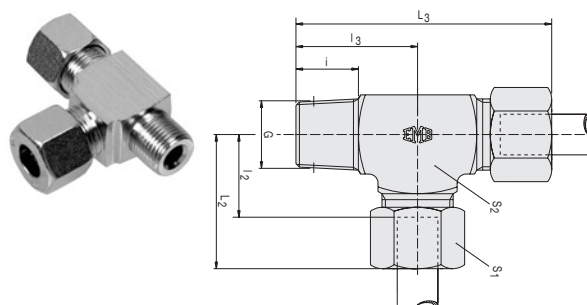
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

\* Zależy od rodzaju produkcji, rozmiar klucza w niektórych przypadkach może być inny

## ŁĄCZNIKI RUROWO-GWINTOWE D TRÓJNIKI WKREĆANE Z GWINTEM NA PRZELOCIE

### D TRÓJNIK Z GWINTEM ZEWN. NA PRZELOCIE NPT

NPT [ANSI/ASME B1-20.1,1983].



| opis          | Śr. zew. rury | Nr produktu seria | S <sub>1</sub> | S <sub>2</sub> | L <sub>2</sub> | l <sub>2</sub> | L <sub>3</sub> | l <sub>3</sub> | i    | G          | kg % pc |
|---------------|---------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|------|------------|---------|
| D 4-LL/NPT    | 4             | LL 100 [400]      | 10             | 11             | 21             | 11,0           | 36             | 15             | 10,0 | 1/8" NPT   | 2,3     |
| D 6-LL/NPT    | 6             | LL 100 [400]      | 12             | 9              | 21             | 9,5            | 36             | 15             | 10,0 | 1/8" NPT   | 2,9     |
| D 8-LL/NPT    | 8             | LL 100 [400]      | 14             | 12             | 23             | 11,5           | 42             | 19             | 10,0 | 1/8" NPT   | 3,7     |
| DS-D 6-L/NPT  | 6             | L 315 [1260]      | 14             | 12             | 27             | 12,0           | 46             | 19             | 10,0 | 1/8" NPT   | 5,0     |
| DS-D 8-L/NPT  | 8             | L 315 [1260]      | 17             | 14             | 29             | 14,0           | 52             | 23             | 15,0 | 1/4" NPT   | 6,5     |
| DS-D 10-L/NPT | 10            | L 315 [1260]      | 19             | 17             | 30             | 15,0           | 54             | 24             | 15,0 | 1/4" NPT   | 8,5     |
| DS-D 12-L/NPT | 12            | L 315 [1260]      | 22             | 19             | 32             | 17,0           | 57             | 25             | 15,0 | 3/8" NPT   | 12,5    |
| DS-D 15-L/NPT | 15            | L 315 [1260]      | 27             | 19             | 36             | 21,0           | 66             | 30             | 20,0 | 1/2" NPT   | 20,5    |
| DS-D 18-L/NPT | 18            | L 315 [1260]      | 32             | 24             | 40             | 23,5           | 73             | 33             | 20,0 | 1/2" NPT   | 26,5    |
| DS-D 22-L/NPT | 22            | L 160 [640]       | 36             | 27             | 44             | 27,5           | 86             | 42             | 20,0 | 3/4" NPT   | 36,5    |
| DS-D 28-L/NPT | 28            | L 160 [640]       | 41             | 36             | 47             | 30,5           | 95             | 48             | 25,0 | 1" NPT     | 56,0    |
| DS-D 35-L/NPT | 35            | L 160 [640]       | 50             | 41             | 56             | 34,5           | 110            | 54             | 25,5 | 1 1/4" NPT | 81,0    |
| DS-D 42-L/NPT | 42            | L 160 [640]       | 60             | 50             | 63             | 40,0           | 124            | 61             | 26,0 | 1 1/2" NPT | 115,0   |
| DS-D 6-S/NPT  | 6             | S 630 [2520]      | 17             | 14             | 31             | 16,0           | 54             | 23             | 15,0 | 1/4" NPT   | 9,0     |
| DS-D 8-S/NPT  | 8             | S 630 [2520]      | 19             | 17             | 32             | 17,0           | 56             | 24             | 15,0 | 1/4" NPT   | 10,5    |
| DS-D 10-S/NPT | 10            | S 630 [2520]      | 22             | 19             | 34             | 17,5           | 59             | 25             | 15,0 | 3/8" NPT   | 15,6    |
| DS-D 12-S/NPT | 12            | S 630 [2520]      | 24             | 22             | 38             | 21,5           | 66             | 28             | 15,0 | 3/8" NPT   | 18,0    |
| DS-D 14-S/NPT | 14            | S 630 [2520]      | 27             | 19             | 40             | 22,0           | 70             | 30             | 20,0 | 1/2" NPT   | 24,5    |
| DS-D 16-S/NPT | 16            | S 630 [2520]      | 30             | 24             | 43             | 24,5           | 76             | 33             | 20,0 | 1/2" NPT   | 32,0    |
| DS-D 20-S/NPT | 20            | S 400 [1600]      | 36             | 27             | 48             | 26,5           | 90             | 42             | 20,0 | 3/4" NPT   | 49,0    |
| DS-D 25-S/NPT | 25            | S 400 [1600]      | 46             | 36             | 54             | 30,0           | 102            | 48             | 25,0 | 1" NPT     | 82,2    |
| DS-D 30-S/NPT | 30            | S 400 [1600]      | 50             | 41             | 62             | 35,5           | 116            | 54             | 25,5 | 1 1/4" NPT | 109,5   |
| DS-D 38-S/NPT | 38            | S 400 [1600]      | 60             | 50             | 72             | 41,0           | 133            | 61             | 26,0 | 1 1/2" NPT | 155,0   |

$L_2+L_3$  = przybliżona długość z dokręconą nakrętką

Śr. zew. 4 do 12 mm wykonana z materiału profilowanego

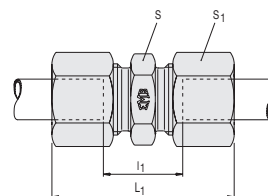
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.



## ŁĄCZNIKI RUROWO-GWINTOWE E ZŁĄCZA PROSTE

ŚWIAT ZŁĄCZY RUROWYCH

### E ZŁĄCZA PROSTE



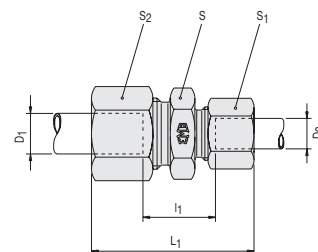
| opis      | Śr. zew.<br>rury | Nr produktu<br>seria | S  | S <sub>1</sub> | L <sub>1</sub> | l <sub>1</sub> | kg %<br>pc |
|-----------|------------------|----------------------|----|----------------|----------------|----------------|------------|
| E 4-LL    | 4                | LL 100 (400)         | 9  | 10             | 31             | 12             | 1,4        |
| E 6-LL    | 6                | LL 100 (400)         | 11 | 12             | 32             | 9              | 2,1        |
| E 8-LL    | 8                | LL 100 (400)         | 12 | 14             | 35             | 12             | 2,6        |
| DS-E 6-L  | 6                | L 500 (2200)         | 12 | 14             | 39             | 10             | 3,5        |
| DS-E 8-L  | 8                | L 500 (2200)         | 14 | 17             | 40             | 11             | 4,9        |
| DS-E 10-L | 10               | L 500 (2200)         | 17 | 19             | 42             | 13             | 6,9        |
| DS-E 12-L | 12               | 400 (1700)           | 19 | 22             | 43             | 14             | 8,5        |
| DS-E 15-L | 15               | 400 (1700)           | 24 | 27             | 46             | 16             | 13,8       |
| DS-E 18-L | 18               | 400 (1700)           | 27 | 32             | 48             | 16             | 19,5       |
| DS-E 22-L | 22               | 250 (1100)           | 32 | 36             | 52             | 20             | 26,2       |
| DS-E 28-L | 28               | 250 (1100)           | 41 | 41             | 54             | 21             | 31,5       |
| DS-E 35-L | 35               | 250 (1100)           | 46 | 50             | 63             | 20             | 49,4       |
| DS-E 42-L | 42               | 250 (1100)           | 55 | 60             | 66             | 21             | 72,8       |
| DS-E 6-S  | 6                | S 800 (3400)         | 14 | 17             | 45             | 16             | 5,9        |
| DS-E 8-S  | 8                | S 800 (3400)         | 17 | 19             | 47             | 18             | 7,8        |
| DS-E 10-S | 10               | S 800 (3400)         | 19 | 22             | 49             | 17             | 11,0       |
| DS-E 12-S | 12               | 630 (2700)           | 22 | 24             | 51             | 19             | 13,6       |
| DS-E 14-S | 14               | 630 (2700)           | 24 | 27             | 57             | 22             | 18,2       |
| DS-E 16-S | 16               | 630 (2700)           | 27 | 30             | 57             | 21             | 22,3       |
| DS-E 20-S | 20               | 400 (1700)           | 32 | 36             | 66             | 23             | 34,7       |
| DS-E 25-S | 25               | 400 (1700)           | 41 | 46             | 74             | 26             | 66,9       |
| DS-E 30-S | 30               | 400 (1700)           | 46 | 50             | 80             | 27             | 80,9       |
| DS-E 38-S | 38               | 400 (1700)           | 55 | 60             | 90             | 29             | 119,4      |

*L<sub>1</sub> = przybliżona długość z dokręconą nakrętką*

*Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne – Wybór właściwego złącza rurowego”.*

## ŁĄCZNIKI RUROWO-GWINTOWE ER ZŁĄCZA PROSTE REDUKCYJNE

### ER ZŁĄCZA PROSTE REDUKCYJNE



| opis          | Śr.<br>zew.<br>rury <sub>1</sub> | Śr.<br>zew.<br>rury <sub>2</sub> | Nr produktu<br>seria | S  | S <sub>1</sub> | S <sub>2</sub> | L <sub>1</sub> | l <sub>1</sub> | kg %<br>pc |
|---------------|----------------------------------|----------------------------------|----------------------|----|----------------|----------------|----------------|----------------|------------|
| ER 6/4-LL     | 6                                | 4                                | LL 100 (400)         | 11 | 10             | 12             | 32             | 10,5           | 1,8        |
| ER 8/4-LL     | 8                                | 4                                | LL 100 (400)         | 12 | 10             | 14             | 34             | 12,5           | 2,1        |
| ER 8/6-LL     | 8                                | 6                                | LL 100 (400)         | 12 | 12             | 14             | 34             | 11,0           | 2,3        |
| DS-ER 8/6-L   | 8                                | 6                                | L 500 (2200)         | 14 | 14             | 17             | 40             | 11,0           | 4,3        |
| DS-ER 10/6-L  | 10                               | 6                                | L 500 (2200)         | 17 | 14             | 19             | 41             | 12,0           | 5,2        |
| DS-ER 10/8-L  | 10                               | 8                                | L 500 (2200)         | 17 | 17             | 19             | 41             | 12,0           | 5,7        |
| DS-ER 12/6-L  | 12                               | 6                                | L 400 (1700)         | 19 | 14             | 22             | 42             | 13,0           | 6,5        |
| DS-ER 12/8-L  | 12                               | 8                                | L 400 (1700)         | 19 | 17             | 22             | 42             | 13,0           | 7,0        |
| DS-ER 12/10-L | 12                               | 10                               | L 400 (1700)         | 19 | 19             | 22             | 43             | 14,0           | 7,5        |
| DS-ER 15/10-L | 15                               | 10                               | L 400 (1700)         | 24 | 19             | 27             | 45             | 15,0           | 10,7       |
| DS-ER 15/12-L | 15                               | 12                               | L 400 (1700)         | 24 | 22             | 27             | 45             | 15,0           | 11,4       |
| DS-ER 18/10-L | 18                               | 10                               | L 400 (1700)         | 27 | 19             | 32             | 46             | 15,5           | 14,3       |
| DS-ER 18/12-L | 18                               | 12                               | L 400 (1700)         | 27 | 22             | 32             | 46             | 15,5           | 15,0       |
| DS-ER 18/15-L | 18                               | 15                               | L 400 (1700)         | 27 | 27             | 32             | 48             | 16,5           | 17,2       |
| DS-ER 22/12-L | 22                               | 12                               | L 250 (1100)         | 32 | 22             | 36             | 48             | 17,5           | 19,3       |
| DS-ER 22/15-L | 22                               | 15                               | L 250 (1100)         | 32 | 27             | 36             | 50             | 18,5           | 21,8       |
| DS-ER 22/18-L | 22                               | 18                               | L 250 (1100)         | 32 | 32             | 36             | 50             | 18,0           | 23,8       |
| DS-ER 28/18-L | 28                               | 18                               | L 250 (1100)         | 41 | 32             | 41             | 52             | 19,0           | 30,6       |
| DS-ER 28/22-L | 28                               | 22                               | L 250 (1100)         | 41 | 36             | 41             | 54             | 21,0           | 32,6       |
| DS-ER 35/22-L | 35                               | 22                               | L 250 (1100)         | 46 | 36             | 50             | 59             | 21,0           | 44,3       |
| DS-ER 35/28-L | 35                               | 28                               | L 250 (1100)         | 46 | 41             | 50             | 59             | 21,0           | 46,1       |
| DS-ER 8/6-S   | 8                                | 6                                | S 800 (3400)         | 17 | 17             | 19             | 47             | 18,0           | 7,4        |
| DS-ER 10/6-S  | 10                               | 6                                | S 800 (3400)         | 19 | 17             | 22             | 48             | 17,5           | 9,1        |
| DS-ER 10/8-S  | 10                               | 8                                | S 800 (3400)         | 19 | 19             | 22             | 48             | 17,5           | 9,5        |
| DS-ER 12/6-S  | 12                               | 6                                | S 630 (2700)         | 22 | 17             | 24             | 50             | 19,5           | 11,1       |
| DS-ER 12/8-S  | 12                               | 8                                | S 630 (2700)         | 22 | 19             | 24             | 50             | 19,5           | 11,5       |
| DS-ER 12/10-S | 12                               | 10                               | S 630 (2700)         | 22 | 22             | 24             | 51             | 19,0           | 12,7       |
| DS-ER 14/10-S | 14                               | 10                               | S 630 (2700)         | 24 | 22             | 27             | 54             | 20,5           | 15,6       |
| DS-ER 14/12-S | 14                               | 12                               | S 630 (2700)         | 24 | 24             | 27             | 54             | 20,5           | 16,2       |
| DS-ER 16/12-S | 16                               | 12                               | S 630 (2700)         | 27 | 24             | 30             | 54             | 20,0           | 18,8       |
| DS-ER 16/14-S | 16                               | 14                               | S 630 (2700)         | 27 | 27             | 30             | 57             | 21,5           | 21,2       |
| DS-ER 20/10-S | 20                               | 10                               | S 400 (1700)         | 32 | 22             | 36             | 60             | 22,0           | 27,1       |
| DS-ER 20/12-S | 20                               | 12                               | S 400 (1700)         | 32 | 24             | 36             | 60             | 22,0           | 27,7       |
| DS-ER 20/16-S | 20                               | 16                               | S 400 (1700)         | 32 | 30             | 36             | 63             | 23,0           | 31,3       |
| DS-ER 25/16-S | 25                               | 16                               | S 400 (1700)         | 41 | 30             | 46             | 68             | 25,5           | 51,2       |
| DS-ER 25/20-S | 25                               | 20                               | S 400 (1700)         | 41 | 36             | 46             | 71             | 25,5           | 56,4       |
| DS-ER 30/20-S | 30                               | 20                               | S 400 (1700)         | 46 | 36             | 50             | 74             | 26,0           | 65,1       |
| DS-ER 30/25-S | 30                               | 25                               | S 400 (1700)         | 46 | 46             | 50             | 77             | 26,5           | 77,8       |
| DS-ER 38/30-S | 38                               | 30                               | S 400 (1700)         | 55 | 50             | 60             | 87             | 29,5           | 110,3      |

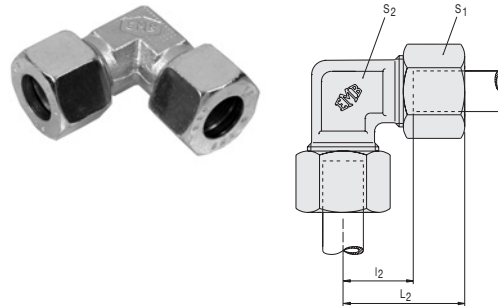
$L_1$  = przybliżona długość z dokręconą nakrętką

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ŁĄCZNIKI RUROWO-GWINTOWE F KOLANKA SYMETRYCZNE

ŚWIAT ZŁĄCZY RUROWYCH

### F KOLANKA SYMETRYCZNE



| opis      | Śr. zew. rury | Nr produktu seria | S <sub>1</sub> | S <sub>2</sub> * | L <sub>2</sub> | l <sub>2</sub> | kg % pc |
|-----------|---------------|-------------------|----------------|------------------|----------------|----------------|---------|
| F 4-LL    | 4             | LL 100 (400)      | 10             | 9                | 21             | 11,0           | 2,5     |
| F 6-LL    | 6             | LL 100 (400)      | 12             | 11               | 21             | 9,5            | 2,8     |
| F 8-LL    | 8             | LL 100 (400)      | 14             | 12               | 23             | 11,5           | 3,8     |
| DS-F 6-L  | 6             | L 500 (2200)      | 14             | 12               | 27             | 12,0           | 4,9     |
| DS-F 8-L  | 8             | L 500 (2200)      | 17             | 14               | 29             | 14,0           | 7,6     |
| DS-F 10 L | 10            | L 500 (2200)      | 19             | 14/ 17           | 30             | 15,0           | 9,6     |
| DS-F 12-L | 12            | L 400 (1700)      | 22             | 17               | 32             | 17,0           | 13,5    |
| DS-F 15-L | 15            | L 400 (1700)      | 27             | 19               | 36             | 21,0           | 15,8    |
| DS-F 18-L | 18            | L 400 (1700)      | 32             | 24               | 40             | 23,5           | 23,9    |
| DS-F 22-L | 22            | L 250 (1100)      | 36             | 27               | 44             | 27,5           | 31,7    |
| DS-F 28-L | 28            | L 250 (1100)      | 41             | 36               | 47             | 30,5           | 42,0    |
| DS-F 35-L | 35            | L 250 (1100)      | 50             | 41               | 56             | 34,5           | 75,9    |
| DS-F 42-L | 42            | L 250 (1100)      | 60             | 50               | 63             | 40,0           | 107,8   |
| DS-F 6-S  | 6             | S 800 (3400)      | 17             | 14               | 31             | 16,0           | 8,5     |
| DS-F 8-S  | 8             | S 800 (3400)      | 19             | 14/ 17           | 32             | 17,0           | 11,7    |
| DS-F 10-S | 10            | S 800 (3400)      | 22             | 17               | 34             | 17,5           | 16,1    |
| DS-F 12-S | 12            | S 630 (2700)      | 24             | 22               | 38             | 21,5           | 20,5    |
| DS-F 14-S | 14            | S 630 (2700)      | 27             | 19               | 40             | 22,0           | 20,7    |
| DS-F 16-S | 16            | S 630 (2700)      | 30             | 24               | 43             | 24,5           | 25,0    |
| DS-F 20-S | 20            | S 400 (1700)      | 36             | 27               | 48             | 26,5           | 40,7    |
| DS-F 25-S | 25            | S 400 (1700)      | 46             | 36               | 54             | 30,0           | 77,6    |
| DS-F 30-S | 30            | S 400 (1700)      | 50             | 41               | 62             | 35,5           | 97,4    |
| DS-F 38-S | 38            | S 400 (1700)      | 60             | 50               | 72             | 41,0           | 131,8   |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

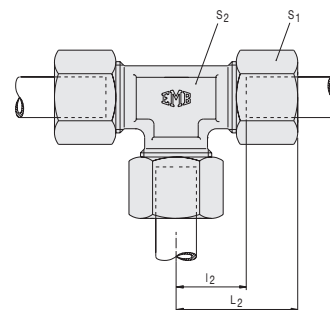
Śr. zew. 4 do 12 mm wykonana z materiału profilowanego

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

\* Zależy od rodzaju produkcji, rozmiar klucza w niektórych przypadkach może być inny

## ŁĄCZNIKI RUROWO-GWINTOWE G TRÓJNIKI SYMETRYCZNE

### G TRÓJNIKI SYMETRYCZNE



| opis      | Śr.<br>zew.<br>rury | Nr produktu<br>seria | S <sub>1</sub> | S <sub>2</sub> * | L <sub>2</sub> | l <sub>2</sub> | kg %<br>pc |
|-----------|---------------------|----------------------|----------------|------------------|----------------|----------------|------------|
| G 4-LL    | 4                   | LL 100 (400)         | 10             | 9                | 21             | 11,0           | 2,9        |
| G 6-LL    | 6                   | LL 100 (400)         | 12             | 12               | 21             | 9,5            | 3,8        |
| G 8-LL    | 8                   | LL 100 (400)         | 14             | 12/14            | 23             | 11,5           | 5,1        |
| DS-G 6-L  | 6                   | L 500 (2200)         | 14             | 12               | 27             | 12,0           | 7,1        |
| DS-G 8-L  | 8                   | L 500 (2200)         | 17             | 14               | 29             | 14,0           | 10,1       |
| DS-G 10-L | 10                  | L 500 (2200)         | 19             | 17               | 30             | 15,0           | 13,0       |
| DS-G 12-L | 12                  | L 400 (1700)         | 22             | 19               | 32             | 17,0           | 17,7       |
| DS-G 15-L | 15                  | L 400 (1700)         | 27             | 19               | 36             | 21,0           | 23,2       |
| DS-G 18-L | 18                  | L 400 (1700)         | 32             | 24               | 40             | 23,5           | 35,4       |
| DS-G 22-L | 22                  | L 250 (1100)         | 36             | 27               | 44             | 27,5           | 44,3       |
| DS-G 28-L | 28                  | L 250 (1100)         | 41             | 36               | 47             | 30,5           | 61,1       |
| DS-G 35-L | 35                  | L 250 (1100)         | 50             | 41               | 56             | 34,5           | 90,1       |
| DS-G 42-L | 42                  | L 250 (1100)         | 60             | 50               | 63             | 40,0           | 136,8      |
| DS-G 6-S  | 6                   | S 800 (3400)         | 17             | 14               | 31             | 16,0           | 12,0       |
| DS-G 8-S  | 8                   | S 800 (3400)         | 19             | 17               | 32             | 17,0           | 15,7       |
| DS-G 10-S | 10                  | S 800 (3400)         | 22             | 19               | 34             | 17,5           | 21,2       |
| DS-G 12-S | 12                  | S 630 (2700)         | 24             | 22/17            | 38             | 21,5           | 28,5       |
| DS-G 14-S | 14                  | S 630 (2700)         | 27             | 19               | 40             | 22,0           | 28,5       |
| DS-G 16-S | 16                  | S 630 (2700)         | 30             | 24               | 43             | 24,5           | 35,9       |
| DS-G 20-S | 20                  | S 400 (1700)         | 36             | 27               | 48             | 26,5           | 55,8       |
| DS-G 25-S | 25                  | S 400 (1700)         | 46             | 36               | 54             | 30,0           | 106,7      |
| DS-G 30-S | 30                  | S 400 (1700)         | 50             | 41               | 62             | 35,5           | 134,9      |
| DS-G 38-S | 38                  | S 400 (1700)         | 60             | 50               | 72             | 41,0           | 202,2      |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

Śr.zew. 4 do 12 mm wykonana z materiału profilowanego

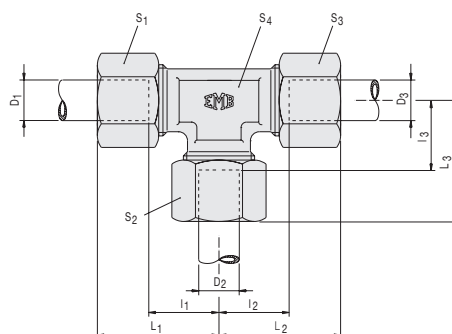
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

\* Zależy od rodzaju produkcji, rozmiar klucza w niektórych przypadkach może być inny

## ŁĄCZNIKI RUROWO-GWINTOWE GR TRÓJNIKI REDUKCYJNE

ŚWIAT ZŁĄCZY RUROWYCH

### GR TRÓJNIKI REDUKCYJNE



| opis             | Śr.<br>zew.<br>rury <sub>1</sub> | Śr.<br>zew.<br>rury <sub>2</sub> | Śr.<br>zew.<br>rury <sub>3</sub> | Nr produktu<br>seria | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | S <sub>4</sub> | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | kg /<br>100pcs |
|------------------|----------------------------------|----------------------------------|----------------------------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| GR 4/8/4-LL      | 4                                | 8                                | 4                                | LL 100 (400)         | 10             | 14             | 10             | 12             | 23             | 23             | 23             | 13,0           | 13,0           | 11,5           | 4,3            |
| GR 6/4/6-LL      | 6                                | 4                                | 6                                | LL 100 (400)         | 12             | 10             | 12             | 11             | 21             | 21             | 21             | 9,5            | 9,5            | 11,0           | 3,5            |
| DS-GR 6/8/6-L    | 6                                | 8                                | 6                                | L 500 (2200)         | 14             | 17             | 14             | 14             | 29             | 29             | 29             | 14,0           | 14,0           | 14,0           | 9,2            |
| DS-GR 8/6/8-L    | 8                                | 6                                | 8                                | L 500 (2200)         | 17             | 14             | 17             | 14             | 29             | 29             | 29             | 14,0           | 14,0           | 14,0           | 9,5            |
| DS-GR 6/10/6-L   | 6                                | 10                               | 6                                | L 500 (2200)         | 14             | 19             | 14             | 14             | 30             | 30             | 30             | 15,0           | 15,0           | 15,0           | 11,4           |
| DS-GR 8/10/8-L   | 8                                | 10                               | 8                                | L 500 (2200)         | 17             | 19             | 17             | 14             | 30             | 30             | 30             | 15,0           | 15,0           | 15,0           | 12,2           |
| DS-GR 10/6/10-L  | 10                               | 6                                | 10                               | L 500 (2200)         | 19             | 14             | 19             | 14             | 30             | 30             | 30             | 15,0           | 15,0           | 15,0           | 12,1           |
| DS-GR 10/8/10-L  | 10                               | 8                                | 10                               | L 500 (2200)         | 19             | 17             | 19             | 14             | 30             | 30             | 30             | 15,0           | 15,0           | 15,0           | 12,2           |
| DS-GR 10/10/6-L  | 10                               | 10                               | 6                                | L 500 (2200)         | 19             | 19             | 14             | 14             | 30             | 30             | 30             | 15,0           | 15,0           | 15,0           | 12,1           |
| DS-GR 8/12/8-L   | 8                                | 12                               | 8                                | L 400 (1700)         | 17             | 22             | 17             | 17             | 32             | 32             | 32             | 17,0           | 17,0           | 17,0           | 16,0           |
| DS-GR 12/6/12-L  | 12                               | 6                                | 12                               | L 400 (1700)         | 22             | 14             | 22             | 17             | 32             | 32             | 32             | 17,0           | 17,0           | 17,0           | 15,9           |
| DS-GR 12/8/8-L   | 12                               | 8                                | 8                                | L 400 (1700)         | 22             | 17             | 17             | 17             | 32             | 32             | 32             | 17,0           | 17,0           | 17,0           | 16,0           |
| DS-GR 12/8/12-L  | 12                               | 8                                | 12                               | L 400 (1700)         | 22             | 17             | 22             | 17             | 32             | 32             | 32             | 17,0           | 17,0           | 17,0           | 16,4           |
| DS-GR 12/10/10-L | 12                               | 10                               | 10                               | L 400 (1700)         | 22             | 19             | 19             | 17             | 32             | 32             | 32             | 17,0           | 17,0           | 17,0           | 16,2           |
| DS-GR 12/10/12-L | 12                               | 10                               | 12                               | L 400 (1700)         | 22             | 19             | 22             | 17             | 32             | 32             | 32             | 17,0           | 17,0           | 17,0           | 16,7           |
| DS-GR 12/12/10-L | 12                               | 12                               | 10                               | L 400 (1700)         | 22             | 22             | 19             | 17             | 32             | 32             | 32             | 17,0           | 17,0           | 17,0           | 16,7           |
| DS-GR 10/15/10-L | 10                               | 15                               | 10                               | L 400 (1700)         | 19             | 27             | 19             | 19             | 36             | 36             | 36             | 21,0           | 21,0           | 21,0           | 18,8           |
| DS-GR 12/15/12-L | 12                               | 15                               | 12                               | L 400 (1700)         | 22             | 27             | 22             | 19             | 36             | 36             | 36             | 21,0           | 21,0           | 21,0           | 19,2           |
| DS-GR 15/6/15-L  | 15                               | 6                                | 15                               | L 400 (1700)         | 27             | 14             | 27             | 19             | 36             | 36             | 36             | 21,0           | 21,0           | 21,0           | 19,4           |
| DS-GR 15/10/15-L | 15                               | 10                               | 15                               | L 400 (1700)         | 27             | 19             | 27             | 19             | 36             | 36             | 36             | 21,0           | 21,0           | 21,0           | 20,7           |
| DS-GR 15/12/12-L | 15                               | 12                               | 12                               | L 400 (1700)         | 27             | 22             | 22             | 19             | 36             | 36             | 36             | 21,0           | 21,0           | 21,0           | 18,8           |
| DS-GR 15/12/15-L | 15                               | 12                               | 15                               | L 400 (1700)         | 27             | 22             | 27             | 19             | 36             | 36             | 36             | 21,0           | 21,0           | 21,0           | 21,1           |
| DS-GR 15/15/12-L | 15                               | 15                               | 12                               | L 400 (1700)         | 27             | 27             | 22             | 19             | 36             | 36             | 36             | 21,0           | 21,0           | 21,0           | 20,8           |
| DS-GR 12/18/12-L | 12                               | 18                               | 12                               | L 400 (1700)         | 22             | 32             | 22             | 24             | 39             | 39             | 40             | 24,0           | 24,0           | 23,5           | 26,3           |
| DS-GR 18/10/10-L | 18                               | 10                               | 10                               | L 400 (1700)         | 32             | 19             | 19             | 24             | 40             | 39             | 39             | 23,5           | 24,0           | 24,0           | 25,9           |
| DS-GR 18/10/18-L | 18                               | 10                               | 18                               | L 400 (1700)         | 32             | 19             | 32             | 24             | 40             | 40             | 39             | 23,5           | 23,5           | 24,0           | 29,7           |
| DS-GR 18/12/18-L | 18                               | 12                               | 18                               | L 400 (1700)         | 32             | 22             | 32             | 24             | 40             | 40             | 39             | 23,5           | 23,5           | 24,0           | 29,7           |
| DS-GR 18/15/18-L | 18                               | 15                               | 18                               | L 400 (1700)         | 32             | 27             | 32             | 24             | 40             | 40             | 39             | 23,5           | 23,5           | 24,0           | 31,6           |
| DS-GR 18/18/10-L | 18                               | 18                               | 10                               | L 400 (1700)         | 32             | 32             | 19             | 24             | 40             | 39             | 40             | 23,5           | 24,0           | 23,5           | 29,6           |
| DS-GR 22/10/22-L | 22                               | 10                               | 22                               | L 250 (1100)         | 36             | 19             | 36             | 27             | 44             | 44             | 43             | 27,5           | 27,5           | 28,0           | 39,1           |
| DS-GR 22/12/22-L | 22                               | 12                               | 22                               | L 250 (1100)         | 36             | 22             | 36             | 27             | 44             | 44             | 43             | 27,5           | 27,5           | 28,0           | 39,7           |
| DS-GR 22/15/15-L | 22                               | 15                               | 15                               | L 250 (1100)         | 36             | 27             | 27             | 27             | 44             | 43             | 43             | 27,5           | 28,0           | 28,0           | 37,7           |
| DS-GR 22/15/22-L | 22                               | 15                               | 22                               | L 250 (1100)         | 36             | 27             | 36             | 27             | 44             | 44             | 43             | 27,5           | 27,5           | 28,0           | 41,0           |
| DS-GR 22/18/18-L | 22                               | 18                               | 18                               | L 250 (1100)         | 36             | 32             | 32             | 27             | 44             | 44             | 44             | 27,5           | 27,5           | 27,5           | 42,2           |
| DS-GR 22/18/22-L | 22                               | 18                               | 22                               | L 250 (1100)         | 36             | 32             | 36             | 27             | 44             | 44             | 44             | 27,5           | 27,5           | 27,5           | 43,5           |
| DS-GR 22/22/18-L | 22                               | 22                               | 18                               | L 250 (1100)         | 36             | 36             | 32             | 27             | 44             | 44             | 44             | 27,5           | 27,5           | 27,5           | 43,1           |
| DS-GR 28/10/28-L | 28                               | 10                               | 28                               | L 250 (1100)         | 41             | 19             | 41             | 36             | 47             | 47             | 46             | 30,5           | 30,5           | 31,0           | 55,7           |
| DS-GR 28/12/28-L | 28                               | 12                               | 28                               | L 250 (1100)         | 41             | 22             | 41             | 36             | 47             | 47             | 46             | 30,5           | 30,5           | 31,0           | 56,3           |
| DS-GR 28/15/28-L | 28                               | 15                               | 28                               | L 250 (1100)         | 41             | 27             | 41             | 36             | 47             | 47             | 46             | 30,5           | 30,5           | 31,0           | 59,7           |

## ŁĄCZNIKI RUROWO-GWINTOWE GR TRÓJNIKI REDUKCYJNE

| opis             | Śr.<br>zew.<br>rury <sub>1</sub> | Śr.<br>zew.<br>rury <sub>2</sub> | Śr.<br>zew.<br>rury <sub>3</sub> | Nr produktu<br>seria | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | S <sub>4</sub> | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | kg /<br>100pcs |
|------------------|----------------------------------|----------------------------------|----------------------------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| DS-GR 28/18/28-L | 28                               | 18                               | 28                               | L 250 (1100)         | 41             | 32             | 41             | 36             | 47             | 47             | 47             | 30,5           | 30,5           | 30,5           | 59,7           |
| DS-GR 28/22/22-L | 28                               | 22                               | 22                               | L 250 (1100)         | 41             | 36             | 36             | 36             | 47             | 47             | 47             | 30,5           | 30,5           | 30,5           | 60,2           |
| DS-GR 28/22/28-L | 28                               | 22                               | 28                               | L 250 (1100)         | 41             | 36             | 41             | 36             | 47             | 47             | 47             | 30,5           | 30,5           | 30,5           | 60,3           |
| DS-GR 10/6/10-S  | 10                               | 6                                | 10                               | S 800 (3400)         | 22             | 17             | 22             | 17             | 34             | 34             | 33             | 17,5           | 17,5           | 18,0           | 19,9           |
| DS-GR 12/8/8-S   | 12                               | 8                                | 8                                | S 630 (2700)         | 24             | 19             | 19             | 17             | 38             | 37             | 37             | 21,5           | 22,0           | 22,0           | 25,1           |
| DS-GR 12/8/12-S  | 12                               | 8                                | 12                               | S 630 (2700)         | 24             | 19             | 24             | 17             | 38             | 38             | 37             | 21,5           | 21,5           | 22,0           | 26,6           |
| DS-GR 12/10/12-S | 12                               | 10                               | 12                               | S 630 (2700)         | 24             | 22             | 24             | 17             | 38             | 38             | 38             | 21,5           | 21,5           | 21,5           | 27,5           |
| DS-GR 12/16/12-S | 12                               | 16                               | 12                               | S 630 (2700)         | 24             | 30             | 24             | 24             | 42             | 42             | 43             | 25,5           | 25,5           | 24,5           | 32,9           |
| DS-GR 16/6/16-S  | 16                               | 6                                | 16                               | S 630 (2700)         | 30             | 17             | 30             | 24             | 43             | 43             | 41             | 24,5           | 24,5           | 26,0           | 33,3           |
| DS-GR 16/8/16-S  | 16                               | 8                                | 16                               | S 630 (2700)         | 30             | 19             | 30             | 24             | 43             | 43             | 41             | 24,5           | 24,5           | 26,0           | 33,2           |
| DS-GR 16/10/16-S | 16                               | 10                               | 16                               | S 630 (2700)         | 30             | 22             | 30             | 24             | 43             | 43             | 42             | 24,5           | 24,5           | 25,5           | 34,8           |
| DS-GR 16/12/16-S | 16                               | 12                               | 16                               | S 630 (2700)         | 30             | 24             | 30             | 24             | 43             | 43             | 42             | 24,5           | 24,5           | 25,5           | 35,6           |
| DS-GR 16/20/16-S | 16                               | 20                               | 16                               | S 400 (1700)         | 30             | 36             | 30             | 27             | 47             | 47             | 48             | 28,5           | 28,5           | 26,5           | 50,5           |
| DS-GR 20/10/20-S | 20                               | 10                               | 20                               | S 400 (1700)         | 36             | 22             | 36             | 27             | 48             | 48             | 46             | 26,5           | 26,5           | 29,5           | 51,7           |
| DS-GR 20/12/20-S | 20                               | 12                               | 20                               | S 400 (1700)         | 36             | 24             | 36             | 27             | 48             | 48             | 46             | 26,5           | 26,5           | 29,5           | 52,4           |
| DS-GR 20/16/20-S | 20                               | 16                               | 20                               | S 400 (1700)         | 36             | 30             | 36             | 27             | 48             | 48             | 47             | 26,5           | 26,5           | 28,5           | 54,2           |
| DS-GR 20/25/20-S | 20                               | 25                               | 20                               | S 400 (1700)         | 36             | 46             | 36             | 36             | 53             | 53             | 54             | 31,5           | 31,5           | 30,0           | 89,1           |
| DS-GR 25/16/25-S | 25                               | 16                               | 25                               | S 400 (1700)         | 46             | 30             | 46             | 36             | 54             | 54             | 52             | 30,0           | 30,0           | 33,5           | 96,6           |
| DS-GR 25/20/25-S | 25                               | 20                               | 25                               | S 400 (1700)         | 46             | 36             | 46             | 36             | 54             | 54             | 53             | 30,0           | 30,0           | 31,5           | 99,8           |
| DS-GR 25/30/25-S | 25                               | 30                               | 25                               | S 400 (1700)         | 46             | 50             | 46             | 41             | 61             | 61             | 62             | 37,0           | 37,0           | 35,5           | 139,4          |

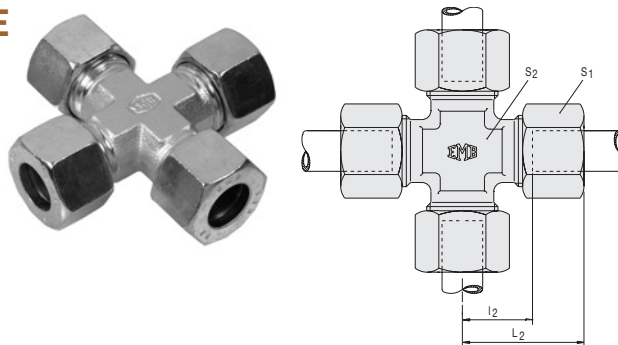
$L_1+L_2+L_3$  = przybliżona długość z dokręconą nakrętką

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne – Wybór właściwego złącza rurowego”.

## ŁĄCZNIKI RUROWO-GWINTOWE H CZWÓRNIKI SYMETRYCZNE

ŚWIAT ZŁĄCZY RUROWYCH

### H CZWÓRNIKI SYMETRYCZNE



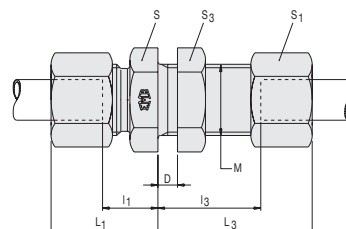
| opis      | Śr. zew. rury | Nr produktu seria | S <sub>1</sub> | S <sub>2</sub> | L <sub>2</sub> | l <sub>2</sub> | kg % pc |
|-----------|---------------|-------------------|----------------|----------------|----------------|----------------|---------|
| DS-H 6-L  | 6             | L 500 (2200)      | 14             | 12             | 27             | 12,0           | 7,7     |
| DS-H 8-L  | 8             | L 500 (2200)      | 17             | 12             | 29             | 14,0           | 10,9    |
| DS-H 10-L | 10            | L 500 (2200)      | 19             | 14             | 30             | 15,0           | 15,5    |
| DS-H 12-L | 12            | L 400 (1700)      | 22             | 17             | 32             | 17,0           | 19,2    |
| DS-H 15-L | 15            | L 400 (1700)      | 27             | 19             | 36             | 21,0           | 31,1    |
| DS-H 18-L | 18            | L 400 (1700)      | 32             | 24             | 40             | 23,5           | 48,3    |
| DS-H 22-L | 22            | L 250 (1100)      | 36             | 27             | 44             | 27,5           | 72,4    |
| DS-H 28-L | 28            | L 250 (1100)      | 41             | 36             | 47             | 30,5           | 101,2   |
| DS-H 35-L | 35            | L 250 (1100)      | 50             | 41             | 56             | 34,5           | 122,8   |
| DS-H 42-L | 42            | L 250 (1100)      | 60             | 50             | 63             | 40,0           | 175,6   |
| DS-H 6-S  | 6             | S 800 (3400)      | 17             | 12             | 31             | 16,0           | 12,3    |
| DS-H 8-S  | 8             | S 800 (3400)      | 19             | 14             | 32             | 17,0           | 14,8    |
| DS-H 10-S | 10            | S 800 (3400)      | 22             | 17             | 34             | 17,5           | 23,0    |
| DS-H 12-S | 12            | S 630 (2700)      | 24             | 17             | 38             | 21,5           | 28,2    |
| DS-H 14-S | 14            | S 630 (2700)      | 27             | 19             | 40             | 22,0           | 35,4    |
| DS-H 16-S | 16            | S 630 (2700)      | 30             | 24             | 43             | 24,5           | 45,1    |
| DS-H 20-S | 20            | S 400 (1700)      | 36             | 27             | 48             | 26,5           | 70,4    |
| DS-H 25-S | 25            | S 400 (1700)      | 46             | 36             | 54             | 30,0           | 125,7   |
| DS-H 30-S | 30            | S 400 (1700)      | 50             | 41             | 62             | 35,5           | 150,3   |
| DS-H 38-S | 38            | S 400 (1700)      | 60             | 50             | 72             | 41,0           | 205,1   |

$L_2$  = przybliżona długość z dokręconą nakrętką

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ŁĄCZNIKI RUROWO-GWINTOWE K ZŁĄCZA GRODZIOWE PROSTE

### K ZŁĄCZA GRODZIOWE PROSTE



| opis      | Śr. zew. rury | Nr produktu seria | S  | S <sub>1</sub> | S <sub>3</sub> | L <sub>1</sub> | l <sub>1</sub> | Dmaks | L <sub>3</sub> | l <sub>3</sub> | M        | kg % pc |
|-----------|---------------|-------------------|----|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------|---------|
| DS-K 6-L  | 6             | L 500 (2200)      | 17 | 14             | 17             | 22             | 7,0            | 16    | 42             | 27,0           | M 12x1,5 | 6,7     |
| DS-K 8-L  | 8             | L 500 (2200)      | 19 | 17             | 19             | 23             | 8,0            | 16    | 42             | 27,0           | M 14x1,5 | 8,4     |
| DS-K 10-L | 10            | L 500 (2200)      | 22 | 19             | 22             | 25             | 10,0           | 16    | 43             | 28,0           | M 16x1,5 | 11,0    |
| DS-K 12-L | 12            | L 400 (1700)      | 24 | 22             | 24             | 25             | 10,0           | 16    | 44             | 29,0           | M 18x1,5 | 13,3    |
| DS-K 15-L | 15            | L 400 (1700)      | 27 | 27             | 30             | 27             | 12,0           | 16    | 46             | 31,0           | M 22x1,5 | 22,8    |
| DS-K 18-L | 18            | L 400 (1700)      | 32 | 32             | 36             | 30             | 13,5           | 16    | 49             | 32,5           | M 26x1,5 | 33,2    |
| DS-K 22-L | 22            | L 250 (1100)      | 36 | 36             | 41             | 33             | 16,5           | 16    | 51             | 34,5           | M 30x2   | 41,5    |
| DS-K 28-L | 28            | L 250 (1100)      | 41 | 41             | 46             | 35             | 18,5           | 16    | 52             | 35,5           | M 36x2   | 52,5    |
| DS-K 35-L | 35            | L 250 (1100)      | 50 | 50             | 55             | 40             | 18,5           | 16    | 58             | 36,5           | M 45x2   | 80,0    |
| DS-K 42-L | 42            | L 250 (1100)      | 60 | 60             | 65             | 42             | 19,0           | 16    | 59             | 36,0           | M 52x2   | 119,3   |
| DS-K 6-S  | 6             | S 800 (3400)      | 19 | 17             | 19             | 27             | 12,0           | 16    | 44             | 29,0           | M 14x1,5 | 9,6     |
| DS-K 8-S  | 8             | S 800 (3400)      | 22 | 19             | 22             | 28             | 13,0           | 16    | 44             | 29,0           | M 16x1,5 | 12,4    |
| DS-K 10-S | 10            | S 800 (3400)      | 24 | 22             | 24             | 31             | 14,5           | 16    | 46             | 29,5           | M 18x1,5 | 18,1    |
| DS-K 12-S | 12            | S 630 (2700)      | 27 | 24             | 27             | 31             | 14,5           | 16    | 47             | 30,5           | M 20x1,5 | 21,0    |
| DS-K 14-S | 14            | S 630 (2700)      | 30 | 27             | 30             | 35             | 17,0           | 16    | 50             | 32,0           | M 22x1,5 | 29,0    |
| DS-K 16-S | 16            | S 630 (2700)      | 32 | 30             | 32             | 35             | 16,5           | 16    | 50             | 31,5           | M 24x1,5 | 31,0    |
| DS-K 20-S | 20            | S 400 (1700)      | 41 | 36             | 41             | 39             | 17,5           | 16    | 55             | 33,5           | M 30x2   | 54,5    |
| DS-K 25-S | 25            | S 400 (1700)      | 46 | 46             | 46             | 44             | 20,0           | 16    | 59             | 35,0           | M 36x2   | 89,0    |
| DS-K 30-S | 30            | S 400 (1700)      | 50 | 50             | 50             | 48             | 21,5           | 16    | 64             | 37,5           | M 42x2   | 107,7   |
| DS-K 38-S | 38            | S 400 (1700)      | 65 | 60             | 65             | 53             | 22,0           | 16    | 68             | 37,0           | M 52x2   | 173,0   |

$L_1 + L_3$  = przybliżona długość z dokręconą nakrętką

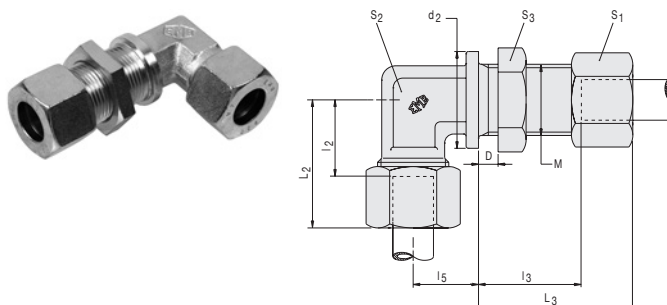
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.



## ŁĄCZNIKI RUROWO-GWINTOWE L ZŁĄCZA GRODZIOWE KOLANKOWE

ŚWIAT ZŁĄCZY RUROWYCH

### L ZŁĄCZA GRODZIOWE KOLANKOWE



| opis      | Śr. zew. rury | Nr produktu seria | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | L <sub>2</sub> | l <sub>2</sub> | l <sub>5</sub> | Dmaks | L <sub>3</sub> | l <sub>3</sub> | d <sub>2</sub> | M        | kg / 100pcs |
|-----------|---------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------|----------|-------------|
| DS-L 6-L  | 6             | L 500 (2200)      | 14             | 12             | 17             | 27             | 12,0           | 14             | 16    | 42             | 27,0           | 17             | M 12x1,5 | 7,5         |
| DS-L 8-L  | 8             | L 500 (2200)      | 17             | 12             | 19             | 29             | 14,0           | 17             | 16    | 42             | 27,0           | 19             | M 14x1,5 | 9,9         |
| DS-L 10-L | 10            | L 500 (2200)      | 19             | 14             | 22             | 30             | 15,0           | 18             | 16    | 43             | 28,0           | 22             | M 16x1,5 | 12,0        |
| DS-L 12-L | 12            | L 400 (1700)      | 22             | 17             | 24             | 32             | 17,0           | 20             | 16    | 44             | 29,0           | 24             | M 18x1,5 | 15,0        |
| DS-L 15-L | 15            | L 400 (1700)      | 27             | 19             | 30             | 36             | 21,0           | 23             | 16    | 46             | 31,0           | 27             | M 22x1,5 | 25,0        |
| DS-L 18-L | 18            | L 400 (1700)      | 32             | 24             | 36             | 40             | 23,5           | 24             | 16    | 49             | 32,5           | 32             | M 26x1,5 | 35,5        |
| DS-L 22-L | 22            | L 250 (1100)      | 36             | 27             | 41             | 44             | 27,5           | 30             | 16    | 51             | 34,5           | 36             | M 30x2   | 46,5        |
| DS-L 28-L | 28            | L 250 (1100)      | 41             | 36             | 46             | 47             | 30,5           | 34             | 16    | 52             | 35,5           | 42             | M 36x2   | 64,0        |
| DS-L 35-L | 35            | L 250 (1100)      | 50             | 41             | 55             | 56             | 34,5           | 39             | 16    | 58             | 36,5           | 50             | M 45x2   | 99,4        |
| DS-L 42-L | 42            | L 250 (1100)      | 60             | 50             | 65             | 63             | 40,0           | 43             | 16    | 59             | 36,0           | 60             | M 52x2   | 149,0       |
| DS-L 6-S  | 6             | S 800 (3400)      | 17             | 12             | 19             | 31             | 16,0           | 17             | 16    | 44             | 29,0           | 19             | M 14x1,5 | 10,5        |
| DS-L 8-S  | 8             | S 800 (3400)      | 19             | 14             | 22             | 32             | 17,0           | 18             | 16    | 44             | 29,0           | 22             | M 16x1,5 | 14,0        |
| DS-L 10-S | 10            | S 800 (3400)      | 22             | 17             | 24             | 34             | 17,5           | 20             | 16    | 46             | 29,5           | 24             | M 18x1,5 | 19,0        |
| DS-L 12-S | 12            | S 630 (2700)      | 24             | 17             | 27             | 38             | 21,5           | 21             | 16    | 47             | 30,5           | 27             | M 20x1,5 | 22,5        |
| DS-L 14-S | 14            | S 630 (2700)      | 27             | 19             | 30             | 40             | 22,0           | 23             | 16    | 50             | 32,0           | 27             | M 22x1,5 | 30,0        |
| DS-L 16-S | 16            | S 630 (2700)      | 30             | 24             | 32             | 43             | 24,5           | 24             | 16    | 50             | 31,5           | 30             | M 24x1,5 | 36,5        |
| DS-L 20-S | 20            | S 400 (1700)      | 36             | 27             | 41             | 48             | 26,5           | 30             | 16    | 55             | 33,5           | 36             | M 30x2   | 58,0        |
| DS-L 25-S | 25            | S 400 (1700)      | 46             | 36             | 46             | 54             | 30,0           | 34             | 16    | 59             | 35,0           | 42             | M 36x2   | 100,0       |
| DS-L 30-S | 30            | S 400 (1700)      | 50             | 41             | 50             | 62             | 35,5           | 39             | 16    | 64             | 37,5           | 50             | M 42x2   | 130,0       |
| DS-L 38-S | 38            | S 400 (1700)      | 60             | 50             | 65             | 72             | 41,0           | 43             | 16    | 68             | 37,0           | 60             | M 52x2   | 197,0       |

$L_2+L_3$  = przybliżona długość z dokręconą nakrętką

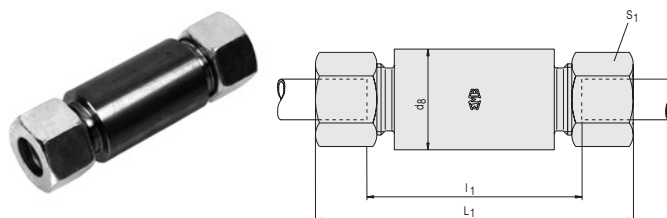
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ŁĄCZNIKI RUROWO-GWINTOWE N ZŁĄCZA GRODZIOWE SPAWALNE

### N ZŁĄCZA GRODZIOWE SPAWALNE

Materiał gniazda: stal, zgrzewalny.

Powierzchnia gniazda: jasna, olejowana.



| opis      | Śr.zew.<br>rury | Nr produktu<br>seria | S <sub>1</sub> | L <sub>1</sub> | l <sub>1</sub> | d <sub>8</sub> | kg %<br>pc |
|-----------|-----------------|----------------------|----------------|----------------|----------------|----------------|------------|
| DS-N 6-L  | 6               | L 500 (2200)         | 14             | 85             | 56             | 18             | 13,1       |
| DS-N 8-L  | 8               | L 500 (2200)         | 17             | 85             | 56             | 20             | 16,2       |
| DS-N 10-L | 10              | L 500 (2200)         | 19             | 87             | 58             | 22             | 19,5       |
| DS-N 12-L | 12              | L 400 (1700)         | 22             | 87             | 58             | 25             | 24,1       |
| DS-N 15-L | 15              | L 400 (1700)         | 27             | 100            | 70             | 28             | 35,3       |
| DS-N 18-L | 18              | L 400 (1700)         | 32             | 101            | 69             | 32             | 46,9       |
| DS-N 22-L | 22              | L 250 (1100)         | 36             | 105            | 73             | 36             | 58,2       |
| DS-N 28-L | 28              | L 250 (1100)         | 41             | 106            | 73             | 40             | 66,0       |
| DS-N 35-L | 35              | L 250 (1100)         | 50             | 114            | 71             | 50             | 102,9      |
| DS-N 42-L | 42              | L 250 (1100)         | 60             | 115            | 70             | 60             | 148,8      |
| DS-N 6-S  | 6               | S 800 (3400)         | 17             | 89             | 60             | 20             | 16,9       |
| DS-N 8-S  | 8               | S 800 (3400)         | 19             | 89             | 60             | 22             | 20,4       |
| DS-N 10-S | 10              | S 800 (3400)         | 22             | 91             | 59             | 25             | 27,0       |
| DS-N 12-S | 12              | S 630 (2700)         | 24             | 91             | 59             | 28             | 33,1       |
| DS-N 14-S | 14              | S 630 (2700)         | 27             | 107            | 72             | 30             | 44,7       |
| DS-N 16-S | 16              | S 630 (2700)         | 30             | 107            | 71             | 35             | 57,8       |
| DS-N 20-S | 20              | S 400 (1700)         | 36             | 114            | 71             | 38             | 73,2       |
| DS-N 25-S | 25              | S 400 (1700)         | 46             | 120            | 72             | 45             | 114,6      |
| DS-N 30-S | 30              | S 400 (1700)         | 50             | 126            | 73             | 50             | 134,4      |
| DS-N 38-S | 38              | S 400 (1700)         | 60             | 133            | 72             | 60             | 191,3      |

L<sub>1</sub> = przybliżona długość z dokręconą nakrętką

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

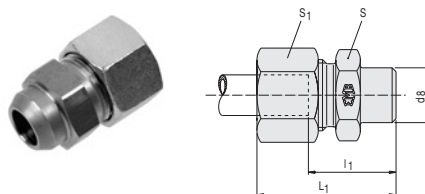
## ŁĄCZNIKI RUROWO-GWINTOWE V PRZEŁĄCZA SPAWALNE

ŚWIAT ZŁĄCZY RUROWYCH

### V PRZEŁĄCZA SPAWALNE

Materiał gniazda: stal, zgrzewalny.

Powierzchnia gniazda: jasna, olejowana.



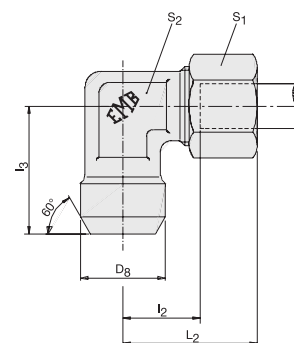
| opis      | Śr.<br>zew.<br>rury | Nr produktu<br>seria | S  | S <sub>1</sub> | L <sub>1</sub> | l <sub>1</sub> | d <sub>8</sub> | kg %<br>pc |
|-----------|---------------------|----------------------|----|----------------|----------------|----------------|----------------|------------|
| DS-V 6-L  | 6                   | L 500 (2200)         | 12 | 14             | 29             | 14,0           | 10             | 2,5        |
| DS-V 8-L  | 8                   | L 500 (2200)         | 14 | 17             | 31             | 16,0           | 12             | 3,6        |
| DS-V 10-L | 10                  | L 500 (2200)         | 17 | 19             | 33             | 18,0           | 14             | 4,7        |
| DS-V 12-L | 12                  | L 400 (1700)         | 19 | 22             | 33             | 18,0           | 16             | 6,3        |
| DS-V 15-L | 15                  | L 400 (1700)         | 22 | 27             | 37             | 22,0           | 19             | 8,4        |
| DS-V 18-L | 18                  | L 400 (1700)         | 27 | 32             | 40             | 23,5           | 22             | 13,9       |
| DS-V 22-L | 22                  | L 250 (1100)         | 32 | 36             | 45             | 28,5           | 27             | 18,1       |
| DS-V 28-L | 28                  | L 250 (1100)         | 41 | 41             | 47             | 30,5           | 32             | 30,2       |
| DS-V 35-L | 35                  | L 250 (1100)         | 46 | 50             | 54             | 32,5           | 40             | 37,7       |
| DS-V 42-L | 42                  | L 250 (1100)         | 55 | 60             | 58             | 35,0           | 46             | 64,1       |
| DS-V 6-S  | 6                   | S 800 (3400)         | 14 | 17             | 34             | 19,0           | 11             | 3,2        |
| DS-V 8-S  | 8                   | S 800 (3400)         | 17 | 19             | 36             | 21,0           | 13             | 4,9        |
| DS-V 10-S | 10                  | S 800 (3400)         | 19 | 22             | 39             | 22,5           | 15             | 7,2        |
| DS-V 12-S | 12                  | S 630 (2700)         | 22 | 24             | 41             | 24,5           | 17             | 8,3        |
| DS-V 14-S | 14                  | S 630 (2700)         | 24 | 27             | 45             | 27,0           | 19             | 10,8       |
| DS-V 16-S | 16                  | S 630 (2700)         | 27 | 30             | 45             | 26,5           | 21             | 14,4       |
| DS-V 20-S | 20                  | S 400 (1700)         | 32 | 36             | 51             | 29,5           | 26             | 21,8       |
| DS-V 25-S | 25                  | S 400 (1700)         | 41 | 46             | 56             | 32,0           | 31             | 37,7       |
| DS-V 30-S | 30                  | S 400 (1700)         | 46 | 50             | 62             | 35,5           | 36             | 44,9       |
| DS-V 38-S | 38                  | S 400 (1700)         | 55 | 60             | 69             | 38,0           | 44             | 68,4       |

L<sub>1</sub> = przybliżona długość z dokręconą nakrętką

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ŁĄCZNIKI RUROWO-GWINTOWE BŚ KOLANKA SPAWALNE

### BS KOLANKA SPAWALNE



| opis       | Śr.<br>zew.<br>rury | Nr produktu<br>seria | S <sub>1</sub> | S <sub>2</sub> | L <sub>2</sub> | l <sub>2</sub> | l <sub>3</sub> | d <sub>8</sub> | kg %<br>pc |
|------------|---------------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|------------|
| DS-BS 6-L  | 6                   | L 500                | 14             | 12             | 27             | 12,0           | 19             | 10             | 3,0        |
| DS-BS 8-L  | 8                   | L 500                | 17             | 12             | 29             | 14,0           | 23             | 12             | 3,6        |
| DS-BS 10-L | 10                  | L 500                | 19             | 14             | 30             | 15,0           | 24             | 14             | 5,2        |
| DS-BS 12-L | 12                  | L 500                | 22             | 17             | 32             | 17,0           | 25             | 16             | 7,3        |
| DS-BS 15-L | 15                  | L 400                | 27             | 19             | 36             | 21,0           | 30             | 19             | 12,0       |
| DS-BS 18-L | 18                  | L 400                | 32             | 24             | 40             | 23,5           | 33             | 22             | 16,6       |
| DS-BS 22-L | 22                  | L 250                | 36             | 27             | 44             | 27,5           | 37             | 27             | 24,6       |
| DS-BS 28-L | 28                  | L 250                | 41             | 36             | 47             | 30,5           | 42             | 32             | 34,7       |
| DS-BS 35-L | 35                  | L 250                | 50             | 41             | 56             | 34,5           | 49             | 40             | 61,2       |
| DS-BS 42-L | 42                  | L 250                | 60             | 50             | 63             | 40,0           | 57             | 46             | 84,6       |
| DS-BS 6-S  | 6                   | S 800                | 17             | 12             | 31             | 16,0           | 23             | 11             | 5,2        |
| DS-BS 8-S  | 8                   | S 800                | 19             | 14             | 32             | 17,0           | 24             | 13             | 6,4        |
| DS-BS 10-S | 10                  | S 800                | 22             | 17             | 34             | 17,5           | 25             | 15             | 9,7        |
| DS-BS 12-S | 12                  | S 630                | 24             | 17             | 38             | 21,5           | 29             | 17             | 10,8       |
| DS-BS 14-S | 14                  | S 630                | 27             | 19             | 40             | 22,0           | 30             | 19             | 15,3       |
| DS-BS 16-S | 16                  | S 630                | 30             | 24             | 43             | 24,5           | 33             | 21             | 18,9       |
| DS-BS 20-S | 20                  | S 400                | 36             | 27             | 48             | 26,5           | 37             | 26             | 30,3       |
| DS-BS 25-S | 25                  | S 400                | 46             | 36             | 54             | 30,0           | 42             | 31             | 58,0       |
| DS-BS 30-S | 30                  | S 400                | 50             | 41             | 62             | 35,5           | 49             | 36             | 74,4       |
| DS-BS 38-S | 38                  | S 400                | 60             | 50             | 72             | 41,0           | 57             | 44             | 98,9       |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne – Wybór właściwego złącza rurowego”.

# ŚWIAT ZŁĄCZY RUROWYCH

ZINTEGROWANE ROZWIĄZANIA FLUID POWER



# ZŁĄCZA





# ZŁĄCZA ZŁĄCZE BANJO ZŁĄCZE BANJO SBD

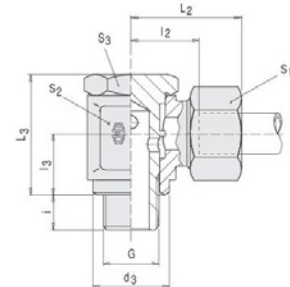
ŚWIAT ZŁĄCZY RUROWYCH

## ZŁĄCZE BANJO SBD BSP

BSP gwint walc.

Korpusy z odkuwek z odwróconym grzbietem uszczelnienia.

Śr. zew. rur L 18, L 22, S 16 i S 20 z podkładką uszczelniającą.



| opis         | Śr. zew. rury | Seria PB | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | L <sub>2</sub> | l <sub>2</sub> | l <sub>3</sub> | L <sub>3</sub> | d <sub>3</sub> | i  | G        | MA* Nm | kg / 100pcs |
|--------------|---------------|----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----------|--------|-------------|
| SBD 4-RLL    | 4             | LL 100   | 10             | 14             | 14             | 21             | 11,5           | 10,0           | 21,0           | 14,5           | 6  | G 1/8" A | 20     | 3,0         |
| SBD 6-RLL    | 6             | LL 100   | 12             | 14             | 14             | 22             | 10,0           | 10,0           | 21,0           | 14,5           | 6  | G 1/8" A | 20     | 3,3         |
| SBD 8-RLL    | 8             | LL 100   | 14             | 14             | 14             | 23             | 12,0           | 10,0           | 21,0           | 14,5           | 6  | G 1/8" A | 20     | 3,5         |
| DS-SBD 6-RL  | 6             | L 250    | 14             | 14             | 14             | 25             | 10,5           | 10,0           | 21,0           | 14,5           | 6  | G 1/8" A | 20     | 4,0         |
| DS-SBD 8-RL  | 8             | L 250    | 17             | 19             | 19             | 28             | 13,0           | 13,0           | 27,0           | 18,5           | 9  | G 1/4" A | 45     | 7,7         |
| DS-SBD 10-RL | 10            | L 250    | 19             | 19             | 19             | 29             | 14,0           | 13,0           | 27,0           | 18,5           | 9  | G 1/4" A | 45     | 8,5         |
| DS-SBD 12-RL | 12            | L 250    | 22             | 22             | 22             | 30             | 15,5           | 15,0           | 32,0           | 22,5           | 9  | G 3/8" A | 70     | 14,2        |
| DS-SBD 15-RL | 15            | L 250    | 27             | 27             | 27             | 34             | 19,0           | 18,0           | 37,5           | 26,5           | 11 | G 1/2" A | 100    | 19,5        |
| DS-SBD 18-RL | 18            | L 160    | 32             | 30             | 27             | 37             | 20,5           | 21,5           | 44,0           | 26,0           | 11 | G 1/2" A | 100    | 20,5        |
| DS-SBD 22-RL | 22            | L 160    | 36             | 36             | 32             | 42             | 25,5           | 24,0           | 49,0           | 32,0           | 13 | G 3/4" A | 140    | 38,3        |
| DS-SBD 6-RS  | 6             | S 250    | 17             | 19             | 19             | 30             | 15,0           | 13,0           | 27,0           | 18,5           | 9  | G 1/4" A | 45     | 8,0         |
| DS-SBD 8-RS  | 8             | S 250    | 19             | 19             | 19             | 30             | 15,0           | 13,0           | 27,0           | 18,5           | 9  | G 1/4" A | 45     | 9,5         |
| DS-SBD 10-RS | 10            | S 250    | 22             | 22             | 22             | 32             | 16,0           | 15,0           | 32,0           | 22,5           | 9  | G 3/8" A | 70     | 12,0        |
| DS-SBD 12-RS | 12            | S 250    | 24             | 24             | 24             | 33             | 17,0           | 18,0           | 37,0           | 22,5           | 9  | G 3/8" A | 70     | 14,5        |
| DS-SBD 14-RS | 14            | S 250    | 27             | 27             | 27             | 38             | 20,0           | 18,0           | 37,0           | 26,5           | 11 | G 1/2" A | 100    | 21,5        |
| DS-SBD 16-RS | 16            | S 160    | 30             | 30             | 27             | 40             | 21,5           | 21,5           | 44,0           | 26,0           | 11 | G 1/2" A | 100    | 27,7        |
| DS-SBD 20-RS | 20            | S 160    | 36             | 36             | 32             | 46             | 24,5           | 24,0           | 49,0           | 32,0           | 13 | G 3/4" A | 140    | 42,5        |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwstawnym jest stal

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

# ZŁĄCZA

## ZŁĄCZE BANJO

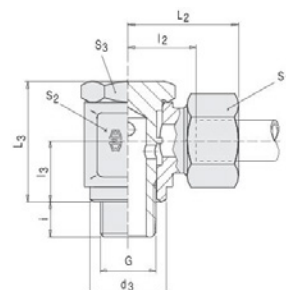
### ZŁĄCZE BANJO SBD

## ZŁĄCZE BANJO SBD METRYCZNE

Walcowy metryczny.

Korpusy z odkuwek z odwróconym grzbietem uszczelnienia.

Śr. zew. rur L 18, L 22, S 16 i S 20 z podkładką uszczelniającą.



| opis         | Śr. zew. rury | Seria PB | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | L <sub>2</sub> | l <sub>2</sub> | l <sub>3</sub> | L <sub>3</sub> | d <sub>3</sub> | i  | G        | MA* Nm | kg / 100pcs |
|--------------|---------------|----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----------|--------|-------------|
| SBD 4-MLL    | 4             | LL 100   | 10             | 12             | 12             | 20             | 10,5           | 8,0            | 17,0           | 12,5           | 6  | M 8x1    | 10     | 2,8         |
| SBD 6-MLL    | 6             | LL 100   | 12             | 14             | 14             | 22             | 10,0           | 10,0           | 21,0           | 14,5           | 6  | M 10x1   | 25     | 3,3         |
| SBD 8-MLL    | 8             | LL 100   | 14             | 14             | 14             | 23             | 12,0           | 10,0           | 21,0           | 14,5           | 6  | M 10x1   | 25     | 3,5         |
| DS-SBD 6-ML  | 6             | L 250    | 14             | 14             | 14             | 25             | 10,5           | 10,0           | 21,0           | 14,5           | 6  | M 10x1   | 25     | 3,8         |
| DS-SBD 8-ML  | 8             | L 250    | 17             | 17             | 17             | 27             | 12,0           | 12,0           | 25,0           | 17,5           | 9  | M 12x1,5 | 40     | 7,0         |
| DS-SBD 10-ML | 10            | L 250    | 19             | 19             | 19             | 29             | 14,0           | 13,0           | 27,0           | 19,5           | 9  | M 14x1,5 | 55     | 8,0         |
| DS-SBD 12-ML | 12            | L 250    | 22             | 22             | 22             | 30             | 15,5           | 15,0           | 32,0           | 21,5           | 9  | M 16x1,5 | 65     | 11,2        |
| DS-SBD 15-ML | 15            | L 250    | 27             | 24             | 24             | 33             | 17,5           | 18,0           | 37,5           | 23,5           | 9  | M 18x1,5 | 90     | 16,5        |
| DS-SBD 18-ML | 18            | L 160    | 32             | 30             | 27             | 37             | 20,5           | 21,5           | 44,0           | 27,0           | 11 | M 22x1,5 | 130    | 26,5        |
| DS-SBD 22-ML | 22            | L 160    | 36             | 36             | 32             | 42             | 25,5           | 24,0           | 49,0           | 31,0           | 13 | M 26x1,5 | 140    | 35,0        |
| DS-SBD 6-MS  | 6             | S 250    | 17             | 17             | 17             | 29             | 14,0           | 12,0           | 25,0           | 17,5           | 9  | M 12x1,5 | 40     | 6,7         |
| DS-SBD 8-MS  | 8             | S 250    | 19             | 19             | 19             | 30             | 15,0           | 13,0           | 27,0           | 19,5           | 9  | M 14x1,5 | 55     | 9,3         |
| DS-SBD 10-MS | 10            | S 250    | 22             | 22             | 22             | 32             | 16,0           | 15,0           | 32,0           | 21,5           | 9  | M 16x1,5 | 65     | 13,0        |
| DS-SBD 12-MS | 12            | S 250    | 24             | 24             | 24             | 33             | 17,0           | 18,0           | 37,0           | 23,5           | 9  | M 18x1,5 | 90     | 16,8        |
| DS-SBD 14-MS | 14            | S 250    | 27             | 27             | 27             | 38             | 20,0           | 18,0           | 37,0           | 25,5           | 11 | M 20x1,5 | 120    | 21,5        |
| DS-SBD 16-MS | 16            | S 160    | 30             | 30             | 27             | 40             | 21,5           | 21,5           | 44,0           | 27,0           | 11 | M 22x1,5 | 130    | 27,5        |
| DS-SBD 20-MS | 20            | S 160    | 36             | 36             | 32             | 46             | 24,5           | 24,0           | 49,0           | 32,0           | 13 | M 27x2   | 150    | 42,5        |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwstawnym jest stal

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.



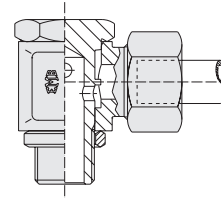
# ZŁĄCZA ZŁĄCZE BANJO ZŁĄCZE BANJO SBD

ŚWIAT ZŁĄCZY RUROWYCH

## ZŁĄCZE BANJO SBD KOMPONENTY BSP

BSP gwint walc.

Kody zamówienia pojedyncze części.



| opis         | Śr.zew.<br>rury | seria | Obudowa      | Śruba drażona   | Podkładka uszczelniająca    |
|--------------|-----------------|-------|--------------|-----------------|-----------------------------|
| SBD 4-RLL    | 4               | LL    | XSBD 4-RLL/K | SHD R 1/8"      | odwrócony grzbiet uszczelki |
| SBD 6-RLL    | 6               | LL    | XSBD 6-RLL/K | SHD R 1/8"      | odwrócony grzbiet uszczelki |
| SBD 8-RLL    | 8               | LL    | XSBD 8-RLL/K | SHD R 1/8"      | odwrócony grzbiet uszczelki |
| DS-SBD 6-RL  | 6               | L     | XSBD 6-RL/K  | SHD R 1/8"      | odwrócony grzbiet uszczelki |
| DS-SBD 8-RL  | 8               | L     | XSBD 8-RL/K  | SHD R 1/4"      | odwrócony grzbiet uszczelki |
| DS-SBD 10-RL | 10              | L     | XSBD 10-RL/K | SHD R 1/4"      | odwrócony grzbiet uszczelki |
| DS-SBD 12-RL | 12              | L     | XSBD 12-RL/K | SHD R 3/8"      | odwrócony grzbiet uszczelki |
| DS-SBD 15-RL | 15              | L     | XSBD 15-RL/K | SHD R 1/2"      | odwrócony grzbiet uszczelki |
| DS-SBD 18-RL | 18              | L     | XSBD 18-RL/K | SHD R 1/2" / 55 | DKAD R 1/2"                 |
| DS-SBD 22-RL | 22              | L     | XSBD 22-RL/K | SHD R 3/4"      | DKAD R 3/4"                 |
| DS-SBD 6-RS  | 6               | S     | XSBD 6-RS/K  | SHD R 1/4"      | odwrócony grzbiet uszczelki |
| DS-SBD 8-RS  | 8               | S     | XSBD 8-RS/K  | SHD R 1/4"      | odwrócony grzbiet uszczelki |
| DS-SBD 10-RS | 10              | S     | XSBD 10-RS/K | SHD R 3/8"      | odwrócony grzbiet uszczelki |
| DS-SBD 12-RS | 12              | S     | XSBD 12-RS/K | SHD R 3/8" 24   | odwrócony grzbiet uszczelki |
| DS-SBD 14-RS | 14              | S     | XSBD 14-RS/K | SHD R 1/2"      | odwrócony grzbiet uszczelki |
| DS-SBD 16-RS | 16              | S     | XSBD 16-RS/K | SHD R 1/2" 55   | DKAD R 1/2"                 |
| DS-SBD 20-RS | 20              | S     | XSBD 20-RS/K | SHD R 3/4"      | DKAD R 3/4"                 |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

# ZŁĄCZA

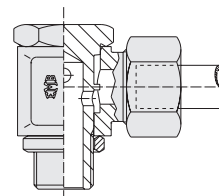
## ZŁĄCZE BANJO

### ZŁĄCZE BANJO SBD

## ZŁĄCZE BANJO SBD KOMPONENTY METRYCZNE

Walcowy metryczny.

Kody zamówienia pojedyncze części.



| opis         | Śr.zew.<br>rury | seria | Obudowa      | Śruba drażona | Podkładka uszczelniająca    |
|--------------|-----------------|-------|--------------|---------------|-----------------------------|
| SBD 4-MLL    | 4               | LL    | XSBD 4-MLL/K | SHD M 8x1     | odwrócony grzbiet uszczelki |
| SBD 6-MLL    | 6               | LL    | XSBD 6-MLL/K | SHD M 10x1    | odwrócony grzbiet uszczelki |
| SBD 8-MLL    | 8               | LL    | XSBD 8-MLL/K | SHD M 10x1    | odwrócony grzbiet uszczelki |
| DS-SBD 6-ML  | 6               | L     | XSBD 6-ML/K  | SHD M 10x1    | odwrócony grzbiet uszczelki |
| DS-SBD 8-ML  | 8               | L     | XSBD 8-ML/K  | SHD M 12x1,5  | odwrócony grzbiet uszczelki |
| DS-SBD 10-ML | 10              | L     | XSBD 10-ML/K | SHD M 14x1,5  | odwrócony grzbiet uszczelki |
| DS-SBD 12-ML | 12              | L     | XSBD 12-ML/K | SHD M 16x1,5  | odwrócony grzbiet uszczelki |
| DS-SBD 15-ML | 15              | L     | XSBD 15-ML/K | SHD M 18x1,5  | odwrócony grzbiet uszczelki |
| DS-SBD 18-ML | 18              | L     | XSBD 18-ML/K | SHD M 22x1,5  | DKAD M 22                   |
| DS-SBD 22-ML | 22              | L     | XSBD 22-ML/K | SHD M 26x1,5  | DKAD M 26                   |
| DS-SBD 6-MS  | 6               | S     | XSBD 6-MS/K  | SHD M 12x1,5  | odwrócony grzbiet uszczelki |
| DS-SBD 8-MS  | 8               | S     | XSBD 8-MS/K  | SHD M 14x1,5  | odwrócony grzbiet uszczelki |
| DS-SBD 10-MS | 10              | S     | XSBD 10-MS/K | SHD M 16x1,5  | odwrócony grzbiet uszczelki |
| DS-SBD 12-MS | 12              | S     | XSBD 12-MS/K | SHD M 18x1,5  | odwrócony grzbiet uszczelki |
| DS-SBD 14-MS | 14              | S     | XSBD 14-MS/K | SHD M 20x1,5  | odwrócony grzbiet uszczelki |
| DS-SBD 16-MS | 16              | S     | XSBD 16-MS/K | SHD M 22x1,5  | DKAD M 22                   |
| DS-SBD 20-MS | 20              | S     | XSBD 20-MS/K | SHD M 27x2    | DKAD M 27                   |

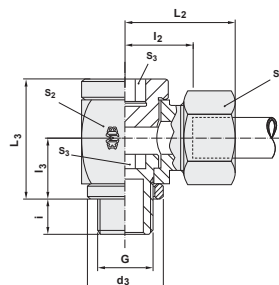
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

# ZŁĄCZA ZŁĄCZE BANJO ZŁĄCZE BANJO SB BEZDŁAWIKOWE

ŚWIAT ZŁĄCZY RUROWYCH

## ZŁĄCZE BANJO SB BEZDŁAWIKOWE BSP

BSP gwint walc.



| opis        | Śr. zew. rury | Seria PB | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | L <sub>2</sub> | l <sub>2</sub> | l <sub>3</sub> | L <sub>3</sub> | d <sub>3</sub> | i  | G          | kg / 100pcs |
|-------------|---------------|----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|------------|-------------|
| DS-SB 6-RL  | 6             | L 250    | 14             | 18             | 6              | 27             | 12,5           | 12,0           | 24             | 14             | 8  | G 1/8" A   | 5,9         |
| DS-SB 8-RL  | 8             | L 250    | 17             | 22             | 8              | 29             | 14,5           | 16,0           | 30             | 18             | 12 | G 1/4" A   | 10,5        |
| DS-SB 10-RL | 10            | L 250    | 19             | 22             | 8              | 30             | 15,5           | 16,0           | 30             | 18             | 12 | G 1/4" A   | 11,3        |
| DS-SB 12-RL | 12            | L 250    | 22             | 27             | 10             | 33             | 18,0           | 18,0           | 37             | 22             | 12 | G 3/8" A   | 18,0        |
| DS-SB 15-RL | 15            | L 250    | 27             | 32             | 12             | 37             | 22,0           | 21,0           | 42             | 26             | 14 | G 1/2" A   | 24,7        |
| DS-SB 18-RL | 18            | L 100    | 32             | 36             | 12             | 38             | 21,5           | 23,0           | 46             | 26             | 14 | G 1/2" A   | 26,9        |
| DS-SB 22-RL | 22            | L 100    | 36             | 46             | 17             | 45             | 28,5           | 28,0           | 58             | 32             | 16 | G 3/4" A   | 54,6        |
| DS-SB 28-RL | 28            | L 100    | 41             | 50             | 22             | 48             | 31,5           | 30,5           | 64             | 39             | 18 | G 1" A     | 83,0        |
| DS-SB 35-RL | 35            | L 100    | 50             | 60             | 27             | 57             | 35,5           | 36,0           | 76             | 49             | 20 | G 1 1/4" A | 117,3       |
| DS-SB 42-RL | 42            | L 100    | 60             | 70             | 32             | 63             | 40,0           | 41,0           | 85             | 55             | 22 | G 1 1/2" A | 224,4       |
| DS-SB 6-RS  | 6             | S 400*   | 17             | 22             | 8              | 31             | 16,5           | 16,0           | 30             | 18             | 12 | G 1/4" A   | 10,9        |
| DS-SB 8-RS  | 8             | S 400*   | 19             | 22             | 8              | 31             | 16,5           | 16,0           | 30             | 18             | 12 | G 1/4" A   | 11,4        |
| DS-SB 10-RS | 10            | S 400*   | 22             | 27             | 10             | 35             | 18,5           | 18,0           | 37             | 22             | 12 | G 3/8" A   | 19,0        |
| DS-SB 12-RS | 12            | S 400*   | 24             | 27             | 10             | 35             | 18,5           | 18,0           | 37             | 22             | 12 | G 3/8" A   | 19,6        |
| DS-SB 14-RS | 14            | S 400*   | 27             | 32             | 12             | 41             | 23,0           | 21,0           | 42             | 26             | 14 | G 1/2" A   | 29,7        |
| DS-SB 16-RS | 16            | S 400*   | 30             | 36             | 12             | 41             | 22,5           | 23,0           | 46             | 26             | 14 | G 1/2" A   | 30,7        |
| DS-SB 20-RS | 20            | S 400*   | 36             | 46             | 17             | 49             | 27,5           | 28,0           | 58             | 32             | 16 | G 3/4" A   | 75,3        |
| DS-SB 25-RS | 25            | S 250*   | 46             | 50             | 22             | 55             | 31,0           | 30,5           | 64             | 39             | 18 | G 1" A     | 101,9       |
| DS-SB 30-RS | 30            | S 250*   | 50             | 60             | 27             | 63             | 36,5           | 36,0           | 76             | 49             | 20 | G 1 1/4" A | 158,0       |
| DS-SB 38-RS | 38            | S 250*   | 60             | 70             | 32             | 72             | 41,0           | 41,0           | 85             | 55             | 22 | G 1 1/2" A | 243,2       |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

\* Współczynnik bezpieczeństwa minimum 1,6

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

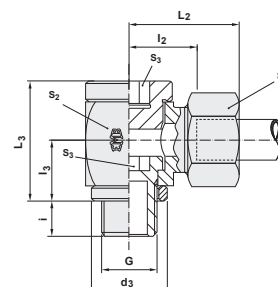
# ZŁĄCZA

## ZŁĄCZE BANJO

### ZŁĄCZE BANJO SB BEZDŁAWIKOWE

## ZŁĄCZE BANJO SB BEZDŁAWIKOWE METRYCZNE

Walcowy metryczny.



| opis        | Śr. zew.<br>rury | Seria<br>PB | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | L <sub>2</sub> | l <sub>2</sub> | l <sub>3</sub> | L <sub>3</sub> | d <sub>3</sub> | i  | G        | kg /<br>100pcs |
|-------------|------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----------|----------------|
| DS-SB 6-ML  | 6                | L 250       | 14             | 18             | 6              | 27             | 12,5           | 12,0           | 24             | 14             | 8  | M 10x1   | 6,2            |
| DS-SB 8-ML  | 8                | L 250       | 17             | 22             | 6              | 29             | 14,5           | 15,0           | 30             | 17             | 12 | M 12x1,5 | 10,0           |
| DS-SB 10-ML | 10               | L 250       | 19             | 22             | 8              | 30             | 15,5           | 16,0           | 30             | 19             | 12 | M 14x1,5 | 11,4           |
| DS-SB 12-ML | 12               | L 250       | 22             | 27             | 10             | 33             | 18,0           | 18,0           | 37             | 21             | 12 | M 16x1,5 | 17,9           |
| DS-SB 15-ML | 15               | L 250       | 27             | 30             | 12             | 36             | 21,0           | 20,0           | 40             | 23             | 12 | M 18x1,5 | 24,1           |
| DS-SB 18-ML | 18               | L 100       | 32             | 36             | 14             | 38             | 21,5           | 23,0           | 46             | 27             | 14 | M 22x1,5 | 30,1           |
| DS-SB 22-ML | 22               | L 100       | 36             | 41             | 17             | 42             | 26,0           | 25,0           | 51             | 31             | 16 | M 26x1,5 | 39,9           |
| DS-SB 28-ML | 28               | L 100       | 41             | 50             | 22             | 48             | 31,5           | 30,5           | 64             | 39             | 18 | M 33x2   | 82,5           |
| DS-SB 35-ML | 35               | L 100       | 50             | 60             | 27             | 57             | 35,5           | 36,0           | 76             | 49             | 20 | M 42x2   | 116,1          |
| DS-SB 42-ML | 42               | L 100       | 60             | 70             | 32             | 63             | 40,0           | 41,0           | 85             | 55             | 22 | M 48x2   | 224,0          |
| DS-SB 6-MS  | 6                | S 400*      | 17             | 22             | 6              | 31             | 16,5           | 15,0           | 30             | 17             | 12 | M 12x1,5 | 9,2            |
| DS-SB 8-MS  | 8                | S 400*      | 19             | 22             | 8              | 31             | 16,5           | 16,0           | 30             | 19             | 12 | M 14x1,5 | 11,6           |
| DS-SB 10-MS | 10               | S 400*      | 22             | 27             | 10             | 35             | 18,5           | 18,0           | 37             | 21             | 12 | M 16x1,5 | 18,9           |
| DS-SB 12-MS | 12               | S 400*      | 24             | 30             | 12             | 37             | 20,5           | 20,0           | 41             | 23             | 12 | M 18x1,5 | 24,0           |
| DS-SB 14-MS | 14               | S 400*      | 27             | 32             | 12             | 41             | 23,0           | 21,0           | 42             | 25             | 14 | M 20x1,5 | 30,2           |
| DS-SB 16-MS | 16               | S 400*      | 30             | 36             | 14             | 41             | 22,5           | 23,0           | 46             | 27             | 14 | M 22x1,5 | 38,9           |
| DS-SB 20-MS | 20               | S 400*      | 36             | 46             | 17             | 49             | 27,5           | 28,0           | 58             | 32             | 16 | M 27x2   | 75,8           |
| DS-SB 25-MS | 25               | S 250*      | 46             | 50             | 22             | 55             | 31,0           | 30,5           | 64             | 39             | 18 | M 33x2   | 101,4          |
| DS-SB 30-MS | 30               | S 250*      | 50             | 60             | 27             | 63             | 36,5           | 36,0           | 76             | 49             | 20 | M 42x2   | 156,8          |
| DS-SB 38-MS | 38               | S 250*      | 60             | 70             | 32             | 72             | 41,0           | 41,0           | 85             | 55             | 22 | M 48x2   | 242,8          |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

\* Współczynnik bezpieczeństwa minimum 1,6

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

# ZŁĄCZA ZŁĄCZE BANJO ZŁĄCZE BONJO SBE WYS. CIŚNIENIE

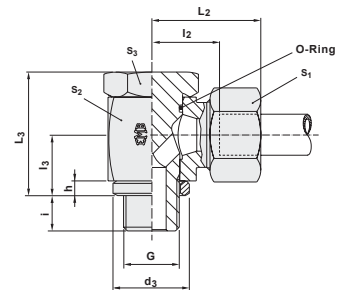
ŚWIAT ZŁĄCZY RUROWYCH

## ZŁĄCZE BONJO SBE WYS. CIŚNIENIE BSP DKA

BSP gwint walc.

Krawędziowy pierścień uszczelniający DKA odpowiada wąskiemu otworowi przeciwnemu zgodnie z normą DIN 3852/d4.

O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis         | Śr.<br>zew.<br>rury | Seria<br>PB | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | L <sub>2</sub> | l <sub>2</sub> | l <sub>3</sub> | L <sub>3</sub> | d <sub>3</sub> | i  | h   | G          | MA*<br>Nm | kg /<br>100pcs |
|--------------|---------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|-----|------------|-----------|----------------|
| DS-SBE 6-RL  | 6                   | L 500       | 14             | 17             | 17             | 27             | 24             | 12,0           | 10,5           | 14             | 8  | 2,5 | G 1/8" A   | 20        | 6,4            |
| DS-SBE 8-RL  | 8                   | L 500       | 17             | 22             | 19             | 29             | 30             | 14,5           | 14,0           | 18             | 12 | 3,0 | G 1/4" A   | 50        | 11,7           |
| DS-SBE 10-RL | 10                  | L 500       | 19             | 22             | 19             | 30             | 30             | 15,5           | 14,0           | 18             | 12 | 3,0 | G 1/4" A   | 50        | 12,3           |
| DS-SBE 12-RL | 12                  | L 400       | 22             | 27             | 24             | 33             | 36             | 18,0           | 16,5           | 22             | 12 | 3,0 | G 3/8" A   | 75        | 20,7           |
| DS-SBE 15-RL | 15                  | L 400       | 27             | 32             | 30             | 37             | 45             | 21,5           | 21,5           | 26             | 14 | 4,5 | G 1/2" A   | 130       | 35,9           |
| DS-SBE 18-RL | 18                  | L 400       | 32             | 32             | 30             | 37             | 45             | 21,0           | 21,5           | 26             | 14 | 4,5 | G 1/2" A   | 130       | 38,4           |
| DS-SBE 22-RL | 22                  | L 250       | 36             | 41             | 36             | 44             | 53             | 27,5           | 24,0           | 32             | 16 | 3,5 | G 3/4" A   | 250       | 66,6           |
| DS-SBE 28-RL | 28                  | L 250       | 41             | 50             | 46             | 49             | 66             | 32,0           | 30,5           | 39             | 18 | 3,5 | G 1" A     | 350       | 112,7          |
| DS-SBE 35-RL | 35                  | L 250       | 50             | 60             | 55             | 58             | 76             | 36,0           | 35,5           | 49             | 20 | 3,5 | G 1 1/4" A | 600       | 166,3          |
| DS-SBE 42-RL | 42                  | L 250       | 60             | 70             | 60             | 63             | 87             | 40,5           | 40,5           | 55             | 22 | 3,5 | G 1 1/2" A | 800       | 245,9          |
| DS-SBE 6-RS  | 6                   | S 500       | 17             | 22             | 19             | 31             | 30             | 16,5           | 14,0           | 18             | 12 | 3,0 | G 1/4" A   | 50        | 12,6           |
| DS-SBE 8-RS  | 8                   | S 500       | 19             | 22             | 19             | 31             | 30             | 16,5           | 14,0           | 18             | 12 | 3,0 | G 1/4" A   | 50        | 12,9           |
| DS-SBE 10-RS | 10                  | S 500       | 22             | 27             | 24             | 35             | 36             | 18,5           | 16,5           | 22             | 12 | 3,0 | G 3/8" A   | 75        | 22,0           |
| DS-SBE 12-RS | 12                  | S 500       | 24             | 27             | 24             | 35             | 36             | 18,5           | 16,5           | 22             | 12 | 3,0 | G 3/8" A   | 75        | 22,5           |
| DS-SBE 14-RS | 14                  | S 500       | 27             | 32             | 30             | 40             | 45             | 22,5           | 21,5           | 26             | 14 | 4,5 | G 1/2" A   | 130       | 37,5           |
| DS-SBE 16-RS | 16                  | S 500       | 30             | 32             | 30             | 40             | 45             | 22,0           | 21,5           | 26             | 14 | 4,5 | G 1/2" A   | 130       | 39,3           |
| DS-SBE 20-RS | 20                  | S 400       | 36             | 41             | 36             | 48             | 53             | 26,5           | 24,0           | 32             | 16 | 3,5 | G 3/4" A   | 250       | 69,2           |
| DS-SBE 25-RS | 25                  | S 400       | 46             | 50             | 46             | 56             | 66             | 31,5           | 30,5           | 39             | 18 | 3,5 | G 1" A     | 350       | 128,4          |
| DS-SBE 30-RS | 30                  | S 400       | 50             | 60             | 55             | 64             | 76             | 37,0           | 35,5           | 49             | 20 | 3,5 | G 1 1/4" A | 600       | 176,3          |
| DS-SBE 38-RS | 38                  | S 400       | 60             | 70             | 60             | 72             | 87             | 41,5           | 40,5           | 55             | 22 | 3,5 | G 1 1/2" A | 800       | 293,0          |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G, gdzie materiałem przeciwnym jest stal

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

# ZŁĄCZA

## ZŁĄCZE BANJO

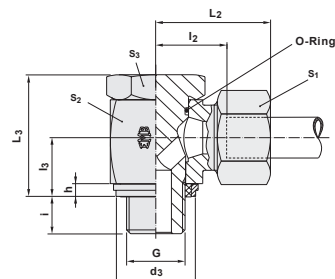
### ZŁĄCZE BONJO SBE WYS. CIŚNIENIE

## ZŁĄCZE BONJO SBE WYS. CIŚNIENIE BSP EDE

BSP gwint walc.

Pierścień uszczelniający EDE (zwulkanizowany NBR) dla "wąskich" otworów DIN 3852/d4.

O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis             | Śr.<br>zew.<br>rury | Seria<br>PB | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | L <sub>2</sub> | l <sub>2</sub> | l <sub>3</sub> | L <sub>3</sub> | D <sub>9</sub> | i  | h   | G          | MA*<br>Nm | kg /<br>100pcs |
|------------------|---------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|-----|------------|-----------|----------------|
| DS-SBE 6-RL/EDE  | 6                   | L 500       | 14             | 17             | 17             | 27             | 12,0           | 24             | 10,5           | 14,9           | 8  | 2,5 | G 1/8" A   | 20        | 6,4            |
| DS-SBE 8-RL/EDE  | 8                   | L 500       | 17             | 22             | 19             | 29             | 14,5           | 30             | 14,0           | 18,9           | 12 | 3,0 | G 1/4" A   | 50        | 11,7           |
| DS-SBE 10-RL/EDE | 10                  | L 500       | 19             | 22             | 19             | 30             | 15,5           | 30             | 14,0           | 18,9           | 12 | 3,0 | G 1/4" A   | 50        | 12,3           |
| DS-SBE 12-RL/EDE | 12                  | L 400       | 22             | 27             | 24             | 33             | 18,0           | 36             | 16,5           | 21,9           | 12 | 3,0 | G 3/8" A   | 75        | 20,7           |
| DS-SBE 15-RL/EDE | 15                  | L 400       | 27             | 32             | 30             | 37             | 21,5           | 45             | 21,5           | 26,9           | 14 | 4,5 | G 1/2" A   | 130       | 35,9           |
| DS-SBE 18-RL/EDE | 18                  | L 400       | 32             | 32             | 30             | 37             | 21,0           | 45             | 21,5           | 26,9           | 14 | 4,5 | G 1/2" A   | 130       | 38,4           |
| DS-SBE 22-RL/EDE | 22                  | L 250       | 36             | 41             | 36             | 44             | 27,5           | 53             | 24,0           | 32,9           | 16 | 3,5 | G 3/4" A   | 250       | 66,6           |
| DS-SBE 28-RL/EDE | 28                  | L 250       | 41             | 50             | 46             | 49             | 32,0           | 66             | 30,5           | 39,9           | 18 | 3,5 | G 1" A     | 350       | 112,7          |
| DS-SBE 35-RL/EDE | 35                  | L 250       | 50             | 60             | 55             | 58             | 36,0           | 76             | 35,5           | 49,9           | 20 | 3,5 | G 1 1/4" A | 600       | 166,3          |
| DS-SBE 42-RL/EDE | 42                  | L 250       | 60             | 70             | 60             | 63             | 40,5           | 87             | 40,5           | 55,9           | 22 | 3,5 | G 1 1/2" A | 800       | 245,9          |
| DS-SBE 6-RS/EDE  | 6                   | S 500       | 17             | 22             | 19             | 31             | 16,5           | 30             | 14,0           | 18,9           | 12 | 3,0 | G 1/4" A   | 50        | 12,6           |
| DS-SBE 8-RS/EDE  | 8                   | S 500       | 19             | 22             | 19             | 31             | 16,5           | 30             | 14,0           | 18,9           | 12 | 3,0 | G 1/4" A   | 50        | 12,9           |
| DS-SBE 10-RS/EDE | 10                  | S 500       | 22             | 27             | 24             | 35             | 18,5           | 36             | 16,5           | 21,9           | 12 | 3,0 | G 3/8" A   | 75        | 22,0           |
| DS-SBE 12-RS/EDE | 12                  | S 500       | 24             | 27             | 24             | 35             | 18,5           | 36             | 16,5           | 21,9           | 12 | 3,0 | G 3/8" A   | 75        | 22,5           |
| DS-SBE 14-RS/EDE | 14                  | S 500       | 27             | 32             | 30             | 40             | 22,5           | 45             | 21,5           | 26,9           | 14 | 4,5 | G 1/2" A   | 130       | 37,5           |
| DS-SBE 16-RS/EDE | 16                  | S 500       | 30             | 32             | 30             | 40             | 22,0           | 45             | 21,5           | 26,9           | 14 | 4,5 | G 1/2" A   | 130       | 39,3           |
| DS-SBE 20-RS/EDE | 20                  | S 400       | 36             | 41             | 36             | 48             | 26,5           | 53             | 24,0           | 32,9           | 16 | 3,5 | G 3/4" A   | 250       | 69,2           |
| DS-SBE 25-RS/EDE | 25                  | S 400       | 46             | 50             | 46             | 56             | 31,5           | 66             | 30,5           | 39,9           | 18 | 3,5 | G 1" A     | 350       | 128,4          |
| DS-SBE 30-RS/EDE | 30                  | S 400       | 50             | 60             | 55             | 64             | 37,0           | 76             | 35,5           | 49,9           | 20 | 3,5 | G 1 1/4" A | 600       | 176,3          |
| DS-SBE 38-RS/EDE | 38                  | S 400       | 60             | 70             | 60             | 72             | 41,5           | 87             | 40,5           | 55,9           | 22 | 3,5 | G 1 1/2" A | 800       | 293,0          |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwnym jest stal

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

# ZŁĄCZA ZŁĄCZE BANJO ZŁĄCZE BONJO SBE WYS. CIŚNIENIE

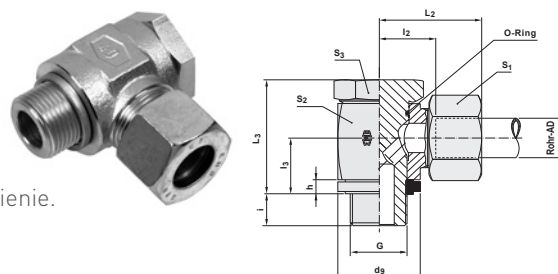
ŚWIAT ZŁĄCZY RUROWYCH

## ZŁĄCZE BONJO SBE WYS. CIŚNIENIE BSP KDE

BSP gwint walc.

Metalowy pierścień tążący KDE.

O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis             | Śr.<br>zew.<br>rury | Seria<br>PB | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | L <sub>2</sub> | l <sub>2</sub> | l <sub>3</sub> | L <sub>3</sub> | D <sub>9</sub> | i  | h   | G          | MA*<br>Nm | kg /<br>100pcs |
|------------------|---------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|-----|------------|-----------|----------------|
| DS-SBE 6-RL/KDE  | 6                   | L 500       | 14             | 17             | 17             | 27             | 12,0           | 10,5           | 24             | 17             | 8  | 2,5 | G 1/8" A   | 20        | 6,4            |
| DS-SBE 8-RL/KDE  | 8                   | L 500       | 17             | 22             | 19             | 29             | 14,5           | 14,0           | 30             | 22             | 12 | 3,0 | G 1/4" A   | 50        | 11,9           |
| DS-SBE 10-RL/KDE | 10                  | L 500       | 19             | 22             | 19             | 30             | 15,5           | 14,0           | 30             | 22             | 12 | 3,0 | G 1/4" A   | 50        | 12,5           |
| DS-SBE 12-RL/KDE | 12                  | L 400       | 22             | 27             | 24             | 33             | 18,0           | 16,5           | 36             | 27             | 12 | 3,0 | G 3/8" A   | 75        | 21,0           |
| DS-SBE 15-RL/KDE | 15                  | L 400       | 27             | 32             | 30             | 37             | 21,5           | 21,5           | 45             | 32             | 14 | 4,5 | G 1/2" A   | 130       | 36,5           |
| DS-SBE 18-RL/KDE | 18                  | L 400       | 32             | 32             | 30             | 37             | 21,0           | 21,5           | 45             | 32             | 14 | 4,5 | G 1/2" A   | 130       | 39,0           |
| DS-SBE 22-RL/KDE | 22                  | L 250       | 36             | 41             | 36             | 44             | 27,5           | 24,0           | 53             | 41             | 16 | 3,5 | G 3/4" A   | 250       | 67,7           |
| DS-SBE 28-RL/KDE | 28                  | L 250       | 41             | 50             | 46             | 49             | 32,0           | 30,5           | 66             | 46             | 18 | 3,5 | G 1" A     | 350       | 113,5          |
| DS-SBE 35-RL/KDE | 35                  | L 250       | 50             | 60             | 55             | 58             | 36,0           | 35,5           | 76             | 57             | 20 | 3,5 | G 1 1/4" A | 600       | 167,7          |
| DS-SBE 42-RL/KDE | 42                  | L 250       | 60             | 70             | 60             | 63             | 40,5           | 40,5           | 87             | 64             | 22 | 3,5 | G 1 1/2" A | 800       | 247,7          |
| DS-SBE 6-RS/KDE  | 6                   | S 500       | 17             | 22             | 19             | 31             | 16,5           | 14,0           | 30             | 22             | 12 | 3,0 | G 1/4" A   | 50        | 12,7           |
| DS-SBE 8-RS/KDE  | 8                   | S 500       | 19             | 22             | 19             | 31             | 16,5           | 14,0           | 30             | 22             | 12 | 3,0 | G 1/4" A   | 50        | 13,1           |
| DS-SBE 10-RS/KDE | 10                  | S 500       | 22             | 27             | 24             | 35             | 18,5           | 16,5           | 36             | 27             | 12 | 3,0 | G 3/8" A   | 75        | 22,2           |
| DS-SBE 12-RS/KDE | 12                  | S 500       | 24             | 27             | 24             | 35             | 18,5           | 16,5           | 36             | 27             | 12 | 3,0 | G 3/8" A   | 75        | 22,8           |
| DS-SBE 14-RS/KDE | 14                  | S 500       | 27             | 32             | 30             | 40             | 22,5           | 21,5           | 45             | 32             | 14 | 4,5 | G 1/2" A   | 130       | 38,0           |
| DS-SBE 16-RS/KDE | 16                  | S 500       | 30             | 32             | 30             | 40             | 22,0           | 21,5           | 45             | 32             | 14 | 4,5 | G 1/2" A   | 130       | 39,9           |
| DS-SBE 20-RS/KDE | 20                  | S 400       | 36             | 41             | 36             | 48             | 26,5           | 24,0           | 53             | 41             | 16 | 3,5 | G 3/4" A   | 250       | 70,3           |
| DS-SBE 25-RS/KDE | 25                  | S 400       | 46             | 50             | 46             | 56             | 31,5           | 30,5           | 66             | 46             | 18 | 3,5 | G 1" A     | 350       | 129,2          |
| DS-SBE 30-RS/KDE | 30                  | S 400       | 50             | 60             | 55             | 64             | 37,0           | 35,5           | 76             | 57             | 20 | 3,5 | G 1 1/4" A | 600       | 177,7          |
| DS-SBE 38-RS/KDE | 38                  | S 400       | 60             | 70             | 60             | 72             | 41,5           | 40,5           | 87             | 64             | 22 | 3,5 | G 1 1/2" A | 800       | 294,8          |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G, gdzie materiałem przeciwstawnym jest stal

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

# ZŁĄCZA

## ZŁĄCZE BANJO

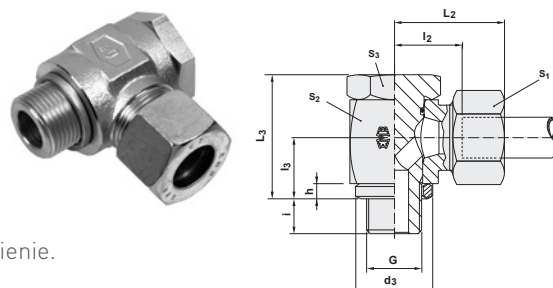
### ZŁĄCZE BONJO SBE WYS. CIŚNIENIE

## ZŁĄCZE BONJO SBE WYS. CIŚNIENIE METRYCZNE DKA

Walcowy metryczny.

Krawędziowy pierścień uszczelniający DKA odpowiada wąskiemu otworowi przeciwnemu zgodnie z normą DIN 3852/d4.

O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis         | Śr.<br>zew.<br>rury | Seria<br>PB | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | L <sub>2</sub> | l <sub>2</sub> | l <sub>3</sub> | L <sub>3</sub> | d <sub>3</sub> | i  | h   | G        | MA*<br>Nm | kg /<br>100pcs |
|--------------|---------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|-----|----------|-----------|----------------|
|              |                     |             |                |                |                |                |                |                |                |                |    |     |          |           |                |
| DS-SBE 6-ML  | 6                   | L 500       | 14             | 17             | 17             | 27             | 12,0           | 10,5           | 24,0           | 14             | 8  | 2,5 | M 10x1   | 25        | 6,5            |
| DS-SBE 8-ML  | 8                   | L 500       | 17             | 22             | 19             | 29             | 14,5           | 14,0           | 30,0           | 17             | 12 | 3,0 | M 12x1,5 | 50        | 11,4           |
| DS-SBE 10-ML | 10                  | L 500       | 19             | 22             | 19             | 30             | 15,5           | 14,0           | 30,0           | 19             | 12 | 3,0 | M 14x1,5 | 60        | 12,5           |
| DS-SBE 12-ML | 12                  | L 400       | 22             | 27             | 24             | 33             | 18,0           | 16,5           | 36,0           | 21             | 12 | 3,0 | M 16x1,5 | 90        | 20,3           |
| DS-SBE 15-ML | 15                  | L 400       | 27             | 30             | 27             | 36             | 20,5           | 18,5           | 39,5           | 23             | 12 | 3,0 | M 18x1,5 | 110       | 28,8           |
| DS-SBE 18-ML | 18                  | L 400       | 32             | 32             | 30             | 37             | 21,0           | 21,5           | 45,0           | 27             | 14 | 4,5 | M 22x1,5 | 150       | 38,8           |
| DS-SBE 22-ML | 22                  | L 250       | 36             | 41             | 36             | 44             | 27,5           | 24,0           | 53,0           | 31             | 16 | 3,5 | M 26x1,5 | 350       | 65,8           |
| DS-SBE 28-ML | 28                  | L 250       | 41             | 50             | 46             | 49             | 32,0           | 30,5           | 66,0           | 39             | 18 | 3,5 | M 33x2   | 400       | 110,3          |
| DS-SBE 35-ML | 35                  | L 250       | 50             | 60             | 55             | 58             | 36,0           | 35,5           | 76,0           | 49             | 20 | 3,5 | M 42x2   | 600       | 166,3          |
| DS-SBE 42-ML | 42                  | L 250       | 60             | 70             | 60             | 63             | 40,5           | 40,5           | 87,0           | 55             | 22 | 3,5 | M 48x2   | 800       | 249,9          |
| DS-SBE 6-MS  | 6                   | S 500       | 17             | 22             | 19             | 31             | 16,5           | 14,0           | 30,0           | 17             | 12 | 3,0 | M 12x1,5 | 50        | 12,2           |
| DS-SBE 8-MS  | 8                   | S 500       | 19             | 22             | 19             | 31             | 16,5           | 14,0           | 30,0           | 19             | 12 | 3,0 | M 14x1,5 | 60        | 13,2           |
| DS-SBE 10-MS | 10                  | S 500       | 22             | 27             | 24             | 35             | 18,5           | 16,5           | 36,0           | 21             | 12 | 3,0 | M 16x1,5 | 90        | 21,7           |
| DS-SBE 12-MS | 12                  | S 500       | 24             | 30             | 27             | 36             | 20,0           | 18,5           | 39,5           | 23             | 12 | 3,0 | M 18x1,5 | 110       | 28,0           |
| DS-SBE 14-MS | 14                  | S 500       | 27             | 32             | 30             | 40             | 22,5           | 20,0           | 48,5           | 25             | 14 | 3,0 | M 20x1,5 | 130       | 37,4           |
| DS-SBE 16-MS | 16                  | S 500       | 30             | 32             | 30             | 40             | 22,0           | 21,5           | 45,0           | 27             | 14 | 4,5 | M 22x1,5 | 150       | 39,4           |
| DS-SBE 20-MS | 20                  | S 400       | 36             | 41             | 36             | 48             | 26,5           | 24,0           | 53,0           | 32             | 16 | 3,5 | M 27x2   | 350       | 68,8           |
| DS-SBE 25-MS | 25                  | S 400       | 46             | 50             | 46             | 56             | 31,5           | 30,5           | 66,0           | 39             | 18 | 3,5 | M 33x2   | 400       | 126,0          |
| DS-SBE 30-MS | 30                  | S 400       | 50             | 60             | 55             | 64             | 37,0           | 35,5           | 76,0           | 49             | 20 | 3,5 | M 42x2   | 600       | 176,3          |
| DS-SBE 38-MS | 38                  | S 400       | 60             | 70             | 60             | 72             | 41,5           | 40,5           | 87,0           | 55             | 22 | 3,5 | M 48x2   | 800       | 296,9          |

$L_2$  = przybliżona długość z dokręconą nakrętką

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwnym jest stal

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.



# ZŁĄCZA ZŁĄCZE BANJO ZŁĄCZE BONJO SBE WYS. CIŚNIENIE

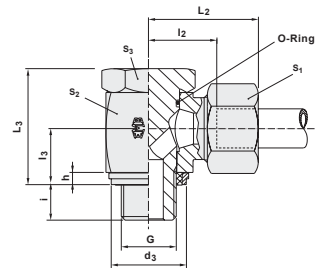
ŚWIAT ZŁĄCZY RUROWYCH

## ZŁĄCZE BONJO SBE WYS. CIŚNIENIE METRYCZNE EDE

Walcowy metryczny.

Pierścień uszczelniający FDF (zwulkanizowany NBR) dla "wąskich" otworów DIN 3852/d4.

O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis             | Śr. zew. rury | Seria PB | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | L <sub>2</sub> | l <sub>2</sub> | l <sub>3</sub> | L <sub>3</sub> | d <sub>3</sub> | i  | h   | d <sub>9</sub> | G        | MA* Nm | kg / 100pcs |
|------------------|---------------|----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|-----|----------------|----------|--------|-------------|
| DS-SBE 6-ML/EDE  | 6             | L 500    | 14             | 17             | 17             | 27             | 12,0           | 10,5           | 24,0           | 14,9           | 8  | 2,5 | 8              | M 10x1   | 25     | 6,6         |
| DS-SBE 8-ML/EDE  | 8             | L 500    | 17             | 22             | 19             | 29             | 14,5           | 14,0           | 30,0           | 16,9           | 12 | 3,0 | 12             | M 12x1,5 | 50     | 11,6        |
| DS-SBE 10-ML/EDE | 10            | L 500    | 19             | 22             | 19             | 30             | 15,5           | 14,0           | 30,0           | 18,9           | 12 | 3,0 | 12             | M 14x1,5 | 60     | 12,7        |
| DS-SBE 12-ML/EDE | 12            | L 400    | 22             | 27             | 24             | 33             | 18,0           | 16,5           | 36,0           | 21,9           | 12 | 3,0 | 12             | M 16x1,5 | 90     | 20,7        |
| DS-SBE 15-ML/EDE | 15            | L 400    | 27             | 30             | 27             | 36             | 20,5           | 18,5           | 39,5           | 23,9           | 12 | 3,0 | 12             | M 18x1,5 | 110    | 28,8        |
| DS-SBE 18-ML/EDE | 18            | L 400    | 32             | 32             | 30             | 37             | 21,0           | 21,5           | 45,0           | 26,9           | 14 | 4,5 | 14             | M 22x1,5 | 150    | 39,3        |
| DS-SBE 22-ML/EDE | 22            | L 250    | 36             | 41             | 36             | 44             | 27,5           | 24,0           | 53,0           | 31,9           | 16 | 3,5 | 16             | M 26x1,5 | 350    | 67,0        |
| DS-SBE 28-ML/EDE | 28            | L 250    | 41             | 50             | 46             | 49             | 32,0           | 30,5           | 66,0           | 39,9           | 18 | 3,5 | 18             | M 33x2   | 400    | 111,1       |
| DS-SBE 35-ML/EDE | 35            | L 250    | 50             | 60             | 55             | 58             | 36,0           | 35,5           | 76,0           | 49,9           | 20 | 3,5 | 20             | M 42x2   | 600    | 167,7       |
| DS-SBE 42-ML/EDE | 42            | L 250    | 60             | 70             | 60             | 63             | 40,5           | 40,5           | 87,0           | 55,9           | 22 | 3,5 | 22             | M 48x2   | 800    | 251,7       |
| DS-SBE 6-MS/EDE  | 6             | S 500    | 17             | 22             | 19             | 31             | 16,5           | 14,0           | 30,0           | 16,9           | 12 | 3,0 | 12             | M 12x1,5 | 50     | 12,5        |
| DS-SBE 8-MS/EDE  | 8             | S 500    | 19             | 22             | 19             | 31             | 16,5           | 14,0           | 30,0           | 18,9           | 12 | 3,0 | 12             | M 14x1,5 | 60     | 13,3        |
| DS-SBE 10-MS/EDE | 10            | S 500    | 22             | 27             | 24             | 35             | 18,5           | 16,5           | 36,0           | 21,9           | 12 | 3,0 | 12             | M 16x1,5 | 90     | 22,0        |
| DS-SBE 12-MS/EDE | 12            | S 500    | 24             | 30             | 27             | 36             | 20,0           | 18,5           | 39,5           | 23,9           | 12 | 3,0 | 12             | M 18x1,5 | 110    | 28,3        |
| DS-SBE 16-MS/EDE | 16            | S 500    | 30             | 32             | 30             | 40             | 22,0           | 21,5           | 45,0           | 26,9           | 14 | 4,5 | 14             | M 22x1,5 | 150    | 39,8        |
| DS-SBE 20-MS/EDE | 20            | S 400    | 36             | 41             | 36             | 48             | 26,5           | 24,0           | 53,0           | 32,9           | 16 | 3,5 | 16             | M 27x2   | 350    | 69,9        |
| DS-SBE 25-MS/EDE | 25            | S 400    | 46             | 50             | 46             | 56             | 31,5           | 39,0           | 66,0           | 39,9           | 18 | 3,5 | 18             | M 33x2   | 400    | 126,8       |
| DS-SBE 30-MS/EDE | 30            | S 400    | 50             | 60             | 55             | 64             | 37,0           | 49,0           | 76,0           | 49,9           | 20 | 3,5 | 20             | M 42x2   | 600    | 177,6       |
| DS-SBE 38-MS/EDE | 38            | S 400    | 60             | 70             | 60             | 72             | 41,5           | 55,0           | 87,0           | 55,9           | 22 | 3,5 | 22             | M 48x2   | 800    | 298,7       |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwstawnym jest stal

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

# ZŁĄCZA

## ZŁĄCZE BANJO

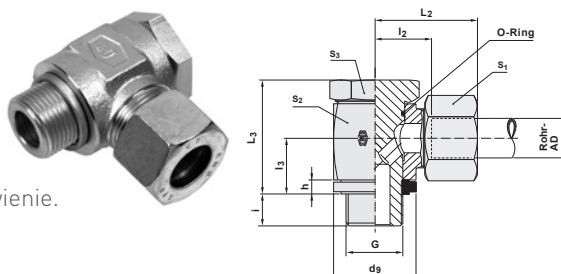
### ZŁĄCZE BONJO SBE WYS. CIŚNIENIE

## ZŁĄCZE BONJO SBE WYS. CIŚNIENIE METRYCZNE KDE

Walcowy metryczny.

Metalowy pierścień łączący KDE.

O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis             | Śr.<br>zew.<br>rury | Seria<br>PB | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | L <sub>2</sub> | L <sub>2</sub> | L <sub>3</sub> | L <sub>3</sub> | d <sub>3</sub> | h   | d <sub>9</sub> | G        | MA*<br>Nm | kg /<br>100pcs |
|------------------|---------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|----------------|----------|-----------|----------------|
| DS-SBE 6-ML/KDE  | 6                   | L 500       | 14             | 17             | 17             | 27             | 12,0           | 10,5           | 24,0           | 17             | 2,5 | 8              | M 10x1   | 25        | 6,6            |
| DS-SBE 8-ML/KDE  | 8                   | L 500       | 17             | 22             | 19             | 29             | 14,5           | 14,0           | 30,0           | 22             | 3,0 | 12             | M 12x1,5 | 50        | 11,6           |
| DS-SBE 10-ML/KDE | 10                  | L 500       | 19             | 22             | 19             | 30             | 15,5           | 14,0           | 30,0           | 23             | 3,0 | 12             | M 14x1,5 | 60        | 12,7           |
| DS-SBE 12-ML/KDE | 12                  | L 400       | 22             | 27             | 24             | 33             | 18,0           | 16,5           | 36,0           | 27             | 3,0 | 12             | M 16x1,5 | 90        | 20,7           |
| DS-SBE 15-ML/KDE | 15                  | L 400       | 27             | 30             | 27             | 36             | 20,5           | 18,5           | 39,5           | 29             | 3,0 | 12             | M 18x1,5 | 110       | 28,8           |
| DS-SBE 18-ML/KDE | 18                  | L 400       | 32             | 32             | 30             | 37             | 21,0           | 21,5           | 45,0           | 32             | 4,5 | 14             | M 22x1,5 | 150       | 39,3           |
| DS-SBE 22-ML/KDE | 22                  | L 250       | 36             | 41             | 36             | 44             | 27,5           | 24,0           | 53,0           | 41             | 3,5 | 16             | M 26x1,5 | 350       | 67,0           |
| DS-SBE 28-ML/KDE | 28                  | L 250       | 41             | 50             | 46             | 49             | 32,0           | 30,5           | 66,0           | 46             | 3,5 | 18             | M 33x2   | 400       | 111,1          |
| DS-SBE 35-ML/KDE | 35                  | L 250       | 50             | 60             | 55             | 58             | 36,0           | 35,5           | 76,0           | 57             | 3,5 | 20             | M 42x2   | 600       | 167,7          |
| DS-SBE 42-ML/KDE | 42                  | L 250       | 60             | 70             | 60             | 63             | 40,5           | 40,5           | 87,0           | 64             | 3,5 | 22             | M 48x2   | 800       | 251,7          |
| DS-SBE 6-MS/KDE  | 6                   | S 500       | 17             | 22             | 19             | 31             | 16,5           | 14,0           | 30,0           | 22             | 3,0 | 12             | M 12x1,5 | 50        | 12,5           |
| DS-SBE 8-MS/KDE  | 8                   | S 500       | 19             | 22             | 19             | 31             | 16,5           | 14,0           | 30,0           | 23             | 3,0 | 12             | M 14x1,5 | 60        | 13,3           |
| DS-SBE 10-MS/KDE | 10                  | S 500       | 22             | 27             | 24             | 35             | 18,5           | 16,5           | 36,0           | 27             | 3,0 | 12             | M 16x1,5 | 90        | 22,0           |
| DS-SBE 12-MS/KDE | 12                  | S 500       | 24             | 30             | 27             | 36             | 20,0           | 18,5           | 39,5           | 29             | 3,0 | 12             | M 18x1,5 | 110       | 28,3           |
| DS-SBE 16-MS/KDE | 16                  | S 500       | 30             | 32             | 30             | 40             | 22,0           | 21,5           | 45,0           | 32             | 4,5 | 14             | M 22x1,5 | 150       | 39,8           |
| DS-SBE 20-MS/KDE | 20                  | S 400       | 36             | 41             | 36             | 48             | 26,5           | 24,0           | 53,0           | 41             | 3,5 | 16             | M 27x2   | 350       | 69,9           |
| DS-SBE 25-MS/KDE | 25                  | S 400       | 46             | 50             | 46             | 56             | 31,5           | 30,5           | 66,0           | 46             | 3,5 | 18             | M 33x2   | 400       | 126,8          |
| DS-SBE 30-MS/KDE | 30                  | S 400       | 50             | 60             | 55             | 64             | 37,0           | 35,5           | 76,0           | 57             | 3,5 | 20             | M 42x2   | 600       | 177,6          |
| DS-SBE 38-MS/KDE | 38                  | S 400       | 60             | 70             | 60             | 72             | 41,5           | 40,5           | 87,0           | 64             | 3,5 | 22             | M 48x2   | 800       | 298,7          |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwnym jest stal

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

# ZŁĄCZA ZŁĄCZE BANJO SGE T ZŁĄCZE ZE ŚRUBĄ OBROTOWĄ WYS. CIŚNIENIE

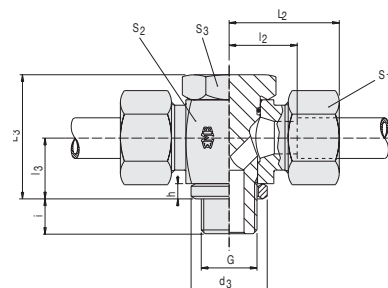
ŚWIAT ZŁĄCZY RUROWYCH

## SGE T ZŁĄCZE ZE ŚRUBĄ OBROTOWĄ WYS. CIŚNIENIE BSP DKA

BSP gwint walc.

Krawędziowy pierścień uszczelniający DKA.

O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis         | Śr.<br>zew.<br>rury | Seria<br>PB | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | L <sub>2</sub> | L <sub>2</sub> | L <sub>3</sub> | L <sub>3</sub> | d <sub>3</sub> | i  | h   | d <sub>1</sub> | G         | MA*<br>Nm | kg /<br>100pcs |
|--------------|---------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|-----|----------------|-----------|-----------|----------------|
| DS-SGE 6-RL  | 6                   | L 500       | 14             | 17             | 17             | 27             | 12,0           | 10,5           | 24             | 14             | 8  | 2,5 | 14,9           | G 1/8"A   | 20        | 8,0            |
| DS-SGE 8-RL  | 8                   | L 500       | 17             | 22             | 19             | 29             | 14,5           | 14,0           | 30             | 18             | 12 | 3,0 | 18,9           | G 1/4"A   | 50        | 14,1           |
| DS-SGE 10-RL | 10                  | L 500       | 19             | 22             | 19             | 30             | 15,5           | 14,0           | 30             | 18             | 12 | 3,0 | 18,9           | G 1/4"A   | 50        | 15,0           |
| DS-SGE 12-RL | 12                  | L 400       | 22             | 27             | 24             | 33             | 18,0           | 16,5           | 36             | 22             | 12 | 3,0 | 21,9           | G 3/8"A   | 75        | 24,1           |
| DS-SGE 15-RL | 15                  | L 400       | 27             | 32             | 30             | 37             | 21,5           | 21,5           | 45             | 26             | 14 | 4,5 | 26,9           | G 1/2"A   | 130       | 40,9           |
| DS-SGE 18-RL | 18                  | L 400       | 32             | 32             | 30             | 37             | 21,0           | 21,5           | 45             | 26             | 14 | 4,5 | 26,9           | G 1/2"A   | 130       | 45,8           |
| DS-SGE 22-RL | 22                  | L 250       | 36             | 41             | 36             | 44             | 27,5           | 24,0           | 53             | 32             | 16 | 3,5 | 32,9           | G 3/4"A   | 250       | 75,9           |
| DS-SGE 28-RL | 28                  | L 250       | 41             | 50             | 46             | 49             | 32,0           | 30,5           | 66             | 39             | 18 | 3,5 | 39,9           | G 1" A    | 350       | 125,4          |
| DS-SGE 35-RL | 35                  | L 250       | 50             | 60             | 55             | 58             | 36,0           | 35,5           | 76             | 49             | 20 | 3,5 | 49,9           | G 1 1/4"A | 600       | 206,1          |
| DS-SGE 42-RL | 42                  | L 250       | 60             | 70             | 60             | 63             | 40,5           | 40,5           | 87             | 55             | 22 | 3,5 | 55,9           | G 1 1/2"A | 800       | 299,0          |
| DS-SGE 6-RS  | 6                   | S 500       | 17             | 22             | 19             | 31             | 16,5           | 14,0           | 30             | 18             | 12 | 3,0 | 18,9           | G 1/4"A   | 50        | 15,2           |
| DS-SGE 8-RS  | 8                   | S 500       | 19             | 22             | 19             | 31             | 16,5           | 14,0           | 30             | 18             | 12 | 3,0 | 18,9           | G 1/4"A   | 50        | 16,4           |
| DS-SGE 10-RS | 10                  | S 500       | 22             | 27             | 24             | 35             | 18,5           | 16,5           | 36             | 22             | 12 | 3,0 | 21,9           | G 3/8"A   | 75        | 26,4           |
| DS-SGE 12-RS | 12                  | S 500       | 24             | 27             | 24             | 35             | 18,5           | 16,5           | 36             | 22             | 12 | 3,0 | 21,9           | G 3/8"A   | 75        | 27,8           |
| DS-SGE 14-RS | 14                  | S 500       | 27             | 32             | 30             | 40             | 22,5           | 21,5           | 45             | 26             | 14 | 4,5 | 26,9           | G 1/2"A   | 130       | [37,5]         |
| DS-SGE 16-RS | 16                  | S 500       | 30             | 32             | 30             | 40             | 22,0           | 21,5           | 45             | 26             | 14 | 4,5 | 26,9           | G 1/2"A   | 130       | 49,0           |
| DS-SGE 20-RS | 20                  | S 400       | 36             | 41             | 36             | 48             | 26,5           | 24,0           | 53             | 32             | 16 | 3,5 | 32,9           | G 3/4"A   | 250       | 84,2           |
| DS-SGE 25-RS | 25                  | S 400       | 46             | 50             | 46             | 56             | 31,5           | 30,5           | 66             | 39             | 18 | 3,5 | 39,9           | G 1" A    | 350       | 155,0          |
| DS-SGE 30-RS | 30                  | S 400       | 50             | 60             | 55             | 64             | 37,0           | 35,5           | 76             | 49             | 20 | 3,5 | 49,9           | G 1 1/4"A | 600       | 230,0          |
| DS-SGE 38-RS | 38                  | S 400       | 60             | 70             | 60             | 72             | 41,5           | 40,5           | 87             | 55             | 22 | 3,5 | 55,9           | G 1 1/2"A | 800       | 337,2          |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwnym jest stal

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ZŁĄCZA

### ZŁĄCZE BANJO

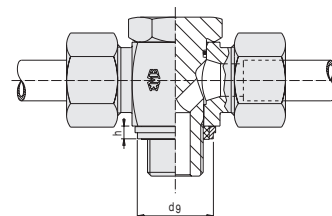
#### SGE T ZŁĄCZE ZE ŚRUBĄ OBROTOWĄ WYS. CIŚNIENIE

### SGE T ZŁĄCZE ZE ŚRUBĄ OBROTOWĄ WYS. CIŚNIENIE BSP EDE

BSP gwint walc.

Pierścień uszczelniający EDE.

O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis             | Śr.<br>zew.<br>rury | Seria<br>PB | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | L <sub>2</sub> | l <sub>2</sub> | l <sub>3</sub> | L <sub>3</sub> | d <sub>3</sub> | i  | h   | d <sub>9</sub> | G         | MA*<br>Nm | kg /<br>100pcs |
|------------------|---------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|-----|----------------|-----------|-----------|----------------|
| DS-SGE 6-RL/EDE  | 6                   | L 500       | 14             | 17             | 17             | 27             | 12,0           | 10,5           | 24             | 14             | 8  | 2,5 | 14,9           | G 1/8"A   | 20        | 8,1            |
| DS-SGE 8-RL/EDE  | 8                   | L 500       | 17             | 22             | 19             | 29             | 14,5           | 14,0           | 30             | 18             | 12 | 3,0 | 18,9           | G 1/4"A   | 50        | 14,2           |
| DS-SGE 10-RL/EDE | 10                  | L 500       | 19             | 22             | 19             | 30             | 15,5           | 14,0           | 30             | 18             | 12 | 3,0 | 18,9           | G 1/4"A   | 50        | 15,2           |
| DS-SGE 12-RL/EDE | 12                  | L 400       | 22             | 27             | 24             | 33             | 18,0           | 16,5           | 36             | 22             | 12 | 3,0 | 21,9           | G 3/8"A   | 75        | 24,3           |
| DS-SGE 15-RL/EDE | 15                  | L 400       | 27             | 32             | 30             | 37             | 21,5           | 21,5           | 45             | 26             | 14 | 4,5 | 26,9           | G 1/2"A   | 130       | 41,5           |
| DS-SGE 18-RL/EDE | 18                  | L 400       | 32             | 32             | 30             | 37             | 21,0           | 21,5           | 45             | 26             | 14 | 4,5 | 26,9           | G 1/2"A   | 130       | 46,4           |
| DS-SGE 22-RL/EDE | 22                  | L 250       | 36             | 41             | 36             | 44             | 27,5           | 24,0           | 53             | 32             | 16 | 3,5 | 32,9           | G 3/4"A   | 250       | 77,0           |
| DS-SGE 28-RL/EDE | 28                  | L 250       | 41             | 50             | 46             | 49             | 32,0           | 30,5           | 66             | 39             | 18 | 3,5 | 39,9           | G 1" A    | 350       | 126,2          |
| DS-SGE 35-RL/EDE | 35                  | L 250       | 50             | 60             | 55             | 58             | 36,0           | 35,5           | 76             | 49             | 20 | 3,5 | 49,9           | G 1 1/4"A | 600       | 207,4          |
| DS-SGE 42-RL/EDE | 42                  | L 250       | 60             | 70             | 60             | 63             | 40,5           | 40,5           | 87             | 55             | 22 | 3,5 | 55,9           | G 1 1/2"A | 800       | 300,8          |
| DS-SGE 6-RS/EDE  | 6                   | S 500       | 17             | 22             | 19             | 31             | 16,5           | 14,0           | 30             | 18             | 12 | 3,0 | 18,9           | G 1/4"A   | 50        | 15,3           |
| DS-SGE 8-RS/EDE  | 8                   | S 500       | 19             | 22             | 19             | 31             | 16,5           | 14,0           | 30             | 18             | 12 | 3,0 | 18,9           | G 1/4"A   | 50        | 16,6           |
| DS-SGE 10-RS/EDE | 10                  | S 500       | 22             | 27             | 24             | 35             | 18,5           | 16,5           | 36             | 22             | 12 | 3,0 | 21,9           | G 3/8"A   | 75        | 26,7           |
| DS-SGE 12-RS/EDE | 12                  | S 500       | 24             | 27             | 24             | 35             | 18,5           | 16,5           | 36             | 22             | 12 | 3,0 | 21,9           | G 3/8"A   | 75        | 28,1           |
| DS-SGE 14-RS/EDE | 14                  | S 500       | 27             | 32             | 30             | 40             | 22,5           | 21,5           | 45             | 26             | 14 | 4,5 | 26,9           | G 1/2"A   | 130       | [38,0]         |
| DS-SGE 16-RS/EDE | 16                  | S 500       | 30             | 32             | 30             | 40             | 22,0           | 21,5           | 45             | 26             | 14 | 4,5 | 26,9           | G 1/2"A   | 130       | 49,6           |
| DS-SGE 20-RS/EDE | 20                  | S 400       | 36             | 41             | 36             | 48             | 26,5           | 24,0           | 53             | 32             | 16 | 3,5 | 32,9           | G 3/4"A   | 250       | 85,2           |
| DS-SGE 25-RS/EDE | 25                  | S 400       | 46             | 50             | 46             | 56             | 31,5           | 30,5           | 66             | 39             | 18 | 3,5 | 39,9           | G 1" A    | 350       | 155,9          |
| DS-SGE 30-RS/EDE | 30                  | S 400       | 50             | 60             | 55             | 64             | 37,0           | 35,5           | 76             | 49             | 20 | 3,5 | 49,9           | G 1 1/4"A | 600       | 231,4          |
| DS-SGE 38-RS/EDE | 38                  | S 400       | 60             | 70             | 60             | 72             | 41,5           | 40,5           | 87             | 55             | 22 | 3,5 | 55,9           | G 1 1/2"A | 800       | 339,0          |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwstawnym jest stal

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

# ZŁĄCZA ZŁĄCZE BANJO SGE T ZŁĄCZE ZE ŚRUBĄ OBROTOWĄ WYS. CIŚNIENIE

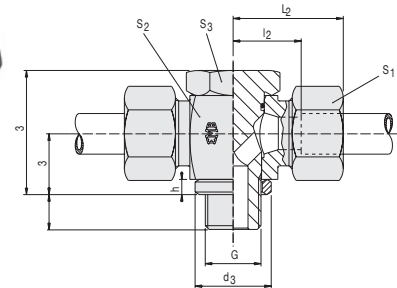
ŚWIAT ZŁĄCZY RUROWYCH

## SGE T ZŁĄCZE ZE ŚRUBĄ OBROTOWĄ WYS. CIŚNIENIE METRYCZNE DKA

Walcowy metryczny.

Krawędziowy pierścień uszczelniający DKA.

O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis         | Śr.<br>zew.<br>rury | Seria<br>PB | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | L <sub>2</sub> | l <sub>2</sub> | L <sub>3</sub> | L <sub>3</sub> | d <sub>3</sub> | i  | h   | d <sub>9</sub> | G        | MA*<br>Nm | kg /<br>100pcs |
|--------------|---------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|-----|----------------|----------|-----------|----------------|
| DS-SGE 6-ML  | 6                   | L 500       | 14             | 17             | 17             | 27             | 12,0           | 10,5           | 24,0           | 14             | 8  | 2,5 | 14,9           | M 10x1   | 25        | 8,1            |
| DS-SGE 8-ML  | 8                   | L 500       | 17             | 22             | 19             | 29             | 14,5           | 14,0           | 30,0           | 17             | 12 | 3,0 | 16,9           | M 12x1,5 | 50        | 13,8           |
| DS-SGE 10-ML | 10                  | L 500       | 19             | 22             | 19             | 30             | 15,5           | 14,0           | 30,0           | 19             | 12 | 3,0 | 18,9           | M 14x1,5 | 60        | 15,3           |
| DS-SGE 12-ML | 12                  | L 400       | 22             | 27             | 24             | 33             | 18,0           | 16,5           | 36,0           | 21             | 12 | 3,0 | 21,9           | M 16x1,5 | 90        | 23,7           |
| DS-SGE 15-ML | 15                  | L 400       | 27             | 30             | 27             | 36             | 20,5           | 18,5           | 39,5           | 23             | 12 | 3,0 | 23,9           | M 18x1,5 | 110       | 34,3           |
| DS-SGE 18-ML | 18                  | L 400       | 32             | 32             | 30             | 37             | 21,0           | 21,5           | 45,0           | 27             | 14 | 4,5 | 26,9           | M 22x1,5 | 150       | 46,3           |
| DS-SGE 22-ML | 22                  | L 250       | 36             | 41             | 36             | 44             | 27,5           | 24,0           | 53,0           | 31             | 16 | 3,5 | 31,9           | M 26x1,5 | 350       | 76,0           |
| DS-SGE 28-ML | 28                  | L 250       | 41             | 50             | 46             | 49             | 32,0           | 30,5           | 66,0           | 39             | 18 | 3,5 | 39,9           | M 33x2   | 400       | 122,9          |
| DS-SGE 35-ML | 35                  | L 250       | 50             | 60             | 55             | 58             | 36,0           | 35,5           | 76,0           | 49             | 20 | 3,5 | 49,9           | M 42x2   | 600       | 206,0          |
| DS-SGE 42-ML | 42                  | L 250       | 60             | 70             | 60             | 63             | 40,5           | 40,5           | 87,0           | 55             | 22 | 3,5 | 55,9           | M 48x2   | 800       | 303,0          |
| DS-SGE 6-MS  | 6                   | S 500       | 17             | 22             | 19             | 31             | 16,5           | 14,0           | 30,0           | 17             | 12 | 3,0 | 16,9           | M 12x1,5 | 50        | 14,8           |
| DS-SGE 8-MS  | 8                   | S 500       | 19             | 22             | 19             | 31             | 16,5           | 14,0           | 30,0           | 19             | 12 | 3,0 | 18,9           | M 14x1,5 | 60        | 16,6           |
| DS-SGE 10-MS | 10                  | S 500       | 22             | 27             | 24             | 35             | 18,5           | 16,5           | 36,0           | 21             | 12 | 3,0 | 21,9           | M 16x1,5 | 90        | 26,2           |
| DS-SGE 12-MS | 12                  | S 500       | 24             | 30             | 27             | 36             | 20,0           | 18,5           | 39,5           | 23             | 12 | 3,0 | 23,9           | M 18x1,5 | 110       | 33,1           |
| DS-SGE 14-MS | 14                  | S 500       | 27             | 32             | 30             | 40             | 22,5           | 20,0           | 43,5           | 25             | 14 | 3,0 | -              | M 20x1,5 | 130       | (37,4)         |
| DS-SGE 16-MS | 16                  | S 500       | 30             | 32             | 30             | 40             | 22,0           | 21,5           | 45,0           | 27             | 14 | 4,5 | 26,9           | M 22x1,5 | 150       | 48,7           |
| DS-SGE 20-MS | 20                  | S 400       | 36             | 41             | 36             | 48             | 26,5           | 24,0           | 53,0           | 32             | 16 | 3,5 | 32,9           | M 27x2   | 350       | 83,7           |
| DS-SGE 25-MS | 25                  | S 400       | 46             | 50             | 46             | 56             | 31,5           | 30,5           | 66,0           | 39             | 18 | 3,5 | 39,9           | M 33x2   | 400       | 152,6          |
| DS-SGE 30-MS | 30                  | S 400       | 50             | 60             | 55             | 64             | 37,0           | 35,5           | 76,0           | 49             | 20 | 3,5 | 49,9           | M 42x2   | 600       | 229,9          |
| DS-SGE 38-MS | 38                  | S 400       | 60             | 70             | 60             | 72             | 41,5           | 40,5           | 87,0           | 55             | 22 | 3,5 | 55,9           | M 48x2   | 800       | 341,2          |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwnym jest stal

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ZŁĄCZA

### ZŁĄCZE BANJO

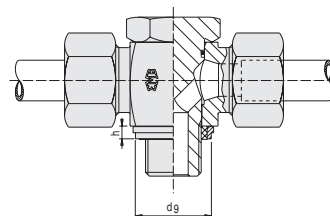
#### SGE T ZŁĄCZE ZE ŚRUBĄ OBROTOWĄ WYS. CIŚNIENIE

### SGE T ZŁĄCZE ZE ŚRUBĄ OBROTOWĄ WYS. CIŚNIENIE METRYCZNE EDE

Walcowy metryczny.

Pierścień uszczelniający EDE.

O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis             | Śr.<br>zew.<br>rury | Seria<br>PB | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | L <sub>2</sub> | l <sub>2</sub> | l <sub>3</sub> | L <sub>3</sub> | d <sub>3</sub> | i  | h   | d <sub>9</sub> | G        | MA*<br>Nm | kg /<br>100pcs |
|------------------|---------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|-----|----------------|----------|-----------|----------------|
| DS-SGE 6-ML/EDE  | 6                   | L 500       | 14             | 17             | 17             | 27             | 12,0           | 10,5           | 24,0           | 14             | 8  | 2,5 | 14,9           | M 10x1   | 25        | 8,1            |
| DS-SGE 8-ML/EDE  | 8                   | L 500       | 17             | 22             | 19             | 29             | 14,5           | 14,0           | 30,0           | 17             | 12 | 3,0 | 16,9           | M 12x1,5 | 50        | 14,0           |
| DS-SGE 10-ML/EDE | 10                  | L 500       | 19             | 22             | 19             | 30             | 15,5           | 14,0           | 30,0           | 19             | 12 | 3,0 | 18,9           | M 14x1,5 | 60        | 15,4           |
| DS-SGE 12-ML/EDE | 12                  | L 400       | 22             | 27             | 24             | 33             | 18,0           | 16,5           | 36,0           | 21             | 12 | 3,0 | 21,9           | M 16x1,5 | 90        | 24,0           |
| DS-SGE 15-ML/EDE | 15                  | L 400       | 27             | 30             | 27             | 36             | 20,5           | 18,5           | 39,5           | 23             | 12 | 3,0 | 23,9           | M 18x1,5 | 110       | 34,7           |
| DS-SGE 18-ML/EDE | 18                  | L 400       | 32             | 32             | 30             | 37             | 21,0           | 21,5           | 45,0           | 27             | 14 | 4,5 | 26,9           | M 22x1,5 | 150       | 46,8           |
| DS-SGE 22-ML/EDE | 22                  | L 250       | 36             | 41             | 36             | 44             | 27,5           | 24,0           | 53,0           | 31             | 16 | 3,5 | 31,9           | M 26x1,5 | 350       | 77,2           |
| DS-SGE 28-ML/EDE | 28                  | L 250       | 41             | 50             | 46             | 49             | 32,0           | 30,5           | 66,0           | 39             | 18 | 3,5 | 39,9           | M 33x2   | 400       | 123,8          |
| DS-SGE 35-ML/EDE | 35                  | L 250       | 50             | 60             | 55             | 58             | 36,0           | 35,5           | 76,0           | 49             | 20 | 3,5 | 49,9           | M 42x2   | 600       | 207,4          |
| DS-SGE 42-ML/EDE | 42                  | L 250       | 60             | 70             | 60             | 63             | 40,5           | 40,5           | 87,0           | 55             | 22 | 3,5 | 55,9           | M 48x2   | 800       | 304,8          |
| DS-SGE 6-MS/EDE  | 6                   | S 500       | 17             | 22             | 19             | 31             | 16,5           | 14,0           | 30,0           | 17             | 12 | 3,0 | 16,9           | M 12x1,5 | 50        | 15,1           |
| DS-SGE 8-MS/EDE  | 8                   | S 500       | 19             | 22             | 19             | 31             | 16,5           | 14,0           | 30,0           | 19             | 12 | 3,0 | 18,9           | M 14x1,5 | 60        | 16,8           |
| DS-SGE 10-MS/EDE | 10                  | S 500       | 22             | 27             | 24             | 35             | 18,5           | 16,5           | 36,0           | 21             | 12 | 3,0 | 21,9           | M 16x1,5 | 90        | 26,5           |
| DS-SGE 12-MS/EDE | 12                  | S 500       | 24             | 30             | 27             | 36             | 20,0           | 18,5           | 39,5           | 23             | 12 | 3,0 | 23,9           | M 18x1,5 | 110       | 33,5           |
| DS-SGE 16-MS/EDE | 16                  | S 500       | 30             | 32             | 30             | 40             | 22,0           | 21,5           | 45,0           | 27             | 14 | 4,5 | 26,9           | M 22x1,5 | 150       | 49,2           |
| DS-SGE 20-MS/EDE | 20                  | S 400       | 36             | 41             | 36             | 48             | 26,5           | 24,0           | 53,0           | 32             | 16 | 3,5 | 32,9           | M 27x2   | 350       | 84,8           |
| DS-SGE 25-MS/EDE | 25                  | S 400       | 46             | 50             | 46             | 56             | 31,5           | 30,5           | 66,0           | 39             | 18 | 3,5 | 39,9           | M 33x2   | 400       | 153,5          |
| DS-SGE 30-MS/EDE | 30                  | S 400       | 50             | 60             | 55             | 64             | 37,0           | 35,5           | 76,0           | 49             | 20 | 3,5 | 49,9           | M 42x2   | 600       | 231,3          |
| DS-SGE 38-MS/EDE | 38                  | S 400       | 60             | 70             | 60             | 72             | 41,5           | 40,5           | 87,0           | 55             | 22 | 3,5 | 55,9           | M 48x2   | 800       | 343,0          |

*L<sub>2</sub> = przybliżona długość z dokręconą nakrętką*

*\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwnym jest stal*

*Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.*

## ZŁĄCZA ZŁĄCZA NASTAWNE

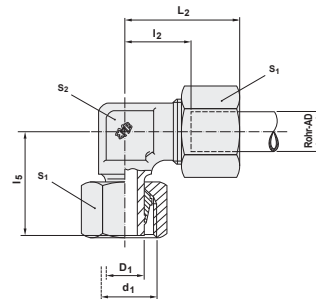
ŚWIAT ZŁĄCZY RUROWYCH

### VB NASTAWNE ZŁĄCZE KOLANOWE

Bez śruby prostej w złączu śrubowym.

Te elementy są gotowe do montażu,  
nie są wstępnie zamontowane.

Po dokręceniu ręcznym, zamocować kluczem  
do pierwszego oporu, a potem przekręcić  
jeszcze o 30°.



| opis       | Śr.<br>zew.<br>rury | Nr produktu<br>seria | L <sub>2</sub> | l <sub>2</sub> | l <sub>5</sub> | D <sub>1</sub> | d <sub>1</sub> | S <sub>1</sub> | S <sub>2</sub> | kg %<br>pc |
|------------|---------------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------|
| DS-VB 6-L  | 6                   | L 500 (2200)         | 27             | 12,0           | 26,0           | 6              | M 12x1,5       | 14             | 12             | 3,6        |
| DS-VB 8-L  | 8                   | L 500 (2200)         | 29             | 14,0           | 27,5           | 8              | M 14x1,5       | 17             | 12             | 5,0        |
| DS-VB 10-L | 10                  | L 500 (2200)         | 30             | 15,0           | 29,0           | 10             | M 16x1,5       | 19             | 14             | 6,8        |
| DS-VB 12-L | 12                  | L 400 (1700)         | 32             | 17,0           | 29,5           | 12             | M 18x1,5       | 22             | 17             | 9,0        |
| DS-VB 15-L | 15                  | L 400 (1700)         | 36             | 21,0           | 32,5           | 15             | M 22x1,5       | 27             | 19             | 15,3       |
| DS-VB 18-L | 18                  | L 400 (1700)         | 40             | 23,5           | 35,5           | 18             | M 26x1,5       | 32             | 24             | 22,6       |
| DS-VB 22-L | 22                  | L 250 (1100)         | 44             | 27,5           | 38,5           | 22             | M 30x2         | 36             | 27             | 30,4       |
| DS-VB 28-L | 28                  | L 250 (1100)         | 47             | 30,5           | 41,5           | 28             | M 36x2         | 41             | 36             | 42,5       |
| DS-VB 35-L | 35                  | L 250 (1100)         | 56             | 34,5           | 51,0           | 35             | M 45x2         | 50             | 41             | 64,7       |
| DS-VB 42-L | 42                  | L 250 (1100)         | 63             | 40,0           | 56,0           | 42             | M 52x2         | 60             | 50             | 99,7       |
| DS-VB 6-S  | 6                   | S 800 (3400)         | 31             | 16,0           | 27,0           | 6              | M 14x1,5       | 17             | 12             | 5,7        |
| DS-VB 8-S  | 8                   | S 800 (3400)         | 32             | 17,0           | 27,5           | 8              | M 16x1,5       | 19             | 14             | 7,0        |
| DS-VB 10-S | 10                  | S 800 (3400)         | 34             | 17,5           | 30,0           | 10             | M 18x1,5       | 22             | 17             | 11,1       |
| DS-VB 12-S | 12                  | S 630 (2700)         | 38             | 21,5           | 31,0           | 12             | M 20x1,5       | 24             | 17             | 13,8       |
| DS-VB 14-S | 14                  | S 630 (2700)         | 40             | 22,0           | 35,0           | 14             | M 22x1,5       | 27             | 19             | 18,9       |
| DS-VB 16-S | 16                  | S 630 (2700)         | 43             | 24,5           | 36,5           | 16             | M 24x1,5       | 30             | 24             | 23,8       |
| DS-VB 20-S | 20                  | S 400 (1700)         | 48             | 26,5           | 44,5           | 20             | M 30x2         | 36             | 27             | 36,2       |
| DS-VB 25-S | 25                  | S 400 (1700)         | 54             | 30,0           | 50,0           | 25             | M 36x2         | 46             | 36             | 72,1       |
| DS-VB 30-S | 30                  | S 400 (1700)         | 62             | 35,5           | 55,0           | 30             | M 42x2         | 50             | 41             | 96,4       |
| DS-VB 38-S | 38                  | S 400 (1700)         | 72             | 41,0           | 63,0           | 38             | M 52x2         | 60             | 50             | 138,4      |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

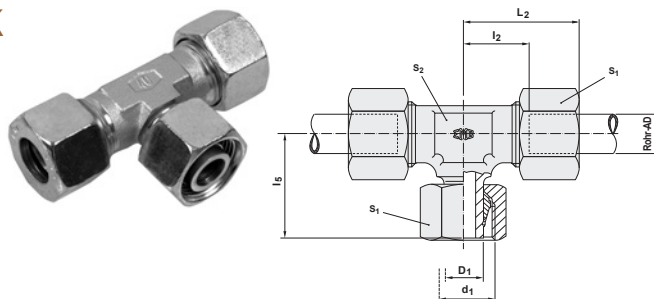
## ZŁĄCZA ZŁĄCZA NASTAWNE

### VC REGULOWANY TRÓJNIK

Bez śruby prostej w złączy śrubowym.

Te elementy są gotowe do montażu, nie są wstępnie zamontowane.

Po dokręceniu ręcznym, zamocować kluczem do pierwszego oporu, a potem przekręcić jeszcze o 30°.



| opis       | Śr. zew. rury | Nr produktu seria | L <sub>2</sub> | l <sub>2</sub> | l <sub>5</sub> | D <sub>1</sub> | d <sub>1</sub> | S <sub>1</sub> | S <sub>2</sub> | kg % pc |
|------------|---------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------|
| DS-VC 6-L  | 6             | L 500 (2200)      | 27             | 12,0           | 26,0           | 6              | M 12x1,5       | 14             | 12             | 5,3     |
| DS-VC 8-L  | 8             | L 500 (2200)      | 29             | 14,0           | 27,5           | 8              | M 14x1,5       | 17             | 12             | 7,4     |
| DS-VC 10-L | 10            | L 500 (2200)      | 30             | 15,0           | 29,0           | 10             | M 16x1,5       | 19             | 14             | 10,3    |
| DS-VC 12-L | 12            | L 400 (1700)      | 32             | 17,0           | 29,5           | 12             | M 18x1,5       | 22             | 17             | 12,9    |
| DS-VC 15-L | 15            | L 400 (1700)      | 36             | 21,0           | 32,5           | 15             | M 22x1,5       | 27             | 19             | 21,8    |
| DS-VC 18-L | 18            | L 400 (1700)      | 40             | 23,5           | 35,5           | 18             | M 26x1,5       | 32             | 24             | 32,4    |
| DS-VC 22-L | 22            | L 250 (1100)      | 44             | 27,5           | 38,5           | 22             | M 30x2         | 36             | 27             | 43,3    |
| DS-VC 28-L | 28            | L 250 (1100)      | 47             | 30,5           | 41,5           | 28             | M 36x2         | 41             | 36             | 57,9    |
| DS-VC 35-L | 35            | L 250 (1100)      | 56             | 34,5           | 51,0           | 35             | M 45x2         | 50             | 41             | 90,1    |
| DS-VC 42-L | 42            | L 250 (1100)      | 63             | 40,0           | 56,0           | 42             | M 52x2         | 60             | 50             | 135,3   |
| DS-VC 6-S  | 6             | S 800 (3400)      | 31             | 16,0           | 27,0           | 6              | M 14x1,5       | 17             | 12             | 8,5     |
| DS-VC 8-S  | 8             | S 800 (3400)      | 32             | 17,0           | 27,5           | 8              | M 16x1,5       | 19             | 14             | 10,7    |
| DS-VC 10-S | 10            | S 800 (3400)      | 34             | 17,5           | 30,0           | 10             | M 18x1,5       | 22             | 17             | 16,5    |
| DS-VC 12-S | 12            | S 630 (2700)      | 38             | 21,5           | 31,0           | 12             | M 20x1,5       | 24             | 17             | 20,4    |
| DS-VC 14-S | 14            | S 630 (2700)      | 40             | 22,0           | 35,0           | 14             | M 22x1,5       | 27             | 19             | 27,5    |
| DS-VC 16-S | 16            | S 630 (2700)      | 43             | 24,5           | 36,5           | 16             | M 24x1,5       | 30             | 24             | 35,6    |
| DS-VC 20-S | 20            | S 400 (1700)      | 48             | 26,5           | 44,5           | 20             | M 30x2         | 36             | 27             | 53,6    |
| DS-VC 25-S | 25            | S 400 (1700)      | 54             | 30,0           | 50,0           | 25             | M 36x2         | 46             | 36             | 104,2   |
| DS-VC 30-S | 30            | S 400 (1700)      | 62             | 35,5           | 55,0           | 30             | M 42x2         | 50             | 41             | 133,3   |
| DS-VC 38-S | 38            | S 400 (1700)      | 72             | 41,0           | 63,0           | 38             | M 52x2         | 60             | 50             | 204,7   |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.



## ZŁĄCZA ZŁĄCZA NASTAWNE

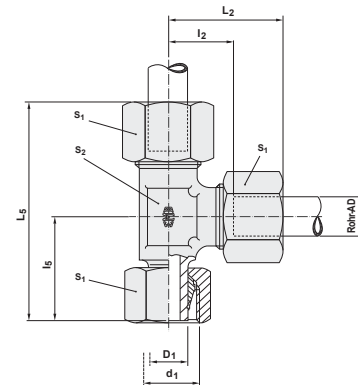
ŚWIAT ZŁĄCZY RUROWYCH

### VD NASTAWNY TRÓJNIK BARYŁKOWY

Bez śruby prostej w złączu śrubowym.

Te elementy są gotowe do montażu,  
nie są wstępnie zamontowane.

Po dokręceniu ręcznym, zamocować  
kluczem do pierwszego oporu, a potem  
przekręcić jeszcze o 30°.



| opis       | Śr. zew.<br>rury | Nr produktu<br>seria | L <sub>2</sub> | l <sub>2</sub> | l <sub>5</sub> | L <sub>5</sub> | D <sub>1</sub> | d <sub>1</sub> | S <sub>1</sub> | S <sub>2</sub> | kg %<br>pc |
|------------|------------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------|
| DS-VD 6-L  | 6                | L 500 (2200)         | 27             | 12,0           | 26,0           | 53             | 6              | M 12x1,5       | 14             | 12             | 5,2        |
| DS-VD 8-L  | 8                | L 500 (2200)         | 29             | 14,0           | 27,5           | 56             | 8              | M 14x1,5       | 17             | 12             | 7,8        |
| DS-VD 10-L | 10               | L 500 (2200)         | 30             | 15,0           | 29,0           | 59             | 10             | M 16x1,5       | 19             | 14             | 10,5       |
| DS-VD 12-L | 12               | L 400 (1700)         | 32             | 17,0           | 29,5           | 62             | 12             | M 18x1,5       | 22             | 17             | 12,6       |
| DS-VD 15-L | 15               | L 400 (1700)         | 36             | 21,0           | 32,5           | 70             | 15             | M 22x1,5       | 27             | 19             | 21,8       |
| DS-VD 18-L | 18               | L 400 (1700)         | 40             | 23,5           | 35,5           | 76             | 18             | M 26x1,5       | 32             | 24             | 32,9       |
| DS-VD 22-L | 22               | L 250 (1100)         | 44             | 27,5           | 38,5           | 83             | 22             | M 30x2         | 36             | 27             | 43,3       |
| DS-VD 28-L | 28               | L 250 (1100)         | 47             | 30,5           | 41,5           | 91             | 28             | M 36x2         | 41             | 36             | 55,8       |
| DS-VD 35-L | 35               | L 250 (1100)         | 56             | 34,5           | 51,0           | 111            | 35             | M 45x2         | 50             | 41             | 89,1       |
| DS-VD 42-L | 42               | L 250 (1100)         | 63             | 40,0           | 56,0           | 123            | 42             | M 52x2         | 60             | 50             | 132,8      |
| DS-VD 6-S  | 6                | S 800 (3400)         | 31             | 16,0           | 27,0           | 58             | 6              | M 14x1,5       | 17             | 12             | 8,7        |
| DS-VD 8-S  | 8                | S 800 (3400)         | 32             | 17,0           | 27,5           | 61             | 8              | M 16x1,5       | 19             | 14             | 10,7       |
| DS-VD 10-S | 10               | S 800 (3400)         | 34             | 17,5           | 30,0           | 66             | 10             | M 18x1,5       | 22             | 17             | 16,6       |
| DS-VD 12-S | 12               | S 630 (2700)         | 38             | 21,5           | 31,0           | 71             | 12             | M 20x1,5       | 24             | 17             | 20,4       |
| DS-VD 14-S | 14               | S 630 (2700)         | 40             | 22,0           | 35,0           | 76             | 14             | M 22x1,5       | 27             | 19             | 27,1       |
| DS-VD 16-S | 16               | S 630 (2700)         | 43             | 24,5           | 36,5           | 80             | 16             | M 24x1,5       | 30             | 24             | 33,7       |
| DS-VD 20-S | 20               | S 400 (1700)         | 48             | 26,5           | 44,5           | 93             | 20             | M 30x2         | 36             | 27             | 54,2       |
| DS-VD 25-S | 25               | S 400 (1700)         | 54             | 30,0           | 50,0           | 105            | 25             | M 36x2         | 46             | 36             | 102,6      |
| DS-VD 30-S | 30               | S 400 (1700)         | 62             | 35,5           | 55,0           | 119            | 30             | M 42x2         | 50             | 41             | 132,5      |
| DS-VD 38-S | 38               | S 400 (1700)         | 72             | 41,0           | 63,0           | 139            | 38             | M 52x2         | 60             | 50             | 195,0      |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

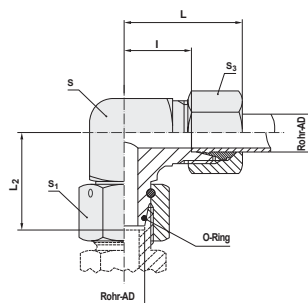
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ZŁĄCZA ZŁĄCZA NASTAWNE

### VBDKO NASTAWNE ZŁĄCZE KOLANOWE

Z gwintem stożkowym i O-ringiem wg DIN 3865.

O-ring NBR (np. Perbunan), FPM (np. Viton)  
na zamówienie.



| opis          | Śr.<br>zew.<br>rury | Nr produktu<br>seria | L <sub>2</sub> | L  | I    | S  | S <sub>1</sub> | S <sub>3</sub> | kg %<br>pc | O-ring   |
|---------------|---------------------|----------------------|----------------|----|------|----|----------------|----------------|------------|----------|
| DS-VBDKO 6-L  | 6                   | L 500 (2200)         | 26,0           | 27 | 12,0 | 12 | 17             | 14             | 4,0        | 4x1,5    |
| DS-VBDKO 8-L  | 8                   | L 500 (2200)         | 27,5           | 29 | 14,0 | 12 | 17             | 17             | 5,5        | 6x1,5    |
| DS-VBDKO 10-L | 10                  | L 500 (2200)         | 29,0           | 30 | 15,0 | 14 | 19             | 19             | 7,1        | 7,5x1,5  |
| DS-VBDKO 12-L | 12                  | L 400 (1700)         | 29,5           | 32 | 17,0 | 17 | 22             | 22             | 9,6        | 9x1,5    |
| DS-VBDKO 15-L | 15                  | L 400 (1700)         | 32,5           | 36 | 21,0 | 19 | 27             | 27             | 16,6       | 12x2     |
| DS-VBDKO 18-L | 18                  | L 400 (1700)         | 35,5           | 40 | 23,5 | 24 | 32             | 32             | 23,6       | 15x2     |
| DS-VBDKO 22-L | 22                  | L 250 (1100)         | 38,5           | 44 | 27,5 | 27 | 36             | 36             | 32,7       | 20x2     |
| DS-VBDKO 28-L | 28                  | L 250 (1100)         | 41,5           | 47 | 30,5 | 36 | 41             | 41             | 52,4       | 26x2     |
| DS-VBDKO 35-L | 35                  | L 250 (1100)         | 51,0           | 56 | 34,5 | 41 | 50             | 50             | 68,8       | 32x2,5   |
| DS-VBDKO 42-L | 42                  | L 250 (1100)         | 56,0           | 63 | 40,0 | 50 | 60             | 60             | 108,0      | 38x2,5   |
| DS-VBDKO 6-S  | 6                   | S 800 (3400)         | 27,0           | 31 | 16,0 | 14 | 17             | 17             | 6,2        | 4x1,5    |
| DS-VBDKO 8-S  | 8                   | S 800 (3400)         | 27,5           | 32 | 17,0 | 17 | 19             | 19             | 7,4        | 6x1,5    |
| DS-VBDKO 10-S | 10                  | S 800 (3400)         | 30,0           | 34 | 17,5 | 19 | 22             | 22             | 11,3       | 7,5x1,5  |
| DS-VBDKO 12-S | 12                  | S 630 (2700)         | 31,0           | 38 | 21,5 | 22 | 24             | 24             | 14,0       | 9x1,5    |
| DS-VBDKO 14-S | 14                  | S 630 (2700)         | 35,0           | 40 | 22,0 | 19 | 27             | 27             | 19,3       | 10x2     |
| DS-VBDKO 16-S | 16                  | S 630 (2700)         | 36,5           | 43 | 24,5 | 24 | 30             | 30             | 25,8       | 12x2     |
| DS-VBDKO 20-S | 20                  | S 400 (1700)         | 44,5           | 48 | 26,5 | 27 | 36             | 36             | 40,3       | 16,3x2,4 |
| DS-VBDKO 25-S | 25                  | S 400 (1700)         | 50,0           | 54 | 30,0 | 36 | 46             | 46             | 75,1       | 20,3x2,4 |
| DS-VBDKO 30-S | 30                  | S 400 (1700)         | 55,0           | 62 | 35,5 | 41 | 50             | 50             | 96,4       | 25,3x2,4 |
| DS-VBDKO 38-S | 38                  | S 400 (1700)         | 63,0           | 72 | 41,0 | 50 | 60             | 60             | 142,5      | 33,3x2,4 |

L = przybliżona długość z dokręconą nakrętką

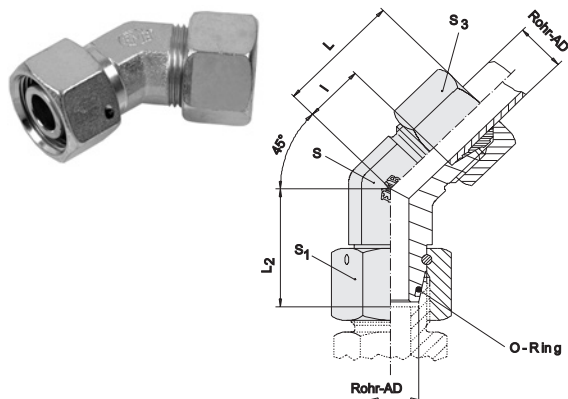
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ZŁĄCZA ZŁĄCZA NASTAWNE

ŚWIAT ZŁĄCZY RUROWYCH

### BFDKO NASTAWNE 45° ELBOW

O-ring NBR (np. Perbunan), FPM (np. Viton)  
na zamówienie.



| opis          | Śr.<br>zew.<br>rury | Nr produktu<br>seria | L <sub>2</sub> | L  | I  | S  | S <sub>1</sub> | S <sub>3</sub> | kg %<br>pc | O-ring   |
|---------------|---------------------|----------------------|----------------|----|----|----|----------------|----------------|------------|----------|
| DS-BFDKO 6-L  | 6                   | L 500                | 26,0           | 24 | 9  | 14 | 17             | 14             | 4,3        | 4,5x1,5  |
| DS-BFDKO 8-L  | 8                   | L 500                | 27,5           | 27 | 12 | 14 | 17             | 17             | 5,7        | 6,5x1,5  |
| DS-BFDKO 10-L | 10                  | L 500                | 29,0           | 27 | 12 | 19 | 19             | 19             | 7,3        | 8x1,5    |
| DS-BFDKO 12-L | 12                  | L 400                | 29,5           | 28 | 14 | 19 | 22             | 22             | 10,0       | 10x1,5   |
| DS-BFDKO 15-L | 15                  | L 400                | 32,5           | 32 | 17 | 22 | 27             | 27             | 16,8       | 12x2     |
| DS-BFDKO 18-L | 18                  | L 400                | 35,5           | 33 | 17 | 27 | 32             | 32             | 24,1       | 15x2     |
| DS-BFDKO 22-L | 22                  | L 250                | 38,5           | 35 | 19 | 30 | 36             | 36             | 33,0       | 20x2     |
| DS-BFDKO 28-L | 28                  | L 250                | 41,5           | 40 | 23 | 36 | 41             | 41             | 49,3       | 26x2     |
| DS-BFDKO 35-L | 35                  | L 250                | 51,0           | 48 | 27 | 50 | 50             | 50             | 69,0       | 32x2,5   |
| DS-BFDKO 42-L | 42                  | L 250                | 56,0           | 49 | 26 | 50 | 60             | 60             | 108,1      | 38x2,5   |
| DS-BFDKO 6-S  | 6                   | S 800                | 27,0           | 24 | 9  | 14 | 17             | 17             | 6,4        | 4,5x1,5  |
| DS-BFDKO 8-S  | 8                   | S 800                | 27,5           | 27 | 12 | 19 | 19             | 19             | 8,4        | 6,5x1,5  |
| DS-BFDKO 10-S | 10                  | S 800                | 30,0           | 29 | 13 | 19 | 22             | 22             | 11,5       | 8x1,5    |
| DS-BFDKO 12-S | 12                  | S 630                | 31,0           | 33 | 17 | 19 | 24             | 24             | 14,2       | 10x1,5   |
| DS-BFDKO 16-S | 16                  | S 630                | 36,5           | 34 | 16 | 19 | 30             | 30             | 26,0       | 13x2     |
| DS-BFDKO 20-S | 20                  | S 400                | 44,5           | 38 | 16 | 27 | 36             | 36             | 40,6       | 16,3x2,4 |
| DS-BFDKO 25-S | 25                  | S 400                | 50,0           | 43 | 19 | 36 | 46             | 46             | 74,7       | 20,3x2,4 |
| DS-BFDKO 30-S | 30                  | S 400                | 55,0           | 50 | 24 | 50 | 50             | 50             | 95,7       | 25,3x2,4 |
| DS-BFDKO 38-S | 38                  | S 400                | 63,0           | 52 | 21 | 50 | 60             | 60             | 142,9      | 33,3x2,4 |

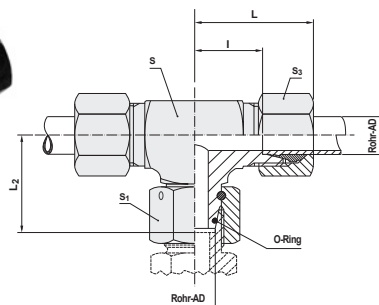
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ZŁĄCZA ZŁĄCZA NASTAWNE

### VCDKO NASTAWNY TRÓJNIK SYMETRYCZNY

Z gwintem stożkowym i O-ringiem wg DIN 3865.

O-ring NBR (np. Perbunan), FPM (np. Viton)  
na zamówienie.



| opis          | Śr.zew.<br>rury | Nr produktu<br>seria | L <sub>2</sub> | L  | I    | S (A) | S (B) | S <sub>1</sub> | S <sub>2</sub> | kg /<br>100pcs | O-ring   |
|---------------|-----------------|----------------------|----------------|----|------|-------|-------|----------------|----------------|----------------|----------|
| DS-VCDKO 6-L  | 6               | L 500 (2200)         | 26,0           | 27 | 12,0 | 12    | 12    | 17             | 14             | 5,8            | 4x1,5    |
| DS-VCDKO 8-L  | 8               | L 500 (2200)         | 27,5           | 29 | 14,0 | 14    | 12    | 17             | 17             | 7,9            | 6x1,5    |
| DS-VCDKO 10-L | 10              | L 500 (2200)         | 29,0           | 30 | 15,0 | 17    | 14    | 19             | 19             | 10,1           | 7,5x1,5  |
| DS-VCDKO 12-L | 12              | L 400 (1700)         | 29,5           | 32 | 17,0 | 19    | 17    | 22             | 22             | 13,5           | 9x1,5    |
| DS-VCDKO 15-L | 15              | L 400 (1700)         | 32,5           | 36 | 21,0 |       | 19    | 27             | 27             | 23,3           | 12x2     |
| DS-VCDKO 18-L | 18              | L 400 (1700)         | 35,5           | 40 | 23,5 |       | 24    | 32             | 32             | 33,2           | 15x2     |
| DS-VCDKO 22-L | 22              | L 250 (1100)         | 38,5           | 44 | 27,5 |       | 27    | 36             | 36             | 44,6           | 20x2     |
| DS-VCDKO 28-L | 28              | L 250 (1100)         | 41,5           | 47 | 30,5 |       | 36    | 41             | 41             | 70,2           | 26x2     |
| DS-VCDKO 35-L | 35              | L 250 (1100)         | 51,0           | 56 | 34,5 |       | 41    | 50             | 50             | 96,1           | 32x2,5   |
| DS-VCDKO 42-L | 42              | L 250 (1100)         | 56,0           | 63 | 40,0 |       | 50    | 60             | 60             | 146,1          | 38x2,5   |
| DS-VCDKO 6-S  | 6               | S 800 (3400)         | 27,0           | 31 | 16,0 |       | 14    | 17             | 17             | 8,7            | 4x1,5    |
| DS-VCDKO 8-S  | 8               | S 800 (3400)         | 27,5           | 32 | 17,0 |       | 17    | 19             | 19             | 11,8           | 6x1,5    |
| DS-VCDKO 10-S | 10              | S 800 (3400)         | 30,0           | 34 | 17,5 |       | 19    | 22             | 22             | 16,3           | 7,5x1,5  |
| DS-VCDKO 12-S | 12              | S 630 (2700)         | 31,0           | 38 | 21,5 |       | 22    | 24             | 24             | 20,6           | 9x1,5    |
| DS-VCDKO 14-S | 14              | S 630 (2700)         | 35,0           | 40 | 22,0 |       | 19    | 27             | 27             | 28,1           | 10x2     |
| DS-VCDKO 16-S | 16              | S 630 (2700)         | 36,5           | 43 | 24,5 |       | 24    | 30             | 30             | 37,3           | 12x2     |
| DS-VCDKO 20-S | 20              | S 400 (1700)         | 44,5           | 48 | 26,5 |       | 27    | 36             | 36             | 56,8           | 16,3x2,4 |
| DS-VCDKO 25-S | 25              | S 400 (1700)         | 50,0           | 54 | 30,0 |       | 36    | 46             | 46             | 107,9          | 20,3x2,4 |
| DS-VCDKO 30-S | 30              | S 400 (1700)         | 55,0           | 62 | 35,5 |       | 41    | 50             | 50             | 136,3          | 25,3x2,4 |
| DS-VCDKO 38-S | 38              | S 400 (1700)         | 63,0           | 72 | 41,0 |       | 50    | 60             | 60             | 203,6          | 33,3x2,4 |

L = przybliżona długość z dokręconą nakrętką

Śr.zew. rury 6-42 = odkuwka

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

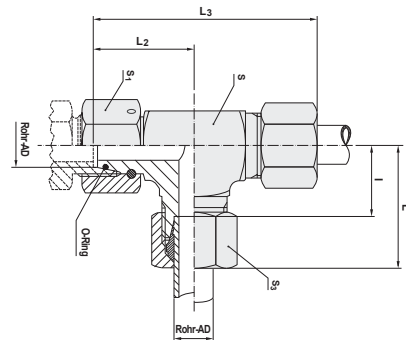
## ZŁĄCZA ZŁĄCZA NASTAWNE

ŚWIAT ZŁĄCZY RUROWYCH

### VDDKO NASTAWNY TRÓJNIK BARYŁKOWY Z GWINTEM ZEWN.

Z gwintem stożkowym i O-ringiem wg DIN 3865.

O-ring NBR (np. Perbunan),  
FPM (np. Viton) na zamówienie.



| opis          | Śr.zew. rury | Nr produktu seria | L <sub>2</sub> | L  | I    | S (A) | S (B) | S <sub>1</sub> | S <sub>3</sub> | L <sub>3</sub> | kg % pc | O-ring   |
|---------------|--------------|-------------------|----------------|----|------|-------|-------|----------------|----------------|----------------|---------|----------|
| DS-VDDKO 6-L  | 6            | L 500 (2200)      | 26,0           | 27 | 12,0 | 12    | 12    | 17             | 14             | 53             | 5,8     | 4x1,5    |
| DS-VDDKO 8-L  | 8            | L 500 (2200)      | 27,5           | 29 | 14,0 | 14    | 12    | 17             | 17             | 56             | 7,9     | 6x1,5    |
| DS-VDDKO 10-L | 10           | L 500 (2200)      | 29,0           | 30 | 15,0 | 17    | 14    | 19             | 19             | 59             | 10,0    | 7,5x1,5  |
| DS-VDDKO 12-L | 12           | L 400 (1700)      | 29,5           | 32 | 17,0 | 19    | 17    | 22             | 22             | 62             | 13,4    | 9x1,5    |
| DS-VDDKO 15-L | 15           | L 400 (1700)      | 32,5           | 36 | 21,0 |       | 19    | 27             | 27             | 70             | 23,3    | 12x2     |
| DS-VDDKO 18-L | 18           | L 400 (1700)      | 35,5           | 40 | 23,5 |       | 24    | 32             | 32             | 76             | 33,2    | 15x2     |
| DS-VDDKO 22-L | 22           | L 250 (1100)      | 38,5           | 44 | 27,5 |       | 27    | 36             | 36             | 83             | 44,3    | 20x2     |
| DS-VDDKO 28-L | 28           | L 250 (1100)      | 41,5           | 47 | 30,5 |       | 36    | 41             | 41             | 91             | 70,2    | 26x2     |
| DS-VDDKO 35-L | 35           | L 250 (1100)      | 51,0           | 56 | 34,5 |       | 41    | 50             | 50             | 111            | 94,5    | 32x2,5   |
| DS-VDDKO 42-L | 42           | L 250 (1100)      | 56,0           | 63 | 40,0 |       | 50    | 60             | 60             | 123            | 146,3   | 38x2,5   |
| DS-VDDKO 6-S  | 6            | S 800 (3400)      | 27,0           | 31 | 16,0 |       | 14    | 17             | 17             | 58             | 9,1     | 4x1,5    |
| DS-VDDKO 8-S  | 8            | S 800 (3400)      | 27,5           | 32 | 17,0 |       | 17    | 19             | 19             | 61             | 11,8    | 6x1,5    |
| DS-VDDKO 10-S | 10           | S 800 (3400)      | 30,0           | 34 | 17,5 |       | 19    | 22             | 22             | 66             | 16,4    | 7,5x1,5  |
| DS-VDDKO 12-S | 12           | S 630 (2700)      | 31,0           | 38 | 21,5 |       | 22    | 24             | 24             | 71             | 20,7    | 9x1,5    |
| DS-VDDKO 14-S | 14           | S 630 (2700)      | 35,0           | 40 | 22,0 |       | 19    | 27             | 27             | 76             | 28,1    | 10x2     |
| DS-VDDKO 16-S | 16           | S 630 (2700)      | 36,5           | 43 | 24,5 |       | 24    | 30             | 30             | 80             | 38,2    | 12x2     |
| DS-VDDKO 20-S | 20           | S 400 (1700)      | 44,5           | 48 | 26,5 |       | 27    | 36             | 36             | 93             | 58,3    | 16,3x2,4 |
| DS-VDDKO 25-S | 25           | S 400 (1700)      | 50,0           | 54 | 30,0 |       | 36    | 46             | 46             | 105            | 107,8   | 20,3x2,4 |
| DS-VDDKO 30-S | 30           | S 400 (1700)      | 55,0           | 62 | 35,5 |       | 41    | 50             | 50             | 119            | 138,0   | 25,3x2,4 |
| DS-VDDKO 38-S | 38           | S 400 (1700)      | 63,0           | 72 | 41,0 |       | 50    | 60             | 60             | 139            | 205,1   | 33,3x2,4 |

$L+L_3$  = przybliżona długość z dokręconą nakrętką

Śr.zew. rury 6-42 = odkuwka

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ZŁĄCZA ZŁĄCZE PROSTE VA ZŁĄCZE RUROWE PROSTE

### VA ZŁĄCZE RUROWE PROSTE BSP

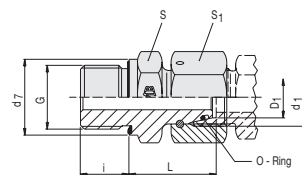
Te elementy są gotowe do montażu, nie są wstępnie zamontowane.

Po dokręceniu ręcznym, zamocować kluczem do pierwszego oporu, a potem przekręcić jeszcze o 30°.

BSP gwint walc. ze złączem rurowym.

Montaż końcowy wg DIN 3955.

Uszczelnienie zintegrowane NBR (np. Perbunan),  
FPM (np. Viton) na zamówienie.



| opis                 | Śr. zew.<br>rury | Nr produktu<br>seria | l <sub>5</sub> | d <sub>7</sub> | D <sub>1</sub> | i  | S <sub>1</sub> | S  | d <sub>1</sub> | G          | kg /<br>100pcs |
|----------------------|------------------|----------------------|----------------|----------------|----------------|----|----------------|----|----------------|------------|----------------|
| DS-VA 6-RL/WD        | 6                | L 500 (2200)         | 24,5           | 14             | 6              | 8  | 14             | 14 | M 12x1,5       | G 1/8" A   | 2,5            |
| DS-VA 8-RL/WD        | 8                | L 500 (2200)         | 29,5           | 19             | 8              | 12 | 17             | 19 | M 14x1,5       | G 1/4" A   | 4,5            |
| DS-VA 10-RL/WD       | 10               | L 500 (2200)         | 27,5           | 19             | 10             | 12 | 19             | 19 | M 16x1,5       | G 1/4" A   | 4,7            |
| DS-VA 12-RL/WD       | 12               | L 400 (1700)         | 34,0           | 22             | 12             | 12 | 22             | 22 | M 18x1,5       | G 3/8" A   | 6,3            |
| DS-VA 15-RL/WD       | 15               | L 400 (1700)         | 32,0           | 27             | 15             | 14 | 27             | 27 | M 22x1,5       | G 1/2" A   | 11,5           |
| DS-VA 18-RL/WD       | 18               | L 400 (1700)         | 31,5           | 27             | 18             | 14 | 32             | 27 | M 26x1,5       | G 1/2" A   | 12,9           |
| DS-VA 22-RL/WD       | 22               | L 250 (1100)         | 32,5           | 32             | 22             | 16 | 36             | 32 | M 30x2         | G 3/4" A   | 17,6           |
| DS-VA 28-RL/WD       | 28               | L 250 (1100)         | 35,0           | 40             | 28             | 18 | 41             | 41 | M 36x2         | G 1" A     | 24,7           |
| DS-VA 35-RL/WD       | 35               | L 250 (1100)         | 42,5           | 50             | 35             | 20 | 50             | 50 | M 45x2         | G 1 1/4" A | 40,7           |
| DS-VA 42-RL/WD       | 42               | L 250 (1100)         | 46,5           | 55             | 42             | 22 | 60             | 55 | M 52x2         | G 1 1/2" A | 45,6           |
| DS-VA 6-RS/WD        | 6                | S 800 (3400)         | 27,0           | 19             | 6              | 12 | 17             | 19 | M 14x1,5       | G 1/4" A   | 5,0            |
| DS-VA 8-RS/WD        | 8                | S 800 (3400)         | 29,5           | 19             | 8              | 12 | 19             | 19 | M 16x1,5       | G 1/4" A   | 5,5            |
| DS-VA 10-RS/WD       | 10               | S 800 (3400)         | 32,0           | 22             | 10             | 12 | 22             | 22 | M 18x1,5       | G 3/8" A   | 8,2            |
| DS-VA 12-RS/WD       | 12               | S 630 (2700)         | 34,0           | 22             | 12             | 12 | 24             | 22 | M 20x1,5       | G 3/8" A   | 9,5            |
| DS-VA 12-S/R 1/2"/WD | 12               | S 630 (2700)         | 33,5           | 27             | 12             | 14 | 24             | 27 | M 20x1,5       | G 1/2" A   | 11,8           |
| DS-VA 14-RS/WD       | 14               | S 630 (2700)         | 36,5           | 27             | 14             | 14 | 27             | 27 | M 22x1,5       | G 1/2" A   | 14,8           |
| DS-VA 16-RS/WD       | 16               | S 630 (2700)         | 37,0           | 27             | 16             | 14 | 30             | 27 | M 24x1,5       | G 1/2" A   | 15,4           |
| DS-VA 16-S/R 3/4"/WD | 16               | S 400 (1700)         | 39,0           | 32             | 16             | 16 | 30             | 32 | M 24x1,5       | G 3/4" A   | 20,0           |
| DS-VA 20-RS/WD       | 20               | S 400 (1700)         | 43,0           | 32             | 20             | 16 | 36             | 32 | M 30x2         | G 3/4" A   | 25,3           |
| DS-VA 25-RS/WD       | 25               | S 400 (1700)         | 48,0           | 40             | 25             | 18 | 46             | 41 | M 36x2         | G 1" A     | 46,5           |
| DS-VA 30-RS/WD       | 30               | S 400 (1700)         | 51,0           | 50             | 30             | 20 | 50             | 50 | M 42x2         | G 1 1/4" A | 64,4           |
| DS-VA 38-RS/WD       | 38               | S 400 (1700)         | 60,0           | 55             | 38             | 22 | 60             | 55 | M 52x2         | G 1 1/2" A | 88,9           |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

# ZŁĄCZA ZŁĄCZE PROSTE VA ZŁĄCZE RUROWE PROSTE

ŚWIAT ZŁĄCZY RUROWYCH

## VA ZŁĄCZE RUROWE PROSTE METRYCZNE

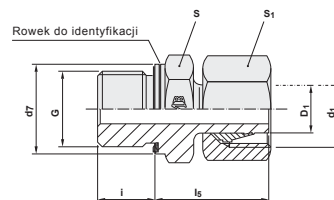
Te elementy są gotowe do montażu, nie są wstępnie zamontowane.

Po dokręceniu ręcznym, zamocować kluczem do pierwszego oporu, a potem przekręcić jeszcze o 30°.

Walcowy metryczny ze złączką rurową.

Montaż końcowy wg DIN 3955.

Uszczelnienie zintegrowane NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis           | Śr. zew. rury | Nr produktu seria | $I_5$ | $d_7$ | $D_1$ | $i$ | $S_1$ | $S$ | $d_1$    | $G$      | kg / 100pcs |
|----------------|---------------|-------------------|-------|-------|-------|-----|-------|-----|----------|----------|-------------|
| DS-VA 6-ML/WD  | 6             | L 500 (2200)      | 24,5  | 14    | 6     | 8   | 14    | 14  | M 12x1,5 | M 10x1   | 2,5         |
| DS-VA 8-ML/WD  | 8             | L 500 (2200)      | 26,5  | 17    | 8     | 12  | 17    | 17  | M 14x1,5 | M 12x1,5 | 4,0         |
| DS-VA 10-ML/WD | 10            | L 500 (2200)      | 27,5  | 19    | 10    | 12  | 19    | 19  | M 16x1,5 | M 14x1,5 | 4,7         |
| DS-VA 12-ML/WD | 12            | L 400 (1700)      | 30,5  | 22    | 12    | 12  | 22    | 22  | M 18x1,5 | M 16x1,5 | 6,3         |
| DS-VA 15-ML/WD | 15            | L 400 (1700)      | 31,5  | 24    | 15    | 12  | 27    | 24  | M 22x1,5 | M 18x1,5 | 9,5         |
| DS-VA 18-ML/WD | 18            | L 400 (1700)      | 31,5  | 27    | 18    | 14  | 32    | 27  | M 26x1,5 | M 22x1,5 | 12,9        |
| DS-VA 22-ML/WD | 22            | L 250 (1100)      | 32,5  | 32    | 22    | 16  | 36    | 32  | M 30x2   | M 26x1,5 | 17,6        |
| DS-VA 28-ML/WD | 28            | L 250 (1100)      | 35,0  | 40    | 28    | 18  | 41    | 41  | M 36x2   | M 33x2   | 24,7        |
| DS-VA 35-ML/WD | 35            | L 250 (1100)      | 42,5  | 50    | 35    | 20  | 50    | 50  | M 45x2   | M 42x2   | 40,7        |
| DS-VA 42-ML/WD | 42            | L 250 (1100)      | 46,5  | 55    | 42    | 22  | 60    | 55  | M 52x2   | M 48x2   | 45,6        |
| DS-VA 6-MS/WD  | 6             | S 800 (3400)      | 27,0  | 17    | 6     | 12  | 17    | 17  | M 14x1,5 | M 12x1,5 | 4,5         |
| DS-VA 8-MS/WD  | 8             | S 800 (3400)      | 29,5  | 19    | 8     | 12  | 19    | 19  | M 16x1,5 | M 14x1,5 | 5,5         |
| DS-VA 10-MS/WD | 10            | S 800 (3400)      | 32,0  | 22    | 10    | 12  | 22    | 22  | M 18x1,5 | M 16x1,5 | 8,2         |
| DS-VA 12-MS/WD | 12            | S 630 (2700)      | 34,0  | 24    | 12    | 12  | 24    | 24  | M 20x1,5 | M 18x1,5 | 10,5        |
| DS-VA 14-MS/WD | 14            | S 630 (2700)      | 36,5  | 26    | 14    | 14  | 27    | 27  | M 22x1,5 | M 20x1,5 | 14,8        |
| DS-VA 16-MS/WD | 16            | S 630 (2700)      | 37,0  | 27    | 16    | 14  | 30    | 27  | M 24x1,5 | M 22x1,5 | 15,4        |
| DS-VA 20-MS/WD | 20            | S 400 (1700)      | 43,0  | 32    | 20    | 16  | 36    | 32  | M 30x2   | M 27x2   | 25,3        |
| DS-VA 25-MS/WD | 25            | S 400 (1700)      | 48,0  | 40    | 25    | 18  | 46    | 41  | M 36x2   | M 33x2   | 46,5        |
| DS-VA 30-MS/WD | 30            | S 400 (1700)      | 51,0  | 50    | 30    | 20  | 50    | 50  | M 42x2   | M 42x2   | 64,4        |
| DS-VA 38-MS/WD | 38            | S 400 (1700)      | 60,0  | 55    | 38    | 22  | 60    | 55  | M 52x2   | M 48x2   | 88,9        |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

# ZŁĄCZA

## ZŁĄCZE PROSTE

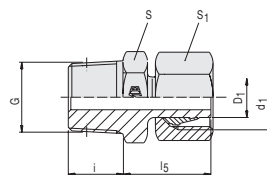
### VA ZŁĄCZE RUROWE PROSTE

#### VA ZŁĄCZE RUROWE PROSTE NPT

Te elementy są gotowe do montażu, nie są wstępnie zamontowane.

Po dokręceniu ręcznym, zamocować kluczem do pierwszego oporu, a potem przekręcić jeszcze o 30°.

NPT (ANSI, ASME B1-20.1, 1983).



| opis           | Śr. zew. rury | Nr produktu seria | $l_5$ | $D_1$ | $i$  | $S_1$ | $S$ | $d_1$    | $G$        | kg % pc |
|----------------|---------------|-------------------|-------|-------|------|-------|-----|----------|------------|---------|
| DS-VA 6-L/NPT  | 6             | L 315 (1260)      | 24,0  | 6     | 10,0 | 14    | 11  | M 12x1,5 | 1/8" NPT   | 2,6     |
| DS-VA 8-L/NPT  | 8             | L 315 (1260)      | 27,5  | 8     | 15,0 | 17    | 14  | M 14x1,5 | 1/4" NPT   | 4,1     |
| DS-VA 10-L/NPT | 10            | L 315 (1260)      | 25,5  | 10    | 15,0 | 19    | 14  | M 16x1,5 | 1/4" NPT   | 4,8     |
| DS-VA 12-L/NPT | 12            | L 315 (1260)      | 31,5  | 12    | 15,0 | 22    | 19  | M 18x1,5 | 3/8" NPT   | 6,5     |
| DS-VA 15-L/NPT | 15            | L 315 (1260)      | 29,0  | 15    | 20,0 | 27    | 22  | M 22x1,5 | 1/2" NPT   | 11,0    |
| DS-VA 18-L/NPT | 18            | L 315 (1260)      | 28,5  | 18    | 20,0 | 32    | 22  | M 26x1,5 | 1/2" NPT   | 13,5    |
| DS-VA 22-L/NPT | 22            | L 160 (640)       | 29,5  | 22    | 20,0 | 36    | 27  | M 30x2   | 3/4" NPT   | 19,0    |
| DS-VA 28-L/NPT | 28            | L 160 (640)       | 32,0  | 28    | 25,0 | 41    | 36  | M 36x2   | 1" NPT     | 27,4    |
| DS-VA 35-L/NPT | 35            | L 160 (640)       | 39,5  | 35    | 25,5 | 50    | 46  | M 45x2   | 1 1/4" NPT | 40,5    |
| DS-VA 42-L/NPT | 42            | L 160 (640)       | 43,5  | 42    | 26,0 | 60    | 50  | M 52x2   | 1 1/2" NPT | 57,5    |
| DS-VA 6-S/NPT  | 6             | S 630 (2520)      | 25,0  | 6     | 15,0 | 17    | 14  | M 14x1,5 | 1/4" NPT   | 5,0     |
| DS-VA 8-S/NPT  | 8             | S 630 (2520)      | 27,5  | 8     | 15,0 | 19    | 14  | M 16x1,5 | 1/4" NPT   | 5,5     |
| DS-VA 10-S/NPT | 10            | S 630 (2520)      | 29,5  | 10    | 15,0 | 22    | 19  | M 18x1,5 | 3/8" NPT   | 8,0     |
| DS-VA 12-S/NPT | 12            | S 630 (2520)      | 31,5  | 12    | 15,0 | 24    | 19  | M 20x1,5 | 3/8" NPT   | 10,0    |
| DS-VA 14-S/NPT | 14            | S 630 (2520)      | 33,5  | 14    | 20,0 | 27    | 22  | M 22x1,5 | 1/2" NPT   | 14,9    |
| DS-VA 16-S/NPT | 16            | S 630 (2520)      | 34,0  | 16    | 20,0 | 30    | 22  | M 24x1,5 | 1/2" NPT   | 16,4    |
| DS-VA 20-S/NPT | 20            | S 400 (1600)      | 40,0  | 20    | 20,0 | 36    | 27  | M 30x2   | 3/4" NPT   | 25,0    |
| DS-VA 25-S/NPT | 25            | S 400 (1600)      | 45,0  | 25    | 25,0 | 46    | 36  | M 36x2   | 1" NPT     | 47,0    |
| DS-VA 30-S/NPT | 30            | S 400 (1600)      | 48,0  | 30    | 25,5 | 50    | 46  | M 42x2   | 1 1/4" NPT | 61,9    |
| DS-VA 38-S/NPT | 38            | S 400 (1600)      | 56,5  | 38    | 26,0 | 60    | 50  | M 52x2   | 1 1/2" NPT | 88,9    |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.



## ZŁĄCZA ZŁĄCZE PROSTE VADKO KRÓCIEC REDUKCYJNY ZŁĄCZA RUROWEGO

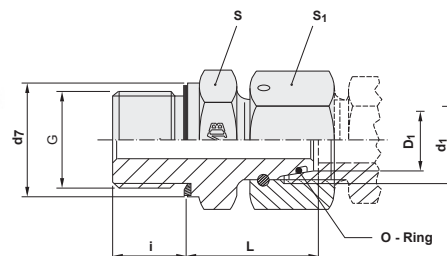
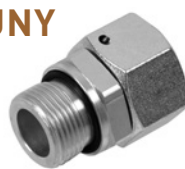
ŚWIAT ZŁĄCZY RUROWYCH

### VADKO KRÓCIEC REDUKCYJNY ZŁĄCZA RUROWEGO BSP

BSP gwint walc.

Z gwintem stożkowym i O-ringiem wg DIN 3865.

Uszczelnienie zintegrowane NBR (np. Perbunan),  
FPM (np. Viton) na zamówienie.



| opis                 | Śr. zew. rury | Nr produktu seria | L    | i  | d <sub>7</sub> | G          | D <sub>1</sub> | d <sub>1</sub> | S  | S <sub>1</sub> | kg / 100pcs | O-ring   |
|----------------------|---------------|-------------------|------|----|----------------|------------|----------------|----------------|----|----------------|-------------|----------|
| VADKO 6-RL/WD        | 6             | L 500 [2200]      | 24,5 | 8  | 14             | G 1/8" A   | 6              | M 12x1,5       | 14 | 17             | 2,4         | 4x1,5    |
| VADKO 8-RL/WD        | 8             | L 500 [2200]      | 29,5 | 12 | 19             | G 1/4" A   | 8              | M 14x1,5       | 19 | 17             | 4,4         | 6x1,5    |
| VADKO 10-RL/WD       | 10            | L 500 [2200]      | 27,5 | 12 | 19             | G 1/4" A   | 10             | M 16x1,5       | 19 | 19             | 4,7         | 7,5x1,5  |
| VADKO 12-RL/R1/4"/WD | 12            | L 400 [1700]      | 27,5 | 12 | 19             | G 1/4" A   | 12             | M 18x1,5       | 19 | 22             | 6,8         | 9x1,5    |
| VADKO 12-RL/WD       | 12            | L 400 [1700]      | 34,0 | 12 | 22             | G 3/8" A   | 12             | M 18x1,5       | 22 | 22             | 6,9         | 9x1,5    |
| VADKO 15-RL/WD       | 15            | L 400 [1700]      | 32,0 | 14 | 27             | G 1/2" A   | 15             | M 22x1,5       | 27 | 27             | 12,1        | 12x2     |
| VADKO 18-RL/WD       | 18            | L 400 [1700]      | 31,5 | 14 | 27             | G 1/2" A   | 18             | M 26x1,5       | 27 | 32             | 13,4        | 15x2     |
| VADKO 22-RL/WD       | 22            | L 250 [1100]      | 32,5 | 16 | 32             | G 3/4" A   | 22             | M 30x2         | 32 | 36             | 19,6        | 20x2     |
| VADKO 28-RL/WD       | 28            | L 250 [1100]      | 35,0 | 18 | 40             | G 1" A     | 28             | M 36x2         | 41 | 41             | 36,0        | 26x2     |
| VADKO 35-RL/WD       | 35            | L 250 [1100]      | 42,5 | 20 | 50             | G 1 1/4" A | 35             | M 45x2         | 50 | 50             | 45,5        | 32x2,5   |
| VADKO 42-RL/WD       | 42            | L 250 [1100]      | 46,5 | 22 | 55             | G 1 1/2" A | 42             | M 52x2         | 55 | 60             | 66,2        | 38x2,5   |
| VADKO 6-RS/WD        | 6             | S 800 [3400]      | 27,0 | 12 | 19             | G 1/4" A   | 6              | M 14x1,5       | 19 | 17             | 4,5         | 4x1,5    |
| VADKO 8-RS/WD        | 8             | S 800 [3400]      | 29,5 | 12 | 19             | G 1/4" A   | 8              | M 16x1,5       | 19 | 19             | 5,0         | 6x1,5    |
| VADKO 10-RS/WD       | 10            | S 800 [3400]      | 32,0 | 12 | 22             | G 3/8" A   | 10             | M 18x1,5       | 22 | 22             | 7,4         | 7,5x1,5  |
| VADKO 12-RS/WD       | 12            | S 630 [2700]      | 34,0 | 12 | 22             | G 3/8" A   | 12             | M 20x1,5       | 22 | 24             | 8,2         | 9x1,5    |
| VADKO 12-S/R1/2"/WD  | 12            | S 630 [2700]      | 34,5 | 14 | 27             | G 1/2" A   | 12             | M 20x1,5       | 27 | 24             | 15,3        | 9x1,5    |
| VADKO 14-RS/WD       | 14            | S 630 [2700]      | 36,5 | 14 | 27             | G 1/2" A   | 14             | M 22x1,5       | 27 | 27             | 12,6        | 10x2     |
| VADKO 16-RS/WD       | 16            | S 630 [2700]      | 37,0 | 14 | 27             | G 1/2" A   | 16             | M 24x1,5       | 27 | 30             | 14,6        | 12x2     |
| VADKO 20-RS/WD       | 20            | S 400 [1700]      | 43,0 | 16 | 32             | G 3/4" A   | 20             | M 30x2         | 32 | 36             | 22,1        | 16,3x2,4 |
| VADKO 25-RS/WD       | 25            | S 400 [1700]      | 48,0 | 18 | 40             | G 1" A     | 25             | M 36x2         | 41 | 46             | 40,2        | 20,3x2,4 |
| VADKO 30-RS/WD       | 30            | S 400 [1700]      | 51,0 | 20 | 50             | G 1 1/4" A | 30             | M 42x2         | 50 | 50             | 58,2        | 25,3x2,4 |
| VADKO 38-RS/WD       | 38            | S 400 [1700]      | 60,0 | 22 | 55             | G 1 1/2" A | 38             | M 52x2         | 55 | 60             | 78,6        | 33,3x2,4 |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

# ZŁĄCZA

## ZŁĄCZE PROSTE

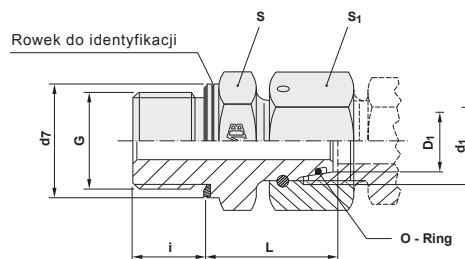
### VADKO KRÓCIEC REDUKCYJNY ZŁĄCZA RUROWEGO

## VADKO KRÓCIEC REDUKCYJNY ZŁĄCZA RUROWEGO METRYCZNE

Walcowy metryczny.

Z gwintem stożkowym i O-ringiem  
wg DIN 3865.

Uszczelnienie zintegrowane NBR (np. Perbunan),  
FPM (np. Viton) na zamówienie.



| opis           | Śr.<br>zew.<br>rury | Nr produktu<br>seria | L    | i  | d <sub>7</sub> | G        | D <sub>1</sub> | d <sub>1</sub> | S  | S <sub>1</sub> | kg /<br>100pcs | O-ring   |
|----------------|---------------------|----------------------|------|----|----------------|----------|----------------|----------------|----|----------------|----------------|----------|
| VADKO 6-ML/WD  | 6                   | L 500 (2200)         | 24,5 | 8  | 14             | M 10x1   | 6              | M 12x1,5       | 14 | 17             | 2,3            | 4 x1,5   |
| VADKO 8-ML/WD  | 8                   | L 500 (2200)         | 26,5 | 12 | 17             | M 12x1,5 | 8              | M 14x1,5       | 17 | 17             | 3,8            | 6 x1,5   |
| VADKO 10-ML/WD | 10                  | L 500 (2200)         | 27,5 | 12 | 19             | M 14x1,5 | 10             | M 16x1,5       | 19 | 19             | 4,8            | 7,5x1,5  |
| VADKO 12-ML/WD | 12                  | L 400 (1700)         | 30,5 | 12 | 22             | M 16x1,5 | 12             | M 18x1,5       | 22 | 22             | 6,7            | 9 x1,5   |
| VADKO 15-ML/WD | 15                  | L 400 (1700)         | 31,5 | 12 | 24             | M 18x1,5 | 15             | M 22x1,5       | 24 | 27             | 10,1           | 12x2     |
| VADKO 18-ML/WD | 18                  | L 400 (1700)         | 31,5 | 14 | 27             | M 22x1,5 | 18             | M 26x1,5       | 27 | 32             | 13,8           | 15x2     |
| VADKO 22-ML/WD | 22                  | L 250 (1100)         | 32,5 | 16 | 32             | M 26x1,5 | 22             | M 30x2         | 32 | 36             | 19,9           | 20x2     |
| VADKO 28-ML/WD | 28                  | L 250 (1100)         | 35,0 | 18 | 40             | M 33x2   | 28             | M 36x2         | 41 | 41             | 35,8           | 26x2     |
| VADKO 35-ML/WD | 35                  | L 250 (1100)         | 42,5 | 20 | 50             | M 42x2   | 35             | M 45x2         | 50 | 50             | 45,0           | 32x2,5   |
| VADKO 42-ML/WD | 42                  | L 250 (1100)         | 46,5 | 22 | 55             | M 48x2   | 42             | M 52x2         | 55 | 60             | 70,8           | 38x2,5   |
| VADKO 6-MS/WD  | 6                   | S 800 (3400)         | 27,0 | 12 | 17             | M 12x1,5 | 6              | M 14x1,5       | 17 | 17             | 4,0            | 4x1,5    |
| VADKO 8-MS/WD  | 8                   | S 800 (3400)         | 29,5 | 12 | 19             | M 14x1,5 | 8              | M 16x1,5       | 19 | 19             | 5,1            | 6x1,5    |
| VADKO 10-MS/WD | 10                  | S 800 (3400)         | 32,0 | 12 | 22             | M 16x1,5 | 10             | M 18x1,5       | 22 | 22             | 7,1            | 7,5x1,5  |
| VADKO 12-MS/WD | 12                  | S 630 (2700)         | 34,0 | 12 | 24             | M 18x1,5 | 12             | M 20x1,5       | 24 | 24             | 8,9            | 9x1,5    |
| VADKO 14-MS/WD | 14                  | S 630 (2700)         | 36,5 | 14 | 26             | M 20x1,5 | 14             | M 22x1,5       | 27 | 27             | 12,1           | 10x2     |
| VADKO 16-MS/WD | 16                  | S 630 (2700)         | 37,0 | 14 | 27             | M 22x1,5 | 16             | M 24x1,5       | 27 | 30             | 14,8           | 12x2     |
| VADKO 20-MS/WD | 20                  | S 400 (1700)         | 43,0 | 16 | 32             | M 27x2   | 20             | M 30x2         | 32 | 36             | 22,3           | 16,3x2,4 |
| VADKO 25-MS/WD | 25                  | S 400 (1700)         | 48,0 | 18 | 40             | M 33x2   | 25             | M 36x2         | 41 | 46             | 40,0           | 20,3x2,4 |
| VADKO 30-MS/WD | 30                  | S 400 (1700)         | 51,0 | 20 | 50             | M 42x2   | 30             | M 42x2         | 50 | 50             | 58,3           | 25,3x2,4 |
| VADKO 38-MS/WD | 38                  | S 400 (1700)         | 60,0 | 22 | 55             | M 48x2   | 38             | M 52x2         | 55 | 60             | 78,2           | 33,3x2,4 |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

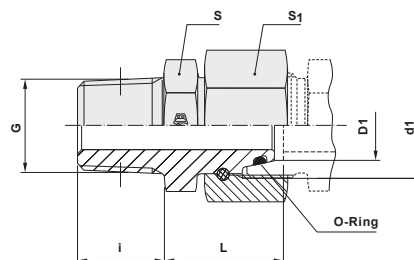
# ZŁĄCZA ZŁĄCZE PROSTE VADKO KRÓCIEC REDUKCYJNY ZŁĄCZA RUROWEGO

ŚWIAT ZŁĄCZY RUROWYCH

## VADKO KRÓCIEC REDUKCYJNY ZŁĄCZA RUROWEGO NPT

NPT (ANSI, ASME B1-20.1, 1983).

Z gwintem stożkowym i O-ringiem wg DIN 3865.



| opis           | Śr.<br>zew.<br>rury | Nr produktu<br>seria | L    | i    | G         | D <sub>1</sub> | d <sub>1</sub> | S  | S <sub>1</sub> | kg /<br>100pcs | O-ring   |
|----------------|---------------------|----------------------|------|------|-----------|----------------|----------------|----|----------------|----------------|----------|
| VADKO 6-L/NPT  | 6                   | L 315 (1260)         | 20,5 | 10,0 | 1/8"NPT   | 6              | M 12x1,5       | 11 | 17             | 2,3            | 4x1,5    |
| VADKO 8-L/NPT  | 8                   | L 315 (1260)         | 22,5 | 15,0 | 1/4"NPT   | 8              | M 14x1,5       | 14 | 17             | 4,1            | 6x1,5    |
| VADKO 10-L/NPT | 10                  | L 315 (1260)         | 23,0 | 15,0 | 1/4"NPT   | 10             | M 16x1,5       | 14 | 19             | 4,4            | 7,5x1,5  |
| VADKO 12-L/NPT | 12                  | L 315 (1260)         | 24,7 | 15,3 | 3/8"NPT   | 12             | M 18x1,5       | 19 | 22             | 6,9            | 9x1,5    |
| VADKO 15-L/NPT | 15                  | L 315 (1260)         | 29,5 | 20,0 | 1/2"NPT   | 15             | M 22x1,5       | 22 | 27             | 12,7           | 2x2      |
| VADKO 18-L/NPT | 18                  | L 315 (1260)         | 29,0 | 20,0 | 1/2"NPT   | 18             | M 26x1,5       | 24 | 32             | 14,2           | 15x2     |
| VADKO 22-L/NPT | 22                  | L 160 (640)          | 32,0 | 20,0 | 3/4"NPT   | 22             | M 30x2         | 27 | 36             | 20,0           | 20x2     |
| VADKO 28-L/NPT | 28                  | L 160 (640)          | 36,0 | 25,0 | 1" NPT    | 28             | M 36x2         | 36 | 41             | 30,6           | 26x2     |
| VADKO 35-L/NPT | 35                  | L 160 (640)          | 40,0 | 25,5 | 1 1/4"NPT | 35             | M 45x2         | 46 | 50             | 48,6           | 32x2,5   |
| VADKO 42-L/NPT | 42                  | L 160 (640)          | 42,5 | 26,0 | 1 1/2"NPT | 42             | M 52x2         | 50 | 60             | 66,2           | 38x2,5   |
| VADKO 6-S/NPT  | 6                   | S 630 (2520)         | 22,5 | 15,0 | 1/4"NPT   | 6              | M 14x1,5       | 14 | 17             | 4,2            | 4x1,5    |
| VADKO 8-S/NPT  | 8                   | S 630 (2520)         | 23,0 | 15,0 | 1/4"NPT   | 8              | M 16x1,5       | 14 | 19             | 4,7            | 6x1,5    |
| VADKO 10-S/NPT | 10                  | S 630 (2520)         | 25,2 | 15,3 | 3/8"NPT   | 10             | M 18x1,5       | 19 | 22             | 7,5            | 7,5x1,5  |
| VADKO 12-S/NPT | 12                  | S 630 (2520)         | 26,7 | 15,3 | 3/8"NPT   | 12             | M 20x1,5       | 19 | 24             | 8,1            | 9x1,5    |
| VADKO 14-S/NPT | 14                  | S 630 (2520)         | 30,5 | 20,0 | 1/2"NPT   | 14             | M 22x1,5       | 22 | 27             | 13,1           | 10x2     |
| VADKO 16-S/NPT | 16                  | S 630 (2520)         | 31,0 | 20,0 | 1/2"NPT   | 16             | M 24x1,5       | 22 | 30             | 14,5           | 12x2     |
| VADKO 20-S/NPT | 20                  | S 400 (1600)         | 34,0 | 20,0 | 3/4"NPT   | 20             | M 30x2         | 27 | 36             | 22,1           | 16,3x2,4 |
| VADKO 25-S/NPT | 25                  | S 400 (1600)         | 38,5 | 25,0 | 1" NPT    | 25             | M 36x2         | 36 | 46             | 42,2           | 20,3x2,4 |
| VADKO 30-S/NPT | 30                  | S 400 (1600)         | 45,0 | 25,5 | 1 1/4"NPT | 30             | M 42x2         | 46 | 50             | 62,8           | 25,3x2,4 |
| VADKO 38-S/NPT | 38                  | S 400 (1600)         | 47,5 | 26,0 | 1 1/2"NPT | 38             | M 52x2         | 50 | 60             | 77,0           | 33,3x2,4 |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne – Wybór właściwego złącza rurowego”.

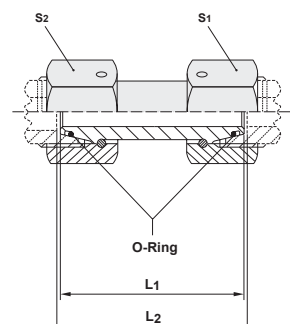
## ZŁĄCZA

### ZŁĄCZE PROSTE I REDUKCJA

#### EDKO ZŁĄCZE PROSTE GWINT STOŻK.

Gwint stożkowy na obu końcach i O-ring zgodny wg DIN 3865.

O-ring NBR (np. Perbunan), zgodnie z FPM (np. Viton) na zamówienie.



| opis      | Śr.zew. rury | Nr produktu<br>seria | L <sub>1</sub> | L <sub>2</sub> | S <sub>1</sub> | O-ring   |
|-----------|--------------|----------------------|----------------|----------------|----------------|----------|
| EDKO 6-L  | 6            | L 500 (2200)         | 33,0           | 36,0           | 17             | 4x1,5    |
| EDKO 8-L  | 8            | L 500 (2200)         | 33,0           | 36,0           | 17             | 6x1,5    |
| EDKO 10-L | 10           | L 500 (2200)         | 35,0           | 37,0           | 19             | 7,5x1,5  |
| EDKO 12-L | 12           | L 400 (1700)         | 35,0           | 37,0           | 22             | 9x1,5    |
| EDKO 15-L | 15           | L 400 (1700)         | 38,0           | 40,0           | 27             | 12x2     |
| EDKO 18-L | 18           | L 400 (1700)         | 39,5           | 42,5           | 32             | 15x2     |
| EDKO 22-L | 22           | L 250 (1100)         | 44,0           | 47,0           | 36             | 20x2     |
| EDKO 28-L | 28           | L 250 (1100)         | 46,0           | 49,0           | 41             | 26x2     |
| EDKO 35-L | 35           | L 250 (1100)         | 52,0           | 58,0           | 50             | 32x2,5   |
| EDKO 42-L | 42           | L 250 (1100)         | 52,0           | 59,0           | 60             | 38x2,5   |
| EDKO 6-S  | 6            | S 800 (3400)         | 36,0           | 39,0           | 17             | 4x1,5    |
| EDKO 8-S  | 8            | S 800 (3400)         | 36,0           | 39,0           | 19             | 6x1,5    |
| EDKO 10-S | 10           | S 800 (3400)         | 40,0           | 43,0           | 22             | 7,5x1,5  |
| EDKO 12-S | 12           | S 630 (2700)         | 41,0           | 44,0           | 24             | 9x1,5    |
| EDKO 14-S | 14           | S 630 (2700)         | 44,0           | 48,0           | 27             | 10x2     |
| EDKO 16-S | 16           | S 630 (2700)         | 45,0           | 50,0           | 30             | 12x2     |
| EDKO 20-S | 20           | S 400 (1700)         | 54,0           | 60,0           | 36             | 16,3x2,4 |
| EDKO 25-S | 25           | S 400 (1700)         | 59,0           | 66,0           | 46             | 20,3x2,4 |
| EDKO 30-S | 30           | S 400 (1700)         | 63,0           | 73,0           | 50             | 25,3x2,4 |
| EDKO 38-S | 38           | S 400 (1700)         | 68,0           | 83,0           | 60             | 33,3x2,4 |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

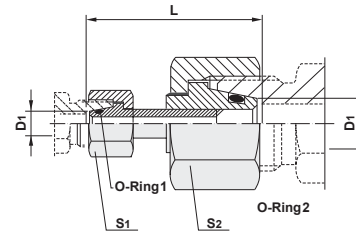
## ZŁĄCZA ZŁĄCZE PROSTE I REDUKCJA

ŚWIAT ZŁĄCZY RUROWYCH

### EDKOR ZŁĄCZE REDUKCYJNE PROSTE, GWINT STOŻK.

Gwint stożkowy na obu końcach i O-ring zgodny wg DIN 3865.

O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis          | PB  | rura D <sub>1</sub> | rura D <sub>2</sub> | L<br>(± 2 mm) | S <sub>1</sub> | S <sub>2</sub> | O-Ring 1 | O-Ring 2 |
|---------------|-----|---------------------|---------------------|---------------|----------------|----------------|----------|----------|
| EDKOR 6L/6S   | 500 | 6L                  | 6S                  | 35,0          | 14             | 17             | 4x1,5    | 4x1,5    |
| EDKOR 6L/8L   | 500 | 6L                  | 8L                  | 34,0          | 14             | 17             | 4x1,5    | 6x1,5    |
| EDKOR 6L/8S   | 500 | 6L                  | 8S                  | 37,0          | 14             | 19             | 4x1,5    | 6x1,5    |
| EDKOR 6L/10L  | 500 | 6L                  | 10L                 | 34,0          | 14             | 19             | 4x1,5    | 7,5x1,5  |
| EDKOR 6L/10S  | 500 | 6L                  | 10S                 | 35,0          | 14             | 22             | 4x1,5    | 7,5x1,5  |
| EDKOR 8L/8S   | 500 | 8L                  | 8S                  | 37,0          | 17             | 19             | 6x1,5    | 6x1,5    |
| EDKOR 8L/10L  | 500 | 8L                  | 10L                 | 34,0          | 17             | 19             | 6x1,5    | 7,5x1,5  |
| EDKOR 8L/10S  | 500 | 8L                  | 10S                 | 35,0          | 17             | 22             | 6x1,5    | 7,5x1,5  |
| EDKOR 8L/12L  | 500 | 8L                  | 12L                 | 34,0          | 17             | 22             | 6x1,5    | 9x1,5    |
| EDKOR 8L/12S  | 500 | 8L                  | 12S                 | 35,0          | 17             | 24             | 6x1,5    | 9x1,5    |
| EDKOR 10S/10L | 500 | 10S                 | 10L                 | 37,0          | 22             | 19             | 7,5x1,5  | 7,5x1,5  |
| EDKOR 10L/12L | 500 | 10L                 | 12L                 | 36,0          | 19             | 22             | 7,5x1,5  | 9x1,5    |
| EDKOR 10L/12S | 500 | 10L                 | 12S                 | 37,0          | 19             | 24             | 7,5x1,5  | 9x1,5    |
| EDKOR 10S/12L | 400 | 10S                 | 12L                 | 36,0          | 22             | 22             | 7,5x1,5  | 9x1,5    |
| EDKOR 10S/12S | 630 | 10S                 | 12S                 | 37,0          | 22             | 24             | 7,5x1,5  | 9x1,5    |
| EDKOR 10L/14S | 500 | 10L                 | 14S                 | 39,0          | 19             | 27             | 7,5x1,5  | 10x2     |
| EDKOR 10L/15L | 400 | 10L                 | 15L                 | 34,0          | 19             | 27             | 7,5x1,5  | 12x2     |
| EDKOR 10L/16S | 500 | 10L                 | 16S                 | 39,0          | 19             | 30             | 7,5x1,5  | 12x2     |
| EDKOR 12S/12L | 400 | 12S                 | 12L                 | 40,0          | 24             | 22             | 9x1,5    | 9x1,5    |
| EDKOR 12L/14S | 400 | 12L                 | 14S                 | 38,0          | 22             | 27             | 9x1,5    | 10x2     |
| EDKOR 12S/14S | 630 | 12S                 | 14S                 | 38,0          | 24             | 27             | 9x1,5    | 10x2     |
| EDKOR 12L/15L | 400 | 12L                 | 15L                 | 36,0          | 22             | 27             | 9x1,5    | 12x2     |
| EDKOR 12S/15L | 400 | 12S                 | 15L                 | 35,0          | 24             | 27             | 9x1,5    | 12x2     |
| EDKOR 12L/16S | 400 | 12L                 | 16S                 | 38,0          | 22             | 30             | 9x1,5    | 12x2     |
| EDKOR 12S/16S | 630 | 12S                 | 16S                 | 38,0          | 24             | 30             | 9x1,5    | 12x2     |
| EDKOR 12L/18L | 400 | 12L                 | 18L                 | 36,0          | 22             | 32             | 9x1,5    | 15x2     |
| EDKOR 12L/20S | 400 | 12L                 | 20S                 | 44,0          | 22             | 36             | 9x1,5    | 16,3x2,4 |
| EDKOR 14S/16S | 630 | 14S                 | 16S                 | 42,0          | 27             | 30             | 10x2     | 12x2     |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne – Wybór właściwego złącza rurowego”.

## ZŁĄCZA

### ZŁĄCZE PROSTE I REDUKCJA

| opis          | PB  | rura D <sub>1</sub> | rura D <sub>2</sub> | L<br>(± 2 mm) | S <sub>1</sub> | S <sub>2</sub> | O-Ring 1 | O-Ring 2 |
|---------------|-----|---------------------|---------------------|---------------|----------------|----------------|----------|----------|
| EDKOR 15L/16S | 400 | 15L                 | 16S                 | 39,0          | 27             | 30             | 12x2     | 12x2     |
| EDKOR 15L/18L | 400 | 15L                 | 18L                 | 38,0          | 27             | 32             | 12x2     | 15x2     |
| EDKOR 15L/20S | 400 | 15L                 | 20S                 | 44,0          | 27             | 36             | 12x2     | 16,3x2,4 |
| EDKOR 15L/22L | 250 | 15L                 | 22L                 | 42,0          | 27             | 36             | 12x2     | 20x2     |
| EDKOR 15L/25S | 400 | 15L                 | 25S                 | 50,0          | 27             | 46             | 12x2     | 20,3x2,4 |
| EDKOR 16S/18L | 400 | 16S                 | 18L                 | 41,0          | 30             | 32             | 12x2     | 15x2     |
| EDKOR 16S/20S | 400 | 16S                 | 20S                 | 47,0          | 30             | 36             | 12x2     | 16,3x2,4 |
| EDKOR 16S/22L | 250 | 16S                 | 22L                 | 44,0          | 30             | 36             | 12x2     | 20x2     |
| EDKOR 16S/25S | 400 | 16S                 | 25S                 | 48,0          | 30             | 46             | 12x2     | 20,3x2,4 |
| EDKOR 18L/20S | 400 | 18L                 | 20S                 | 46,0          | 32             | 36             | 15x2     | 16,3x2,4 |
| EDKOR 18L/22L | 250 | 18L                 | 22L                 | 41,0          | 32             | 36             | 15x2     | 20x2     |
| EDKOR 18L/25S | 400 | 18L                 | 25S                 | 47,0          | 32             | 46             | 15x2     | 20,3x2,4 |
| EDKOR 18L/28L | 250 | 18L                 | 28L                 | 47,0          | 32             | 41             | 15x2     | 26x2     |
| EDKOR 18L/30S | 400 | 18L                 | 30S                 | 52,0          | 32             | 50             | 15x2     | 25,3x2,4 |
| EDKOR 20S/22L | 250 | 20S                 | 22L                 | 46,0          | 36             | 36             | 16,3x2,4 | 20x2     |
| EDKOR 20S/25S | 400 | 20S                 | 25S                 | 55,0          | 36             | 46             | 16,3x2,4 | 20,3x2,4 |
| EDKOR 20S/28L | 250 | 20S                 | 28L                 | 50,0          | 36             | 41             | 16,3x2,4 | 26x2     |
| EDKOR 20S/30S | 400 | 20S                 | 30S                 | 60,0          | 36             | 50             | 16,3x2,4 | 25,3x2,4 |
| EDKOR 22L/25S | 250 | 22L                 | 25S                 | 47,0          | 36             | 46             | 20x2     | 20,3x2,4 |
| EDKOR 22L/28L | 250 | 22L                 | 28L                 | 41,0          | 36             | 41             | 20x2     | 26x2     |
| EDKOR 22L/30S | 250 | 22L                 | 30S                 | 49,0          | 36             | 50             | 20x2     | 25,3x2,4 |
| EDKOR 22L/35L | 250 | 22L                 | 35L                 | 48,0          | 36             | 50             | 20x2     | 32x2,5   |
| EDKOR 22L/38S | 250 | 22L                 | 38S                 | 51,0          | 36             | 60             | 20x2     | 33,3x2,4 |
| EDKOR 25S/28L | 250 | 25S                 | 28L                 | 48,0          | 46             | 41             | 20,3x2,4 | 26x2     |
| EDKOR 25S/30S | 400 | 25S                 | 30S                 | 57,0          | 46             | 50             | 20,3x2,4 | 25,3x2,4 |
| EDKOR 25S/35L | 250 | 25S                 | 35L                 | 62,0          | 46             | 50             | 20,3x2,4 | 32x2,5   |
| EDKOR 25S/38S | 400 | 25S                 | 38S                 | 95,0          | 46             | 60             | 20,3x2,4 | 33,3x2,4 |
| EDKOR 28L/30S | 250 | 28L                 | 30S                 | 50,0          | 41             | 50             | 26x2     | 25,3x2,4 |
| EDKOR 28L/35L | 250 | 28L                 | 35L                 | 51,0          | 41             | 50             | 26x2     | 32x2,5   |
| EDKOR 28L/38S | 250 | 28L                 | 38S                 | 50,0          | 41             | 60             | 26x2     | 33,3x2,4 |
| EDKOR 28L/42L | 250 | 28L                 | 42L                 | 50,0          | 41             | 60             | 26x2     | 38x2,5   |
| EDKOR 30S/35L | 250 | 30S                 | 35L                 | 58,0          | 50             | 50             | 25,3x2,4 | 32x2,5   |
| EDKOR 30S/38S | 400 | 30S                 | 38S                 | 57,0          | 50             | 60             | 25,3x2,4 | 33,3x2,4 |
| EDKOR 30S/42L | 250 | 30S                 | 42L                 | 58,0          | 50             | 60             | 25,3x2,4 | 38x2,5   |
| EDKOR 35L/38S | 250 | 35L                 | 38S                 | 57,0          | 50             | 60             | 32x2,5   | 33,3x2,4 |
| EDKOR 35L/42L | 250 | 35L                 | 42L                 | 59,0          | 50             | 60             | 32x2,5   | 38x2,5   |
| EDKOR 38S/42L | 250 | 38S                 | 42L                 | 62,0          | 60             | 60             | 33,3x2,4 | 38x2,5   |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne – Wybór właściwego złącza rurowego”.

# ZŁĄCZA

## NASTAWNE ZŁĄCZE Z PRZECIWNAKR.

### BE NASTAWNE ZŁĄCZE KOLANKOWE Z PRZECIWNAKR.

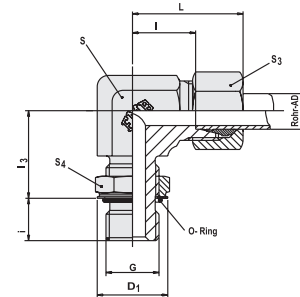
ŚWIAT ZŁĄCZY RUROWYCH

## BE NASTAWNE ZŁĄCZE KOLANKOWE Z PRZECIWNAKR. METRYCZNE

Walcowy metryczny.

ISO 6149 z uszczelnieniem typu O-ring.

O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis               | Śr. zew. rury | Seria PN | S <sub>4</sub> | S  | S <sub>3</sub> | L  | l    | l <sub>3</sub> | D <sub>1</sub> | i    | G        | MA* Nm | O-ring   | kg / 100pcs |
|--------------------|---------------|----------|----------------|----|----------------|----|------|----------------|----------------|------|----------|--------|----------|-------------|
| BE 4-MLL/O         | 4             | LL 250   | 12             | 11 | 10             | 21 | 11,5 | 19,8           | 13,3           | 7,1  | M 8x1    |        | 6,1x1,6  | 2,5         |
| BE 4-MLL/M10x1/O   | 4             | LL 251   | 14             | 11 | 10             | 21 | 11,5 | 19,8           | 15,3           | 7,1  | M 10x1   |        | 8,1x1,6  | 2,9         |
| BE 6-MLL/O         | 6             | LL 252   | 14             | 11 | 12             | 22 | 9,5  | 19,8           | 15,3           | 7,1  | M 10x1   |        | 8,1x1,6  | 2,8         |
| BE 6-MLL/M12x1,5/O | 6             | LL 253   | 17             | 14 | 12             | 25 | 12,5 | 23,2           | 18,6           | 9,6  | M 12x1,5 |        | 9,3x2,2  | 4,9         |
| DS-BE 6-ML/O       | 6             | L 315    | 14             | 14 | 14             | 29 | 14,0 | 20,0           | 15,0           | 7,0  | M 10x1   | 15     | 8,1x1,6  | 6,6         |
| DS-BE 8-ML/O       | 8             | L 315    | 17             | 14 | 17             | 31 | 16,0 | 22,0           | 18,0           | 10,0 | M 12x1,5 | 25     | 9,3x2,2  | 6,6         |
| DS-BE 10-ML/O      | 10            | L 315    | 19             | 19 | 19             | 32 | 17,0 | 25,0           | 20,0           | 10,0 | M 14x1,5 | 35     | 11,3x2,2 | 8,7         |
| DS-BE 12-ML/O      | 12            | L 315    | 22             | 19 | 22             | 34 | 19,0 | 26,0           | 23,0           | 10,0 | M 16x1,5 | 40     | 13,3x2,2 | 9,5         |
| DS-BE 15-ML/O      | 15            | L 315    | 24             | 22 | 27             | 36 | 21,0 | 30,0           | 25,0           | 11,0 | M 18x1,5 | 45     | 15,3x2,2 | 22,4        |
| DS-BE 18-ML/O      | 18            | L 315    | 27             | 27 | 32             | 40 | 24,0 | 33,0           | 28,0           | 12,0 | M 22x1,5 | 60     | 19,3x2,2 | 28,4        |
| DS-BE 22-ML/O      | 22            | L 160    | 32             | 30 | 36             | 44 | 28,0 | 35,0           | 33,0           | 14,0 | M 27x2   | 100    | 23,6x2,9 | 53,4        |
| DS-BE 28-ML/O      | 28            | L 160    | 41             | 36 | 41             | 47 | 31,0 | 38,0           | 41,0           | 14,0 | M 33x2   | 160    | 29,6x2,9 | 60,7        |
| DS-BE 35-ML/O      | 35            | L 160    | 50             | 50 | 50             | 59 | 38,0 | 48,0           | 51,0           | 14,0 | M 42x2   | 210    | 38,6x2,9 | 84,4        |
| DS-BE 42-ML/O      | 42            | L 160    | 55             | 50 | 60             | 61 | 38,0 | 49,0           | 56,0           | 16,0 | M 48x2   | 260    | 44,6x2,9 | 92,8        |
| DS-BE 6-MS/O       | 6             | S 400    | 17             | 14 | 17             | 30 | 15,0 | 22,0           | 18,0           | 10,0 | M 12x1,5 | 35     | 9,3x2,2  | 7,2         |
| DS-BE 8-MS/O       | 8             | S 400    | 19             | 19 | 19             | 32 | 17,0 | 26,0           | 20,0           | 10,0 | M 14x1,5 | 45     | 11,3x2,2 | 8,8         |
| DS-BE 10-MS/O      | 10            | S 400    | 22             | 19 | 22             | 34 | 18,0 | 27,0           | 23,0           | 11,0 | M 16x1,5 | 55     | 13,3x2,2 | 9,7         |
| DS-BE 12-MS/O      | 12            | S 400    | 24             | 22 | 24             | 38 | 22,0 | 31,0           | 25,0           | 12,0 | M 18x1,5 | 70     | 15,3x2,2 | 22,7        |
| DS-BE 16-MS/O      | 16            | S 400    | 27             | 27 | 30             | 43 | 25,0 | 35,0           | 28,0           | 14,0 | M 22x1,5 | 100    | 19,3x2,2 | 28,6        |
| DS-BE 20-MS/O      | 20            | S 400    | 32             | 30 | 36             | 49 | 28,0 | 39,0           | 33,0           | 16,0 | M 27x2   | 170    | 23,6x2,9 | 55,3        |
| DS-BE 25-MS/O      | 25            | S 315    | 41             | 36 | 46             | 54 | 30,0 | 44,0           | 41,0           | 16,0 | M 33x2   | 310    | 29,6x2,9 | 72,2        |
| DS-BE 30-MS/O      | 30            | S 250    | 50             | 50 | 50             | 62 | 36,0 | 51,0           | 51,0           | 17,0 | M 42x2   | 330    | 38,6x2,9 | 93,2        |
| DS-BE 38-MS/O      | 38            | S 200    | 55             | 50 | 60             | 65 | 34,0 | 54,0           | 56,0           | 19,0 | M 48x2   | 420    | 44,6x2,9 | 104,2       |

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwstawnym jest stal

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

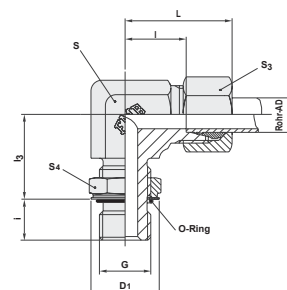
## ZŁĄCZA

### NASTAWNE ZŁĄCZE Z PRZECIWNAKR. BE NASTAWNE ZŁĄCZE KOLANKOWE Z PRZECIWNAKR.

#### BE NASTAWNE ZŁĄCZE KOLANKOWE Z PRZECIWNAKR. UNF/UN

UNF / UN gwint. walc. z uszczelnieniem  
typu O-ring.

O-ring NBR (np. Perbunan), FPM (np. Viton)  
na zamówienie.



| opis                   | Śr.<br>zew.<br>rury | Seria<br>PN | S4 | S  | S3 | L  | l  | l3 | D1   | i  | G              | MA*<br>Nm | O-ring     | kg /<br>100pcs |
|------------------------|---------------------|-------------|----|----|----|----|----|----|------|----|----------------|-----------|------------|----------------|
| DS-BE 6-L/7/16-20UNF   | 6                   | L 315       | 14 | 14 | 14 | 29 | 14 | 19 | 16,5 | 10 | 7/16-20UNF-2A  | 19        | 8,92x1,83  | 6,5            |
| DS-BE 8-L/7/16-20UNF   | 8                   | L 315       | 14 | 14 | 17 | 31 | 16 | 19 | 16,5 | 10 | 7/16-20UNF-2A  | 19        | 8,92x1,83  | 7,0            |
| DS-BE 10-L/9/16-18UNF  | 10                  | L 315       | 17 | 19 | 19 | 32 | 17 | 24 | 20,2 | 11 | 9/16-18UNF-2A  | 40        | 11,89x1,98 | 9,0            |
| DS-BE 12-L/9/16-18UNF  | 12                  | L 315       | 17 | 19 | 22 | 34 | 19 | 25 | 20,2 | 11 | 9/16-18UNF-2A  | 40        | 11,89x1,98 | 11,0           |
| DS-BE 12-L/3/4-16UNF   | 12                  | L 315       | 22 | 19 | 22 | 34 | 19 | 25 | 25,7 | 13 | 3/4-16UNF-2A   | 60        | 16,36x2,21 | 19,4           |
| DS-BE 15-L/3/4-16UNF   | 15                  | L 315       | 22 | 22 | 27 | 36 | 21 | 28 | 25,7 | 13 | 3/4-16UNF-2A   | 60        | 16,36x2,21 | 18,5           |
| DS-BE 15-L/7/8-14UNF   | 15                  | L 315       | 27 | 22 | 27 | 36 | 21 | 28 | 29,3 | 15 | 7/8-14UNF-2A   | 80        | 19,18x2,46 | 18,8           |
| DS-BE 18-L/7/8-14UNF   | 18                  | L 315       | 27 | 27 | 32 | 40 | 24 | 32 | 29,3 | 15 | 7/8-14UNF-2A   | 80        | 19,18x2,46 | 28,4           |
| DS-BE 18-L/1,1/16-12UN | 18                  | L 315       | 32 | 30 | 32 | 40 | 24 | 32 | 36,7 | 17 | 1,1/16-12UN-2A | 110       | 23,47x2,95 | 31,8           |
| DS-BE 22-L/1,1/16-12UN | 22                  | L 160       | 32 | 30 | 36 | 44 | 28 | 35 | 36,7 | 17 | 1,1/16-12UN-2A | 110       | 23,47x2,95 | 53,5           |
| DS-BE 28-L/1,5/16-12UN | 28                  | L 160       | 41 | 36 | 41 | 47 | 31 | 42 | 44,0 | 17 | 1,5/16-12UN-2A | 160       | 29,74x2,95 | 45,2           |
| DS-BE 35-L/1,5/8-12UN  | 35                  | L 160       | 50 | 50 | 50 | 59 | 38 | 46 | 55,0 | 17 | 1,5/8-12UN-2A  | 300       | 37,46x3    | 84,4           |
| DS-BE 42-L/1,7/8-12UN  | 42                  | L 160       | 55 | 50 | 60 | 61 | 38 | 47 | 62,3 | 17 | 1,7/8-12UN-2A  | 340       | 43,69x3    | 92,8           |
| DS-BE 6-S/7/16-20UNF   | 6                   | S 400       | 14 | 14 | 17 | 30 | 15 | 20 | 16,5 | 11 | 7/16-20UNF-2A  | 21        | 8,92x1,83  | 6,5            |
| DS-BE 8-S/9/16-18UNF   | 8                   | S 400       | 17 | 19 | 19 | 32 | 17 | 25 | 20,2 | 12 | 9/16-18UNF-2A  | 50        | 11,89x1,98 | 8,5            |
| DS-BE 10-S/9/16-18UNF  | 10                  | S 400       | 17 | 19 | 22 | 34 | 18 | 26 | 20,2 | 12 | 9/16-18UNF-2A  | 50        | 11,89x1,98 | 9,0            |
| DS-BE 12-S/3/4-16UNF   | 12                  | S 400       | 22 | 22 | 24 | 38 | 22 | 30 | 25,7 | 14 | 3/4-16UNF-2A   | 80        | 16,36x2,21 | 21,3           |
| DS-BE 16-S/7/8-14UNF   | 16                  | S 400       | 27 | 27 | 30 | 43 | 25 | 34 | 29,3 | 16 | 7/8-14UNF-2A   | 140       | 19,18x2,46 | 28,6           |
| DS-BE 20-S/1,1/16-12UN | 20                  | S 400       | 32 | 30 | 36 | 49 | 28 | 37 | 36,7 | 19 | 1,1/16-12UN-2A | 190       | 23,47x2,95 | 55,5           |
| DS-BE 25-S/1,1/16-12UN | 25                  | S 400       | 32 | 36 | 46 | 54 | 30 | 50 | 36,7 | 19 | 1,1/16-12UN-2A | 190       | 23,47x2,95 | 69,4           |
| DS-BE 30-S/1,5/8-12UN  | 30                  | S 250       | 50 | 50 | 50 | 62 | 36 | 50 | 55,0 | 19 | 1,5/8-12UN-2A  | 350       | 37,46x3    | 93,2           |
| DS-BE 38-S/1,7/8-12UN  | 38                  | S 250       | 55 | 50 | 60 | 65 | 34 | 51 | 62,3 | 19 | 1,7/8-12UN-2A  | 430       | 43,69x3    | 104,2          |

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwstawnym jest stal

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.



## ZŁĄCZA

### NASTAWNE ZŁĄCZE Z PRZECIWNAKR.

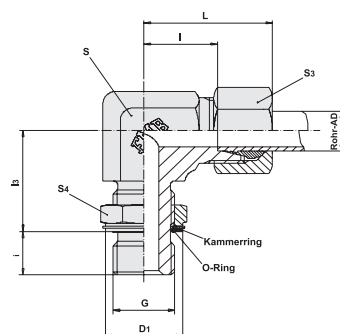
### BE NASTAWNE ZŁĄCZE KOLANKOWE Z PRZECIWNAKR.

ŚWIAT ZŁĄCZY RUROWYCH

### BE NASTAWNE ZŁĄCZE KOLANKOWE Z PRZECIWNAKR. BSP RR

BSP walcowy do małej i szerokiej powierzchni czotowej.

Pierścień przytrzymujący i O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis           | Śr. zew. rury | Seria PN | S <sub>4</sub> | S  | S <sub>3</sub> | L  | I    | l <sub>3</sub> | D <sub>1</sub> | i    | G         | MA* Nm | O-ring     | Pierścień wspomagający mały | kg / 100pcs |
|----------------|---------------|----------|----------------|----|----------------|----|------|----------------|----------------|------|-----------|--------|------------|-----------------------------|-------------|
| BE 4-RL/0A     | 4             | LL 250   | 14             | 11 | 10             | 21 | 11,3 | 20,5           | 15             | 5,5  | G 1/8"A   | 10     | 8x1,88     | KAM R1/3                    | 3,0         |
| BE 6-RL/0A     | 6             | LL 250   | 14             | 11 | 12             | 21 | 11,3 | 20,5           | 15             | 5,5  | G 1/8"A   | 10     | 8x1,88     | KAM R1/8                    | 3,2         |
| DS-BE 6-RL/0A  | 6             | L 315    | 14             | 14 | 14             | 29 | 14,0 | 20,5           | 15             | 5,5  | G 1/8 A   | 25     | 8x1,88     | KAM R1/8                    | 6,6         |
| DS-BE 8-RL/0A  | 8             | L 315    | 19             | 14 | 17             | 31 | 16,0 | 25,5           | 20             | 7,0  | G 1/4"A   | 50     | 10,77x2,62 | KAM R1/4                    | 6,6         |
| DS-BE 10-RL/0A | 10            | L 315    | 19             | 19 | 19             | 32 | 17,0 | 27,0           | 20             | 7,0  | G 1/4"A   | 50     | 10,77x2,62 | KAM R1/4                    | 11,9        |
| DS-BE 12-RL/0A | 12            | L 250    | 22             | 19 | 22             | 34 | 19,0 | 30,0           | 23             | 7,0  | G 3/8"A   | 80     | 13,94x2,62 | KAM R3/8                    | 13,8        |
| DS-BE 15-RL/0A | 15            | L 250    | 27             | 22 | 27             | 36 | 21,0 | 32,5           | 28             | 10,5 | G 1/2"A   | 105    | 17x3       | KAM R1/2                    | 28,3        |
| DS-BE 18-RL/0A | 18            | L 250    | 27             | 27 | 32             | 40 | 24,0 | 38,5           | 28             | 10,5 | G 1/2"A   | 105    | 17x3       | KAM R1/2                    | 34,4        |
| DS-BE 22-RL/0A | 22            | L 160    | 36             | 30 | 36             | 44 | 28,0 | 38,5           | 33             | 10,5 | G 3/4"A   | 220    | 23,6x2,9   | KAM R3/4                    | 44,9        |
| DS-BE 28-RL/0A | 28            | L 160    | 41             | 36 | 41             | 47 | 31,0 | 46,5           | 41             | 12,5 | G 1"A     | 370    | 29,74x3,53 | KAM R1                      | 65,7        |
| DS-BE 35-RL/0A | 35            | L 160    | 50             | 50 | 50             | 59 | 38,0 | 52,5           | 51             | 12,5 | G 1 1/4"A | 500    | 37,69x3,53 | KAM R11/4                   | 111,3       |
| DS-BE 42-RL/0A | 42            | L 160    | 55             | 50 | 60             | 61 | 38,0 | 54,5           | 56             | 12,5 | G 1 1/2"A | 600    | 44,04x3,53 | KAM R11/2                   | 119,7       |
| DS-BE 6-RS/0A  | 6             | S 315    | 19             | 14 | 17             | 30 | 15,0 | 25,0           | 20             | 7,0  | G 1/4"A   | 50     | 10,77x2,62 | KAM R1/4                    | 6,9         |
| DS-BE 8-RS/0A  | 8             | S 315    | 19             | 19 | 19             | 32 | 17,0 | 27,0           | 20             | 7,0  | G 1/4"A   | 50     | 10,77x2,62 | KAM R1/4                    | 12,0        |
| DS-BE 10-RS/0A | 10            | S 250    | 22             | 19 | 22             | 34 | 18,0 | 30,0           | 23             | 7,0  | G 3/8"A   | 80     | 13,94x2,62 | KAM R3/8                    | 13,8        |
| DS-BE 12-RS/0A | 12            | S 250    | 22             | 22 | 24             | 38 | 22,0 | 30,0           | 23             | 7,0  | G 3/8"A   | 80     | 13,94x2,62 | KAM R3/8                    | 20,6        |
| DS-BE 16-RS/0A | 16            | S 250    | 27             | 27 | 30             | 43 | 25,0 | 38,5           | 28             | 10,5 | G 1/2"A   | 105    | 17x3       | KAM R1/2                    | 34,6        |
| DS-BE 20-RS/0A | 20            | S 250    | 36             | 30 | 36             | 49 | 28,0 | 38,5           | 33             | 10,5 | G 3/4"A   | 220    | 23,6x2,9   | KAM R3/4                    | 46,8        |
| DS-BE 25-RS/0A | 25            | S 250    | 41             | 36 | 46             | 54 | 30,0 | 46,5           | 41             | 12,5 | G 1"A     | 370    | 29,74x3,53 | KAM R1                      | 77,2        |
| DS-BE 30-RS/0A | 30            | S 160    | 50             | 50 | 50             | 62 | 36,0 | 51,5           | 51             | 12,5 | G 1 1/4"A | 500    | 37,69x3,53 | KAM R11/4                   | 106,9       |
| DS-BE 38-RS/0A | 38            | S 160    | 55             | 50 | 60             | 65 | 34,0 | 57,5           | 56             | 12,5 | G 1 1/2"A | 600    | 44,04x3,53 | KAM R11/2                   | 131,1       |

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G, gdzie materiałem przeciwnym jest stal  
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

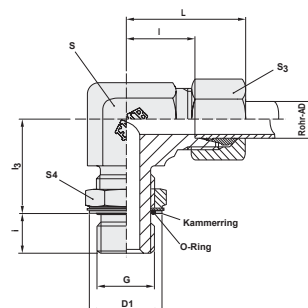
## ZŁĄCZA

### NASTAWNE ZŁĄCZE Z PRZECIWNAKR. BE NASTAWNE ZŁĄCZE KOLANKOWE Z PRZECIWNAKR.

#### BE NASTAWNE ZŁĄCZE KOLANKOWE Z PRZECIWNAKR. METRYCZNE RR

Walcowy metryczny na małą i szeroką powierzchnię czołową.

Pierścień przytrzymujący i O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis           | Śr. zew. rury | Seria PN | S <sub>4</sub> | S  | S <sub>3</sub> | L  | l  | l <sub>3</sub> | D <sub>1</sub> | i    | G       | MA* Nm | O-ring     | Pierścień wspomagający mały | kg / 100pcs |
|----------------|---------------|----------|----------------|----|----------------|----|----|----------------|----------------|------|---------|--------|------------|-----------------------------|-------------|
| DS-BE 6-ML/OA  | 6             | L 315    | 14             | 14 | 14             | 29 | 14 | 21,5           | 15             | 5,5  | M10x1   | 18     | 8x1,88     | KAM M10x1                   | 6,6         |
| DS-BE 8-ML/OA  | 8             | L 315    | 17             | 14 | 17             | 31 | 16 | 23,5           | 18             | 8,5  | M12x1,5 | 35     | 9,3x2,2    | KAM M12x1,5                 | 6,6         |
| DS-BE 10-ML/OA | 10            | L 315    | 19             | 19 | 19             | 32 | 17 | 26,5           | 20             | 8,5  | M14x1,5 | 55     | 11,3x2,2   | KAM M14x1,5                 | 8,7         |
| DS-BE 12-ML/OA | 12            | L 315    | 22             | 19 | 22             | 34 | 19 | 27,5           | 23             | 8,5  | M16x1,5 | 80     | 13,3x2,2   | KAM M16x1,5                 | 9,5         |
| DS-BE 15-ML/OA | 15            | L 315    | 24             | 22 | 27             | 36 | 21 | 32,0           | 25             | 9,0  | M18x1,5 | 105    | 15,54x2,62 | KAM M18x1,5                 | 22,4        |
| DS-BE 18-ML/OA | 18            | L 250    | 27             | 27 | 32             | 40 | 24 | 35,5           | 28             | 9,5  | M22x1,5 | 125    | 19,2x3     | KAM M22x1,5                 | 28,4        |
| DS-BE 22-ML/OA | 22            | L 160    | 32             | 30 | 36             | 44 | 28 | 37,5           | 33             | 11,5 | M27x2   | 220    | 23,47x2,95 | KAM M27x2                   | 53,4        |
| DS-BE 28-ML/OA | 28            | L 160    | 41             | 36 | 41             | 47 | 31 | 40,5           | 41             | 11,5 | M33x2   | 370    | 29,2x3     | KAM M33x2                   | 60,9        |
| DS-BE 35-ML/OA | 35            | L 160    | 50             | 50 | 50             | 59 | 38 | 50,5           | 51             | 11,5 | M42x2   | 500    | 37,69x3,53 | KAM M42x2                   | 84,4        |
| DS-BE 42-ML/OA | 42            | L 160    | 55             | 50 | 60             | 61 | 38 | 51,5           | 56             | 13,5 | M48x2   | 600    | 43,69x3    | KAM M48x2                   | 92,4        |
| DS-BE 6-MS/OA  | 6             | S 315    | 17             | 14 | 17             | 30 | 15 | 23,5           | 18             | 8,5  | M12x1,5 | 35     | 9,3x2,2    | KAM M12x1,5                 | 7,2         |
| DS-BE 8-MS/OA  | 8             | S 315    | 19             | 19 | 19             | 32 | 17 | 27,5           | 20             | 8,5  | M14x1,5 | 55     | 11,3x2,2   | KAM M14x1,5                 | 8,8         |
| DS-BE 10-MS/OA | 10            | S 315    | 22             | 19 | 22             | 34 | 18 | 28,5           | 23             | 9,5  | M16x1,5 | 80     | 13,3x2,2   | KAM M16x1,5                 | 9,7         |
| DS-BE 12-MS/OA | 12            | S 315    | 24             | 22 | 24             | 38 | 22 | 33,0           | 25             | 10,0 | M18x1,5 | 105    | 15,54x2,62 | KAM M18x1,5                 | 22,7        |
| DS-BE 16-MS/OA | 16            | S 250    | 27             | 27 | 30             | 43 | 25 | 37,5           | 28             | 11,5 | M22x1,5 | 125    | 19,2x3     | KAM M22x1,5                 | 28,6        |
| DS-BE 20-MS/OA | 20            | S 250    | 32             | 30 | 36             | 49 | 28 | 41,5           | 33             | 13,5 | M27x2   | 220    | 23,47x2,95 | KAM M27x2                   | 55,3        |
| DS-BE 25-MS/OA | 25            | S 160    | 41             | 36 | 46             | 54 | 30 | 46,5           | 41             | 13,5 | M33x2   | 370    | 29,2x3     | KAM M33x2                   | 72,2        |
| DS-BE 30-MS/OA | 30            | S 160    | 50             | 50 | 50             | 62 | 36 | 53,5           | 51             | 14,5 | M42x2   | 500    | 37,69x3,53 | KAM M42x2                   | 93,2        |
| DS-BE 38-MS/OA | 38            | S 160    | 55             | 50 | 60             | 65 | 34 | 56,5           | 56             | 16,5 | M48x2   | 600    | 43,69x3    | KAM M48x2                   | 104,2       |

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwnastawnym jest stal  
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ZŁĄCZA NASTAWNE ZŁĄCZE Z PRZECIWNAKR. BFE NASTAWNE ZŁĄCZE KOLANOWE 45° Z PRZECIWNAKR.

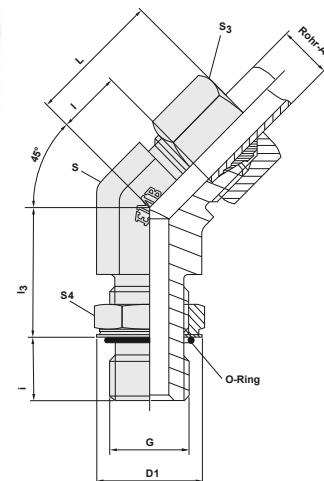
ŚWIAT ZŁĄCZY RUROWYCH

### BFE NASTAWNE ZŁĄCZE KOLANOWE 45° Z PRZECIWNAKR. METRYCZNE

Walcowy metryczny.

ISO 6149 z uszczelnieniem typu O-ring.

O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis           | Śr.<br>zew.<br>rury | Seria<br>PN | S <sub>4</sub> | S  | S <sub>3</sub> | L  | l  | l <sub>3</sub> | D <sub>1</sub> | i  | G       | MA*<br>Nm | O-ring   | kg /<br>100pcs |
|----------------|---------------------|-------------|----------------|----|----------------|----|----|----------------|----------------|----|---------|-----------|----------|----------------|
| DS-BFE 6-ML/O  | 6                   | L 315       | 14             | 14 | 14             | 24 | 9  | 19             | 15             | 7  | M10x1   | 15        | 8,1x1,6  | 9,3            |
| DS-BFE 8-ML/O  | 8                   | L 315       | 17             | 14 | 17             | 27 | 12 | 19             | 18             | 10 | M12x1,5 | 25        | 9,3x2,2  | 10,3           |
| DS-BFE 10-ML/O | 10                  | L 315       | 19             | 19 | 19             | 27 | 12 | 24             | 20             | 10 | M14x1,5 | 35        | 11,3x2,2 | 17,5           |
| DS-BFE 12-ML/O | 12                  | L 315       | 22             | 19 | 22             | 28 | 14 | 24             | 23             | 10 | M16x1,5 | 40        | 13,3x2,2 | 19,1           |
| DS-BFE 15-ML/O | 15                  | L 315       | 24             | 22 | 27             | 32 | 17 | 24             | 25             | 11 | M18x1,5 | 45        | 15,3x2,2 | 33,1           |
| DS-BFE 18-ML/O | 18                  | L 315       | 27             | 27 | 32             | 33 | 17 | 30             | 28             | 12 | M22x1,5 | 60        | 19,3x2,2 | 42,3           |
| DS-BFE 22-ML/O | 22                  | L 160       | 32             | 30 | 36             | 35 | 19 | 33             | 33             | 14 | M27x2   | 100       | 23,6x2,9 | 73,7           |
| DS-BFE 28-ML/O | 28                  | L 160       | 41             | 36 | 41             | 40 | 23 | 35             | 41             | 14 | M33x2   | 160       | 29,6x2,9 | 77,7           |
| DS-BFE 35-ML/O | 35                  | L 160       | 50             | 50 | 50             | 48 | 27 | 37             | 51             | 14 | M42x2   | 210       | 38,6x2,9 | 126,0          |
| DS-BFE 42-ML/O | 42                  | L 160       | 55             | 50 | 60             | 49 | 26 | 37             | 56             | 16 | M48x2   | 260       | 44,6x2,9 | 142,8          |
| DS-BFE 6-MS/O  | 6                   | S 400       | 17             | 14 | 17             | 24 | 9  | 18             | 18             | 10 | M12x1,5 | 35        | 9,3x2,2  | 10,6           |
| DS-BFE 8-MS/O  | 8                   | S 400       | 19             | 19 | 19             | 27 | 12 | 21             | 20             | 10 | M14x1,5 | 45        | 11,3x2,2 | 17,7           |
| DS-BFE 10-MS/O | 10                  | S 400       | 22             | 19 | 22             | 29 | 13 | 21             | 23             | 11 | M16x1,5 | 55        | 13,3x2,2 | 19,5           |
| DS-BFE 12-MS/O | 12                  | S 400       | 24             | 22 | 24             | 33 | 17 | 22             | 25             | 12 | M18x1,5 | 70        | 15,3x2,2 | 31,3           |
| DS-BFE 16-MS/O | 16                  | S 400       | 27             | 27 | 30             | 34 | 16 | 29             | 28             | 14 | M22x1,5 | 100       | 19,3x2,2 | 42,7           |
| DS-BFE 20-MS/O | 20                  | S 400       | 32             | 30 | 36             | 38 | 16 | 31             | 33             | 16 | M27x2   | 170       | 23,6x2,9 | 77,5           |
| DS-BFE 25-MS/O | 25                  | S 250       | 41             | 36 | 46             | 43 | 19 | 33             | 41             | 16 | M33x2   | 310       | 29,6x2,9 | 100,7          |
| DS-BFE 30-MS/O | 30                  | S 200       | 50             | 50 | 50             | 50 | 24 | 35             | 51             | 17 | M42x2   | 330       | 38,6x2,9 | 143,6          |
| DS-BFE 38-MS/O | 38                  | S 200       | 55             | 50 | 60             | 52 | 21 | 35             | 56             | 19 | M48x2   | 420       | 44,6x2,9 | 165,6          |

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwstawnym jest stal

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ZŁĄCZA

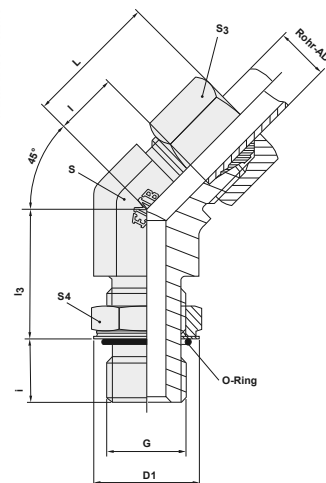
### NASTAWNE ZŁĄCZE Z PRZECIWNAKR.

### BFE NASTAWNE ZŁĄCZE KOLANOWE 45° Z PRZECIWNAKR.

### BFE NASTAWNE ZŁĄCZE KOLANOWE 45° Z PRZECIWNAKR. UNF/UN

UNF / UN gwint. walc. z uszczelnieniem typu O-ring.

O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis                    | Śr. zew. rury | Seria PN | S <sub>4</sub> | S  | S <sub>3</sub> | L  | l  | l <sub>3</sub> | D <sub>1</sub> | i  | G              | MA* Nm | O-ring     | kg / 100pcs |
|-------------------------|---------------|----------|----------------|----|----------------|----|----|----------------|----------------|----|----------------|--------|------------|-------------|
| DS-BFE 6-L/7/16-20UNF   | 6             | L 315    | 14             | 14 | 14             | 24 | 9  | 19             | 16,5           | 10 | 7/16-20UNF-2A  | 19     | 8,92x1,83  | 5,7         |
| DS-BFE 8-L/7/16-20UNF   | 8             | L 315    | 14             | 14 | 17             | 27 | 12 | 19             | 16,5           | 10 | 7/16-20UNF-2A  | 19     | 8,92x1,83  | 6,2         |
| DS-BFE 10-L/9/16-18UNF  | 10            | L 315    | 17             | 19 | 19             | 27 | 12 | 24             | 20,2           | 11 | 9/16-18UNF-2A  | 40     | 11,89x1,98 | 10,5        |
| DS-BFE 12-L/9/16-18UNF  | 12            | L 315    | 17             | 19 | 22             | 28 | 14 | 24             | 20,2           | 11 | 9/16-18UNF-2A  | 40     | 11,89x1,98 | 10,1        |
| DS-BFE 12-L/3/4-16UNF   | 12            | L 315    | 22             | 19 | 22             | 28 | 14 | 24             | 25,7           | 13 | 3/4-16UNF-2A   | 60     | 16,36x2,21 | 14,7        |
| DS-BFE 15-L/3/4-16UNF   | 15            | L 315    | 22             | 22 | 27             | 32 | 17 | 24             | 25,7           | 13 | 3/4-16UNF-2A   | 60     | 16,36x2,21 | 20,3        |
| DS-BFE 15-L/7/8-14UNF   | 15            | L 315    | 27             | 22 | 27             | 32 | 17 | 24             | 29,3           | 15 | 7/8-14UNF-2A   | 80     | 19,18x2,46 | 18,0        |
| DS-BFE 18-L/7/8-14UNF   | 18            | L 315    | 27             | 27 | 32             | 33 | 17 | 30             | 29,3           | 15 | 7/8-14UNF-2A   | 80     | 19,18x2,46 | 26,4        |
| DS-BFE 18-L/1,1/6-12UN  | 18            | L 160    | 32             | 30 | 32             | 33 | 17 | 30             | 36,7           | 17 | 1,1/16-12UN-2A | 110    | 23,47x2,95 | 36,4        |
| DS-BFE 22-L/1,1/6-12UN  | 22            | L 160    | 32             | 30 | 36             | 35 | 19 | 33             | 36,7           | 17 | 1,1/16-12UN-2A | 110    | 23,47x2,95 | 38,8        |
| DS-BFE 28-L/1,5/16-12UN | 28            | L 160    | 41             | 36 | 41             | 39 | 23 | 35             | 44,0           | 17 | 1,5/16-12UN-2A | 160    | 29,74x2,95 | 50,0        |
| DS-BFE 35-L/1,5/8-12UN  | 35            | L 160    | 50             | 50 | 50             | 48 | 27 | 37             | 55,0           | 17 | 1,5/8-12UN-2A  | 300    | 37,46x3    | 73,1        |
| DS-BFE 42-L/1,7/8-12UN  | 42            | L 16     | 55             | 50 | 60             | 49 | 26 | 37             | 62,3           | 17 | 1,7/8-12UN-2A  | 340    | 43,69x3    | 81,5        |
| DS-BFE 6-S/7/16-20UNF   | 6             | S 400    | 14             | 14 | 17             | 24 | 9  | 18             | 16,5           | 11 | 7/16-20UNF-2A  | 21     | 8,92x1,83  | 6,5         |
| DS-BFE 8-S/9/16-18UNF   | 8             | S 400    | 17             | 19 | 19             | 27 | 12 | 21             | 20,2           | 12 | 9/16-18UNF-2A  | 50     | 11,89x1,98 | 10,6        |
| DS-BFE 10-S/9/16-18UNF  | 10            | S 400    | 17             | 19 | 22             | 29 | 13 | 21             | 20,2           | 12 | 9/16-18UNF-2A  | 50     | 11,89x1,98 | 11,5        |
| DS-BFE 12-S/3/4-16UNF   | 12            | S 400    | 22             | 22 | 24             | 33 | 17 | 22             | 25,7           | 14 | 3/4-16UNF-2A   | 80     | 16,36x2,21 | 17,1        |
| DS-BFE 16-S/7/8-14UNF   | 16            | S 400    | 27             | 27 | 30             | 34 | 16 | 29             | 29,3           | 16 | 7/8-14UNF-2A   | 140    | 19,18x2,46 | 26,6        |
| DS-BFE 20-S/1,1/16-12UN | 20            | S 400    | 32             | 30 | 36             | 38 | 16 | 31             | 36,7           | 19 | 1,1/16-12UN-2A | 190    | 23,47x2,95 | 40,7        |
| DS-BFE 25-S/1,1/16-12UN | 25            | S 400    | 32             | 36 | 46             | 43 | 19 | 33             | 36,7           | 19 | 1,1/16-12UN-2A | 190    | 23,47x2,95 | 55,8        |
| DS-BFE 30-S/1,5/8-12UN  | 30            | S 250    | 50             | 50 | 50             | 50 | 24 | 35             | 55,0           | 19 | 1,5/8-12UN-2A  | 350    | 37,46x3    | 81,9        |
| DS-BFE 38-S/1,7/8-12UN  | 38            | S 250    | 55             | 50 | 60             | 52 | 21 | 35             | 62,3           | 19 | 1,7/8-12UN-2A  | 430    | 43,69x3    | 92,9        |

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwnastawnym jest stal

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

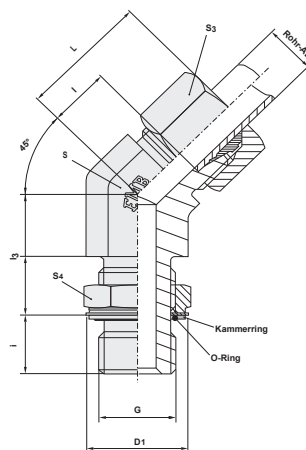
## ZŁĄCZA NASTAWNE ZŁĄCZE Z PRZECIWNAKR. BFE NASTAWNE ZŁĄCZE KOLANOWE 45° Z PRZECIWNAKR.

ŚWIAT ZŁĄCZY RUROWYCH

### BFE NASTAWNE ZŁĄCZE KOLANOWE 45° Z PRZECIWNAKR. BSP RR

BSP walcowy do małej i szerokiej powierzchni czotowej.

Pierścień przytrzymujący i O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis            | Śr. zew. rury | Seria PN | S <sub>4</sub> | S  | S <sub>3</sub> | L  | l  | l <sub>3</sub> | D <sub>1</sub> | i    | G         | MA* Nm | O-ring     | Pierścień wspomagający mały | kg / 100pcs |
|-----------------|---------------|----------|----------------|----|----------------|----|----|----------------|----------------|------|-----------|--------|------------|-----------------------------|-------------|
| DS-BFE 6-RL/OA  | 6             | L 315    | 14             | 4  | 14             | 24 | 9  | 24,5           | 15             | 5,5  | G 1/8"A   | 25     | 8x1,88     | KAM R1/8                    | 9,3         |
| DS-BFE 8-RL/OA  | 8             | L 315    | 19             | 14 | 17             | 27 | 12 | 21,0           | 20             | 7,0  | G 1/4"A   | 50     | 10,77x2,62 | KAM R1/4                    | 10,3        |
| DS-BFE 10-RL/OA | 10            | L 315    | 19             | 19 | 19             | 27 | 12 | 25,0           | 20             | 7,0  | G 1/4"A   | 50     | 10,77x2,62 | KAM R1/4                    | 17,1        |
| DS-BFE 12-RL/OA | 12            | L 250    | 22             | 19 | 22             | 28 | 14 | 27,0           | 23             | 7,0  | G 3/8"A   | 80     | 13,94x2,62 | KAM R3/8                    | 20,6        |
| DS-BFE 15-RL/OA | 15            | L 250    | 27             | 22 | 27             | 32 | 17 | 27,5           | 28             | 10,5 | G 1/2"A   | 105    | 17x3       | KAM R1/2                    | 31,3        |
| DS-BFE 18-RL/OA | 18            | L 250    | 27             | 27 | 32             | 33 | 17 | 33,5           | 28             | 10,5 | G 1/2"A   | 105    | 17x3       | KAM R1/2                    | 42,8        |
| DS-BFE 22-RL/OA | 22            | L 160    | 36             | 30 | 36             | 35 | 19 | 36,5           | 33             | 10,5 | G 3/4"A   | 220    | 23,6x2,9   | KAM R3/4                    | 71,9        |
| DS-BFE 28-RL/OA | 28            | L 160    | 41             | 36 | 41             | 40 | 23 | 39,5           | 41             | 12,5 | G 1"A     | 370    | 29,74x3,53 | KAM R1                      | 81,2        |
| DS-BFE 35-RL/OA | 35            | L 160    | 50             | 50 | 50             | 48 | 27 | 40,5           | 51             | 12,5 | G 1 1/4"A | 500    | 37,69x3,53 | KAM R1 1/4                  | 126,0       |
| DS-BFE 42-RL/OA | 42            | L 160    | 55             | 50 | 60             | 49 | 26 | 40,5           | 56             | 12,5 | G 1 1/2"A | 600    | 44,04x3,53 | KAM R1 1/2                  | 142,8       |
| DS-BFE 6-RS/OA  | 6             | S 315    | 19             | 14 | 17             | 24 | 9  | 21,0           | 20             | 7,0  | G 1/4"A   | 50     | 10,77x2,62 | KAM R1/4                    | 10,9        |
| DS-BFE 8-RS/OA  | 8             | S 315    | 19             | 19 | 19             | 27 | 12 | 25,0           | 20             | 7,0  | G 1/4"A   | 50     | 10,77x2,62 | KAM R1/4                    | 15,3        |
| DS-BFE 10-RS/OA | 10            | S 250    | 22             | 19 | 22             | 29 | 13 | 27,0           | 23             | 7,0  | G 3/8"A   | 80     | 13,94x2,62 | KAM R3/8                    | 19,1        |
| DS-BFE 12-RS/OA | 12            | S 250    | 22             | 22 | 24             | 33 | 17 | 27,0           | 23             | 7,0  | G 3/8"A   | 80     | 13,94x2,62 | KAM R3/8                    | 23,8        |
| DS-BFE 16-RS/OA | 16            | S 250    | 27             | 27 | 30             | 34 | 16 | 33,5           | 28             | 10,5 | G 1/2"A   | 105    | 17x3       | KAM R1/2                    | 43,2        |
| DS-BFE 20-RS/OA | 20            | S 250    | 36             | 30 | 36             | 38 | 16 | 36,5           | 33             | 10,5 | G 3/4"A   | 220    | 23,6x2,9   | KAM R3/4                    | 75,7        |
| DS-BFE 25-RS/OA | 25            | S 250    | 41             | 36 | 46             | 43 | 19 | 39,5           | 41             | 12,5 | G 1"A     | 370    | 29,74x3,53 | KAM R1                      | 104,2       |
| DS-BFE 30-RS/OA | 30            | S 160    | 50             | 50 | 50             | 50 | 24 | 40,5           | 51             | 12,5 | G 1 1/4"A | 500    | 37,69x3,53 | KAM R1 1/4                  | 143,6       |
| DS-BFE 38-RS/OA | 38            | S 160    | 55             | 50 | 60             | 52 | 21 | 40,5           | 56             | 12,5 | G 1 1/2"A | 600    | 44,04x3,53 | KAM R1 1/2                  | 165,6       |

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwstawnym jest stal  
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ZŁĄCZA

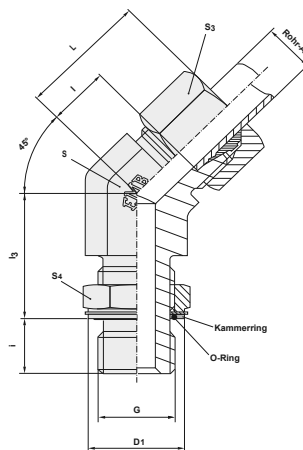
### NASTAWNE ZŁĄCZE Z PRZECIWNAKR.

### BFE NASTAWNE ZŁĄCZE KOLANOWE 45° Z PRZECIWNAKR.

### BFE NASTAWNE 45° Z PRZECIWNAKR. ELBOW METRYCZNE RR

Walcowy metryczny na matę i szeroką powierzchnię czołową.

Pierścień przytrzymujący i O-ring NBR (np. Perbunan),  
FPM (np. Viton) na zamówienie.



| opis            | Śr.<br>zew.<br>rury | Seria<br>PN | S <sub>4</sub> | S  | S <sub>3</sub> | L  | l  | l <sub>3</sub> | D <sub>1</sub> | i    | G       | MA*<br>Nm | O-ring     | Pierścień<br>wspomagający<br>matę | kg /<br>100pcs |
|-----------------|---------------------|-------------|----------------|----|----------------|----|----|----------------|----------------|------|---------|-----------|------------|-----------------------------------|----------------|
| DS-BFE 6-ML/OA  | 6                   | L 315       | 14             | 14 | 14             | 24 | 9  | 20,5           | 15             | 5,5  | M10x1   | 18        | 8x1,88     | KAM M10x1                         | 5,7            |
| DS-BFE 8-ML/OA  | 8                   | L 315       | 17             | 14 | 17             | 27 | 12 | 20,5           | 18             | 8,5  | M12x1,5 | 35        | 9,3x2,2    | KAM M12x1,5                       | 6,2            |
| DS-BFE 10-ML/OA | 10                  | L 315       | 19             | 19 | 19             | 27 | 12 | 25,5           | 20             | 8,5  | M14x1,5 | 55        | 11,3x2,2   | KAM M14x1,5                       | 10,4           |
| DS-BFE 12-ML/OA | 12                  | L 315       | 22             | 19 | 22             | 28 | 14 | 25,5           | 23             | 8,5  | M16x1,5 | 80        | 13,3x2,2   | KAM M16x1,5                       | 14,0           |
| DS-BFE 15-ML/OA | 15                  | L 315       | 24             | 22 | 27             | 32 | 17 | 26,0           | 25             | 9,0  | M18x1,5 | 105       | 15,54x2,62 | KAM M18x1,5                       | 19,8           |
| DS-BFE 18-ML/OA | 18                  | L 250       | 27             | 27 | 32             | 33 | 17 | 32,5           | 28             | 9,5  | M22x1,5 | 125       | 19,2x3     | KAM M22x1,5                       | 26,0           |
| DS-BFE 22-ML/OA | 22                  | L 160       | 32             | 30 | 36             | 35 | 19 | 35,5           | 33             | 11,5 | M27x2   | 220       | 23,47x2,95 | KAM M27x2                         | 38,2           |
| DS-BFE 28-ML/OA | 28                  | L 160       | 41             | 36 | 41             | 40 | 23 | 37,5           | 41             | 11,5 | M33x2   | 370       | 29,2x3     | KAM M33x2                         | 40,6           |
| DS-BFE 35-ML/OA | 35                  | L 160       | 50             | 50 | 50             | 48 | 27 | 39,5           | 51             | 11,5 | M42x2   | 500       | 37,69x3,53 | KAM M42x2                         | 72,9           |
| DS-BFE 42-ML/OA | 42                  | L 160       | 55             | 50 | 60             | 49 | 26 | 39,5           | 56             | 13,5 | M48x2   | 600       | 43,69x3    | KAM M48x2                         | 81,3           |
| DS-BFE 6-MS/OA  | 6                   | S 315       | 17             | 14 | 17             | 24 | 9  | 19,5           | 18             | 8,5  | M12x1,5 | 35        | 9,3x2,2    | KAM M12x1,5                       | 6,4            |
| DS-BFE 8-MS/OA  | 8                   | S 315       | 19             | 19 | 19             | 27 | 12 | 22,5           | 20             | 8,5  | M14x1,5 | 55        | 11,3x2,2   | KAM M14x1,5                       | 10,5           |
| DS-BFE 10-MS/OA | 10                  | S 315       | 22             | 19 | 22             | 29 | 13 | 22,5           | 23             | 9,5  | M16x1,5 | 80        | 13,3x2,2   | KAM M16x1,5                       | 11,4           |
| DS-BFE 12-MS/OA | 12                  | S 315       | 24             | 22 | 24             | 33 | 17 | 24,0           | 25             | 10,0 | M18x1,5 | 105       | 15,54x2,62 | KAM M18x1,5                       | 14,9           |
| DS-BFE 16-MS/OA | 16                  | S 250       | 27             | 27 | 30             | 34 | 16 | 31,5           | 28             | 11,5 | M22x1,5 | 125       | 19,2x3     | KAM M22x1,5                       | 22,2           |
| DS-BFE 20-MS/OA | 20                  | S 250       | 32             | 30 | 36             | 38 | 16 | 33,5           | 33             | 13,5 | M27x2   | 220       | 23,47x2,95 | KAM M27x2                         | 40,1           |
| DS-BFE 25-MS/OA | 25                  | S 160       | 41             | 36 | 46             | 43 | 19 | 35,5           | 41             | 13,5 | M33x2   | 370       | 29,2x3     | KAM M33x2                         | 52,1           |
| DS-BFE 30-MS/OA | 30                  | S 160       | 50             | 50 | 50             | 50 | 24 | 37,5           | 51             | 14,5 | M42x2   | 500       | 37,69x3,53 | KAM M42x2                         | 81,7           |
| DS-BFE 38-MS/OA | 38                  | S 160       | 55             | 50 | 60             | 52 | 21 | 37,5           | 56             | 16,5 | M48x2   | 600       | 43,69x3    | KAM M48x2                         | 92,7           |

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwnastawnym jest stal

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ZŁĄCZA

### NASTAWNE ZŁĄCZE Z PRZECIWNAKR.

### CE NASTAWNY TRÓJNIK Z PRZECIWNAKR.

### Z GWINTEM NA ODGAŁĘZIENIU

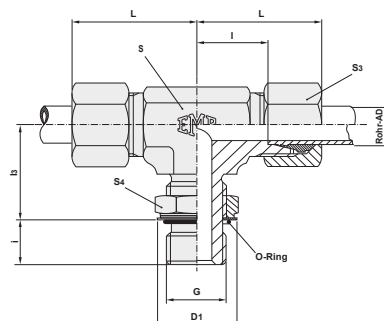
ŚWIAT ZŁĄCZY RUROWYCH

### CE NASTAWNY TRÓJNIK Z PRZECIWNAKR. Z GWINTEM NA ODGAŁĘZIENIU METRYCZNE

Walcowy metryczny.

ISO 6149 z uszczelnieniem typu O-ring.

O-ring NBR (np. Perbunan), FPM (np. Viton)  
na zamówienie.



| opis          | Śr.<br>zew.<br>rury | Seria<br>PN | S <sub>4</sub> | S  | S <sub>3</sub> | L  | l  | l <sub>3</sub> | D <sub>1</sub> | i  | G        | MA*<br>Nm | O-ring   | kg /<br>100pcs |
|---------------|---------------------|-------------|----------------|----|----------------|----|----|----------------|----------------|----|----------|-----------|----------|----------------|
| DS-CE 6-ML/O  | 6                   | L 315       | 14             | 14 | 14             | 29 | 14 | 20             | 15             | 7  | M 10x1   | 15        | 8,1x1,6  | 9,3            |
| DS-CE 8-ML/O  | 8                   | L 315       | 17             | 14 | 17             | 31 | 16 | 22             | 18             | 10 | M 12x1,5 | 25        | 9,3x2,2  | 10,3           |
| DS-CE 10-ML/O | 10                  | L 315       | 19             | 19 | 19             | 32 | 17 | 25             | 20             | 10 | M 14x1,5 | 35        | 11,3x2,2 | 17,5           |
| DS-CE 12-ML/O | 12                  | L 315       | 22             | 19 | 22             | 34 | 19 | 26             | 23             | 10 | M 16x1,5 | 40        | 13,3x2,2 | 19,1           |
| DS-CE 15-ML/O | 15                  | L 315       | 24             | 22 | 27             | 36 | 21 | 30             | 25             | 11 | M 18x1,5 | 45        | 15,3x2,2 | 33,1           |
| DS-CE 18-ML/O | 18                  | L 315       | 27             | 27 | 32             | 40 | 24 | 33             | 28             | 12 | M 22x1,5 | 60        | 19,3x2,2 | 42,3           |
| DS-CE 22-ML/O | 22                  | L 160       | 32             | 30 | 36             | 44 | 28 | 35             | 33             | 14 | M 27x2   | 100       | 23,6x2,9 | 73,7           |
| DS-CE 28-ML/O | 28                  | L 160       | 41             | 36 | 41             | 47 | 31 | 38             | 41             | 14 | M 33x2   | 160       | 29,6x2,9 | 77,7           |
| DS-CE 35-ML/O | 35                  | L 160       | 50             | 50 | 50             | 59 | 38 | 48             | 51             | 14 | M 42x2   | 210       | 38,6x2,9 | 126,0          |
| DS-CE 42-ML/O | 42                  | L 160       | 55             | 50 | 60             | 61 | 38 | 49             | 56             | 16 | M 48x2   | 260       | 44,6x2,9 | 142,8          |
| DS-CE 6-MS/O  | 6                   | S 400       | 17             | 14 | 17             | 30 | 15 | 22             | 18             | 10 | M 12x1,5 | 35        | 9,3x2,2  | 10,6           |
| DS-CE 8-MS/O  | 8                   | S 400       | 19             | 19 | 19             | 32 | 17 | 26             | 20             | 10 | M 14x1,5 | 45        | 11,3x2,2 | 17,7           |
| DS-CE 10-MS/O | 10                  | S 400       | 22             | 19 | 22             | 34 | 18 | 27             | 23             | 11 | M 16x1,5 | 55        | 13,3x2,2 | 19,5           |
| DS-CE 12-MS/O | 12                  | S 400       | 24             | 22 | 24             | 38 | 22 | 31             | 25             | 12 | M 18x1,5 | 70        | 15,3x2,2 | 31,3           |
| DS-CE 16-MS/O | 16                  | S 400       | 27             | 27 | 30             | 43 | 25 | 35             | 28             | 14 | M 22x1,5 | 100       | 19,3x2,2 | 42,7           |
| DS-CE 20-MS/O | 20                  | S 400       | 32             | 30 | 36             | 49 | 28 | 39             | 33             | 16 | M 27x2   | 170       | 23,6x2,9 | 77,5           |
| DS-CE 25-MS/O | 25                  | S 315       | 41             | 36 | 46             | 54 | 30 | 44             | 41             | 16 | M 33x2   | 310       | 29,6x2,9 | 100,7          |
| DS-CE 30-MS/O | 30                  | S 250       | 50             | 50 | 50             | 62 | 36 | 51             | 51             | 17 | M 42x2   | 330       | 38,6x2,9 | 143,6          |
| DS-CE 38-MS/O | 38                  | S 200       | 55             | 50 | 60             | 65 | 34 | 54             | 56             | 19 | M 48x2   | 420       | 44,6x2,9 | 165,6          |

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwstawnym jest stal

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

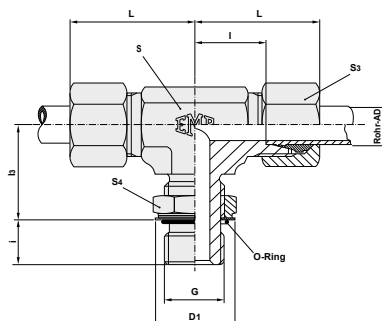
## ZŁĄCZA

### NASTAWNE ZŁĄCZE Z PRZECIWNAKR. CE NASTAWNY TRÓJNIK Z PRZECIWNAKR. Z GWINTEM NA ODGAŁĘZIENIU

#### CE NASTAWNY TRÓJNIK Z PRZECIWNAKR. I GWINTEM W ODGAŁĘZIENIU UNF/UN

UNF / UN gwint. walc. z uszczelnieniem  
typu O-ring.

O-ring NBR (np. Perbunan), FPM (np. Viton)  
na zamówienie.



| opis                   | Sr.<br>zew.<br>rury | Seria<br>PN | S <sub>4</sub> | S  | S <sub>3</sub> | L  | l  | l <sub>3</sub> | D <sub>1</sub> | i  | G              | MA*<br>Nm | O-ring     | kg /<br>100pcs |
|------------------------|---------------------|-------------|----------------|----|----------------|----|----|----------------|----------------|----|----------------|-----------|------------|----------------|
| DS-CE 6-L/7/16-20UNF   | 6                   | L 315       | 14             | 14 | 14             | 29 | 14 | 19             | 16,5           | 10 | 7/16-20UNF-2A  | 19        | 8,92x1,83  | 9,1            |
| DS-CE 8-L/7/16-20UNF   | 8                   | L 315       | 14             | 14 | 17             | 31 | 16 | 19             | 16,5           | 10 | 7/16-20UNF-2A  | 19        | 8,92x1,83  | 10,1           |
| DS-CE 10-L/9/16-18UNF  | 10                  | L 315       | 17             | 19 | 19             | 32 | 17 | 24             | 20,2           | 11 | 9/16-18UNF-2A  | 40        | 11,89x1,98 | 17,5           |
| DS-CE 12-L/9/16-18UNF  | 12                  | L 315       | 17             | 19 | 22             | 34 | 19 | 25             | 20,2           | 11 | 9/16-18UNF-2A  | 40        | 11,89x1,98 | 19,5           |
| DS-CE 12-L/3/4-16UNF   | 12                  | L 315       | 22             | 19 | 22             | 34 | 19 | 25             | 25,7           | 13 | 3/4-16UNF-2A   | 60        | 16,36x2,21 | 24,7           |
| DS-CE 15-L/3/4-16UNF   | 15                  | L 315       | 22             | 22 | 27             | 36 | 21 | 28             | 25,7           | 13 | 3/4-16UNF-2A   | 60        | 16,36x2,21 | 32,9           |
| DS-CE 15-L/7/8-14UNF   | 15                  | L 315       | 27             | 22 | 27             | 36 | 21 | 28             | 29,3           | 15 | 7/8-14UNF-2A   | 80        | 19,18x2,46 | 32,9           |
| DS-CE 18-L/7/8-14UNF   | 18                  | L 315       | 27             | 27 | 32             | 40 | 24 | 32             | 29,3           | 15 | 7/8-14UNF-2A   | 80        | 19,18x2,46 | 41,9           |
| DS-CE 18-L/1,1/6-12UN  | 18                  | L 315       | 32             | 30 | 32             | 40 | 24 | 32             | 36,7           | 17 | 1,1/16-12UN-2A | 110       | 23,47x2,95 | 58,1           |
| DS-CE 22-L/1,1/6-12UN  | 22                  | L 160       | 32             | 30 | 36             | 44 | 28 | 35             | 36,7           | 17 | 1,1/16-12UN-2A | 110       | 23,47x2,95 | 62,9           |
| DS-CE 28-L/1,5/8-12UN  | 28                  | L 160       | 41             | 36 | 41             | 47 | 31 | 42             | 44,0           | 17 | 1,5/8-12UN-2A  | 160       | 29,74x2,95 | 75,1           |
| DS-CE 35-L/1,5/8-12UN  | 35                  | L 160       | 50             | 50 | 50             | 59 | 38 | 46             | 55,0           | 17 | 1,5/8-12UN-2A  | 300       | 37,46x3    | 126,2          |
| DS-CE 42-L/1,7/8-12UN  | 42                  | L 160       | 55             | 50 | 60             | 61 | 38 | 47             | 62,3           | 17 | 1,7/8-12UN-2A  | 340       | 43,69x3    | 148,2          |
| DS-CE 6-S/7/16-20UNF   | 6                   | S 400       | 14             | 14 | 17             | 30 | 15 | 20             | 16,5           | 11 | 7/16-20UNF-2A  | 21        | 8,92x1,83  | 10,7           |
| DS-CE 8-S/9/16-18UNF   | 8                   | S 400       | 17             | 19 | 19             | 32 | 17 | 25             | 20,2           | 12 | 9/16-18UNF-2A  | 50        | 11,89x1,98 | 17,7           |
| DS-CE 10-S/9/16-18UNF  | 10                  | S 400       | 17             | 19 | 22             | 34 | 18 | 26             | 20,2           | 12 | 9/16-18UNF-2A  | 50        | 11,89x1,98 | 19,5           |
| DS-CE 12-S/3/4-16UNF   | 12                  | S 400       | 22             | 22 | 24             | 38 | 22 | 30             | 25,7           | 14 | 3/4-16UNF-2A   | 80        | 16,36x2,21 | 31,1           |
| DS-CE 16-S/7/8-14UNF   | 16                  | S 400       | 27             | 27 | 30             | 43 | 25 | 34             | 29,3           | 16 | 7/8-14UNF-2A   | 140       | 19,18x2,46 | 42,3           |
| DS-CE 20-S/1,1/16-12UN | 20                  | S 400       | 32             | 30 | 36             | 49 | 28 | 37             | 36,7           | 19 | 1,1/16-12UN-2A | 190       | 23,47x2,95 | 66,7           |
| DS-CE 25-S/1,1/16-12UN | 25                  | S 400       | 32             | 36 | 46             | 54 | 30 | 50             | 36,7           | 19 | 1,1/16-12UN-2A | 190       | 23,47x2,95 | 98,1           |
| DS-CE 30-S/1,5/8-12UN  | 30                  | S 250       | 50             | 50 | 50             | 62 | 36 | 50             | 55,0           | 19 | 1,5/8-12UN-2A  | 350       | 37,46x3    | 143,8          |
| DS-CE 38-S/1,7/8-12UN  | 38                  | S 250       | 55             | 50 | 60             | 65 | 34 | 51             | 63,0           | 19 | 1,7/8-12UN-2A  | 430       | 43,69x3    | 165,8          |

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwstawnym jest stal  
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.



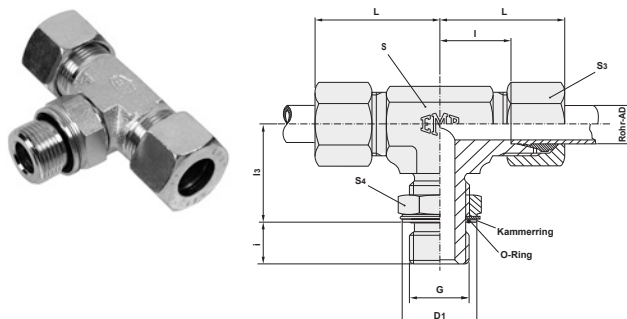
## ZŁĄCZA NASTAWNE ZŁĄCZE Z PRZECIWNAKR. CE NASTAWNY TRÓJNIK Z PRZECIWNAKR. Z GWINTEM NA ODGAŁĘZIENIU

ŚWIAT ZŁĄCZY RUROWYCH

### CE NASTAWNY TRÓJNIK Z PRZECIWNAKR. I GWINTEM W ODGAŁĘZIENIU BSP RR

BSP walcowy do małej i szerokiej powierzchni<czotowej.

Pierścień przytrzymujący i O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis           | Śr. zew. rury | Seria PN | S <sub>4</sub> | S  | S <sub>3</sub> | L  | I  | L <sub>3</sub> | D <sub>1</sub> | i    | G         | MA* Nm | O-ring     | Pierścień wspomagający mały | kg / 100pcs |
|----------------|---------------|----------|----------------|----|----------------|----|----|----------------|----------------|------|-----------|--------|------------|-----------------------------|-------------|
| DS-CE 6-RL/OA  | 6             | L 315    | 14             | 14 | 14             | 29 | 14 | 20,5           | 15             | 5,5  | G 1/8"A   | 25     | 8x1,88     | KAM R1/8                    | 9,3         |
| DS-CE 8-RL/OA  | 8             | L 315    | 19             | 14 | 17             | 31 | 16 | 25,0           | 20             | 7,0  | G 1/4"A   | 50     | 10,77x2,62 | KAM R1/4                    | 10,3        |
| DS-CE 10-RL/OA | 10            | L 315    | 19             | 19 | 19             | 32 | 17 | 27,0           | 20             | 7,0  | G 1/4"A   | 50     | 10,77x2,62 | KAM R1/4                    | 17,1        |
| DS-CE 12-RL/OA | 12            | L 250    | 22             | 19 | 22             | 34 | 19 | 30,0           | 23             | 7,0  | G 3/8"A   | 80     | 13,94x2,62 | KAM R3/8                    | 20,6        |
| DS-CE 15-RL/OA | 15            | L 250    | 27             | 22 | 27             | 36 | 21 | 32,5           | 28             | 10,5 | G 1/2"A   | 105    | 17x3       | KAM R1/2                    | 31,3        |
| DS-CE 18-RL/OA | 18            | L 250    | 27             | 27 | 32             | 40 | 24 | 38,5           | 28             | 10,5 | G 1/2"A   | 105    | 17x3       | KAM R1/2                    | 42,8        |
| DS-CE 22-RL/OA | 22            | L 160    | 36             | 30 | 36             | 44 | 28 | 38,5           | 33             | 10,5 | G 3/4"A   | 220    | 23,6x2,9   | KAM R3/4                    | 71,9        |
| DS-CE 28-RL/OA | 28            | L 160    | 41             | 36 | 41             | 47 | 31 | 46,5           | 41             | 12,5 | G 1"A     | 370    | 29,74x3,53 | KAM R1                      | 81,2        |
| DS-CE 35-RL/OA | 35            | L 160    | 50             | 50 | 50             | 59 | 38 | 52,5           | 51             | 12,5 | G 1 1/4"A | 500    | 37,69x3,53 | KAM R1 1/4                  | 126,0       |
| DS-CE 42-RL/OA | 42            | L 160    | 55             | 50 | 60             | 61 | 38 | 54,5           | 56             | 12,5 | G 1 1/2"A | 600    | 44,04x3,53 | KAM R1 1/2                  | 142,8       |
| DS-CE 6-RS/OA  | 6             | S 315    | 19             | 14 | 17             | 30 | 15 | 25,0           | 20             | 7,0  | G 1/4"A   | 50     | 10,77x2,62 | KAM R1/4                    | 10,9        |
| DS-CE 8-RS/OA  | 8             | S 315    | 19             | 19 | 19             | 32 | 17 | 27,0           | 20             | 7,0  | G 1/4"A   | 50     | 10,77x2,62 | KAM R1/4                    | 15,3        |
| DS-CE 10-RS/OA | 10            | S 250    | 22             | 19 | 22             | 34 | 18 | 30,0           | 23             | 7,0  | G 3/8"A   | 80     | 13,94x2,62 | KAM R3/8                    | 19,1        |
| DS-CE 12-RS/OA | 12            | S 250    | 22             | 22 | 24             | 38 | 22 | 30,0           | 23             | 7,0  | G 3/8"A   | 80     | 13,94x2,62 | KAM R3/8                    | 23,8        |
| DS-CE 16-RS/OA | 16            | S 250    | 27             | 27 | 30             | 43 | 25 | 38,5           | 28             | 10,5 | G 1/2"A   | 105    | 17x3       | KAM R1/2                    | 43,2        |
| DS-CE 20-RS/OA | 20            | S 250    | 36             | 30 | 36             | 49 | 28 | 38,5           | 33             | 10,5 | G 3/4"A   | 220    | 23,6x2,9   | KAM R3/4                    | 75,7        |
| DS-CE 25-RS/OA | 25            | S 250    | 41             | 36 | 46             | 54 | 30 | 46,5           | 41             | 12,5 | G 1"A     | 370    | 29,74x3,53 | KAM R1                      | 104,2       |
| DS-CE 30-RS/OA | 30            | S 160    | 50             | 50 | 50             | 62 | 36 | 51,5           | 51             | 12,5 | G 1 1/4"A | 500    | 37,69x3,53 | KAM R1 1/4                  | 143,6       |
| DS-CE 38-RS/OA | 38            | S 160    | 55             | 50 | 60             | 65 | 34 | 57,5           | 56             | 12,5 | G 1 1/2"A | 600    | 44,04x3,53 | KAM R1 1/2                  | 165,6       |

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwnym jest stal  
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne – Wybór właściwego złącza rurowego”.

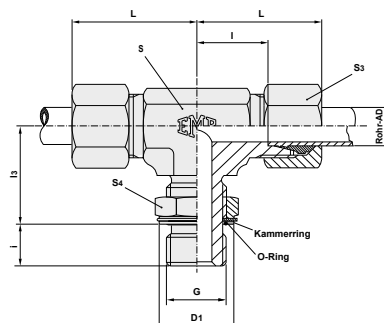
## ZŁĄCZA

### NASTAWNE ZŁĄCZE Z PRZECIWNAKR. CE NASTAWNY TRÓJNIK Z PRZECIWNAKR. Z GWINTEM NA ODGAŁĘZIENIU

#### CE NASTAWNY TRÓJNIK Z PRZECIWNAKR. Z GWINTEM NA ODGAŁĘZIENIU METRYCZNE RR

Walcowy metryczny na małą i szeroką powierzchnię czołową.

Pierścień przytrzymujący i O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis           | Śr.<br>zew.<br>rury | Seria<br>PN | S <sub>4</sub> | S  | S <sub>3</sub> | L  | I  | l <sub>3</sub> | D <sub>1</sub> | i    | G        | MA*<br>Nm | O-ring     | Pierścień<br>wspomagający<br>mały | kg /<br>100pcs |
|----------------|---------------------|-------------|----------------|----|----------------|----|----|----------------|----------------|------|----------|-----------|------------|-----------------------------------|----------------|
| DS-CE 6-ML/OA  | 6                   | L 315       | 14             | 14 | 14             | 29 | 14 | 21,5           | 15             | 5,5  | M 10x1   | 18        | 8x1,88     | KAM M10x1                         | 9,3            |
| DS-CE 8-ML/OA  | 8                   | L 315       | 17             | 14 | 17             | 31 | 16 | 23,5           | 18             | 8,5  | M 12x1,5 | 35        | 9,3x2,2    | KAM M12x1,5                       | 10,3           |
| DS-CE 10-ML/OA | 10                  | L 315       | 19             | 19 | 19             | 32 | 17 | 26,5           | 20             | 8,5  | M 14x1,5 | 55        | 11,3x2,2   | KAM M14x1,5                       | 17,5           |
| DS-CE 12-ML/OA | 12                  | L 315       | 22             | 19 | 22             | 34 | 19 | 27,5           | 23             | 8,5  | M 16x1,5 | 80        | 13,3x2,2   | KAM M16x1,5                       | 19,1           |
| DS-CE 15-ML/OA | 15                  | L 315       | 24             | 22 | 27             | 36 | 21 | 32,0           | 25             | 9,0  | M 18x1,5 | 105       | 15,54x2,62 | KAM M18x1,5                       | 33,1           |
| DS-CE 18-ML/OA | 18                  | L 250       | 27             | 27 | 32             | 40 | 24 | 35,5           | 28             | 9,5  | M 22x1,5 | 125       | 19,2x3     | KAM M22x1,5                       | 42,3           |
| DS-CE 22-ML/OA | 22                  | L 160       | 32             | 30 | 36             | 44 | 28 | 37,5           | 33             | 11,5 | M 27x2   | 220       | 23,47x2,95 | KAM M27x2                         | 73,7           |
| DS-CE 28-ML/OA | 28                  | L 160       | 41             | 36 | 41             | 47 | 31 | 40,5           | 41             | 11,5 | M 33x2   | 370       | 29,2x3     | KAM M33x2                         | 77,7           |
| DS-CE 35-ML/OA | 35                  | L 160       | 50             | 50 | 50             | 59 | 38 | 50,5           | 51             | 11,5 | M 42x2   | 500       | 37,69x3,53 | KAM M42x2                         | 126,0          |
| DS-CE 42-ML/OA | 42                  | L 160       | 55             | 50 | 60             | 61 | 38 | 51,5           | 56             | 13,5 | M 48x2   | 600       | 43,69x3    | KAM M48x2                         | 142,8          |
| DS-CE 6-MS/OA  | 6                   | S 315       | 17             | 14 | 17             | 30 | 15 | 23,5           | 18             | 8,5  | M 12x1,5 | 35        | 9,3x2,2    | KAM M12x1,5                       | 10,6           |
| DS-CE 8-MS/OA  | 8                   | S 315       | 19             | 19 | 19             | 32 | 17 | 27,5           | 20             | 8,5  | M 14x1,5 | 55        | 11,3x2,2   | KAM M14x1,5                       | 17,7           |
| DS-CE 10-MS/OA | 10                  | S 315       | 22             | 19 | 22             | 34 | 18 | 28,5           | 23             | 9,5  | M 16x1,5 | 80        | 13,3x2,2   | KAM M16x1,5                       | 19,5           |
| DS-CE 12-MS/OA | 12                  | S 315       | 24             | 22 | 24             | 38 | 22 | 33,0           | 25             | 10,0 | M 18x1,5 | 105       | 15,54x2,62 | KAM M18x1,5                       | 31,3           |
| DS-CE 16-MS/OA | 16                  | S 250       | 27             | 27 | 30             | 43 | 25 | 37,5           | 28             | 11,5 | M 22x1,5 | 125       | 19,2x3     | KAM M22x1,5                       | 42,7           |
| DS-CE 20-MS/OA | 20                  | S 250       | 32             | 30 | 36             | 49 | 28 | 41,5           | 33             | 13,5 | M 27x2   | 220       | 23,47x2,95 | KAM M27x2                         | 77,5           |
| DS-CE 25-MS/OA | 25                  | S 160       | 41             | 36 | 46             | 54 | 30 | 46,5           | 41             | 13,5 | M 33x2   | 370       | 29,2x3     | KAM M33x2                         | 100,7          |
| DS-CE 30-MS/OA | 30                  | S 160       | 50             | 50 | 50             | 62 | 36 | 53,5           | 51             | 14,5 | M 42x2   | 500       | 37,69x3,53 | KAM M42x2                         | 143,6          |
| DS-CE 38-MS/OA | 38                  | S 160       | 55             | 50 | 60             | 65 | 34 | 56,5           | 56             | 16,5 | M 48x2   | 600       | 43,69x3    | KAM M48x2                         | 165,6          |

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwstawnym jest stal  
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ZŁĄCZA NASTAWNE ZŁĄCZE Z PRZECIWNAKR. DE REGULOWANY TRÓJNIK Z GWINTEM ZEWN. NA PRZELOCIE I PRZECIWNAKR.

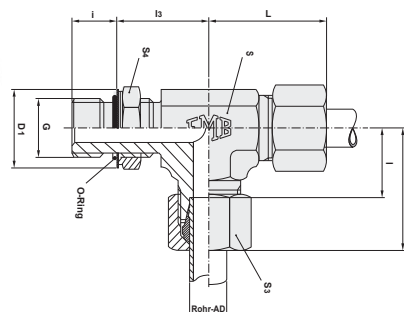
ŚWIAT ZŁĄCZY RUROWYCH

### DE REGULOWANY TRÓJNIK Z GWINTEM ZEWN. NA PRZELOCIE I PRZECIWNAKR. METRYCZNE

Walcowy metryczny.

ISO 6149 z uszczelnieniem typu O-ring.

O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis          | Śr.<br>zew.<br>rury | Seria<br>PN | S <sub>4</sub> | S  | S <sub>3</sub> | L  | l  | l <sub>3</sub> | D <sub>1</sub> | i  | G        | MA*<br>Nm | O-ring   | kg /<br>100pcs |
|---------------|---------------------|-------------|----------------|----|----------------|----|----|----------------|----------------|----|----------|-----------|----------|----------------|
| DS-DE 6-ML/O  | 6                   | L 315       | 14             | 14 | 14             | 29 | 14 | 20             | 15             | 7  | M 10x1   | 15        | 8,1x1,6  | 9,3            |
| DS-DE 8-ML/O  | 8                   | L 315       | 17             | 14 | 17             | 31 | 16 | 22             | 18             | 10 | M 12x1,5 | 25        | 9,3x2,2  | 10,3           |
| DS-DE 10-ML/O | 10                  | L 315       | 19             | 19 | 19             | 32 | 17 | 25             | 20             | 10 | M 14x1,5 | 35        | 11,3x2,2 | 17,5           |
| DS-DE 12-ML/O | 12                  | L 315       | 22             | 19 | 22             | 34 | 19 | 26             | 23             | 10 | M 16x1,5 | 40        | 13,3x2,2 | 19,1           |
| DS-DE 15-ML/O | 15                  | L 315       | 24             | 22 | 27             | 36 | 21 | 30             | 25             | 11 | M 18x1,5 | 45        | 15,3x2,2 | 33,1           |
| DS-DE 18-ML/O | 18                  | L 315       | 27             | 27 | 32             | 40 | 24 | 33             | 28             | 12 | M 22x1,5 | 60        | 19,3x2,2 | 42,3           |
| DS-DE 22-ML/O | 22                  | L 160       | 32             | 30 | 36             | 44 | 28 | 35             | 33             | 14 | M 27x2   | 100       | 23,6x2,9 | 73,7           |
| DS-DE 28-ML/O | 28                  | L 160       | 41             | 36 | 41             | 47 | 31 | 38             | 41             | 14 | M 33x2   | 160       | 29,6x2,9 | 77,7           |
| DS-DE 35-ML/O | 35                  | L 160       | 50             | 50 | 50             | 59 | 38 | 48             | 51             | 14 | M 42x2   | 210       | 38,6x2,9 | 126,0          |
| DS-DE 42-ML/O | 42                  | L 160       | 55             | 50 | 60             | 61 | 38 | 49             | 56             | 16 | M 48x2   | 260       | 44,6x2,9 | 142,8          |
| DS-DE 6-MS/O  | 6                   | S 400       | 17             | 14 | 17             | 30 | 15 | 22             | 18             | 10 | M 12x1,5 | 35        | 9,3x2,2  | 10,6           |
| DS-DE 8-MS/O  | 8                   | S 400       | 19             | 19 | 19             | 32 | 17 | 26             | 20             | 10 | M 14x1,5 | 45        | 11,3x2,2 | 17,7           |
| DS-DE 10-MS/O | 10                  | S 400       | 22             | 19 | 22             | 34 | 18 | 27             | 23             | 11 | M 16x1,5 | 55        | 13,3x2,2 | 19,5           |
| DS-DE 12-MS/O | 12                  | S 400       | 24             | 22 | 24             | 38 | 22 | 31             | 25             | 12 | M 18x1,5 | 70        | 15,3x2,2 | 31,3           |
| DS-DE 16-MS/O | 16                  | S 400       | 27             | 27 | 30             | 43 | 25 | 35             | 28             | 14 | M 22x1,5 | 100       | 19,3x2,2 | 42,7           |
| DS-DE 20-MS/O | 20                  | S 400       | 32             | 30 | 36             | 49 | 28 | 39             | 33             | 16 | M 27x2   | 170       | 23,6x2,9 | 77,5           |
| DS-DE 25-MS/O | 25                  | S 250       | 41             | 36 | 46             | 54 | 30 | 44             | 41             | 16 | M 33x2   | 310       | 29,6x2,9 | 100,7          |
| DS-DE 30-MS/O | 30                  | S 200       | 50             | 50 | 50             | 62 | 36 | 51             | 51             | 17 | M 42x2   | 330       | 38,6x2,9 | 143,6          |
| DS-DE 38-MS/O | 38                  | S 200       | 55             | 50 | 60             | 65 | 34 | 54             | 56             | 19 | M 48x2   | 420       | 44,6x2,9 | 165,6          |

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwnastawnym jest stal

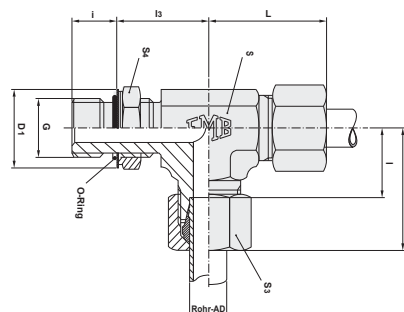
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ZŁĄCZA

### NASTAWNE ZŁĄCZE Z PRZECIWNAKR.

DE REGULOWANY TRÓJNIK Z GWINTEM ZEWN.  
NA PRZELOCIE I PRZECIWNAKR.

### DE REGULOWANY TRÓJNIK Z GWINTEM ZEWN. NA PRZELOCIE I PRZECIWNAKR. UNF/UN



UNF / UN gwint. walc. z uszczelnieniem typu O-ring.

ISO 6149 z uszczelnieniem typu O-ring.

O-ring NBR (np. Perbunan), FPM (np. Viton)  
na zamówienie.

| opis                   | Śr.<br>zew.<br>rury | Seria<br>PN | S <sub>4</sub> | S  | S <sub>3</sub> | L  | l  | l <sub>3</sub> | D <sub>1</sub> | i  | G              | MA*<br>Nm | O-ring     | kg /<br>100pcs |
|------------------------|---------------------|-------------|----------------|----|----------------|----|----|----------------|----------------|----|----------------|-----------|------------|----------------|
| DS-DE 6-L/7/16-20UNF   | 6                   | L 315       | 14             | 14 | 14             | 29 | 14 | 19             | 16,5           | 10 | 7/16-20UNF-2A  | 19        | 8,92x1,83  | 9,1            |
| DS-DE 8-L/7/16-20UNF   | 8                   | L 315       | 14             | 14 | 17             | 31 | 16 | 19             | 16,5           | 10 | 7/16-20UNF-2A  | 19        | 8,92x1,83  | 10,1           |
| DS-DE 10-L/9/16-18UNF  | 10                  | L 315       | 17             | 19 | 19             | 32 | 17 | 24             | 20,2           | 11 | 9/16-18UNF-2A  | 40        | 11,89x1,98 | 17,5           |
| DS-DE 12-L/9/16-18UNF  | 12                  | L 315       | 17             | 19 | 22             | 34 | 19 | 25             | 20,2           | 11 | 9/16-18UNF-2A  | 40        | 11,89x1,98 | 19,5           |
| DS-DE 12-L/3/4-16UNF   | 12                  | L 315       | 22             | 19 | 22             | 34 | 19 | 25             | 25,7           | 13 | 3/4-16UNF-2A   | 60        | 16,36x2,21 | 24,7           |
| DS-DE 15-L/3/4-16UNF   | 15                  | L 315       | 22             | 22 | 27             | 36 | 21 | 28             | 25,7           | 13 | 3/4-16UNF-2A   | 60        | 16,36x2,21 | 32,9           |
| DS-DE 15-L/7/8-14UNF   | 15                  | L 315       | 27             | 22 | 27             | 36 | 21 | 28             | 29,3           | 15 | 7/8-14UNF-2A   | 80        | 19,18x2,46 | 32,9           |
| DS-DE 18-L/7/8-14UNF   | 18                  | L 315       | 27             | 27 | 32             | 40 | 24 | 32             | 29,3           | 15 | 7/8-14UNF-2A   | 80        | 19,18x2,46 | 41,9           |
| DS-DE 18-L/1,1/6-12UN  | 18                  | L 315       | 32             | 30 | 32             | 40 | 24 | 32             | 36,7           | 17 | 1,1/16-12UN-2A | 110       | 23,47x2,95 | 58,1           |
| DS-DE 22-L/1,1/6-12UN  | 22                  | L 160       | 32             | 30 | 36             | 44 | 28 | 35             | 36,7           | 17 | 1,1/16-12UN-2A | 110       | 23,47x2,95 | 62,9           |
| DS-DE 28-L/1,5/16-12UN | 28                  | L 160       | 41             | 36 | 41             | 47 | 31 | 42             | 44,0           | 17 | 1,5/16-12UN-2A | 160       | 29,74x2,95 | 75,1           |
| DS-DE 35-L/1,5/8-12UN  | 35                  | L 160       | 50             | 50 | 50             | 59 | 38 | 46             | 55,0           | 17 | 1,5/8-12UN-2A  | 300       | 37,46x3    | 126,2          |
| DS-DE 42-L/1,7/8-12UN  | 42                  | L 160       | 55             | 50 | 60             | 61 | 38 | 47             | 62,3           | 17 | 1,7/8-12UN-2A  | 340       | 43,69x3    | 148,2          |
| DS-DE 6-S/7/16-20UNF   | 6                   | S 400       | 14             | 14 | 17             | 30 | 15 | 20             | 16,5           | 11 | 7/16-20UNF-2A  | 21        | 8,92x1,83  | 10,7           |
| DS-DE 8-S/9/16-18UNF   | 8                   | S 400       | 17             | 19 | 19             | 32 | 17 | 25             | 20,2           | 12 | 9/16-18UNF-2A  | 50        | 11,89x1,98 | 17,7           |
| DS-DE 10-S/9/16-18UNF  | 10                  | S 400       | 17             | 19 | 22             | 34 | 18 | 26             | 20,2           | 12 | 9/16-18UNF-2A  | 50        | 11,89x1,98 | 19,5           |
| DS-DE 12-S/3/4-16UNF   | 12                  | S 400       | 22             | 22 | 24             | 38 | 22 | 30             | 25,7           | 14 | 3/4-16UNF-2A   | 80        | 16,36x2,21 | 31,1           |
| DS-DE 16-S/7/8-14UNF   | 16                  | S 400       | 27             | 27 | 30             | 43 | 25 | 34             | 29,3           | 16 | 7/8-14UNF-2A   | 140       | 19,18x2,46 | 42,3           |
| DS-DE 20-S/1,1/16-12UN | 20                  | S 400       | 32             | 30 | 36             | 49 | 28 | 37             | 36,7           | 19 | 1,1/16-12UN-2A | 190       | 23,47x2,95 | 66,7           |
| DS-DE 25-S/1,1/16-12UN | 25                  | S 400       | 32             | 36 | 46             | 54 | 30 | 50             | 36,7           | 19 | 1,1/16-12UN-2A | 190       | 23,47x2,95 | 98,1           |
| DS-DE 30-S/1,5/8-12UN  | 30                  | S 250       | 50             | 50 | 50             | 62 | 36 | 50             | 55,0           | 19 | 1,5/8-12UN-2A  | 350       | 37,46x3    | 143,8          |
| DS-DE 38-S/1,7/8-12UN  | 38                  | S 250       | 55             | 50 | 60             | 65 | 34 | 51             | 63,0           | 19 | 1,7/8-12UN-2A  | 430       | 43,69x3    | 165,8          |

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwnym jest stal

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

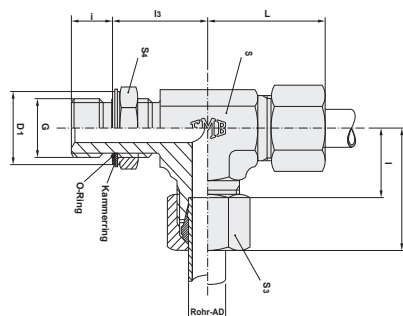
## ZŁĄCZA NASTAWNE ZŁĄCZE Z PRZECIWNAKR. DE REGULOWANY TRÓJNIK Z GWINTEM ZEWN. NA PRZELOCIE I PRZECIWNAKR.

ŚWIAT ZŁĄCZY RUROWYCH

### DE REGULOWANY TRÓJNIK Z GWINTEM ZEWN. NA PRZELOCIE I PRZECIWNAKR. BSP RR

BSP walcowy do małej i szerokiej powierzchni czotowej.

Pierścień przytrzymujący i O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis           | Śr.<br>zew.<br>rury | Seria<br>PN | S <sub>4</sub> | S  | S <sub>3</sub> | L  | l  | l <sub>3</sub> | D <sub>1</sub> | i    | G         | MA*<br>Nm | O-ring     | Pierścień<br>wspomagający<br>maty | kg /<br>100pcs |
|----------------|---------------------|-------------|----------------|----|----------------|----|----|----------------|----------------|------|-----------|-----------|------------|-----------------------------------|----------------|
| DS-DE 6-RL/OA  | 6                   | L 315       | 14             | 14 | 14             | 29 | 14 | 20,5           | 15             | 5,5  | G 1/8"A   | 25        | 8x1,88     | KAM R1/8                          | 9,3            |
| DS-DE 8-RL/OA  | 8                   | L 315       | 19             | 14 | 17             | 31 | 16 | 25,0           | 20             | 7,0  | G 1/4"A   | 50        | 10,77x2,62 | KAM R1/4                          | 10,3           |
| DS-DE 10-RL/OA | 10                  | L 315       | 19             | 19 | 19             | 32 | 17 | 27,0           | 20             | 7,0  | G 1/4"A   | 50        | 10,77x2,62 | KAM R1/4                          | 17,1           |
| DS-DE 12-RL/OA | 12                  | L 250       | 22             | 19 | 22             | 34 | 19 | 30,0           | 23             | 7,0  | G 3/8"A   | 80        | 13,94x2,62 | KAM R3/8                          | 20,6           |
| DS-DE 15-RL/OA | 15                  | L 250       | 27             | 22 | 27             | 36 | 21 | 32,5           | 28             | 10,5 | G 1/2"A   | 105       | 17x3       | KAM R1/2                          | 31,3           |
| DS-DE 18-RL/OA | 18                  | L 250       | 27             | 27 | 32             | 40 | 24 | 38,5           | 28             | 10,5 | G 1/2"A   | 105       | 17x3       | KAM R1/2                          | 42,8           |
| DS-DE 22-RL/OA | 22                  | L 160       | 36             | 30 | 36             | 44 | 28 | 38,5           | 33             | 10,5 | G 3/4"A   | 220       | 23,6x2,9   | KAM R3/4                          | 71,9           |
| DS-DE 28-RL/OA | 28                  | L 160       | 41             | 36 | 41             | 47 | 31 | 46,5           | 41             | 12,5 | G 1"A     | 370       | 29,74x3,53 | KAM R1                            | 81,2           |
| DS-DE 35-RL/OA | 35                  | L 160       | 50             | 50 | 50             | 59 | 38 | 52,5           | 51             | 12,5 | G 1 1/4"A | 500       | 37,69x3,53 | KAM R1 1/4                        | 126,0          |
| DS-DE 42-RL/OA | 42                  | L 160       | 55             | 50 | 60             | 61 | 38 | 54,5           | 56             | 12,5 | G 1 1/2"A | 600       | 44,04x3,53 | KAM R1 1/2                        | 142,8          |
| DS-DE 6-RS/OA  | 6                   | S 315       | 19             | 14 | 17             | 30 | 15 | 25,0           | 20             | 7,0  | G 1/4"A   | 50        | 10,77x2,62 | KAM R1/4                          | 10,9           |
| DS-DE 8-RS/OA  | 8                   | S 315       | 19             | 19 | 19             | 32 | 17 | 27,0           | 20             | 7,0  | G 1/4"A   | 50        | 10,77x2,62 | KAM R1/4                          | 15,3           |
| DS-DE 10-RS/OA | 10                  | S 250       | 22             | 19 | 22             | 34 | 18 | 30,0           | 23             | 7,0  | G 3/8"A   | 80        | 13,94x2,62 | KAM R3/8                          | 19,1           |
| DS-DE 12-RS/OA | 12                  | S 250       | 22             | 22 | 24             | 38 | 22 | 30,0           | 23             | 7,0  | G 3/8"A   | 80        | 13,94x2,62 | KAM R3/8                          | 23,8           |
| DS-DE 16-RS/OA | 16                  | S 250       | 27             | 27 | 30             | 43 | 25 | 38,5           | 28             | 10,5 | G 1/2"A   | 105       | 17x3       | KAM R1/2                          | 43,2           |
| DS-DE 20-RS/OA | 20                  | S 250       | 36             | 30 | 36             | 49 | 28 | 38,5           | 33             | 10,5 | G 3/4"A   | 220       | 23,6x2,9   | KAM R3/4                          | 75,7           |
| DS-DE 25-RS/OA | 25                  | S 250       | 41             | 36 | 46             | 54 | 30 | 46,5           | 41             | 12,5 | G 1"A     | 370       | 29,74x3,53 | KAM R1                            | 104,2          |
| DS-DE 30-RS/OA | 30                  | S 160       | 50             | 50 | 50             | 62 | 36 | 51,5           | 51             | 12,5 | G 1 1/4"A | 500       | 37,69x3,53 | KAM R1 1/4                        | 143,6          |
| DS-DE 38-RS/OA | 38                  | S 160       | 55             | 50 | 60             | 65 | 34 | 57,5           | 56             | 12,5 | G 1 1/2"A | 600       | 44,04x3,53 | KAM R1 1/2                        | 165,6          |

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwnym jest stal  
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ZŁĄCZA

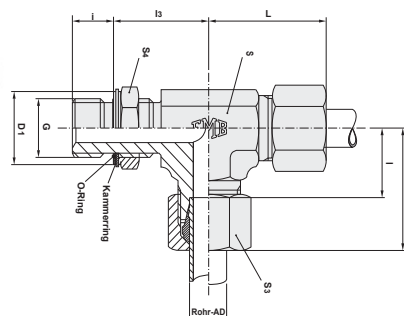
### NASTAWNE ZŁĄCZE Z PRZECIWNAKR.

DE REGULOWANY TRÓJNIK Z GWINTEM ZEWN.  
NA PRZELOCIE I PRZECIWNAKR.

### DE REGULOWANY TRÓJNIK Z GWINTEM ZEWN. NA PRZELOCIE I PRZECIWNAKR. METRYCZNE RR

Walcowy metryczny na małą i szeroką powierzchnię czołową.

Pierścień przytrzymujący i O-ring NBR (np. Perbunan),  
FPM (np. Viton) na zamówienie.



| opis           | Śr.<br>zew.<br>rury | Seria<br>PN | S <sub>4</sub> | S  | S <sub>3</sub> | L  | l  | L <sub>3</sub> | D <sub>1</sub> | i    | G        | MA*<br>Nm | O-ring     | Pierścień<br>wspomagający<br>mały | kg /<br>100pcs |
|----------------|---------------------|-------------|----------------|----|----------------|----|----|----------------|----------------|------|----------|-----------|------------|-----------------------------------|----------------|
| DS-DE 6-ML/OA  | 6                   | L 315       | 14             | 14 | 14             | 29 | 14 | 21,5           | 15             | 5,5  | M 10x1   | 18        | 8x1,88     | KAM M10x1                         | 9,3            |
| DS-DE 8-ML/OA  | 8                   | L 315       | 17             | 14 | 17             | 31 | 16 | 23,5           | 18             | 8,5  | M 12x1,5 | 35        | 9,3x2,2    | KAM M12x1,5                       | 10,3           |
| DS-DE 10-ML/OA | 10                  | L 315       | 19             | 19 | 19             | 32 | 17 | 26,5           | 20             | 8,5  | M 14x1,5 | 55        | 11,3x2,2   | KAM M14x1,5                       | 17,5           |
| DS-DE 12-ML/OA | 12                  | L 315       | 22             | 19 | 22             | 34 | 19 | 27,5           | 23             | 8,5  | M 16x1,5 | 80        | 13,3x2,2   | KAM M16x1,5                       | 19,1           |
| DS-DE 15-ML/OA | 15                  | L 315       | 24             | 22 | 27             | 36 | 21 | 32,0           | 25             | 9,0  | M 18x1,5 | 105       | 15,54x2,62 | KAM M18x1,5                       | 33,1           |
| DS-DE 18-ML/OA | 18                  | L 250       | 27             | 27 | 32             | 40 | 24 | 35,5           | 28             | 9,5  | M 22x1,5 | 125       | 19,2x3     | KAM M22x1,5                       | 42,3           |
| DS-DE 22-ML/OA | 22                  | L 160       | 32             | 30 | 36             | 44 | 28 | 37,5           | 33             | 11,5 | M 27x2   | 220       | 23,47x2,95 | KAM M27x2                         | 73,7           |
| DS-DE 28-ML/OA | 28                  | L 160       | 41             | 36 | 41             | 47 | 31 | 40,5           | 41             | 11,5 | M 33x2   | 370       | 29,2x3     | KAM M33x2                         | 77,7           |
| DS-DE 35-ML/OA | 35                  | L 160       | 50             | 50 | 50             | 59 | 38 | 50,5           | 51             | 11,5 | M 42x2   | 500       | 37,69x3,53 | KAM M42x2                         | 126,0          |
| DS-DE 42-ML/OA | 42                  | L 160       | 55             | 50 | 60             | 61 | 38 | 51,5           | 56             | 13,5 | M 48x2   | 600       | 43,69x3    | KAM M48x2                         | 142,8          |
| DS-DE 6-MS/OA  | 6                   | S 315       | 17             | 14 | 17             | 30 | 15 | 23,5           | 18             | 8,5  | M 12x1,5 | 35        | 9,3x2,2    | KAM M12x1,5                       | 10,6           |
| DS-DE 8-MS/OA  | 8                   | S 315       | 19             | 19 | 19             | 32 | 17 | 27,5           | 20             | 8,5  | M 14x1,5 | 55        | 11,3x2,2   | KAM M14x1,5                       | 17,7           |
| DS-DE 10-MS/OA | 10                  | S 315       | 22             | 19 | 22             | 34 | 18 | 28,5           | 23             | 9,5  | M 16x1,5 | 80        | 13,3x2,2   | KAM M16x1,5                       | 19,5           |
| DS-DE 12-MS/OA | 12                  | S 315       | 24             | 22 | 24             | 38 | 22 | 33,0           | 25             | 10,0 | M 18x1,5 | 105       | 15,54x2,62 | KAM M18x1,5                       | 31,3           |
| DS-DE 16-MS/OA | 16                  | S 250       | 27             | 27 | 30             | 43 | 25 | 37,5           | 28             | 11,5 | M 22x1,5 | 125       | 19,2x3     | KAM M22x1,5                       | 42,7           |
| DS-DE 20-MS/OA | 20                  | S 250       | 32             | 30 | 36             | 49 | 28 | 41,5           | 33             | 13,5 | M 27x2   | 220       | 23,47x2,95 | KAM M27x2                         | 77,5           |
| DS-DE 25-MS/OA | 25                  | S 160       | 41             | 36 | 46             | 54 | 30 | 46,5           | 41             | 13,5 | M 33x2   | 370       | 29,2x3     | KAM M33x2                         | 100,7          |
| DS-DE 30-MS/OA | 30                  | S 160       | 50             | 50 | 50             | 62 | 36 | 53,5           | 51             | 14,5 | M 42x2   | 500       | 37,69x3,53 | KAM M42x2                         | 143,6          |
| DS-DE 38-MS/OA | 38                  | S 160       | 55             | 50 | 60             | 65 | 34 | 56,5           | 56             | 16,5 | M 48x2   | 600       | 43,69x3    | KAM M48x2                         | 165,6          |

\* Zalecane momenty dokręcenia dla gwintów zewnętrznych G., gdzie materiałem przeciwnym jest stal

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.



# ŚWIAT ZŁĄCZY RUROWYCH

ZINTEGROWANE ROZWIĄZANIA FLUID POWER



# POŁĄCZENIA RUROWE





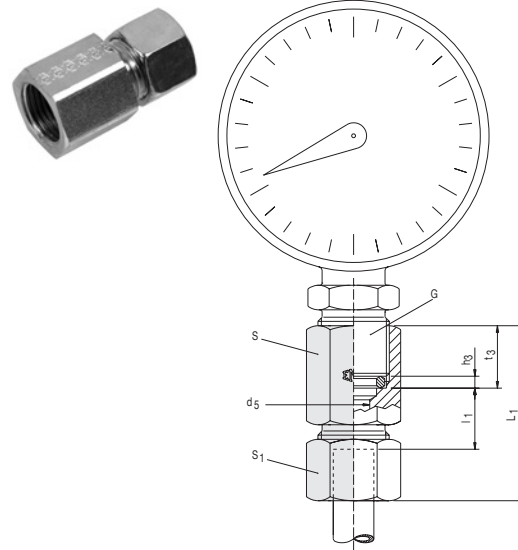
## POŁĄCZENIA RUROWE ZŁĄCZA MANOMETRYCZNE

ŚWIAT ZŁĄCZY RUROWYCH

### O ZŁĄCZE POMIAROWE BSP

BSP gwint walc.

Z pierścieniem uszczelniającym DKL.



| opis      | Śr. zew. rury | Nr produktu seria | S <sub>1</sub> | S  | L <sub>1</sub> | l <sub>1</sub> | G      | d <sub>5</sub> | t <sub>3</sub> | h <sub>3</sub> | kg % pc |
|-----------|---------------|-------------------|----------------|----|----------------|----------------|--------|----------------|----------------|----------------|---------|
| DS-O 6-L  | 6             | L 400 (1700)      | 14             | 19 | 37             | 7,5            | G 1/4" | 2,5            | 14,5           | 4,5            | 4,6     |
| DS-O 8-L  | 8             | L 400 (1700)      | 17             | 19 | 37             | 7,5            | G 1/4" | 5,5            | 14,5           | 4,5            | 5,3     |
| DS-O 10-L | 10            | L 400 (1700)      | 19             | 19 | 38             | 8,5            | G 1/4" | 5,5            | 14,5           | 4,5            | 6,2     |
| DS-O 12-L | 12            | L 400 (1700)      | 22             | 19 | 38             | 8,5            | G 1/4" | 5,5            | 14,5           | 4,5            | 7,0     |
| DS-O 6-S  | 6             | S 630 (2700)      | 17             | 27 | 46             | 11,0           | G 1/2" | 3,5            | 20,0           | 5,0            | 10,5    |
| DS-O 8-S  | 8             | S 630 (2700)      | 19             | 27 | 46             | 11,0           | G 1/2" | 3,5            | 20,0           | 5,0            | 10,7    |
| DS-O 10-S | 10            | S 630 (2700)      | 22             | 27 | 47             | 10,5           | G 1/2" | 7,0            | 20,0           | 5,0            | 12,5    |
| DS-O 12-S | 12            | S 630 (2700)      | 24             | 27 | 47             | 10,5           | G 1/2" | 7,0            | 20,0           | 5,0            | 13,4    |

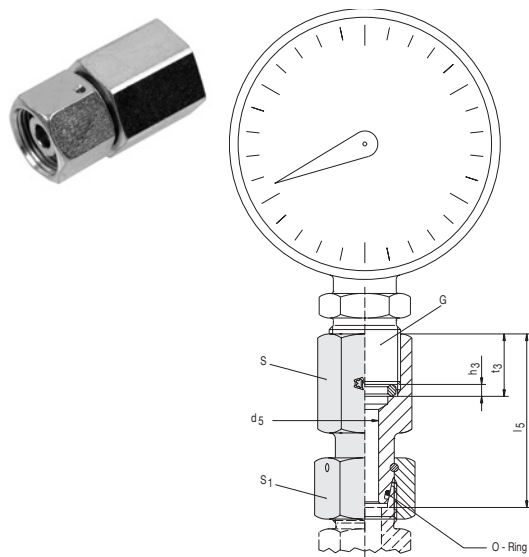
L<sub>1</sub> = przybliżona długość z dokręconą nakrętką

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## POŁĄCZENIA RUROWE ZŁĄCZA MANOMETRYCZNE

### VODKO GWINT STOŻKOWY DO ZŁĄCZA POMIAROWEGO

Gwint stożk., pierścień uszczelniający DKI i O-ring zgodne z normą DIN 3865.



| opis       | Śr. zew. rury | Nr produktu seria | $l_5$ | $d_5$ | $t_3$ | S  | $S_1$ | $h_3$ | G      | O-ring  | kg % pc |
|------------|---------------|-------------------|-------|-------|-------|----|-------|-------|--------|---------|---------|
| VODKO 6-L  | 6             | L 400 (1700)      | 38,0  | 2,5   | 14,5  | 19 | 17    | 4,5   | G 1/4" | 4x1,5   | 4,6     |
| VODKO 8-L  | 8             | L 400 (1700)      | 38,0  | 4,0   | 14,5  | 19 | 17    | 4,5   | G 1/4" | 6x1,5   | 5,3     |
| VODKO 10-L | 10            | L 400 (1700)      | 39,5  | 5,5   | 14,5  | 19 | 19    | 4,5   | G 1/4" | 7,5x1,5 | 6,2     |
| VODKO 12-L | 12            | L 400 (1700)      | 40,5  | 5,5   | 14,5  | 19 | 22    | 4,5   | G 1/4" | 9x1,5   | 7,0     |
| VODKO 6-S  | 6             | S 630 (2700)      | 45,0  | 2,5   | 20,0  | 27 | 17    | 5,0   | G 1/2" | 4x1,5   | 10,5    |
| VODKO 8-S  | 8             | S 630 (2700)      | 45,0  | 4,0   | 20,0  | 27 | 19    | 5,0   | G 1/2" | 6x1,5   | 10,7    |
| VODKO 10-S | 10            | S 630 (2700)      | 47,0  | 6,0   | 20,0  | 27 | 22    | 5,0   | G 1/2" | 7,5x1,5 | 12,5    |
| VODKO 12-S | 12            | S 630 (2700)      | 47,5  | 7,0   | 20,0  | 27 | 24    | 5,0   | G 1/2" | 9x1,5   | 13,4    |

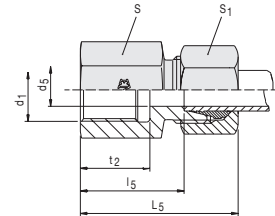
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## POŁĄCZENIA RUROWE ZŁĄCZA RUROWE ŻEŃSKIE

ŚWIAT ZŁĄCZY RUROWYCH

### AI ZŁĄCZE RUROWE ŻEŃSKIE BSP

BSP gwint walc.



| opis                | Śr. zew. rury | PB seria     | $l_5$ | $d_5$ | $L_5$ | S  | $S_1$ | $t_2$ | G        | kg % pc |
|---------------------|---------------|--------------|-------|-------|-------|----|-------|-------|----------|---------|
| DS-AI 6-L/R 1/8"    | 6             | L 315 (863)  | 19,0  | 4     | 34    | 14 | 14    | 12,0  | G 1/8"   | 2,5     |
| DS-AI 8-L/R 1/4"    | 8             | L 315 (863)  | 24,0  | 6     | 39    | 19 | 17    | 17,0  | G 1/4"   | 4,5     |
| DS-AI 10-L/R 1/4"   | 10            | L 315 (863)  | 25,0  | 8     | 40    | 19 | 19    | 17,0  | G 1/4"   | 5,5     |
| DS-AI 12-L/R 3/8"   | 12            | L 315 (863)  | 26,0  | 10    | 41    | 24 | 22    | 17,0  | G 3/8"   | 9,0     |
| DS-AI 15-L/R 1/2"   | 15            | L 315 (863)  | 31,0  | 12    | 46    | 27 | 27    | 20,0  | G 1/2"   | 13,0    |
| DS-AI 18-L/R 1/2"   | 18            | L 315 (863)  | 30,5  | 15    | 47    | 27 | 32    | 20,0  | G 1/2"   | 15,0    |
| DS-AI 22-L/R 3/4"   | 22            | L 160 (400)  | 35,5  | 19    | 52    | 36 | 36    | 22,0  | G 3/4"   | 25,5    |
| DS-AI 28-L/R 1"     | 28            | L 160 (400)  | 38,0  | 24    | 55    | 41 | 41    | 24,5  | G 1"     | 30,0    |
| DS-AI 35-L/R 1,1/4" | 35            | L 160 (400)  | 41,0  | 30    | 63    | 55 | 50    | 26,5  | G 1 1/4" | 42,0    |
| DS-AI 42-L/R 1,1/2" | 42            | L 160 (400)  | 42,5  | 36    | 65    | 60 | 60    | 28,5  | G 1 1/2" | 60,5    |
| DS-AI 6-S/R 1/4"    | 6             | S 630 (1575) | 26,0  | 4     | 41    | 19 | 17    | 17,0  | G 1/4"   | 6,0     |
| DS-AI 8-S/R 1/4"    | 8             | S 630 (1575) | 26,0  | 5     | 41    | 19 | 19    | 17,0  | G 1/4"   | 6,5     |
| DS-AI 10-S/R 3/8"   | 10            | S 630 (1575) | 26,5  | 7     | 43    | 24 | 22    | 17,0  | G 3/8"   | 9,0     |
| DS-AI 12-S/R 3/8"   | 12            | S 630 (1575) | 26,5  | 8     | 43    | 24 | 24    | 17,0  | G 3/8"   | 10,5    |
| DS-AI 14-S/R 1/2"   | 14            | S 630 (1575) | 32,0  | 10    | 50    | 27 | 27    | 20,0  | G 1/2"   | 13,0    |
| DS-AI 16-S/R 1/2"   | 16            | S 630 (1575) | 31,5  | 12    | 50    | 27 | 30    | 20,0  | G 1/2"   | 16,0    |
| DS-AI 20-S/R 3/4"   | 20            | S 400 (1000) | 34,5  | 16    | 56    | 36 | 36    | 22,0  | G 3/4"   | 26,0    |
| DS-AI 25-S/R 1"     | 25            | S 400 (1000) | 37,5  | 20    | 62    | 41 | 46    | 24,5  | G 1"     | 40,0    |
| DS-AI 30-S/R 1,1/4" | 30            | S 400 (1000) | 42,0  | 25    | 69    | 55 | 50    | 26,5  | G 1 1/4" | 72,0    |
| DS-AI 38-S/R 1,1/2" | 38            | S 400 (1000) | 43,5  | 32    | 74    | 60 | 60    | 28,5  | G 1 1/2" | 85,5    |

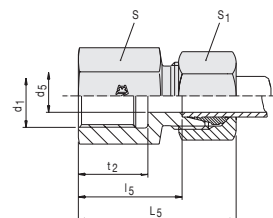
$L_5$  = przybliżona długość z dokręconą nakrętką

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## POŁĄCZENIA RUROWE ZŁĄCZA RUROWE ŻEŃSKIE

### AI ZŁĄCZE RUROWE ŻEŃSKIE METRYCZNE

Walcowy metryczny.



| opis                | Śr. zew. rury | PB seria     | $l_5$ | $d_5$ | $L_5$ | S  | $S_1$ | $t_2$ | G        | kg % pc |
|---------------------|---------------|--------------|-------|-------|-------|----|-------|-------|----------|---------|
| DS-AI 6-L/M 10x1    | 6             | L 315 [863]  | 19,5  | 4     | 34    | 14 | 14    | 12,5  | M 10x1   | 2,9     |
| DS-AI 8-L/M 12x1,5  | 8             | L 315 [863]  | 24,0  | 6     | 39    | 17 | 17    | 17,0  | M 12x1,5 | 4,7     |
| DS-AI 10-L/M 14x1,5 | 10            | L 315 [863]  | 25,0  | 8     | 40    | 19 | 19    | 17,0  | M 14x1,5 | 5,9     |
| DS-AI 12-L/M 16x1,5 | 12            | L 315 [863]  | 26,0  | 10    | 41    | 22 | 22    | 17,0  | M 16x1,5 | 7,9     |
| DS-AI 15-L/M 18x1,5 | 15            | L 315 [863]  | 28,0  | 12    | 43    | 24 | 27    | 17,0  | M 18x1,5 | 11,2    |
| DS-AI 18-L/M 22x1,5 | 18            | L 315 [863]  | 29,5  | 15    | 46    | 30 | 32    | 19,0  | M 22x1,5 | 17,4    |
| DS-AI 22-L/M 26x1,5 | 22            | L 160 [400]  | 34,5  | 19    | 51    | 32 | 36    | 21,0  | M 26x1,5 | 20,9    |
| DS-AI 28-L/M 33x2   | 28            | L 160 [400]  | 37,5  | 24    | 54    | 41 | 41    | 24,0  | M 33x2   | 31,2    |
| DS-AI 35-L/M 42x2   | 35            | L 160 [400]  | 40,5  | 30    | 62    | 55 | 50    | 26,0  | M 42x2   | 57,9    |
| DS-AI 42-L/M 48x2   | 42            | L 160 [400]  | 42,0  | 36    | 65    | 60 | 60    | 28,0  | M 48x2   | 76,0    |
| DS-AI 6-S/M 12x1,5  | 6             | S 630 [1575] | 26,0  | 4     | 41    | 17 | 17    | 17,0  | M 12x1,5 | 5,3     |
| DS-AI 8-S/M 14x1,5  | 8             | S 630 [1575] | 26,0  | 5     | 41    | 19 | 19    | 17,0  | M 14x1,5 | 6,4     |
| DS-AI 10-S/M 16x1,5 | 10            | S 630 [1575] | 26,5  | 7     | 43    | 22 | 22    | 17,0  | M 16x1,5 | 9,0     |
| DS-AI 12-S/M 18x1,5 | 12            | S 630 [1575] | 27,5  | 8     | 44    | 22 | 24    | 17,0  | M 18x1,5 | 10,6    |
| DS-AI 14-S/M 20x1,5 | 14            | S 630 [1575] | 31,0  | 10    | 49    | 27 | 27    | 19,0  | M 20x1,5 | 14,9    |
| DS-AI 16-S/M 22x1,5 | 16            | S 630 [1575] | 30,5  | 12    | 49    | 27 | 30    | 19,0  | M 22x1,5 | 18,3    |
| DS-AI 20-S/M 27x2   | 20            | S 400 [1000] | 34,5  | 16    | 56    | 36 | 36    | 22,0  | M 27x2   | 29,9    |
| DS-AI 25-S/M 33x2   | 25            | S 400 [1000] | 37,0  | 20    | 61    | 41 | 46    | 24,0  | M 33x2   | 45,5    |
| DS-AI 30-S/M 42x2   | 30            | S 400 [1000] | 41,5  | 25    | 68    | 55 | 50    | 26,0  | M 42x2   | 73,0    |
| DS-AI 38-S/M 48x2   | 38            | S 400 [1000] | 43,0  | 32    | 74    | 60 | 60    | 28,0  | M 48x2   | 93,8    |

$L_5$  = przybliżona długość z dokręconą nakrętką

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## POŁĄCZENIA RUROWE ŁĄCZNIKI REDUKCYJNE

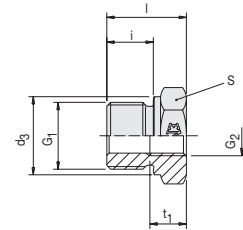
ŚWIAT ZŁĄCZY RUROWYCH

### RI ŁĄCZNIK REDUKCYJNY

BSP gwint walc.

Czoła złącza rurowego Forma B.

Inne rozmiary i gwinty na zamówienie.



| opis G1-G2     | PB  | l    | i  | S  | d <sub>3</sub> | t <sub>1</sub> | kg %<br>pc |
|----------------|-----|------|----|----|----------------|----------------|------------|
| RI 3/8" - 1/8" | 630 | 22,5 | 12 | 22 | 22             | 8,0            | 4,0        |
| RI 1/2-1/4     | 400 | 24,0 | 14 | 27 | 26             | 8,0            | 6,0        |
| RI 1/2-1/8     | 400 | 24,0 | 14 | 27 | 26             | 12,0           | 6,0        |
| RI 3/4-1/4     | 400 | 26,0 | 16 | 32 | 32             | 12,0           | 9,5        |
| RI 3/4-3/8     | 400 | 26,0 | 16 | 32 | 32             | 12,0           | 9,0        |
| RI 1-1/4       | 400 | 29,0 | 18 | 41 | 39             | 12,0           | 20,0       |
| RI 1-3/8       | 400 | 29,0 | 18 | 41 | 39             | 12,0           | 18,0       |
| RI 1-1/2       | 400 | 29,0 | 18 | 41 | 39             | 14,0           | 16,0       |
| RI 1,1/4-1/2   | 250 | 32,0 | 20 | 50 | 49             | 14,0           | 31,0       |
| RI 1,1/4-3/4   | 250 | 32,0 | 20 | 50 | 49             | 16,0           | 27,0       |
| RI 1,1/2-1/2   | 250 | 36,0 | 22 | 55 | 55             | 14,0           | 47,0       |
| RI 1,1/2-3/4   | 250 | 36,0 | 22 | 55 | 55             | 16,0           | 43,0       |
| RI 1,1/2-1     | 250 | 36,0 | 22 | 55 | 55             | 18,0           | 34,5       |
| RI 1/8-1/4     | 630 | 31,0 | 8  | 19 | 14             | 17,0           | 3,6        |
| RI 1/8-3/8     | 630 | 32,0 | 8  | 24 | 14             | 17,0           | 4,5        |
| RI 1/4-1/8     | 630 | 28,0 | 12 | 19 | 18             | 12,0           | 3,6        |
| RI 1/4-3/8     | 630 | 36,0 | 12 | 24 | 18             | 17,0           | 6,6        |
| RI 1/4-1/2     | 630 | 40,0 | 12 | 30 | 18             | 20,0           | 8,5        |
| RI 1/4-3/4     | 400 | 43,0 | 12 | 36 | 18             | 22,0           | 17,3       |
| RI 3/8-1/4     | 630 | 36,0 | 12 | 22 | 22             | 17,0           | 3,0        |
| RI 3/8-1/2     | 630 | 41,0 | 12 | 30 | 22             | 20,0           | 9,0        |
| RI 3/8-3/4     | 400 | 44,0 | 12 | 36 | 22             | 22,0           | 17,5       |
| RI 1/2-3/8     | 400 | 36,0 | 14 | 27 | 26             | 17,0           | 9,5        |
| RI 1/2-3/4     | 400 | 46,0 | 14 | 36 | 26             | 22,0           | 18,0       |
| RI 1/2-1       | 400 | 49,0 | 14 | 41 | 26             | 24,5           | 22,5       |
| RI 1/2-1,1/4   | 250 | 53,0 | 14 | 55 | 26             | 26,5           | 47,0       |
| RI 3/4-1/2     | 400 | 41,0 | 16 | 32 | 32             | 20,0           | 15,0       |
| RI 3/4-1       | 400 | 51,0 | 16 | 41 | 32             | 24,5           | 23,5       |
| RI 3/4-1,1/4   | 250 | 55,0 | 16 | 55 | 32             | 26,5           | 48,3       |
| RI 3/4-1,1/2   | 250 | 57,0 | 16 | 60 | 32             | 28,5           | 54,5       |
| RI 1-3/4       | 400 | 47,0 | 18 | 41 | 39             | 22,0           | 28,0       |
| RI 1-1,1/4     | 250 | 57,0 | 18 | 55 | 39             | 26,5           | 51,0       |
| RI 1-1,1/2     | 250 | 59,0 | 18 | 60 | 39             | 28,5           | 56,5       |
| RI 1,1/4-1     | 250 | 52,0 | 20 | 50 | 49             | 24,5           | 45,5       |
| RI 1,1/4-1,1/2 | 250 | 60,0 | 20 | 60 | 49             | 28,5           | 58,0       |
| RI 1,1/2-1,1/4 | 250 | 58,0 | 22 | 55 | 55             | 26,5           | 53,0       |

Patrz „Projektowanie i dane techniczne - Wybór właściwego złącza rurowego”, aby  
- zobaczyć przykład redukcji.

- uzyskać więcej informacji na temat ciśnienia.

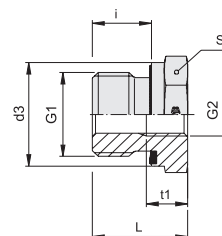
## POŁĄCZENIA RUROWE ŁĄCZNIKI REDUKCYJNE

### RI ŁĄCZNIK REDUKCYJNY ZE ZINTEGROWANYM USZCZELNIENIEM

BSP gwint walc.

Pierścień zintegrowany O-ring NBR (np. Perbunan),  
FPM (np. Viton) na zamówienie.

Inne rozmiary i gwinty na zamówienie.



| opis G1-G2           | PB  | l    | i  | S  | d <sub>3</sub> | t <sub>1</sub> | kg %<br>pc |
|----------------------|-----|------|----|----|----------------|----------------|------------|
| RI 3/8"WD - 1/8"     | 630 | 22,5 | 12 | 22 | 22             | 8,0            | 3,9        |
| RI 1/2"WD - 1/8"     | 630 | 24,0 | 14 | 27 | 27             | 8,0            | 6,6        |
| RI 1/2"WD - 1/4"     | 630 | 24,0 | 14 | 27 | 27             | 12,0           | 5,6        |
| RI 3/4"WD - 1/4"     | 400 | 26,0 | 16 | 32 | 32             | 12,0           | 10,3       |
| RI 3/4"WD - 3/8"     | 400 | 26,0 | 16 | 32 | 32             | 12,0           | 8,7        |
| RI 1"WD - 1/4"       | 400 | 29,0 | 18 | 41 | 40             | 12,0           | 19,5       |
| RI 1"WD - 3/8"       | 400 | 29,0 | 18 | 41 | 40             | 12,0           | 17,9       |
| RI 1"WD - 1/2"       | 400 | 29,0 | 18 | 41 | 40             | 14,0           | 15,7       |
| RI 1,1/4"WD - 1/2"   | 400 | 32,0 | 20 | 50 | 50             | 14,0           | 30,8       |
| RI 1,1/4"WD - 3/4"   | 400 | 32,0 | 20 | 50 | 50             | 16,0           | 26,6       |
| RI 1,1/2"WD - 1/2"   | 315 | 36,0 | 22 | 55 | 55             | 14,0           | 47,0       |
| RI 1,1/2"WD - 3/4"   | 315 | 36,0 | 22 | 55 | 55             | 16,0           | 40,2       |
| RI 1,1/2"WD - 1"     | 315 | 36,0 | 22 | 55 | 55             | 18,0           | 33,7       |
| RI 1/8"WD - 1/4"     | 630 | 31,0 | 8  | 19 | 14             | 17,0           | 3,9        |
| RI 1/8"WD - 3/8"     | 630 | 32,0 | 8  | 24 | 14             | 17,0           | 6,3        |
| RI 1/4"WD - 1/8"     | 630 | 29,0 | 12 | 19 | 19             | 12,0           | 3,8        |
| RI 1/4"WD - 3/8"     | 630 | 36,0 | 12 | 24 | 19             | 17,0           | 6,7        |
| RI 1/4"WD - 1/2"     | 630 | 40,0 | 12 | 30 | 19             | 20,0           | 11,6       |
| RI 1/4"WD - 3/4"     | 630 | 43,0 | 12 | 36 | 19             | 22,0           | 17,0       |
| RI 3/8"WD - 1/4"     | 630 | 36,0 | 12 | 22 | 22             | 17,0           | 6,8        |
| RI 3/8"WD - 1/2"     | 630 | 41,0 | 12 | 30 | 22             | 20,0           | 14,3       |
| RI 3/8"WD - 3/4"     | 400 | 44,0 | 12 | 36 | 22             | 22,0           | 18,3       |
| RI 1/2"WD - 3/8"     | 630 | 37,0 | 14 | 27 | 27             | 17,0           | 9,1        |
| RI 1/2"WD - 3/4"     | 400 | 46,0 | 14 | 36 | 27             | 22,0           | 18,2       |
| RI 1/2"WD - 1"       | 400 | 49,0 | 14 | 41 | 27             | 24,5           | 22,1       |
| RI 1/2"WD - 1,1/4"   | 400 | 53,0 | 14 | 55 | 27             | 26,5           | 48,2       |
| RI 3/4"WD - 1/2"     | 400 | 43,0 | 16 | 32 | 32             | 20,0           | 14,3       |
| RI 3/4"WD - 1"       | 400 | 51,0 | 16 | 41 | 32             | 24,5           | 23,5       |
| RI 3/4"WD - 1,1/4"   | 400 | 55,0 | 16 | 55 | 32             | 26,5           | 48,1       |
| RI 3/4"WD - 1,1/2"   | 315 | 57,0 | 16 | 60 | 32             | 28,5           | 56,0       |
| RI 1"WD - 3/4"       | 400 | 49,0 | 18 | 41 | 40             | 22,0           | 26,8       |
| RI 1"WD - 1,1/4"     | 400 | 57,0 | 18 | 55 | 40             | 26,5           | 50,3       |
| RI 1"WD - 1,1/2"     | 315 | 59,0 | 18 | 60 | 40             | 28,5           | 58,5       |
| RI 1,1/4"WD - 1"     | 400 | 53,0 | 20 | 50 | 50             | 24,5           | 45,8       |
| RI 1,1/4"WD - 1,1/2" | 315 | 60,0 | 20 | 60 | 50             | 28,5           | 61,6       |
| RI 1,1/2"WD - 1,1/4" | 315 | 58,0 | 22 | 55 | 55             | 26,5           | 54,2       |

Patrz „Projektowanie i dane techniczne - Wybór właściwego złącza rurowego”, aby  
- zobaczyć przykład redukcji.  
- uzyskać więcej informacji na temat ciśnienia.

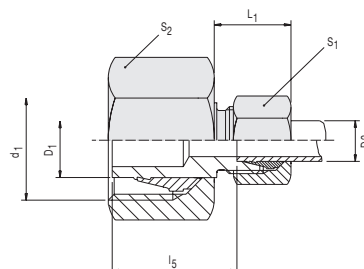
## POŁĄCZENIA RUROWE PRZYŁĄCZA REDUKCYJNE

ŚWIAT ZŁĄCZY RUROWYCH

### RL PRZYŁĄCZE REDUKCYJNE

Te części są gotowe do montażu;  
nie są wstępnie zamontowane.

Po dokręceniu ręcznym, zamocować kluczem do  
pierwszego oporu, a potem przekręcić jeszcze o 30°.



| opis        | Śr.zew.<br>rury D1 | Śr.zew.<br>rury D2 | Nr produktu<br>seria | L <sub>1</sub> | L <sub>5</sub> | S <sub>1</sub> | S <sub>2</sub> | d <sub>1</sub> | kg %<br>pc |
|-------------|--------------------|--------------------|----------------------|----------------|----------------|----------------|----------------|----------------|------------|
| DS-RL 8/6   | 8                  | 6                  | L 500 (2200)         | 24             | 23,5           | 14             | 17             | M 14x1,5       | 4,0        |
| DS-RL 10/6  | 10                 | 6                  | L 500 (2200)         | 24             | 23,5           | 14             | 19             | M 16x1,5       | 4,7        |
| DS-RL 10/8  | 10                 | 8                  | L 500 (2200)         | 24             | 23,5           | 17             | 19             | M 16x1,5       | 5,2        |
| DS-RL 12/6  | 12                 | 6                  | L 400 (1700)         | 24             | 23,5           | 14             | 22             | M 18x1,5       | 5,9        |
| DS-RL 12/8  | 12                 | 8                  | L 400 (1700)         | 24             | 23,5           | 17             | 22             | M 18x1,5       | 6,3        |
| DS-RL 12/10 | 12                 | 10                 | L 400 (1700)         | 25             | 24,5           | 19             | 22             | M 18x1,5       | 6,9        |
| DS-RL 15/6  | 15                 | 6                  | L 400 (1700)         | 23             | 23,5           | 14             | 27             | M 22x1,5       | 8,2        |
| DS-RL 15/8  | 15                 | 8                  | L 400 (1700)         | 23             | 23,5           | 17             | 27             | M 22x1,5       | 8,9        |
| DS-RL 15/10 | 15                 | 10                 | L 400 (1700)         | 24             | 24,5           | 19             | 27             | M 22x1,5       | 9,3        |
| DS-RL 15/12 | 15                 | 12                 | L 400 (1700)         | 24             | 24,5           | 22             | 27             | M 22x1,5       | 10,0       |
| DS-RL 18/6  | 18                 | 6                  | L 400 (1700)         | 23             | 24,5           | 14             | 32             | M 26x1,5       | 10,8       |
| DS-RL 18/8  | 18                 | 8                  | L 400 (1700)         | 23             | 24,5           | 17             | 32             | M 26x1,5       | 11,0       |
| DS-RL 18/10 | 18                 | 10                 | L 400 (1700)         | 24             | 25,5           | 19             | 32             | M 26x1,5       | 11,7       |
| DS-RL 18/12 | 18                 | 12                 | L 400 (1700)         | 24             | 25,5           | 22             | 32             | M 26x1,5       | 12,5       |
| DS-RL 18/15 | 18                 | 15                 | L 400 (1700)         | 26             | 26,5           | 27             | 32             | M 26x1,5       | 14,9       |
| DS-RL 22/6  | 22                 | 6                  | L 250 (1100)         | 24             | 25,5           | 14             | 36             | M 30x2         | 14,1       |
| DS-RL 22/8  | 22                 | 8                  | L 250 (1100)         | 24             | 25,5           | 17             | 36             | M 30x2         | 14,9       |
| DS-RL 22/10 | 22                 | 10                 | L 250 (1100)         | 25             | 26,5           | 19             | 36             | M 30x2         | 15,1       |
| DS-RL 22/12 | 22                 | 12                 | L 250 (1100)         | 25             | 26,5           | 22             | 36             | M 30x2         | 16,0       |
| DS-RL 22/15 | 22                 | 15                 | L 250 (1100)         | 27             | 27,5           | 27             | 36             | M 30x2         | 18,0       |
| DS-RL 22/18 | 22                 | 18                 | L 250 (1100)         | 27             | 27,0           | 32             | 36             | M 30x2         | 19,8       |
| DS-RL 28/6  | 28                 | 6                  | L 250 (1100)         | 25             | 26,5           | 14             | 41             | M 36x2         | 18,5       |
| DS-RL 28/8  | 28                 | 8                  | L 250 (1100)         | 25             | 26,5           | 17             | 41             | M 36x2         | 19,3       |
| DS-RL 28/10 | 28                 | 10                 | L 250 (1100)         | 26             | 27,5           | 19             | 41             | M 36x2         | 20,0       |
| DS-RL 28/12 | 28                 | 12                 | L 250 (1100)         | 26             | 27,5           | 22             | 41             | M 36x2         | 20,5       |
| DS-RL 28/15 | 28                 | 15                 | L 250 (1100)         | 27             | 28,5           | 27             | 41             | M 36x2         | 22,5       |
| DS-RL 28/18 | 28                 | 18                 | L 250 (1100)         | 28             | 28,0           | 32             | 41             | M 36x2         | 24,5       |
| DS-RL 28/22 | 28                 | 22                 | L 250 (1100)         | 30             | 30,0           | 36             | 41             | M 36x2         | 26,8       |
| DS-RL 35/6  | 35                 | 6                  | L 250 (1100)         | 25             | 31,5           | 14             | 50             | M 45x2         | 30,8       |
| DS-RL 35/8  | 35                 | 8                  | L 250 (1100)         | 25             | 31,5           | 17             | 50             | M 45x2         | 31,2       |
| DS-RL 35/10 | 35                 | 10                 | L 250 (1100)         | 26             | 32,5           | 19             | 50             | M 45x2         | 32,0       |
| DS-RL 35/12 | 35                 | 12                 | L 250 (1100)         | 26             | 32,5           | 22             | 50             | M 45x2         | 32,0       |
| DS-RL 35/15 | 35                 | 15                 | L 250 (1100)         | 27             | 33,5           | 27             | 50             | M 45x2         | 34,8       |
| DS-RL 35/18 | 35                 | 18                 | L 250 (1100)         | 28             | 33,0           | 32             | 50             | M 45x2         | 36,2       |
| DS-RL 35/22 | 35                 | 22                 | L 250 (1100)         | 30             | 35,0           | 36             | 50             | M 45x2         | 37,8       |
| DS-RL 35/28 | 35                 | 28                 | L 250 (1100)         | 30             | 35,0           | 41             | 50             | M 45x2         | 39,5       |
| DS-RL 42/6  | 42                 | 6                  | L 250 (1100)         | 24             | 32,5           | 14             | 60             | M 52x2         | 44,0       |
| DS-RL 42/8  | 42                 | 8                  | L 250 (1100)         | 24             | 32,5           | 17             | 60             | M 52x2         | 45,0       |
| DS-RL 42/10 | 42                 | 10                 | L 250 (1100)         | 26             | 33,5           | 19             | 60             | M 52x2         | 45,0       |
| DS-RL 42/12 | 42                 | 12                 | L 250 (1100)         | 26             | 33,5           | 22             | 60             | M 52x2         | 45,9       |
| DS-RL 42/15 | 42                 | 15                 | L 250 (1100)         | 27             | 34,5           | 27             | 60             | M 52x2         | 47,0       |
| DS-RL 42/18 | 42                 | 18                 | L 250 (1100)         | 28             | 34,0           | 32             | 60             | M 52x2         | 48,9       |
| DS-RL 42/22 | 42                 | 22                 | L 250 (1100)         | 30             | 36,0           | 36             | 60             | M 52x2         | 51,0       |
| DS-RL 42/28 | 42                 | 28                 | L 250 (1100)         | 30             | 36,0           | 41             | 60             | M 52x2         | 53,0       |
| DS-RL 42/35 | 42                 | 35                 | L 250 (1100)         | 34             | 34,0           | 50             | 60             | M 52x2         | 58,3       |

L1 = przybliżona długość z dokręconą nakrętką

Patrz „Projektowanie i dane techniczne - Wybór właściwego złącza rurowego”, aby  
zobaczyć przykład redukcji.

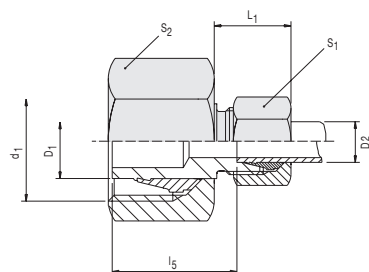
- uzyskać więcej informacji na temat ciśnienia.

## POŁĄCZENIA RUROWE PRZYŁĄCZA REDUKCYJNE

### RS PRZYŁĄCZE REDUKCYJNE

Te części są gotowe do montażu;  
nie są wstępnie zamontowane.

Po dokręceniu ręcznym, zamocować kluczem  
do pierwszego oporu, a potem przekręcić  
jeszcze o 30°.



| opis        | Śr. zew.<br>rury D1 | Śr. zew.<br>rury D2 | Nr produktu<br>seria | L <sub>1</sub> | L <sub>5</sub> | S <sub>1</sub> | S <sub>2</sub> | d <sub>1</sub> | kg %<br>pc |
|-------------|---------------------|---------------------|----------------------|----------------|----------------|----------------|----------------|----------------|------------|
| DS-RS 8/6   | 8                   | 6                   | S 800 (3400)         | 25             | 25,0           | 17             | 19             | M 16x1,5       | 6,5        |
| DS-RS 10/6  | 10                  | 6                   | S 800 (3400)         | 25             | 26,0           | 17             | 22             | M 18x1,5       | 7,0        |
| DS-RS 10/8  | 10                  | 8                   | S 800 (3400)         | 25             | 26,0           | 19             | 22             | M 18x1,5       | 7,5        |
| DS-RS 12/6  | 12                  | 6                   | S 630 (2700)         | 26             | 27,0           | 17             | 24             | M 20x1,5       | 8,0        |
| DS-RS 12/8  | 12                  | 8                   | S 630 (2700)         | 26             | 27,0           | 19             | 24             | M 20x1,5       | 8,5        |
| DS-RS 12/10 | 12                  | 10                  | S 630 (2700)         | 27             | 26,5           | 22             | 24             | M 20x1,5       | 9,9        |
| DS-RS 14/6  | 14                  | 6                   | S 630 (2700)         | 26             | 29,0           | 17             | 27             | M 22x1,5       | 10,4       |
| DS-RS 14/8  | 14                  | 8                   | S 630 (2700)         | 26             | 29,0           | 19             | 27             | M 22x1,5       | 10,9       |
| DS-RS 14/10 | 14                  | 10                  | S 630 (2700)         | 27             | 28,5           | 22             | 27             | M 22x1,5       | 12,1       |
| DS-RS 14/12 | 14                  | 12                  | S 630 (2700)         | 27             | 28,5           | 24             | 27             | M 22x1,5       | 12,6       |
| DS-RS 16/6  | 16                  | 6                   | S 630 (2700)         | 26             | 29,0           | 17             | 30             | M 24x1,5       | 12,1       |
| DS-RS 16/8  | 16                  | 8                   | S 630 (2700)         | 26             | 29,0           | 19             | 30             | M 24x1,5       | 12,6       |
| DS-RS 16/10 | 16                  | 10                  | S 630 (2700)         | 27             | 28,5           | 22             | 30             | M 24x1,5       | 14,0       |
| DS-RS 16/12 | 16                  | 12                  | S 630 (2700)         | 27             | 28,5           | 24             | 30             | M 24x1,5       | 14,5       |
| DS-RS 16/14 | 16                  | 14                  | S 630 (2700)         | 30             | 30,0           | 27             | 30             | M 24x1,5       | 16,1       |
| DS-RS 20/6  | 20                  | 6                   | S 400 (1700)         | 27             | 34,0           | 17             | 36             | M 30x2         | 17,8       |
| DS-RS 20/8  | 20                  | 8                   | S 400 (1700)         | 27             | 34,0           | 19             | 36             | M 30x2         | 18,4       |
| DS-RS 20/10 | 20                  | 10                  | S 400 (1700)         | 28             | 33,5           | 22             | 36             | M 30x2         | 19,5       |
| DS-RS 20/12 | 20                  | 12                  | S 400 (1700)         | 28             | 33,5           | 24             | 36             | M 30x2         | 20,4       |
| DS-RS 20/14 | 20                  | 14                  | S 400 (1700)         | 31             | 35,0           | 27             | 36             | M 30x2         | 22,5       |
| DS-RS 20/16 | 20                  | 16                  | S 400 (1700)         | 31             | 34,5           | 30             | 36             | M 30x2         | 23,9       |
| DS-RS 25/6  | 25                  | 6                   | S 400 (1700)         | 28             | 37,0           | 17             | 46             | M 36x2         | 31,3       |
| DS-RS 25/8  | 25                  | 8                   | S 400 (1700)         | 28             | 37,0           | 19             | 46             | M 36x2         | 31,9       |
| DS-RS 25/10 | 25                  | 10                  | S 400 (1700)         | 29             | 36,5           | 22             | 46             | M 36x2         | 33,0       |
| DS-RS 25/12 | 25                  | 12                  | S 400 (1700)         | 29             | 36,5           | 24             | 46             | M 36x2         | 33,6       |
| DS-RS 25/14 | 25                  | 14                  | S 400 (1700)         | 31             | 37,0           | 27             | 46             | M 36x2         | 36,0       |
| DS-RS 25/16 | 25                  | 16                  | S 400 (1700)         | 31             | 36,5           | 30             | 46             | M 36x2         | 36,8       |
| DS-RS 25/20 | 25                  | 20                  | S 400 (1700)         | 35             | 37,5           | 36             | 46             | M 36x2         | 40,8       |
| DS-RS 30/6  | 30                  | 6                   | S 400 (1700)         | 27             | 39,0           | 17             | 50             | M 42x2         | 37,7       |
| DS-RS 30/8  | 30                  | 8                   | S 400 (1700)         | 27             | 39,0           | 19             | 50             | M 42x2         | 38,7       |
| DS-RS 30/10 | 30                  | 10                  | S 400 (1700)         | 28             | 38,5           | 22             | 50             | M 42x2         | 39,8       |
| DS-RS 30/12 | 30                  | 12                  | S 400 (1700)         | 28             | 38,5           | 24             | 50             | M 42x2         | 40,4       |
| DS-RS 30/14 | 30                  | 14                  | S 400 (1700)         | 31             | 40,0           | 27             | 50             | M 42x2         | 42,3       |
| DS-RS 30/16 | 30                  | 16                  | S 400 (1700)         | 31             | 39,5           | 30             | 50             | M 42x2         | 43,4       |
| DS-RS 30/20 | 30                  | 20                  | S 400 (1700)         | 35             | 39,5           | 36             | 50             | M 42x2         | 47,6       |
| DS-RS 30/25 | 30                  | 25                  | S 400 (1700)         | 38             | 40,0           | 46             | 50             | M 42x2         | 59,1       |
| DS-RS 38/6  | 38                  | 6                   | S 400 (1700)         | 27             | 43,0           | 17             | 60             | M 52x2         | 55,5       |
| DS-RS 38/8  | 38                  | 8                   | S 400 (1700)         | 27             | 43,0           | 19             | 60             | M 52x2         | 55,7       |
| DS-RS 38/10 | 38                  | 10                  | S 400 (1700)         | 28             | 42,5           | 22             | 60             | M 52x2         | 57,6       |
| DS-RS 38/12 | 38                  | 12                  | S 400 (1700)         | 28             | 42,5           | 24             | 60             | M 52x2         | 58,0       |
| DS-RS 38/14 | 38                  | 14                  | S 400 (1700)         | 31             | 44,0           | 27             | 60             | M 52x2         | 60,0       |
| DS-RS 38/16 | 38                  | 16                  | S 400 (1700)         | 31             | 43,5           | 30             | 60             | M 52x2         | 61,3       |
| DS-RS 38/20 | 38                  | 20                  | S 400 (1700)         | 35             | 43,5           | 36             | 60             | M 52x2         | 65,2       |
| DS-RS 38/25 | 38                  | 25                  | S 400 (1700)         | 38             | 44,0           | 46             | 60             | M 52x2         | 76,9       |
| DS-RS 38/30 | 38                  | 30                  | S 400 (1700)         | 41             | 44,5           | 50             | 60             | M 52x2         | 80,0       |

L1 = przybliżona długość z dokręconą nakrętką

Patrz „Projektowanie i dane techniczne - Wybór właściwego złącza rurowego”, aby  
- zobaczyć przykład redukcji.

- uzyskać więcej informacji na temat ciśnienia.



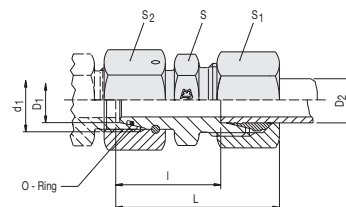
## POŁĄCZENIA RUROWE PRZYŁĄCZA REDUKCYJNE

ŚWIAT ZŁĄCZY RUROWYCH

### RLDKO PRZYŁĄCZE REDUKCYJNE Z GWINTEM STOŻK.

Z gwintem stożkowym i O-ringiem wg DIN 3865.

Dostarczane z zamontowanym O-ringiem NBR (np. Perbunan), FPM O-ring (np. Viton) na zamówienie.



| opis           | Śr.zew.<br>rury D1 | Śr.zew.<br>rury D2 | Nr produktu<br>seria | L    | l    | S  | S <sub>1</sub> | S <sub>2</sub> | d <sub>1</sub> | O-ring  | kg %<br>pc |
|----------------|--------------------|--------------------|----------------------|------|------|----|----------------|----------------|----------------|---------|------------|
| DS-RLDKO 8/6   | 8                  | 6                  | L 500 (2200)         | 38,0 | 23,5 | 12 | 14             | 17             | M 14x1,5       | 6x1,5   | 3,9        |
| DS-RLDKO 10/6  | 10                 | 6                  | L 500 (2200)         | 39,5 | 25,0 | 14 | 14             | 19             | M 16x1,5       | 7,5x1,5 | 4,9        |
| DS-RLDKO 10/8  | 10                 | 8                  | L 500 (2200)         | 39,5 | 25,0 | 14 | 17             | 19             | M 16x1,5       | 7,5x1,5 | 5,3        |
| DS-RLDKO 12/6  | 12                 | 6                  | L 400 (1700)         | 39,5 | 25,0 | 17 | 14             | 22             | M 18x1,5       | 9x1,5   | 6,3        |
| DS-RLDKO 12/8  | 12                 | 8                  | L 400 (1700)         | 39,5 | 25,0 | 17 | 17             | 22             | M 18x1,5       | 9x1,5   | 6,8        |
| DS-RLDKO 12/10 | 12                 | 10                 | L 400 (1700)         | 40,5 | 26,0 | 17 | 19             | 22             | M 18x1,5       | 9x1,5   | 7,0        |
| DS-RLDKO 15/6  | 15                 | 6                  | L 400 (1700)         | 43,5 | 29,0 | 22 | 14             | 27             | M 22x1,5       | 12x2    | 5,5        |
| DS-RLDKO 15/8  | 15                 | 8                  | L 400 (1700)         | 43,5 | 29,0 | 22 | 17             | 27             | M 22x1,5       | 12x2    | 9,8        |
| DS-RLDKO 15/10 | 15                 | 10                 | L 400 (1700)         | 44,0 | 29,5 | 22 | 19             | 27             | M 22x1,5       | 12x2    | 10,7       |
| DS-RLDKO 15/12 | 15                 | 12                 | L 400 (1700)         | 44,0 | 29,5 | 22 | 22             | 27             | M 22x1,5       | 12x2    | 11,0       |
| DS-RLDKO 18/6  | 18                 | 6                  | L 400 (1700)         | 42,5 | 28,0 | 24 | 14             | 32             | M 26x1,5       | 15x2    | 11,9       |
| DS-RLDKO 18/8  | 18                 | 8                  | L 400 (1700)         | 42,5 | 28,0 | 24 | 17             | 32             | M 26x1,5       | 15x2    | 12,4       |
| DS-RLDKO 18/10 | 18                 | 10                 | L 400 (1700)         | 43,5 | 29,0 | 24 | 19             | 32             | M 26x1,5       | 15x2    | 12,8       |
| DS-RLDKO 18/12 | 18                 | 12                 | L 400 (1700)         | 43,5 | 29,0 | 24 | 22             | 32             | M 26x1,5       | 15x2    | 17,2       |
| DS-RLDKO 18/15 | 18                 | 15                 | L 400 (1700)         | 45,0 | 30,0 | 24 | 27             | 32             | M 26x1,5       | 15x2    | 19,0       |
| DS-RLDKO 22/6  | 22                 | 6                  | L 250 (1100)         | 46,5 | 32,0 | 27 | 14             | 36             | M 30x2         | 20x2    | 16,9       |
| DS-RLDKO 22/8  | 22                 | 8                  | L 250 (1100)         | 46,5 | 32,0 | 27 | 17             | 36             | M 30x2         | 20x2    | 17,6       |
| DS-RLDKO 22/10 | 22                 | 10                 | L 250 (1100)         | 47,5 | 33,0 | 27 | 19             | 36             | M 30x2         | 20x2    | 17,8       |
| DS-RLDKO 22/12 | 22                 | 12                 | L 250 (1100)         | 47,5 | 33,0 | 27 | 22             | 36             | M 30x2         | 20x2    | 18,6       |
| DS-RLDKO 22/15 | 22                 | 15                 | L 250 (1100)         | 49,0 | 34,0 | 27 | 27             | 36             | M 30x2         | 20x2    | 20,8       |
| DS-RLDKO 22/18 | 22                 | 18                 | L 250 (1100)         | 49,5 | 33,5 | 27 | 32             | 36             | M 30x2         | 20x2    | 24,4       |
| DS-RLDKO 28/6  | 28                 | 6                  | L 250 (1100)         | 48,5 | 34,0 | 36 | 14             | 41             | M 36x2         | 26x2    | 29,3       |
| DS-RLDKO 28/8  | 28                 | 8                  | L 250 (1100)         | 48,5 | 34,0 | 36 | 17             | 41             | M 36x2         | 26x2    | 29,3       |
| DS-RLDKO 28/10 | 28                 | 10                 | L 250 (1100)         | 49,5 | 35,0 | 36 | 19             | 41             | M 36x2         | 26x2    | 29,9       |
| DS-RLDKO 28/12 | 28                 | 12                 | L 250 (1100)         | 49,5 | 35,0 | 36 | 22             | 41             | M 36x2         | 26x2    | 30,8       |
| DS-RLDKO 28/15 | 28                 | 15                 | L 250 (1100)         | 51,0 | 36,0 | 36 | 27             | 41             | M 36x2         | 26x2    | 33,0       |
| DS-RLDKO 28/18 | 28                 | 18                 | L 250 (1100)         | 51,5 | 35,5 | 36 | 32             | 41             | M 36x2         | 26x2    | 38,3       |
| DS-RLDKO 28/22 | 28                 | 22                 | L 250 (1100)         | 53,5 | 37,5 | 36 | 36             | 41             | M 36x2         | 26x2    | 39,1       |
| DS-RLDKO 35/6  | 35                 | 6                  | L 250 (1100)         | 51,5 | 37,0 | 46 | 14             | 50             | M 45x2         | 32x2,5  | 33,2       |
| DS-RLDKO 35/8  | 35                 | 8                  | L 250 (1100)         | 51,5 | 37,0 | 46 | 17             | 50             | M 45x2         | 32x2,5  | 33,7       |
| DS-RLDKO 35/10 | 35                 | 10                 | L 250 (1100)         | 52,5 | 38,0 | 46 | 19             | 50             | M 45x2         | 32x2,5  | 34,2       |
| DS-RLDKO 35/12 | 35                 | 12                 | L 250 (1100)         | 52,5 | 38,0 | 46 | 22             | 50             | M 45x2         | 32x2,5  | 35,3       |
| DS-RLDKO 35/15 | 35                 | 15                 | L 250 (1100)         | 54,0 | 39,0 | 46 | 27             | 50             | M 45x2         | 32x2,5  | 37,1       |
| DS-RLDKO 35/18 | 35                 | 18                 | L 250 (1100)         | 54,5 | 38,5 | 46 | 32             | 50             | M 45x2         | 32x2,5  | 39,1       |
| DS-RLDKO 35/22 | 35                 | 22                 | L 250 (1100)         | 56,5 | 40,5 | 46 | 36             | 50             | M 45x2         | 32x2,5  | 41,6       |
| DS-RLDKO 35/28 | 35                 | 28                 | L 250 (1100)         | 57,0 | 40,5 | 46 | 41             | 50             | M 45x2         | 32x2,5  | 42,6       |
| DS-RLDKO 42/6  | 42                 | 6                  | L 250 (1100)         | 52,0 | 37,5 | 50 | 14             | 60             | M 52x2         | 38x2,5  | 51,2       |
| DS-RLDKO 42/8  | 42                 | 8                  | L 250 (1100)         | 52,0 | 37,5 | 50 | 17             | 60             | M 52x2         | 38x2,5  | 51,8       |
| DS-RLDKO 42/10 | 42                 | 10                 | L 250 (1100)         | 56,0 | 41,5 | 50 | 19             | 60             | M 52x2         | 38x2,5  | 52,3       |
| DS-RLDKO 42/12 | 42                 | 12                 | L 250 (1100)         | 56,0 | 41,5 | 50 | 22             | 60             | M 52x2         | 38x2,5  | 53,4       |
| DS-RLDKO 42/15 | 42                 | 15                 | L 250 (1100)         | 57,5 | 42,5 | 50 | 27             | 60             | M 52x2         | 38x2,5  | 55,1       |
| DS-RLDKO 42/18 | 42                 | 18                 | L 250 (1100)         | 58,0 | 42,0 | 50 | 32             | 60             | M 52x2         | 38x2,5  | 60,7       |
| DS-RLDKO 42/22 | 42                 | 22                 | L 250 (1100)         | 60,0 | 44,0 | 50 | 36             | 60             | M 52x2         | 38x2,5  | 66,5       |
| DS-RLDKO 42/28 | 42                 | 28                 | L 250 (1100)         | 60,5 | 44,0 | 50 | 41             | 60             | M 52x2         | 38x2,5  | 68,0       |
| DS-RLDKO 42/35 | 42                 | 35                 | L 250 (1100)         | 64,5 | 43,0 | 50 | 50             | 60             | M 52x2         | 38x2,5  | 69,5       |

L = przybliżona długość z dokręconą nakrętką

Patrz „Projektowanie i dane techniczne - Wybór właściwego złącza rurowego”, aby

- zobaczyć przykład redukcji.

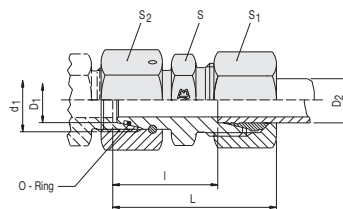
- uzyskać więcej informacji na temat ciśnienia.

## POŁĄCZENIA RUROWE PRZYŁĄCZA REDUKCYJNE

### RSDKO PRZYŁĄCZE REDUKCYJNE Z GWINTEM STOŻK.

Z gwintem stożkowym i O-ringiem wg DIN 3865.

Dostarczane z zamontowanym O-ringiem NBR (np. Perbunan), FPM O-ring (np. Viton) na zamówienie.



| opis           | Śr.zew.<br>rury D1 | Śr.zew.<br>rury D2 | Nr produktu<br>seria | L    | l    | S  | S <sub>1</sub> | S <sub>2</sub> | d <sub>1</sub> | O-ring   | kg %<br>pc |
|----------------|--------------------|--------------------|----------------------|------|------|----|----------------|----------------|----------------|----------|------------|
| DS-RSDKO 8/6   | 8                  | 6                  | S 800 [3400]         | 41,5 | 27,0 | 14 | 17             | 19             | M 16x1,5       | 6x1,5    | 3,4        |
| DS-RSDKO 10/6  | 10                 | 6                  | S 800 [3400]         | 42,0 | 27,5 | 17 | 17             | 22             | M 18x1,5       | 7,5x1,5  | 7,2        |
| DS-RSDKO 10/8  | 10                 | 8                  | S 800 [3400]         | 42,0 | 27,5 | 17 | 19             | 22             | M 18x1,5       | 7,5x1,5  | 7,8        |
| DS-RSDKO 12/6  | 12                 | 6                  | S 630 [2700]         | 43,5 | 29,0 | 19 | 17             | 24             | M 20x1,5       | 9x1,5    | 8,3        |
| DS-RSDKO 12/8  | 12                 | 8                  | S 630 [2700]         | 43,5 | 29,0 | 19 | 19             | 24             | M 20x1,5       | 9x1,5    | 9,3        |
| DS-RSDKO 12/10 | 12                 | 10                 | S 630 [2700]         | 45,5 | 29,5 | 19 | 22             | 24             | M 20x1,5       | 9x1,5    | 10,7       |
| DS-RSDKO 14/6  | 14                 | 6                  | S 630 [2700]         | 48,0 | 33,5 | 22 | 17             | 27             | M 22x1,5       | 10x2     | 9,2        |
| DS-RSDKO 14/8  | 14                 | 8                  | S 630 [2700]         | 48,0 | 33,5 | 22 | 19             | 27             | M 22x1,5       | 10x2     | 9,9        |
| DS-RSDKO 14/10 | 14                 | 10                 | S 630 [2700]         | 49,0 | 33,0 | 22 | 22             | 27             | M 22x1,5       | 10x2     | 11,0       |
| DS-RSDKO 14/12 | 14                 | 12                 | S 630 [2700]         | 49,0 | 33,0 | 22 | 24             | 27             | M 22x1,5       | 10x2     | 11,9       |
| DS-RSDKO 16/6  | 16                 | 6                  | S 630 [2700]         | 46,5 | 32,0 | 22 | 17             | 30             | M 24x1,5       | 12x2     | 12,7       |
| DS-RSDKO 16/8  | 16                 | 8                  | S 630 [2700]         | 46,5 | 32,0 | 22 | 19             | 30             | M 24x1,5       | 12x2     | 14,8       |
| DS-RSDKO 16/10 | 16                 | 10                 | S 630 [2700]         | 47,5 | 31,5 | 22 | 22             | 30             | M 24x1,5       | 12x2     | 14,8       |
| DS-RSDKO 16/12 | 16                 | 12                 | S 630 [2700]         | 47,5 | 31,5 | 22 | 24             | 30             | M 24x1,5       | 12x2     | 15,5       |
| DS-RSDKO 16/14 | 16                 | 14                 | S 630 [2700]         | 50,5 | 33,0 | 24 | 27             | 30             | M 24x1,5       | 12x2     | 16,3       |
| DS-RSDKO 20/6  | 20                 | 6                  | S 400 [1700]         | 50,5 | 36,0 | 27 | 17             | 36             | M 30x2         | 16,3x2,4 | 18,9       |
| DS-RSDKO 20/8  | 20                 | 8                  | S 400 [1700]         | 50,5 | 36,0 | 27 | 19             | 36             | M 30x2         | 16,3x2,4 | 20,5       |
| DS-RSDKO 20/10 | 20                 | 10                 | S 400 [1700]         | 51,5 | 35,5 | 27 | 22             | 36             | M 30x2         | 16,3x2,4 | 20,6       |
| DS-RSDKO 20/12 | 20                 | 12                 | S 400 [1700]         | 51,5 | 35,5 | 27 | 24             | 36             | M 30x2         | 16,3x2,4 | 21,3       |
| DS-RSDKO 20/14 | 20                 | 14                 | S 400 [1700]         | 54,5 | 37,0 | 27 | 27             | 36             | M 30x2         | 16,3x2,4 | 23,2       |
| DS-RSDKO 20/16 | 20                 | 16                 | S 400 [1700]         | 54,5 | 36,5 | 27 | 30             | 36             | M 30x2         | 16,3x2,4 | 25,9       |
| DS-RSDKO 25/6  | 25                 | 6                  | S 400 [1700]         | 53,0 | 38,5 | 36 | 17             | 46             | M 36x2         | 20,3x2,4 | 30,8       |
| DS-RSDKO 25/8  | 25                 | 8                  | S 400 [1700]         | 53,0 | 38,5 | 36 | 19             | 46             | M 36x2         | 20,3x2,4 | 31,9       |
| DS-RSDKO 25/10 | 25                 | 10                 | S 400 [1700]         | 54,0 | 38,0 | 36 | 22             | 46             | M 36x2         | 20,3x2,4 | 33,2       |
| DS-RSDKO 25/12 | 25                 | 12                 | S 400 [1700]         | 54,0 | 38,0 | 36 | 24             | 46             | M 36x2         | 20,3x2,4 | 33,4       |
| DS-RSDKO 25/14 | 25                 | 14                 | S 400 [1700]         | 57,0 | 39,5 | 36 | 27             | 46             | M 36x2         | 20,3x2,4 | 35,1       |
| DS-RSDKO 25/16 | 25                 | 16                 | S 400 [1700]         | 57,0 | 39,0 | 36 | 30             | 46             | M 36x2         | 20,3x2,4 | 37,3       |
| DS-RSDKO 25/20 | 25                 | 20                 | S 400 [1700]         | 60,5 | 39,0 | 36 | 36             | 46             | M 36x2         | 20,3x2,4 | 43,6       |
| DS-RSDKO 30/6  | 30                 | 6                  | S 400 [1700]         | 58,5 | 44,0 | 41 | 17             | 50             | M 42x2         | 25,3x2,4 | 42,9       |
| DS-RSDKO 30/8  | 30                 | 8                  | S 400 [1700]         | 58,5 | 44,0 | 41 | 19             | 50             | M 42x2         | 25,3x2,4 | 43,1       |
| DS-RSDKO 30/10 | 30                 | 10                 | S 400 [1700]         | 59,5 | 43,5 | 41 | 22             | 50             | M 42x2         | 25,3x2,4 | 43,6       |
| DS-RSDKO 30/12 | 30                 | 12                 | S 400 [1700]         | 59,5 | 43,5 | 41 | 24             | 50             | M 42x2         | 25,3x2,4 | 44,3       |
| DS-RSDKO 30/14 | 30                 | 14                 | S 400 [1700]         | 62,5 | 45,0 | 41 | 27             | 50             | M 42x2         | 25,3x2,4 | 46,1       |
| DS-RSDKO 30/16 | 30                 | 16                 | S 400 [1700]         | 62,5 | 44,5 | 41 | 30             | 50             | M 42x2         | 25,3x2,4 | 48,7       |
| DS-RSDKO 30/20 | 30                 | 20                 | S 400 [1700]         | 66,0 | 44,5 | 41 | 36             | 50             | M 42x2         | 25,3x2,4 | 53,6       |
| DS-RSDKO 30/25 | 30                 | 25                 | S 400 [1700]         | 69,0 | 45,0 | 41 | 46             | 50             | M 42x2         | 25,3x2,4 | 67,3       |
| DS-RSDKO 38/6  | 38                 | 6                  | S 400 [1700]         | 62,0 | 47,5 | 50 | 17             | 60             | M 52x2         | 33,3x2,4 | 70,8       |
| DS-RSDKO 38/8  | 38                 | 8                  | S 400 [1700]         | 62,0 | 47,5 | 50 | 19             | 60             | M 52x2         | 33,3x2,4 | 71,0       |
| DS-RSDKO 38/10 | 38                 | 10                 | S 400 [1700]         | 63,0 | 47,0 | 50 | 22             | 60             | M 52x2         | 33,3x2,4 | 71,4       |
| DS-RSDKO 38/12 | 38                 | 12                 | S 400 [1700]         | 63,0 | 47,0 | 50 | 24             | 60             | M 52x2         | 33,3x2,4 | 72,0       |
| DS-RSDKO 38/14 | 38                 | 14                 | S 400 [1700]         | 66,0 | 48,5 | 50 | 27             | 60             | M 52x2         | 33,3x2,4 | 74,3       |
| DS-RSDKO 38/16 | 38                 | 16                 | S 400 [1700]         | 66,0 | 48,0 | 50 | 30             | 60             | M 52x2         | 33,3x2,4 | 77,0       |
| DS-RSDKO 38/20 | 38                 | 20                 | S 400 [1700]         | 69,5 | 48,0 | 50 | 36             | 60             | M 52x2         | 33,3x2,4 | 81,2       |
| DS-RSDKO 38/25 | 38                 | 25                 | S 400 [1700]         | 72,5 | 48,5 | 50 | 46             | 60             | M 52x2         | 33,3x2,4 | 85,0       |
| DS-RSDKO 38/30 | 38                 | 30                 | S 400 [1700]         | 75,5 | 49,0 | 50 | 50             | 60             | M 52x2         | 33,3x2,4 | 87,8       |

L = przybliżona długość z dokręconą nakrętką

Patrz „Projektowanie i dane techniczne - Wybór właściwego złącza rurowego”, aby

- zobaczyć przykład redukcji.

- uzyskać więcej informacji na temat ciśnienia.

# ŚWIAT ZŁĄCZY RUROWYCH

ZINTEGROWANE ROZWIĄZANIA FLUID POWER



# ZAWORY



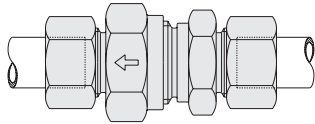


## ZAWORY

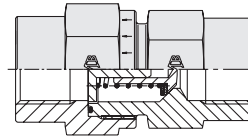
### ZAWORY ZWROTNE ZE STOŻKIEM

ŚWIAT ZŁĄCZY RUROWYCH

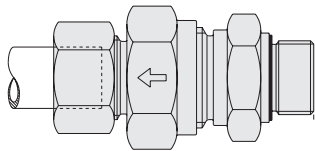
## ZAWORY ZWROTNE — WPROWADZENIE



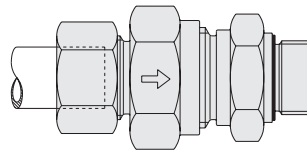
Kod zamówienia RD



Kod zamówienia RF



Kod zamówienia RV



Kod zamówienia RZ

#### USZCZELNIENIE

Stożek na prowadnicy z ogranicznikiem wznoszenia zaworu.

Brak zmniejszonego przekroju.

Maks. prędkość przepływu wynosi ok. 8 m/sek.

#### CIŚNIENIE OTWIERAJĄCE

1 bar. Inne wartości ciśnienia otwierającego na zamówienie.

Tolerancja ciśnienia otwierającego  $\pm 20\%$ .

#### ZAWORY CIŚNIENIA WSTECZNEGO RV I RZ

Uszczelnienie przy zakręconym gwincie: uszczelka elastyczna Gates-EMB (WD).

#### TEMPERATURA

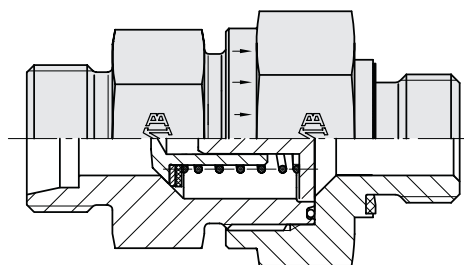
Standard Perbunan  $-35^{\circ}\text{C}$  do  $+100^{\circ}\text{C}$ .

Opcja Viton  $-40^{\circ}\text{C}$  do  $+200^{\circ}\text{C}$ .

#### MATERIAŁ

Stal ciągniona, powierzchnia galwanizowana.

Inne materiały na zamówienie.

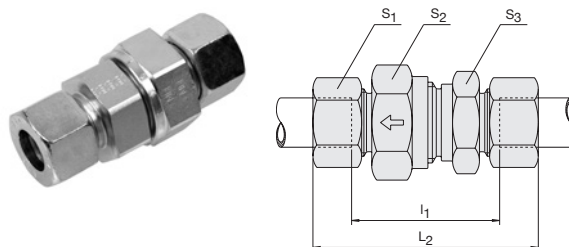


## ZAWORY

### ZAWORY ZWROTNE ZE STOŻKIEM

#### RD ZAWORY ZWROTNE

Łącze rurowe na obu końcach.



| opis       |    | Śr.<br>zew.<br>rury | PB<br>seria  | Rozmiar<br>nominalny<br>DN |        | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | L <sub>1</sub> | L <sub>2</sub> | otwór | kg %<br>pc |
|------------|----|---------------------|--------------|----------------------------|--------|----------------|----------------|----------------|----------------|----------------|-------|------------|
| DS-RD 6-L  |    | 6                   | L 250 (625)  | 4                          |        | 14             | 17             | 17             | 58,0           | 29,0           | 3,5   | 6,5        |
| DS-RD 8-L  |    | 8                   | L 250 (625)  | 6                          | 1/8"   | 17             | 19             | 19             | 59,0           | 30,0           | 5,5   | 8,0        |
| DS-RD 10-L |    | 10                  | L 250 (625)  | 8                          | 1/4"   | 19             | 24             | 22             | 69,5           | 40,5           | 7,5   | 14,0       |
| DS-RD 12-L |    | 12                  | L 250 (625)  | 10                         | 3/8"   | 22             | 30             | 27             | 72,5           | 43,5           | 9,5   | 21,0       |
| DS-RD 15-L |    | 15                  | L 250 (625)  | 12                         | 1/2"   | 27             | 32             | 27             | 77,5           | 47,5           | 11,5  | 25,0       |
| DS-RD 18-L |    | 18                  | L 160 (400)  | 16                         | 1/2"   | 32             | 36             | 36             | 83,5           | 51,5           | 14,0  | 40,0       |
| DS-RD 22-L |    | 22                  | L 160 (400)  | 20                         | 3/4"   | 36             | 46             | 41             | 93,5           | 61,5           | 18,0  | 61,0       |
| DS-RD 28-L |    | 28                  | L 100 (250)  | 25                         | 1"     | 41             | 55             | 50             | 102,5          | 69,5           | 23,0  | 88,0       |
| DS-RD 35-L |    | 35                  | L 100 (250)  | 32                         | 1 1/4" | 50             | 60             | 60             | 117,5          | 74,5           | 29,0  | 130,0      |
| DS-RD 42-L | 1) | 42                  | L 100 (250)  | 32                         | 1 1/4" | 60             | 70             | 65             | 119,0          | 74,0           | 29,0  | 200,0      |
| DS-RD 6-S  |    | 6                   | S 400 (1000) | 3                          |        | 17             | 19             | 19             | 63,5           | 34,5           | 3,5   | 9,5        |
| DS-RD 8-S  |    | 8                   | S 400 (1000) | 4                          |        | 19             | 19             | 19             | 63,5           | 34,5           | 3,5   | 11,0       |
| DS-RD 10-S |    | 10                  | S 400 (1000) | 6                          | 1/8"   | 22             | 24             | 22             | 72,5           | 40,5           | 5,5   | 18,0       |
| DS-RD 12-S |    | 12                  | S 400 (1000) | 8                          | 1/4"   | 24             | 27             | 24             | 74,5           | 42,5           | 7,5   | 21,5       |
| DS-RD 14-S |    | 14                  | S 400 (1000) | 10                         | 3/8"   | 27             | 32             | 27             | 82,5           | 47,5           | 9,5   | 30,0       |
| DS-RD 16-S | 1) | 16                  | S 400 (1000) | 12                         | 1/2"   | 30             | 36             | 32             | 86,5           | 50,5           | 11,5  | 40,0       |
| DS-RD 20-S | 1) | 20                  | S 400 (1000) | 16                         | 1/2"   | 36             | 46             | 41             | 97,5           | 54,5           | 15,0  | 69,0       |
| DS-RD 25-S | 1) | 25                  | S 250 (625)  | 20                         | 3/4"   | 46             | 50             | 46             | 106,5          | 58,5           | 19,0  | 103,5      |
| DS-RD 30-S |    | 30                  | S 250 (625)  | 25                         | 1"     | 50             | 60             | 60             | 122,5          | 69,5           | 24,0  | 159,0      |
| DS-RD 38-S | 1) | 38                  | S 250 (625)  | 32                         | 1 1/4" | 60             | 70             | 65             | 136,5          | 75,5           | 29,0  | 227,0      |

L<sub>1</sub> = przybliżona długość z dokręconą nakrętką

1) półtówki zaworów z uszczelnieniem typu O-ring

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne - Wybór właściwego złącza rurowego”.

## ZAWORY

### ZAWORY ZWROTNE ZE STOŻKIEM

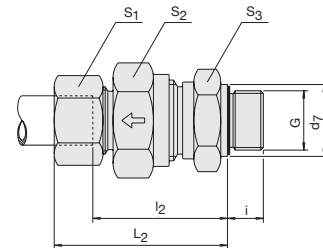
ŚWIAT ZŁĄCZY RUROWYCH

#### RV ZAWORY ZWROTNE BSP

Przepływ od złącza rurowego męskiego.

BSP gwint walc.

Pierścień zintegrowany O-ring NBR  
(np. Perbunan), FPM (np. Viton) na zamówienie.



| opis              | Śr.<br>zew.<br>rury | PB<br>seria  | Rozmiar<br>nominalny<br>DN |        | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | L <sub>2</sub> | l <sub>2</sub> | d <sub>7</sub> | i  | otwór | Gwint<br>BSP | kg<br>% pc |
|-------------------|---------------------|--------------|----------------------------|--------|----------------|----------------|----------------|----------------|----------------|----------------|----|-------|--------------|------------|
| DS-RV 6-RL/WD     | 6                   | L 250 (625)  | 4                          |        | 14             | 17             | 17             | 42,5           | 28,0           | 14             | 8  | 3,5   | G 1/8" A     | 5,0        |
| DS-RV 8-RL/WD     | 8                   | L 250 (625)  | 6                          | 1/8"   | 17             | 19             | 19             | 44,5           | 30,0           | 19             | 12 | 5,5   | G 1/4" A     | 7,2        |
| DS-RV 10-RL/WD    | 10                  | L 250 (625)  | 8                          | 1/4"   | 19             | 24             | 22             | 53,0           | 38,5           | 19             | 12 | 7,5   | G 1/4" A     | 9,0        |
| DS-RV 12-RL/WD    | 12                  | L 250 (625)  | 10                         | 3/8"   | 22             | 30             | 27             | 57,0           | 42,5           | 22             | 12 | 9,5   | G 3/8" A     | 18,5       |
| DS-RV 15-RL/WD    | 15                  | L 250 (625)  | 12                         | 1/2"   | 27             | 32             | 27             | 60,5           | 45,5           | 27             | 14 | 11,5  | G 1/2" A     | 22,5       |
| DS-RV 18-RL/WD    | 18                  | L 160 (400)  | 16                         | 1/2"   | 32             | 36             | 36             | 66,0           | 50,0           | 27             | 14 | 14,0  | G 1/2" A     | 33,5       |
| DS-RV 22-RL/WD    | 22                  | L 160 (400)  | 20                         | 3/4"   | 36             | 46             | 41             | 71,0           | 55,0           | 32             | 16 | 18,0  | G 3/4" A     | 50,0       |
| DS-RV 28-RL/WD    | 28                  | L 100 (250)  | 25                         | 1"     | 41             | 55             | 50             | 79,5           | 63,0           | 40             | 18 | 23,0  | G 1" A       | 78,5       |
| DS-RV 35-RL/WD    | 35                  | L 100 (250)  | 32                         | 1 1/4" | 50             | 60             | 60             | 90,5           | 69,0           | 50             | 20 | 29,0  | G 1 1/4" A   | 115,2      |
| DS-RV 42-RL/WD 1) | 42                  | L 100 (250)  | 32                         | 1 1/4" | 60             | 70             | 65             | 91,0           | 68,5           | 55             | 22 | 29,0  | G 1 1/2" A   | 179,0      |
| DS-RV 6-RS/WD     | 6                   | S 400 (1000) | 3                          |        | 17             | 19             | 19             | 46,0           | 31,5           | 19             | 12 | 3,5   | G 1/4" A     | 9,0        |
| DS-RV 8-RS/WD     | 8                   | S 400 (1000) | 4                          |        | 19             | 19             | 19             | 46,0           | 31,5           | 19             | 12 | 3,5   | G 1/4" A     | 11,5       |
| DS-RV 10-RS/WD    | 10                  | S 400 (1000) | 6                          | 1/8"   | 22             | 24             | 22             | 54,0           | 38,0           | 22             | 12 | 5,5   | G 3/8" A     | 15,0       |
| DS-RV 12-RS/WD    | 12                  | S 400 (1000) | 8                          | 1/4"   | 24             | 27             | 24             | 57,0           | 41,0           | 22             | 12 | 7,5   | G 3/8" A     | 18,5       |
| DS-RV 14-RS/WD    | 14                  | S 400 (1000) | 10                         | 3/8"   | 27             | 32             | 27             | 62,0           | 44,5           | 27             | 14 | 11,5  | G 1/2" A     | 25,5       |
| DS-RV 16-RS/WD 1) | 16                  | S 400 (1000) | 12                         | 1/2"   | 30             | 36             | 32             | 66,0           | 48,0           | 27             | 14 | 11,5  | G 1/2" A     | 32,0       |
| DS-RV 20-RS/WD 1) | 20                  | S 400 (1000) | 16                         | 1/2"   | 36             | 46             | 41             | 73,5           | 52,0           | 32             | 16 | 15,0  | G 3/4" A     | 59,5       |
| DS-RV 25-RS/WD 1) | 25                  | S 250 (625)  | 20                         | 3/4"   | 46             | 50             | 46             | 78,5           | 54,5           | 40             | 18 | 19,0  | G 1" A       | 85,0       |
| DS-RV 30-RS/WD 1) | 30                  | S 250 (625)  | 25                         | 1"     | 50             | 60             | 60             | 90,5           | 64,0           | 50             | 20 | 24,0  | G 1 1/4" A   | 136,0      |
| DS-RV 38-RS/WD 1) | 38                  | S 250 (625)  | 32                         | 1 1/4" | 60             | 70             | 65             | 100,0          | 69,5           | 55             | 22 | 29,0  | G 1 1/2" A   | 195,0      |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

1) półtłokowe zawory z uszczelnieniem typu O-ring

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ZAWORY

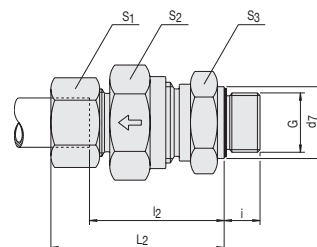
### ZAWORY ZWROTNE ZE STOŻKIEM

#### RV ZAWORY ZWROTNE METRYCZNE

Przeptyw od złącza rurowego męskiego.

Walcowy metryczny.

Pierścień zintegrowany O-ring NBR (np. Perbunan), FPM (np. Viton) na zamówienie.



| opis              | Śr. zew. rury | Seria PB     | Rozmiar nominalny DN |        | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | L <sub>2</sub> | l <sub>2</sub> | d <sub>7</sub> | i  | otwór | Gwint metryczny | kg % pc |
|-------------------|---------------|--------------|----------------------|--------|----------------|----------------|----------------|----------------|----------------|----------------|----|-------|-----------------|---------|
| DS-RV 6-ML/WD     | 6             | L 250 [625]  | 4                    |        | 14             | 17             | 17             | 42,5           | 28,0           | 14             | 8  | 3,5   | M 10x1          | 5,0     |
| DS-RV 8-ML/WD     | 8             | L 250 [625]  | 6                    | 1/8"   | 17             | 19             | 19             | 43,5           | 30,0           | 17             | 12 | 5,5   | M 12x1,5        | 7,2     |
| DS-RV 10-ML/WD    | 10            | L 250 [625]  | 8                    | 1/4"   | 19             | 24             | 22             | 53,0           | 38,5           | 19             | 12 | 7,5   | M 14x1,5        | 5,0     |
| DS-RV 12-ML/WD    | 12            | L 250 [625]  | 10                   | 3/8"   | 22             | 30             | 27             | 57,0           | 42,5           | 22             | 12 | 9,5   | M 16x1,5        | 18,5    |
| DS-RV 15-ML/WD    | 15            | L 250 [625]  | 12                   | 1/2"   | 27             | 32             | 27             | 60,6           | 45,5           | 24             | 12 | 11,5  | M 18x1,5        | 22,5    |
| DS-RV 18-ML/WD    | 18            | L 160 [400]  | 16                   | 1/2"   | 32             | 36             | 36             | 66,0           | 50,0           | 27             | 14 | 14,0  | M 22x1,5        | 33,5    |
| DS-RV 22-ML/WD    | 22            | L 160 [400]  | 20                   | 3/4"   | 36             | 46             | 41             | 71,0           | 55,0           | 32             | 16 | 18,0  | M 26x1,5        | 50,0    |
| DS-RV 28-ML/WD    | 28            | L 100 [250]  | 25                   | 1"     | 41             | 55             | 50             | 79,5           | 63,0           | 40             | 18 | 23,0  | M 33x2          | 78,5    |
| DS-RV 35-ML/WD    | 35            | L 100 [250]  | 32                   | 1 1/4" | 50             | 60             | 60             | 90,5           | 69,0           | 50             | 20 | 29,0  | M 42x2          | 115,2   |
| DS-RV 42-ML/WD 1) | 42            | L 100 [250]  | 32                   | 1 1/4" | 60             | 70             | 65             | 91,0           | 67,5           | 55             | 22 | 29,0  | M 48x2          | 179,0   |
| DS-RV 6-MS/WD     | 6             | S 400 [1000] | 3                    |        | 17             | 19             | 19             | 46,0           | 31,5           | 17             | 12 | 3,5   | M 12x1,5        | 9,0     |
| DS-RV 8-MS/WD     | 8             | S 400 [1000] | 4                    |        | 19             | 19             | 19             | 46,0           | 31,5           | 19             | 12 | 3,5   | M 14x1,5        | 11,5    |
| DS-RV 10-MS/WD    | 10            | S 400 [1000] | 6                    | 1/8"   | 22             | 24             | 22             | 54,0           | 38,0           | 22             | 12 | 5,5   | M 16x1,5        | 15,0    |
| DS-RV 12-MS/WD    | 12            | S 400 [1000] | 8                    | 1/4"   | 24             | 27             | 24             | 57,0           | 41,0           | 24             | 12 | 7,5   | M 18x1,5        | 18,5    |
| DS-RV 14-MS/WD    | 14            | S 400 [1000] | 10                   | 3/8"   | 27             | 32             | 27             | 62,0           | 44,5           | 26             | 14 | 9,5   | M 20x1,5        | 25,5    |
| DS-RV 16-MS/WD    | 16            | S 400 [1000] | 12                   | 1/2"   | 30             | 36             | 32             | 66,0           | 48,0           | 27             | 14 | 11,5  | M 22x1,5        | 32,0    |
| DS-RV 20-MS/WD 1) | 20            | S 400 [1000] | 16                   | 1/2"   | 36             | 46             | 41             | 73,5           | 52,0           | 32             | 16 | 15,0  | M 27x2          | 59,5    |
| DS-RV 25-MS/WD    | 25            | S 250 [625]  | 20                   | 3/4"   | 46             | 50             | 46             | 78,5           | 54,5           | 40             | 18 | 19,0  | M 33x2          | 84,5    |
| DS-RV 30-MS/WD 1) | 30            | S 250 [625]  | 25                   | 1"     | 50             | 60             | 60             | 90,5           | 64,0           | 50             | 20 | 24,0  | M 42x2          | 135,0   |
| DS-RV 38-MS/WD 1) | 38            | S 250 [625]  | 32                   | 1 1/4" | 60             | 70             | 65             | 100,0          | 69,5           | 55             | 22 | 29,0  | M 48x2          | 196,8   |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

1) półtówki zaworów z uszczelnieniem typu O-ring

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.



## ZAWORY ZAWORY ZWROTNE ZE STOŻKIEM

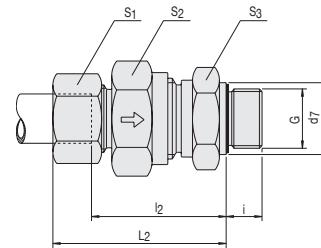
ŚWIAT ZŁĄCZY RUROWYCH

### RZ ZAWORY ZWROTNE BSP

Przeptyw do złącza rurowego męskiego.

BSP gwint walc.

Pierścień zintegrowany O-ring NBR (np. Perbunan),  
FPM (np. Viton) na zamówienie.



| opis           | Śr.<br>zew.<br>rury | PB<br>seria  | Rozmiar<br>nominalny<br>DN |        | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | L <sub>2</sub> | l <sub>2</sub> | d <sub>7</sub> | i  | otwór | Gwint<br>BSP | kg /<br>100pcs |
|----------------|---------------------|--------------|----------------------------|--------|----------------|----------------|----------------|----------------|----------------|----------------|----|-------|--------------|----------------|
| DS-RZ 6-RL/WD  | 6                   | L 250 (625)  | 4                          |        | 14             | 17             | 17             | 41,0           | 26,5           | 14             | 8  | 3,5   | G 1/8" A     | 5,1            |
| DS-RZ 8-RL/WD  | 8                   | L 250 (625)  | 6                          | 1/8"   | 17             | 19             | 19             | 43,0           | 28,5           | 19             | 12 | 5,5   | G 1/4" A     | 6,5            |
| DS-RZ 10-RL/WD | 10                  | L 250 (625)  | 8                          | 1/4"   | 19             | 24             | 22             | 53,0           | 38,5           | 19             | 12 | 7,5   | G 1/4" A     | 8,5            |
| DS-RZ 12-RL/WD | 12                  | L 250 (625)  | 10                         | 3/8"   | 22             | 27             | 30             | 55,0           | 40,5           | 22             | 12 | 9,5   | G 3/8" A     | 18,0           |
| DS-RZ 15-RL/WD | 15                  | L 250 (625)  | 12                         | 1/2"   | 27             | 27             | 32             | 57,5           | 42,5           | 27             | 12 | 11,5  | G 1/2" A     | 21,0           |
| DS-RZ 18-RL/WD | 18                  | L 160 (400)  | 16                         | 1/2"   | 32             | 36             | 36             | 64,0           | 48,0           | 27             | 14 | 14,0  | G 1/2" A     | 32,0           |
| DS-RZ 22-RL/WD | 22                  | L 160 (400)  | 20                         | 3/4"   | 36             | 41             | 46             | 72,0           | 56,0           | 32             | 16 | 18,0  | G 3/4" A     | 49,0           |
| DS-RZ 28-RL/WD | 28                  | L 100 (250)  | 25                         | 1"     | 41             | 50             | 55             | 80,5           | 64,0           | 40             | 18 | 23,0  | G 1" A       | 77,0           |
| DS-RZ 35-RL/WD | 35                  | L 100 (250)  | 32                         | 1 1/4" | 50             | 60             | 60             | 91,5           | 70,0           | 50             | 20 | 29,0  | G 1 1/4" A   | 114,0          |
| DS-RZ 42-RL/WD | 1) 42               | L 100 (250)  | 32                         | 1 1/4" | 60             | 65             | 70             | 93,0           | 70,5           | 55             | 22 | 29,0  | G 1 1/2" A   | 182,0          |
| DS-RZ 6-RS/WD  | 6                   | S 400 (1000) | 3                          |        | 17             | 19             | 19             | 46,0           | 31,5           | 19             | 12 | 3,5   | G 1/4" A     | 7,5            |
| DS-RZ 8-RS/WD  | 8                   | S 400 (1000) | 4                          |        | 19             | 19             | 19             | 46,0           | 31,5           | 19             | 12 | 3,5   | G 1/4" A     | 8,5            |
| DS-RZ 10-RS/WD | 10                  | S 400 (1000) | 6                          | 1/8"   | 22             | 22             | 24             | 54,0           | 38,0           | 22             | 12 | 5,5   | G 3/8" A     | 15,0           |
| DS-RZ 12-RS/WD | 12                  | S 400 (1000) | 8                          | 1/4"   | 24             | 24             | 27             | 57,0           | 41,0           | 22             | 12 | 7,5   | G 3/8" A     | 18,0           |
| DS-RZ 14-RS/WD | 14                  | S 400 (1000) | 10                         | 3/8"   | 27             | 27             | 32             | 61,0           | 43,5           | 27             | 14 | 9,5   | G 1/2" A     | 25,2           |
| DS-RZ 16-RS/WD | 1) 16               | S 400 (1000) | 12                         | 1/2"   | 30             | 32             | 36             | 64,0           | 46,0           | 27             | 14 | 11,5  | G 1/2" A     | 32,5           |
| DS-RZ 20-RS/WD | 1) 20               | S 400 (1000) | 16                         | 1/2"   | 36             | 41             | 46             | 71,5           | 50,0           | 32             | 16 | 15,0  | G 3/4" A     | 59,0           |
| DS-RZ 25-RS/WD | 1) 25               | S 250 (625)  | 20                         | 3/4"   | 46             | 46             | 50             | 78,5           | 54,5           | 40             | 18 | 19,0  | G 1" A       | 82,5           |
| DS-RZ 30-RS/WD | 30                  | S 250 (625)  | 25                         | 1"     | 50             | 60             | 60             | 90,5           | 64,0           | 50             | 20 | 24,0  | G 1 1/4" A   | 133,2          |
| DS-RZ 38-RS/WD | 1) 38               | S 250 (625)  | 32                         | 1 1/4" | 60             | 65             | 70             | 102,0          | 71,5           | 55             | 22 | 29,0  | G 1 1/2" A   | 197,5          |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

1) półotwórki zaworów z uszczelnieniem typu O-ring

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ZAWORY

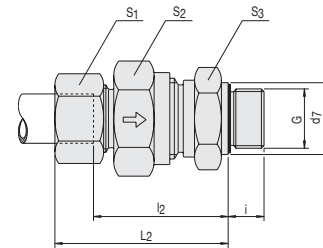
### ZAWORY ZWROTNE ZE STOŻKIEM

#### RZ ZAWORY ZWROTNE METRYCZNE

Przeptyw od złącza rurowego męskiego.

Walcowy metryczny.

Pierścień zintegrowany O-ring NBR (np. Perbunan),  
FPM (np. Viton) na zamówienie.



| opis              | Śr.<br>zew.<br>rury | Seria PB     | Rozmiar<br>nominalny<br>DN |        | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | L <sub>2</sub> | l <sub>2</sub> | d <sub>7</sub> | i  | otwór | Gwint<br>metryczny | kg /<br>100pcs |
|-------------------|---------------------|--------------|----------------------------|--------|----------------|----------------|----------------|----------------|----------------|----------------|----|-------|--------------------|----------------|
| DS-RZ 6-ML/WD     | 6                   | L 250 [625]  | 4                          |        | 14             | 17             | 17             | 41,0           | 26,5           | 14             | 8  | 3,5   | M 10x1             | 5,1            |
| DS-RZ 8-ML/WD     | 8                   | L 250 [625]  | 6                          | 1/8"   | 17             | 19             | 19             | 43,0           | 28,5           | 17             | 12 | 5,5   | M 12x1,5           | 6,5            |
| DS-RZ 10-ML/WD    | 10                  | L 250 [625]  | 8                          | 1/4"   | 19             | 22             | 24             | 53,0           | 38,5           | 19             | 12 | 7,5   | M 14x1,5           | 8,5            |
| DS-RZ 12-ML/WD    | 12                  | L 250 [625]  | 10                         | 3/8"   | 22             | 27             | 30             | 55,0           | 40,5           | 22             | 12 | 9,5   | M 16x1,5           | 18,0           |
| DS-RZ 15-ML/WD    | 15                  | L 250 [625]  | 12                         | 1/2"   | 27             | 27             | 32             | 57,5           | 42,5           | 24             | 12 | 11,5  | M 18x1,5           | 21,0           |
| DS-RZ 18-ML/WD    | 18                  | L 160 [400]  | 16                         | 1/2"   | 32             | 36             | 36             | 64,0           | 48,0           | 27             | 14 | 14,0  | M 22x1,5           | 32,0           |
| DS-RZ 22-ML/WD    | 22                  | L 160 [400]  | 20                         | 3/4"   | 36             | 41             | 46             | 72,0           | 56,0           | 32             | 16 | 18,0  | M 26x1,5           | 49,0           |
| DS-RZ 28-ML/WD    | 28                  | L 100 [250]  | 25                         | 1"     | 41             | 50             | 55             | 80,5           | 64,0           | 40             | 18 | 23,0  | M 33x2             | 77,0           |
| DS-RZ 35-ML/WD    | 35                  | L 100 [250]  | 32                         | 1 1/4" | 50             | 60             | 60             | 91,5           | 70,0           | 50             | 20 | 29,0  | M 42x2             | 114,0          |
| DS-RZ 42-ML/WD 1) | 42                  | L 100 [250]  | 32                         | 1 1/4" | 60             | 65             | 70             | 93,0           | 70,5           | 55             | 22 | 29,0  | M 48x2             | 180,0          |
| DS-RZ 6-MS/WD     | 6                   | S 400 [1000] | 3                          |        | 17             | 19             | 19             | 46,0           | 31,5           | 17             | 12 | 3,5   | M 12x1,5           | 7,5            |
| DS-RZ 8-MS/WD     | 8                   | S 400 [1000] | 4                          | 1/8"   | 19             | 19             | 19             | 46,0           | 31,5           | 19             | 12 | 3,5   | M 14x1,5           | 8,5            |
| DS-RZ 10-MS/WD    | 10                  | S 400 [1000] | 6                          | 1/8"   | 22             | 22             | 24             | 54,0           | 38,0           | 22             | 12 | 5,5   | M 16x1,5           | 15,0           |
| DS-RZ 12-MS/WD    | 12                  | S 400 [1000] | 8                          | 1/4"   | 24             | 24             | 27             | 57,0           | 41,0           | 24             | 12 | 7,5   | M 18x1,5           | 18,0           |
| DS-RZ 14-MS/WD    | 14                  | S 400 [1000] | 10                         | 3/8"   | 27             | 27             | 32             | 61,0           | 43,5           | 26             | 14 | 9,5   | M 20x1,5           | 25,2           |
| DS-RZ 16-MS/WD 1) | 16                  | S 400 [1000] | 12                         | 1/2"   | 30             | 32             | 36             | 64,0           | 46,0           | 27             | 14 | 11,5  | M 22x1,5           | 32,5           |
| DS-RZ 20-MS/WD 1) | 20                  | S 400 [1000] | 16                         | 1/2"   | 36             | 41             | 46             | 71,5           | 50,0           | 32             | 16 | 15,0  | M 27x2             | 59,0           |
| DS-RZ 25-MS/WD 1) | 25                  | S 250 [625]  | 20                         | 3/4"   | 46             | 46             | 50             | 78,5           | 54,5           | 40             | 18 | 19,0  | M 33x2             | 84,0           |
| DS-RZ 30-MS/WD    | 30                  | S 250 [625]  | 25                         | 1"     | 50             | 60             | 60             | 90,5           | 64,0           | 50             | 20 | 24,0  | M 42x2             | 134,5          |
| DS-RZ 38-MS/WD 1) | 38                  | S 250 [625]  | 32                         | 1 1/4" | 60             | 65             | 70             | 102,0          | 71,5           | 55             | 22 | 29,0  | M 48x2             | 199,5          |

L<sub>2</sub> = przybliżona długość z dokręconą nakrętką

1) półtówki zaworów z uszczelnieniem typu O-ring

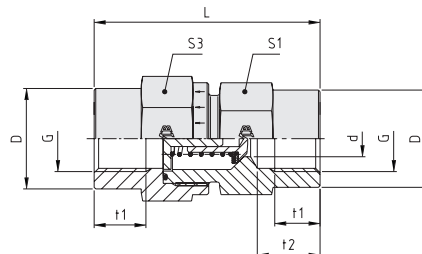
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## ZAWORY ZAWORY ZWROTNE ZE STOŻKIEM

ŚWIAT ZŁĄCZY RUROWYCH

### RF ZAWORY ZWROTNE

Dwuczołowy wewnętrzny gwint rurowy.



| opis      | PB     | Rozmiar nominalny DN | S <sub>1</sub> | S <sub>3</sub> | L    | t <sub>1</sub> min. | t <sub>2</sub> | D  | d    | G       | kg % pc |
|-----------|--------|----------------------|----------------|----------------|------|---------------------|----------------|----|------|---------|---------|
| RF 1/8"   | 400    | 3                    | 19             | 19             | 42,5 | 8,0                 | 12,0           | 19 | 3,5  | G 1/8   | 7,6     |
| RF 1/4"   | 400    | 4                    | 19             | 19             | 51   | 12,0                | 16,0           | 19 | 3,5  | G 1/4   | 8,5     |
| RF 3/8"   | 400    | 8                    | 24             | 27             | 60   | 12,0                | 17,0           | 24 | 7,5  | G 3/8   | 15,6    |
| RF 1/2"   | 400    | 12                   | 32             | 36             | 72   | 15,0                | 20,0           | 32 | 11,5 | G 1/2   | 34,4    |
| RF 3/4"   | 1) 400 | 16                   | 41             | 46             | 84   | 16,5                | 22,0           | 41 | 15,0 | G 3/4   | 59,0    |
| RF 1"     | 1) 250 | 20                   | 46             | 50             | 95   | 19,0                | 25,5           | 46 | 19,0 | G 1     | 82,3    |
| RF 1,1/4" | 1) 250 | 25                   | 60             | 60             | 110  | 21,5                | 28,0           | 60 | 24,0 | G 1 1/4 | 153,6   |
| RF 1,1/2" | 1) 250 | 32                   | 65             | 70             | 114  | 22,0                | 28,5           | 65 | 29,0 | G 1 1/2 | 193,3   |

1) półotwórki zaworów z uszczelnieniem typu O-ring

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne – Wybór właściwego złącza rurowego”.

### RVS CZĘŚCI WEWNĘTRZNE ZAWORY ZWROTNE

Stal cynkowana. Inne materiały na zamówienie.

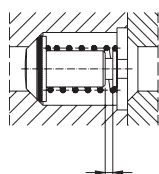
Standard Perbunan -20°C do +90°C.

Opcja Viton -20°C do +120°C.

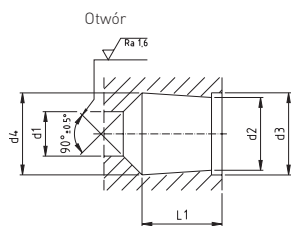
Ciśnienie unoszące zaworu: Standard 1 bar, alternatywne ciśnienie unoszące zaworu na zamówienie.



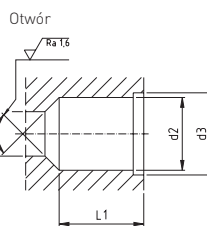
Montaż



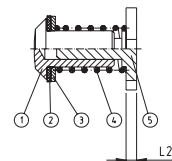
Skok sprężyny



Otwór [tylko RVS 6-L/S / 8-S]  
Otwór [musi dokładnie pasować]



Wewnętrzne elementy zaworu



- (1) Wkręt
- (2) Uszczelka
- (3) Pierścień wspomagający
- (4) Sprężyna
- (5) Prowadnica stożka

| opis            | d <sub>1</sub> | d <sub>2</sub> [+0,1] | d <sub>3</sub> [+0,05] | L <sub>1</sub> [± 0,1] | L <sub>2</sub> | odchylenie | d <sub>4</sub> [+0,2] |
|-----------------|----------------|-----------------------|------------------------|------------------------|----------------|------------|-----------------------|
| X RVS 6-L/S/8-S | 4              | 7,7                   | 8,6                    | 10,3                   | 2,3            | 2,5        | 8,5                   |
| X RVS 8-L/10-S  | 6              | 10,8                  | 11,6                   | 12,7                   | 2,3            | 2,7        | 10,75(d2)             |
| X RVS 10-L/12-S | 8              | 13,4                  | 14,1                   | 16,3                   | 2,3            | 3,3        | 13,35 (d2)            |
| X RVS 12-L/14-S | 10             | 16,9                  | 18,1                   | 18,9                   | 2,8            | 3,8        | 16,9 (d2)             |
| X RVS 15-L/16-S | 12             | 19,5                  | 20,6                   | 21,4                   | 2,8            | 4,7        | 19,5 (d2)             |
| X RVS 18-L/20-S | 15             | 25,2                  | 27,1                   | 25,4                   | 3,4            | 4,7        | 25,2 (d2)             |
| X RVS 22-L/25-S | 19             | 30,8                  | 32,6                   | 29,6                   | 3,4            | 5,5        | 30,8 (d2)             |
| X RVS 28-L/30-S | 24             | 38,7                  | 40,6                   | 34,7                   | 3,8            | 7,0        | 38,7 (d2)             |
| X RVS 35-L/38-S | 29             | 45,7                  | 48,1                   | 40,7                   | 3,8            | 10,0       | 45,7 (d2)             |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne – Wybór właściwego złącza rurowego”.

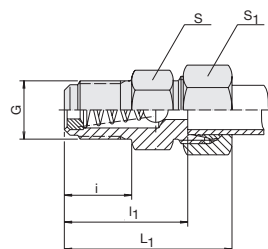
## ZAWORY KULOWE ZAWORY ZWROTNE

### ARVA KULOWE ZAWORY ZWROTNE

Przeptyw do złącza rurowego męskiego.

BSP gwint walc.

Ciśnienie otwierające 3 bar.



| opis          | Śr.zew.<br>rury | PB<br>seria | L <sub>1</sub> | l <sub>1</sub> | i  | S  | S <sub>1</sub> | G        |
|---------------|-----------------|-------------|----------------|----------------|----|----|----------------|----------|
| ARVA 4-RLL    | 4               | LL 100      | 30             | 21,0           | 11 | 11 | 10             | G 1/8" A |
| ARVA 6-RLL    | 6               | LL 100      | 30             | 19,5           | 11 | 11 | 12             | G 1/8" A |
| ARVA 8-RLL    | 8               | LL 100      | 31             | 20,5           | 11 | 12 | 14             | G 1/8" A |
| DS-ARVA 8-RL  | 8               | L 250       | 42             | 27,0           | 14 | 17 | 17             | G 1/4" A |
| DS-ARVA 10-RL | 10              | L 250       | 41             | 26,0           | 14 | 19 | 19             | G 1/4" A |
| DS-ARVA 6-RS  | 6               | S 400       | 44             | 29,0           | 14 | 17 | 17             | G 1/4" A |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

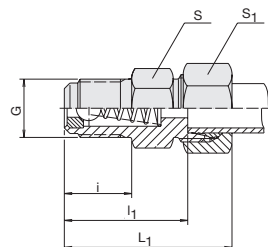
### ARVV KULOWE ZAWORY ZWROTNE

Przeptyw do złącza rurowego męskiego.

BSP gwint walc.

Ciśnienie otwierające 3 bar.

Maksymalna różnica ciśnień 125 bar w kierunku zamykającym.



| opis          | Śr.zew.<br>rury | PB<br>seria | L <sub>1</sub> | l <sub>1</sub> | i  | S  | S <sub>1</sub> | G        |
|---------------|-----------------|-------------|----------------|----------------|----|----|----------------|----------|
| ARVV 4-RLL    | 4               | LL 100      | 30             | 21,0           | 11 | 11 | 10             | G 1/8" A |
| ARVV 6-RLL    | 6               | LL 100      | 30             | 19,5           | 11 | 11 | 12             | G 1/8" A |
| ARVV 8-RLL    | 8               | LL 100      | 31             | 20,5           | 11 | 12 | 14             | G 1/8" A |
| DS-ARVV 8-RL  | 8               | L 250       | 42             | 27,0           | 14 | 17 | 17             | G 1/4" A |
| DS-ARVV 10-RL | 10              | L 250       | 41             | 26,0           | 14 | 19 | 19             | G 1/4" A |
| DS-ARVV 6-RS  | 6               | S 400       | 44             | 29,0           | 14 | 17 | 17             | G 1/4" A |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

# ŚWIAT ZŁĄCZY RUROWYCH

ZINTEGROWANE ROZWIĄZANIA FLUID POWER





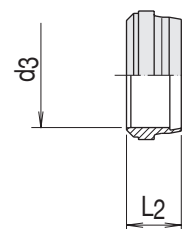
## POJEDYNCZE CZĘŚCI



## POJEDYNCZE CZĘŚCI PIERŚCIEŃ ZACINAJĄCY

ŚWIAT ZŁĄCZY RUROWYCH

### DS PIERŚCIEŃ ZACINAJĄCY

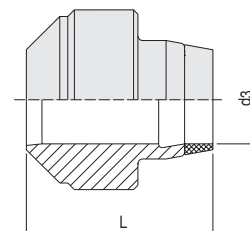


| opis      | Śr.zew. rury | L <sub>2</sub> | d <sub>3</sub> |
|-----------|--------------|----------------|----------------|
| S 4-LL    | 4            | 6,0            | 4              |
| S 6-LL    | 6            | 7,0            | 6              |
| S 8-LL    | 8            | 7,0            | 8              |
| DS 6-L/S  | 6            | 9,5            | 6              |
| DS 8-L/S  | 8            | 9,5            | 8              |
| DS 10-L/S | 10           | 10,0           | 10             |
| DS 12-L/S | 12           | 10,0           | 12             |
| DS 15-L   | 15           | 10,2           | 15             |
| DS 18-L   | 18           | 10,2           | 18             |
| DS 22-L   | 22           | 11,5           | 22             |
| DS 28-L   | 28           | 11,5           | 28             |
| DS 35-L   | 35           | 13,5           | 35             |
| DS 42-L   | 42           | 13,5           | 42             |
| DS 6-L/S  | 6            | 9,5            | 6              |
| DS 8-L/S  | 8            | 9,5            | 8              |
| DS 10-L/S | 10           | 10,0           | 10             |
| DS 12-L/S | 12           | 10,0           | 12             |
| DS 14-S   | 14           | 10,5           | 14             |
| DS 16-S   | 16           | 10,5           | 16             |
| DS 20-S   | 20           | 12,7           | 20             |
| DS 25-S   | 25           | 12,7           | 25             |
| DS 30-S   | 30           | 13,5           | 30             |
| DS 38-S   | 38           | 13,5           | 38             |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## POJEDYNCZE CZĘŚCI PIERŚCIEŃ ZACINAJĄCY

### PIERŚCIEŃ ZACINAJĄCY DSW



| opis       | Śr.zew. rury | Seria PN | d <sub>3</sub> | L    |
|------------|--------------|----------|----------------|------|
| DSW 6-L/S  | 6            | L 500    | 6              | 10,5 |
| DSW 8-L/S  | 8            | L 500    | 8              | 10,5 |
| DSW 10-L/S | 10           | L 500    | 10             | 10,5 |
| DSW 12-L/S | 12           | L 400    | 12             | 10,5 |
| DSW 15-L   | 15           | L 400    | 15             | 10,5 |
| DSW 18-L   | 18           | L 400    | 18             | 11,0 |
| DSW 22-L   | 22           | L 250    | 22             | 11,7 |
| DSW 28-L   | 28           | L 250    | 28             | 11,7 |
| DSW 35-L   | 35           | L 250    | 35             | 14,5 |
| DSW 42-L   | 42           | L 250    | 42             | 14,5 |
| DSW 6-L/S  | 6            | S 800    | 6              | 10,5 |
| DSW 8-L/S  | 8            | S 800    | 8              | 10,5 |
| DSW 10-L/S | 10           | S 800    | 10             | 10,5 |
| DSW 12-L/S | 12           | S 630    | 12             | 10,5 |
| DSW 14-S   | 14           | S 630    | 14             | 11,0 |
| DSW 16-S   | 16           | S 630    | 16             | 11,0 |
| DSW 20-S   | 20           | S 400    | 20             | 14,0 |
| DSW 25-S   | 25           | S 400    | 25             | 14,0 |
| DSW 30-S   | 30           | S 400    | 30             | 15,0 |
| DSW 38-S   | 38           | S 400    | 38             | 15,0 |

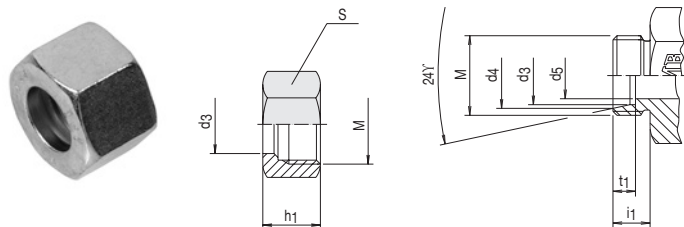
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.



## POJEDYNCZE CZĘŚCI NAKRĘTKA

ŚWIAT ZŁĄCZY RUROWYCH

### NAKRĘTKA



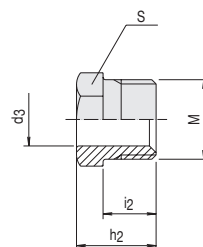
| opis   | Śr. zew. rury | M        | d <sub>3</sub> | d <sub>4</sub> | d <sub>5</sub> | t <sub>1</sub> | i <sub>1</sub> | S  | h <sub>1</sub> |
|--------|---------------|----------|----------------|----------------|----------------|----------------|----------------|----|----------------|
| M 4-LL | 4             | M 8x1    | 4              | 5,0            | 3,0            | 4,0            | 8              | 10 | 11,5           |
| M 6-LL | 6             | M 10x1   | 6              | 7,5            | 4,5            | 5,5            | 8              | 12 | 12,0           |
| M 8-LL | 8             | M 12x1   | 8              | 9,5            | 6,0            | 5,5            | 9              | 14 | 12,5           |
| M 6-L  | 6             | M 12x1,5 | 6              | 8,1            | 4,0            | 7,0            | 10             | 14 | 15,0           |
| M 8-L  | 8             | M 14x1,5 | 8              | 10,1           | 6,0            | 7,0            | 10             | 17 | 15,0           |
| M 10-L | 10            | M 16x1,5 | 10             | 12,3           | 8,0            | 7,0            | 11             | 19 | 16,0           |
| M 12-L | 12            | M 18x1,5 | 12             | 14,3           | 10,0           | 7,0            | 11             | 22 | 16,0           |
| M 15-L | 15            | M 22x1,5 | 15             | 17,3           | 12,0           | 7,0            | 12             | 27 | 17,5           |
| M 18-L | 18            | M 26x1,5 | 18             | 20,3           | 15,0           | 7,5            | 12             | 32 | 18,0           |
| M 22-L | 22            | M 30x2   | 22             | 24,3           | 19,0           | 7,5            | 14             | 36 | 20,5           |
| M 28-L | 28            | M 36x2   | 28             | 30,3           | 24,0           | 7,5            | 14             | 41 | 22,0           |
| M 35-L | 35            | M 45x2   | 35             | 38,0           | 30,0           | 10,5           | 16             | 50 | 25,0           |
| M 42-L | 42            | M 52x2   | 42             | 45,0           | 36,0           | 11,0           | 16             | 60 | 25,0           |
| M 6-S  | 6             | M 14x1,5 | 6              | 8,1            | 4,0            | 7,0            | 12             | 17 | 16,0           |
| M 8-S  | 8             | M 16x1,5 | 8              | 10,1           | 5,0            | 7,0            | 12             | 19 | 16,0           |
| M 10-S | 10            | M 18x1,5 | 10             | 12,3           | 7,0            | 7,5            | 12             | 22 | 17,5           |
| M 12-S | 12            | M 20x1,5 | 12             | 14,3           | 8,0            | 7,5            | 12             | 24 | 18,0           |
| M 14-S | 14            | M 22x1,5 | 14             | 16,3           | 10,0           | 8,0            | 14             | 27 | 20,0           |
| M 16-S | 16            | M 24x1,5 | 16             | 18,3           | 12,0           | 8,5            | 14             | 30 | 21,0           |
| M 20-S | 20            | M 30x2   | 20             | 22,9           | 16,0           | 10,5           | 16             | 36 | 24,0           |
| M 25-S | 25            | M 36x2   | 25             | 27,9           | 20,0           | 12,0           | 18             | 46 | 26,5           |
| M 30-S | 30            | M 42x2   | 30             | 33,0           | 25,0           | 13,5           | 20             | 50 | 29,5           |
| M 38-S | 38            | M 52x2   | 38             | 41,0           | 32,0           | 16,0           | 22             | 60 | 32,5           |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## POJEDYNCZE CZĘŚCI NAKRĘTKA

### WEWNĘTRZNY UES NAKRĘTKA ZŁĄCZNA

Gwint: Walcowy metryczny.

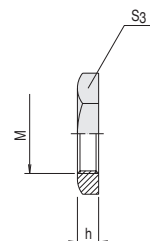


| opis      | Śr. zew. rury | Nr produktu seria | M        | d <sub>3</sub> | h <sub>2</sub> | i <sub>2</sub> | S  | kg / 100pcs |
|-----------|---------------|-------------------|----------|----------------|----------------|----------------|----|-------------|
| UE S 4-LL | 4             | LL 100            | M 8x1    | 4              | 12             | 8,0            | 8  | 0,2         |
| UE S 6-LL | 6             | LL 100            | M 10x1   | 6              | 13             | 9,0            | 10 | 0,4         |
| UE S 8-LL | 8             | LL 100            | M 12x1   | 8              | 14             | 9,5            | 12 | 0,6         |
| UE S 6-L  | 6             | L 500             | M 12x1,5 | 6              | 16             | 11,5           | 12 | 0,9         |
| UE S 8-L  | 8             | L 500             | M 14x1,5 | 8              | 16             | 11,5           | 14 | 1,1         |
| UE S 10-L | 10            | L 500             | M 16x1,5 | 10             | 17             | 11,5           | 17 | 1,5         |
| UE S 12-L | 12            | L 400             | M 18x1,5 | 12             | 18             | 12,0           | 19 | 1,9         |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne – Wybór właściwego złącza rurowego”.

### PRZECIWNAKRĘTKA GM

Do połączeń zbiorczych.



| opis         | M        | S <sub>3</sub> | h  | kg / 100pcs |
|--------------|----------|----------------|----|-------------|
| GM 6-L       | M 12x1,5 | 17             | 6  | 0,7         |
| GM 6-S/ 8-L  | M 14x1,5 | 19             | 6  | 0,8         |
| GM 8-S/10-L  | M 16x1,5 | 22             | 6  | 1,1         |
| GM 10-S/12-L | M 18x1,5 | 24             | 6  | 1,2         |
| GM 12-S      | M 20x1,5 | 27             | 6  | 1,5         |
| GM 14-S/15-L | M 22x1,5 | 30             | 7  | 2,2         |
| GM 16-S      | M 24x1,5 | 32             | 7  | 2,4         |
| GM 18-L      | M 26x1,5 | 36             | 8  | 3,7         |
| GM 20-S/22-L | M 30x2   | 41             | 8  | 4,6         |
| GM 25-S/28-L | M 36x2   | 46             | 9  | 6,0         |
| GM 30-S      | M 42x2   | 50             | 9  | 5,8         |
| GM 35-L      | M 45x2   | 55             | 9  | 7,5         |
| GM 38-S/42-L | M 52x2   | 65             | 10 | 12,3        |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne – Wybór właściwego złącza rurowego”.

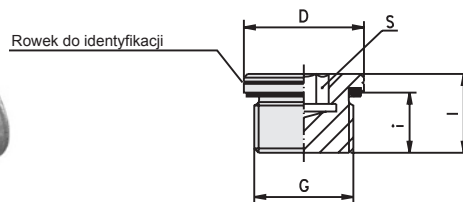
## POJEDYNCZE CZĘŚCI ZATYCZKA

ŚWIAT ZŁĄCZY RUROWYCH

### ZAŚLEPKA

Z wewnętrznym uszczelnieniem sześciokątnym i zintegrowanym NBR (np. Perbunan).

Gwint: Walcowy BSP, walcowy metryczny.



| opis             | Nr produktu | G          | D  | I    | i  | S  | MA*/NM |
|------------------|-------------|------------|----|------|----|----|--------|
| VSCH-M10x1/WD    | 400         | M 10x1     | 14 | 12,0 | 8  | 5  | 10     |
| VSCH-M 12x1,5/WD | 400         | M 12x1,5   | 17 | 17,0 | 12 | 6  | 20     |
| VSCH-M 14x1,5/WD | 400         | M 14x1,5   | 19 | 17,0 | 12 | 6  | 30     |
| VSCH-M 16x1,5/WD | 400         | M 16x1,5   | 22 | 17,0 | 12 | 8  | 40     |
| VSCH-M 18x1,5/WD | 400         | M 18x1,5   | 24 | 17,0 | 12 | 8  | 50     |
| VSCH-M 20x1,5/WD | 400         | M 20x1,5   | 26 | 19,0 | 14 | 10 | 60     |
| VSCH-M 22x1,5/WD | 400         | M 22x1,5   | 27 | 19,0 | 14 | 10 | 80     |
| VSCH-M 26x1,5/WD | 400         | M 26x1,5   | 32 | 21,0 | 16 | 12 | 100    |
| VSCH-M 27x2/WD   | 400         | M 27x2     | 32 | 21,0 | 16 | 12 | 120    |
| VSCH-M 33x2/WD   | 400         | M 33x2     | 40 | 22,5 | 16 | 17 | 200    |
| VSCH-M 42x2/WD   | 315         | M 42x2     | 50 | 22,5 | 16 | 22 | 350    |
| VSCH-M 48x2/WD   | 315         | M 48x2     | 55 | 22,5 | 16 | 24 | 400    |
| VSCH-R 1/8"/WD   | 400         | G 1/8" A   | 14 | 12,0 | 8  | 5  | 10     |
| VSCH-R 1/4"/WD   | 400         | G 1/4" A   | 19 | 17,0 | 12 | 6  | 30     |
| VSCH-R 3/8"/WD   | 400         | G 3/8" A   | 22 | 17,0 | 12 | 8  | 40     |
| VSCH-R 1/2"/WD   | 400         | G 1/2" A   | 27 | 19,0 | 14 | 10 | 80     |
| VSCH-R 3/4"/WD   | 400         | G 3/4" A   | 32 | 21,0 | 16 | 12 | 120    |
| VSCH-R 1"/WD     | 400         | G 1" A     | 40 | 22,5 | 16 | 17 | 200    |
| VSCH-R 1 1/4"/WD | 315         | G 1 1/4" A | 50 | 22,5 | 16 | 22 | 350    |
| VSCH-R 1 1/2"/WD | 315         | G 1 1/2" A | 55 | 22,5 | 16 | 24 | 400    |

\* MA = momenty dokręcenia odnoszą się do odpowiedników stalowych

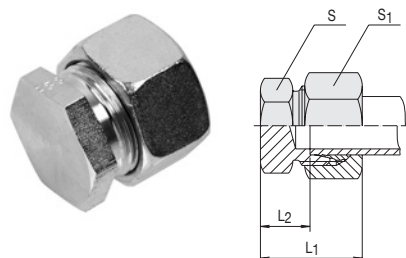
Patrz „Projektowanie i dane techniczne - Wybór właściwego złącza rurowego”, aby uzyskać więcej informacji na temat wewnętrznych gwintów śrub.

- ciśnienia.

## POJEDYNCZE CZĘŚCI ZATYCZKA

### VSCHK ZATYCZKA RURY

Z wewnętrznym stożkiem 24°.



| opis          | Śr.zew.<br>rury | Nr produktu<br>seria | S  | S <sub>1</sub> | L <sub>1</sub> | L <sub>2</sub> |
|---------------|-----------------|----------------------|----|----------------|----------------|----------------|
| DS-VSCHK 6-L  | 6               | L 500 (2200)         | 12 | 14             | 22             | 7,0            |
| DS-VSCHK 8-L  | 8               | L 500 (2200)         | 14 | 17             | 23             | 8,0            |
| DS-VSCHK 10-L | 10              | L 500 (2200)         | 17 | 19             | 24             | 9,0            |
| DS-VSCHK 12-L | 12              | L 400 (1700)         | 19 | 22             | 25             | 10,0           |
| DS-VSCHK 15-L | 15              | L 400 (1700)         | 24 | 27             | 26             | 11,0           |
| DS-VSCHK 18-L | 18              | L 400 (1700)         | 27 | 32             | 28             | 11,5           |
| DS-VSCHK 22-L | 22              | L 250 (1100)         | 32 | 36             | 30             | 13,5           |
| DS-VSCHK 28-L | 28              | L 250 (1100)         | 41 | 41             | 31             | 14,5           |
| DS-VSCHK 35-L | 35              | L 250 (1100)         | 46 | 50             | 36             | 14,5           |
| DS-VSCHK 42-L | 42              | L 250 (1100)         | 55 | 60             | 39             | 16,0           |
| DS-VSCHK 6-S  | 6               | S 800 (3400)         | 14 | 17             | 26             | 11,0           |
| DS-VSCHK 8-S  | 8               | S 800 (3400)         | 17 | 19             | 28             | 13,0           |
| DS-VSCHK 10-S | 10              | S 800 (3400)         | 19 | 22             | 29             | 12,5           |
| DS-VSCHK 12-S | 12              | S 630 (2700)         | 22 | 24             | 31             | 14,5           |
| DS-VSCHK 14-S | 14              | S 630 (2700)         | 24 | 27             | 34             | 16,0           |
| DS-VSCHK 16-S | 16              | S 630 (2700)         | 27 | 30             | 34             | 15,5           |
| DS-VSCHK 20-S | 20              | S 400 (1700)         | 32 | 36             | 39             | 17,5           |
| DS-VSCHK 25-S | 25              | S 400 (1700)         | 41 | 46             | 44             | 20,0           |
| DS-VSCHK 30-S | 30              | S 400 (1700)         | 46 | 50             | 47             | 20,5           |
| DS-VSCHK 38-S | 38              | S 400 (1700)         | 55 | 60             | 54             | 23,0           |

L<sub>1</sub> = przybliżona długość z dokręconą nakrętką

Patrz „Projektowanie i dane techniczne - Wybór właściwego złącza rurowego”, aby uzyskać więcej informacji na temat

- wewnętrznych gwintów śrub.

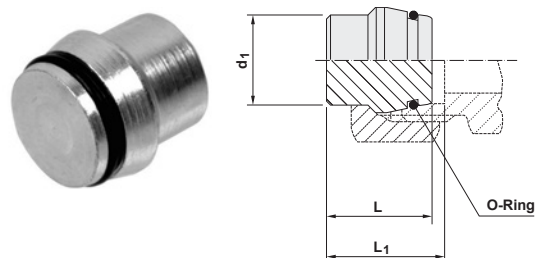
- ciśnienia.

## POJEDYNCZE CZĘŚCI ZATYCZKA

ŚWIAT ZŁĄCZY RUROWYCH

### ZASŁEPKA

Dla stożków z gwintem stożkowym  
i O-ringu wg DIN 3865.



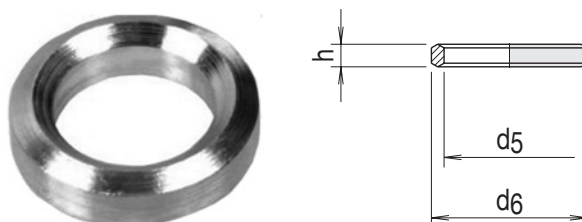
| opis         | Śr.zew.<br>rury | Nr produktu<br>seria | L    | L <sub>1</sub> | O-ring   | kg / 100pcs |
|--------------|-----------------|----------------------|------|----------------|----------|-------------|
| STO 6-L/S/O  | 6               | L 500 (2200)         | 18,5 | 20,0           | 4x1,5    | 0,6         |
| STO 8-L/S/O  | 8               | L 500 (2200)         | 18,5 | 20,0           | 6x1,5    | 0,9         |
| STO 10-L/S/O | 10              | L 500 (2200)         | 20,0 | 21,0           | 7,5x1,5  | 1,4         |
| STO 12-L/S/O | 12              | L 400 (1700)         | 20,5 | 21,5           | 9x1,5    | 1,9         |
| STO 15-L/O   | 15              | L 400 (1700)         | 20,5 | 21,5           | 12x2     | 3,1         |
| STO 18-L/O   | 18              | L 400 (1700)         | 22,5 | 24,0           | 15x2     | 6,2         |
| STO 22-L/O   | 22              | L 250 (1100)         | 25,0 | 26,5           | 20x2     | 9,9         |
| STO 28-L/O   | 28              | L 250 (1100)         | 25,5 | 27,0           | 26x2     | 15,1        |
| STO 35-L/O   | 35              | L 250 (1100)         | 30,0 | 33,0           | 32x2,5   | 25,2        |
| STO 42-L/O   | 42              | L 250 (1100)         | 30,0 | 33,5           | 38x2,5   | 35,9        |
| STO 6-L/S/O  | 6               | S 800 (3400)         | 18,5 | 20,0           | 4x1,5    | 0,6         |
| STO 8-L/S/O  | 8               | S 800 (3400)         | 18,5 | 20,0           | 6x1,5    | 0,9         |
| STO 10-L/S/O | 10              | S 800 (3400)         | 20,0 | 21,5           | 7,5x1,5  | 1,4         |
| STO 12-L/S/O | 12              | S 630 (2700)         | 20,5 | 22,0           | 9x1,5    | 1,9         |
| STO 14-S/O   | 14              | S 630 (2700)         | 22,5 | 24,5           | 10x2     | 2,6         |
| STO 16-S/O   | 16              | S 630 (2700)         | 23,5 | 26,0           | 12x2     | 4,6         |
| STO 20-S/O   | 20              | S 400 (1700)         | 28,5 | 31,5           | 16,3x2,4 | 7,7         |
| STO 25-S/O   | 25              | S 400 (1700)         | 29,0 | 32,5           | 20,3x2,4 | 11,9        |
| STO 30-S/O   | 30              | S 400 (1700)         | 30,5 | 35,5           | 25,3x2,4 | 17,9        |
| STO 38-S/O   | 38              | S 400 (1700)         | 33,0 | 40,5           | 33,4x2,4 | 30,8        |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## POJEDYNCZE CZĘŚCI PIERŚCIEŃ USZCZELNIAJĄCY

### DKA/DKAD PIERŚCIEŃ USZCZELNIAJĄCY KRAWĘDZIOWY

Dla złączy banjo i taczników śrubowych z krętlikami SBE, SGE, SB i SBD.



| opis                   | używać SBE../<br>SGE.. | h   | kg / 100pcs | G          | d <sub>5</sub> | d <sub>6</sub> |
|------------------------|------------------------|-----|-------------|------------|----------------|----------------|
| DKA R 1/8"/SA 2,5      | 6-RL                   | 2,5 | 0,1         | G 1/8" A   | 10,0           | 14             |
| DKA R 1/4"/SA 3        | 8-RL; 6-RS             | 3,0 | 0,2         | G 1/4" A   | 13,2           | 18             |
| DKA R 3/8"/SA 3        | 12-RL; 10-RS           | 3,0 | 0,3         | G 3/8" A   | 16,7           | 22             |
| DKA R 1/2"/SA 4,5      | 15-RL; 14-RS           | 4,5 | 0,6         | G 1/2" A   | 21,0           | 26             |
| DKAD R 3/4"            | 22-RL; 20-RS           | 3,5 | 0,6         | G 3/4" A   | 26,4           | 32             |
| DKA R 1"/M33/SA3,5     | 28-RL; 25-RS           | 3,5 | 0,9         | G 1" A     | 33,3           | 39             |
| DKA R 1 1/4"/M42/SA3,5 | 35-RL; 30-RS           | 3,5 | 1,2         | G 1 1/4" A | 42,0           | 49             |
| DKA R 1 1/2"/M48/SA3,5 | 42-RL; 38-RS           | 3,5 | 1,4         | G 1 1/2" A | 48,0           | 55             |
| DKA M10/SA2,5          | 6-ML                   | 2,5 | 0,1         | M 10x1     | 10,0           | 14             |
| DKA M12/SA3            | 8-ML; 6-MS             | 3,0 | 0,2         | M 12x1,5   | 12,0           | 17             |
| DKA M14/SA3            | 10-ML; 8-MS            | 3,0 | 0,3         | M 14x1,5   | 14,0           | 19             |
| DKA M16/SA3            | 12-ML; 10-MS           | 3,0 | 0,3         | M 16x1,5   | 16,0           | 21             |
| DKA M18/SA3            | 15-ML; 12-MS           | 3,0 | 0,3         | M 18x1,5   | 18,0           | 23             |
| DKA M20/SA3            | 14-MS                  | 3,0 | 0,4         | M 20x1,5   | 20,0           | 25             |
| DKA M22                | 18-ML; 16-MS           | 4,5 | 0,6         | M 22x1,5   | 22,0           | 27             |
| DKAD M26               | 22-ML                  | 3,5 | 0,5         | M 26x1,5   | 26,0           | 31             |
| DKAD M27               | 20-MS                  | 3,5 | 0,6         | M 27x2     | 27,0           | 32             |
| DKA R 1"/M33/SA3,5     | 28-ML; 25-MS           | 3,5 | 0,8         | M 33x2     | 33,3           | 39             |
| DKA R 1 1/4"/M42/SA3,5 | 35-ML; 30-MS           | 3,5 | 1,2         | M 42x2     | 42,0           | 49             |
| DKA R 1 1/2"/M48/SA3,5 | 42-ML; 38-MS           | 3,5 | 1,4         | M 48x2     | 48,0           | 55             |

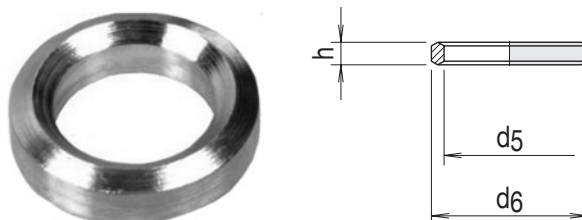
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## POJEDYNCZE CZĘŚCI PIERŚCIEŃ USZCZELNIAJĄCY

ŚWIAT ZŁĄCZY RUROWYCH

### DKA/DKAD PIERŚCIEŃ USZCZELNIAJĄCY KRAWĘDZIOWY

Dla złączy banjo i łączników śrubowych z krętlikami SBE, SGE, SB i SBD.



| opis             | używać SB../ | h   | kg / 100pcs | G          | d <sub>5</sub> | d <sub>6</sub> |
|------------------|--------------|-----|-------------|------------|----------------|----------------|
| DKA R 1/8"/M10   | 6-RL         | 3,7 | 0,2         | G 1/8" A   | 10,0           | 14             |
| DKA R 1/4"       | 8-RL; 6-RS   | 4,5 | 0,3         | G 1/4" A   | 13,2           | 18             |
| DKA R 3/8"       | 12-RL; 10-RS | 4,5 | 0,4         | G 3/8" A   | 16,7           | 22             |
| DKA R 1/2"       | 15-RL; 14-RS | 5,5 | 0,7         | G 1/2" A   | 21,0           | 26             |
| DKA R 3/4"       | 22-RL; 20-RS | 5,0 | 0,7         | G 3/4" A   | 26,4           | 32             |
| DKA R 1"/M33     | 28-RL; 25-RS | 6,0 | 1,1         | G 1" A     | 33,3           | 39             |
| DKA R 1 1/4"/M42 | 35-RL; 30-RS | 6,5 | 1,3         | G 1 1/4" A | 42,0           | 49             |
| DKA R 1 1/2"/M48 | 42-RL; 38-RS | 6,5 | 1,5         | G 1 1/2" A | 48,0           | 55             |
| DKA R 1/8"/M10   | 6-ML         | 3,7 | 0,2         | M 10x1     | 10,0           | 14             |
| DKA M12          | 8-ML; 6-MS   | 4,5 | 0,3         | M 12x1,5   | 12,0           | 17             |
| DKA M14          | 10-ML; 8-MS  | 4,5 | 0,4         | M 14x1,5   | 14,0           | 19             |
| DKA M16          | 12-ML; 10-MS | 4,5 | 0,4         | M 16x1,5   | 16,0           | 21             |
| DKA M18          | 15-ML; 12-MS | 4,5 | 0,4         | M 18x1,5   | 18,0           | 23             |
| DKA M20          | 14-MS        | 4,5 | 0,5         | M 20x1,5   | 20,0           | 25             |
| DKA M22          | 18-ML; 16-MS | 4,5 | 0,6         | M 22x1,5   | 22,0           | 27             |
| DKA M26          | 22-ML        | 4,5 | 0,6         | M 26x1,5   | 26,0           | 31             |
| DKA M27          | 20-MS        | 5,5 | 0,7         | M 27x2     | 27,0           | 32             |
| DKA R 1"/M33     | 28-ML; 25-MS | 6,0 | 1,0         | M 33x2     | 33,3           | 39             |
| DKA R 1 1/4"/M42 | 35-ML; 30-MS | 6,5 | 1,3         | M 42x2     | 42,0           | 49             |
| DKA R 1 1/2"/M48 | 42-ML; 38-MS | 6,5 | 1,5         | M 48x2     | 48,0           | 55             |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

| opis        | używać SB../ | h   | kg / 100pcs | G          | d <sub>5</sub> | d <sub>6</sub> |
|-------------|--------------|-----|-------------|------------|----------------|----------------|
| DKAD R 1/2" | 18-RL        | 3,5 | 0,5         | G 1/2" A   | 21,0           | 26             |
| DKAD R 3/4" | 22-RL        | 3,5 | 0,6         | G 3/4" A   | 26,5           | 32             |
| DKAD R 1/2" | 16-RS        | 3,5 | 0,5         | G 1/2" A   | 21,0           | 26             |
| DKAD R 3/4" | 20-RS        | 3,5 | 0,6         | G 3/4" A   | 26,5           | 32             |
| DKAD M 22   | 18-ML        | 3,5 | 0,5         | M 22 x 1,5 | 22,0           | 27             |
| DKAD M 26   | 22-ML        | 3,5 | 0,6         | M 26 x 1,5 | 26,0           | 31             |
| DKAD M 22   | 16-MS        | 3,5 | 0,5         | M 22 x 1,5 | 22,0           | 27             |
| DKAD M 27   | 20-MS        | 3,5 | 0,6         | M 27 x 2   | 27,0           | 32             |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## POJEDYNCZE CZĘŚCI PIERŚCIEŃ USZCZELNIAJĄCY

### DKI PIERŚCIEŃ USZCZELNIAJĄCY KRAWĘDZIOWY

Pierścienie uszczelniające do manometrycznych łączników śrubowych.

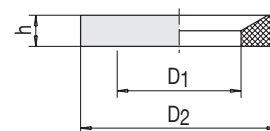
| opis       | do gwintu<br>wewnętrznego | d <sub>5</sub> | d <sub>6</sub> | h   |
|------------|---------------------------|----------------|----------------|-----|
| DKI R 1/4" | G 1/4"                    | 6              | 11,3           | 4,5 |
| DKI R 1/2" | G 1/2"                    | 12             | 18,5           | 5,0 |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

### WD USZCZELNIENIE ZINTEGROWANE

Do gwintów zewn. DIN 3852-11.

Materiały WD: NBR (np. Perbunan),  
i FPM (np. Viton).



| opis                          | gwint zewnętrzny                 | mm DIN 3869 | D <sub>1</sub> | D <sub>2</sub> | h   |
|-------------------------------|----------------------------------|-------------|----------------|----------------|-----|
| WD M 8 x 1 / ...              | M 8 x 1                          | 8           | 6,5            | 9,9            | 1,0 |
| WD R 1/8" / M 10 x 1 / ...    | M 10 x 1 / G 1/8" A              | 10          | 8,4            | 11,9           | 1,0 |
| WD M 12 x 1,5 / ...           | M 12 x 1,5                       | 12          | 9,8            | 14,4           | 1,5 |
| WD R 1/4" / M 14 x 1,5 / ...  | M 14 x 1,5 / G 1/4" A            | 14          | 11,6           | 16,5           | 1,5 |
| WD M 16 x 1,5 / ...           | M 16 x 1,5                       | 16          | 13,8           | 18,9           | 1,5 |
| WD R 3/8" / ...               | G 3/8" A                         | 17          | 14,7           | 18,9           | 1,5 |
| WD M 18 x 1,5 / ...           | M 18 x 1,5                       | 18          | 15,7           | 20,9           | 1,5 |
| WD M 20 x 1,5 / ...           | M 20 x 1,5                       | 20          | 17,8           | 22,9           | 1,5 |
| WD R 1/2" / ...               | G 1/2" A                         | 21          | 18,5           | 23,9           | 1,5 |
| WD M 22 x 1,5 / ...           | M 22 x 1,5                       | 22          | 19,6           | 24,3           | 1,5 |
| WD R 3/4" / M 26 / M 27 / ... | M 26 x 1,5 / M 27 x 2 / G 3/4" A | 27          | 23,9           | 29,2           | 1,5 |
| WD R 1" / M 33 x 2 / ...      | M 33 x 2 / G 1" A                | 33          | 29,7           | 35,7           | 2,0 |
| WD R 1 1/4" / M 42 x 2 / ...  | M 42 x 2 / G 1 1/4" A            | 42          | 38,8           | 45,8           | 2,0 |
| WD R 1 1/2" / M 48 x 2 / ...  | M 48 x 2 / G 1 1/2" A            | 48          | 44,7           | 50,7           | 2,0 |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.



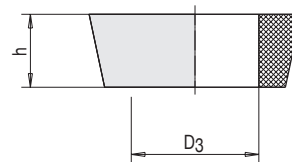
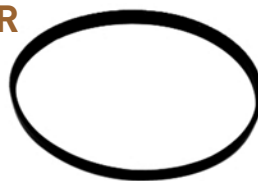
## POJEDYNCZE CZĘŚCI PIERŚCIEŃ USZCZELNIAJĄCY

ŚWIAT ZŁĄCZY RUROWYCH

### PIERŚCIEŃ USZCZELNIAJĄCY TR

Dla pierścieni DSW.

Materiały WD: NBR (np. Perbunan),  
i FPM (np. Viton).



| opis      | h   | D <sub>3</sub> |
|-----------|-----|----------------|
| TR 6-L/S  | 1,5 | 5,7            |
| TR 8-L/S  | 1,5 | 7,7            |
| TR 10-L/S | 1,5 | 9,7            |
| TR 12-L/S | 1,5 | 11,7           |
| TR 15-L   | 1,5 | 14,7           |
| TR 18-L   | 1,5 | 17,7           |
| TR 22-L   | 1,2 | 21,7           |
| TR 28-L   | 1,2 | 27,7           |
| TR 35-L   | 2,0 | 34,6           |
| TR 42-L   | 2,0 | 41,6           |
| TR 6-L/S  | 1,5 | 5,7            |
| TR 8-L/S  | 1,5 | 7,7            |
| TR 10-L/S | 1,5 | 9,7            |
| TR 12-L/S | 1,5 | 11,7           |
| TR 14-S   | 1,5 | 13,7           |
| TR 16-S   | 1,5 | 15,7           |
| TR 20-S   | 2,0 | 19,7           |
| TR 25-S   | 2,0 | 24,7           |
| TR 30-S   | 2,0 | 29,6           |
| TR 38-S   | 2,0 | 37,6           |

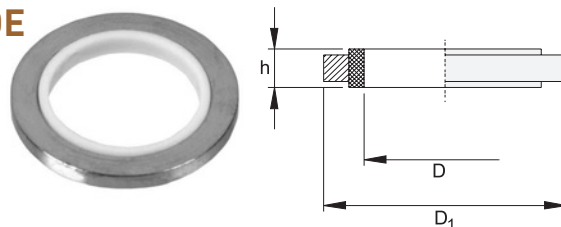
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## POJEDYNCZE CZĘŚCI PIERŚCIEŃ USZCZELNIAJĄCY

### PIERŚCIEŃ PRZYTRZYMUJĄCY KDE

Do złączy banjo SBE.

Pasuje do otworu współpracującego wg DIN 3852.



| opis                   | używać SBE...              | D <sub>1</sub> | D    | h   |
|------------------------|----------------------------|----------------|------|-----|
| KDE R 1/8" / M10       | 6-RL                       | 17             | 10,2 | 2,5 |
| KDE R 1/4"             | 6-RS; 8-RL/-RS; 10-RL      | 22             | 13,3 | 3,0 |
| KDE R 3/8"             | 10-RS; 12-RL/-RS           | 27             | 16,8 | 3,0 |
| KDE R 1/2"             | 14-RS; 15-RL; 16-RS; 18-RL | 32             | 21,1 | 4,5 |
| KDE R 3/4" / M26 / M27 | 20-RS/-MS; 22-RL           | 41             | 27,3 | 3,5 |
| KDE R 1" / M33         | 25-RS/-MS; 28-RL/-ML       | 46             | 33,4 | 3,5 |
| KDE R 1,1/4" / M42     | 30-RS/-MS; 35-RL/-ML       | 57             | 42,4 | 3,5 |
| KDE R 1,1/2" / M48     | 38-RS/-RL; 42-RL/-ML       | 64             | 48,4 | 3,5 |
| KDE M12                | 6-MS; 8-ML                 | 22             | 12,2 | 3,0 |
| KDE M14                | 8-MS; 10-ML                | 23             | 14,3 | 3,0 |
| KDE M16                | 10-MS; 12-ML               | 27             | 16,3 | 3,0 |
| KDE M18                | 12-MS; 15-ML               | 29             | 18,3 | 3,0 |
| KDE M20                | 14-MS                      | 32             | 20,3 | 3,0 |
| KDE M22                | 16-MS; 18-ML               | 32             | 22,3 | 4,5 |

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

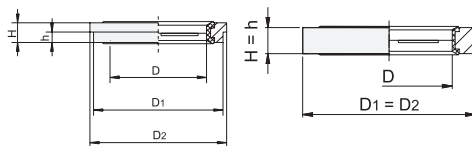
## POJEDYNCZE CZĘŚCI PIERŚCIEŃ USZCZELNIAJĄCY

ŚWIAT ZŁĄCZY RUROWYCH

### PIERŚCIEŃ PRZYTRZYMUJĄCY EDE

Z uszczelnieniem zintegrowanym (NBR) do złączy banjo SBE/SGE.

Pasuje do „wąskiego” otworu współpracującego wg DIN 3852.



| opis                | używać SBE../SGE.. | Wersja | gwint żeń.            | D    | D <sub>1</sub> | D <sub>2</sub> | H   | h   | kg / 100pcs |
|---------------------|--------------------|--------|-----------------------|------|----------------|----------------|-----|-----|-------------|
| EDE R 1/8" - M 10   | 6-ML/RL            | 1      | M 10 x 1 / G 1/8" A   | 10,1 | 14,9           | 16,0           | 2,5 | 1,1 | 0,2         |
| EDE M 12            | 6-MS/8-ML          | 1      | M 12 x 1,5            | 12,1 | 16,9           | 18,0           | 3,0 | 1,6 | 0,5         |
| EDE R 1/4" - M 14   | 6-RS               | 1      | M 14 x 1,5 / G 1/4" A | 14,1 | 18,9           | 20,0           | 3,0 | 1,6 | 0,4         |
| EDE R 1/4" - M 14   | 8-RL/MS/RS         | 1      | M 14 x 1,5 / G 1/4" A | 14,1 | 18,9           | 20,0           | 3,0 | 1,6 | 0,4         |
| EDE R 1/4" - M 14   | 10-ML/RL           | 1      | M 14 x 1,5 / G 1/4" A | 14,1 | 18,9           | 20,0           | 3,0 | 1,6 | 0,4         |
| EDE R 3/8" - M 16   | 10-MS/RS           | 1      | M 16 x 1,5 / G 3/8" A | 16,7 | 21,9           | 24,0           | 3,0 | 2,1 | 0,6         |
| EDE R 3/8" - M 16   | 12-ML/RL/RS        | 1      | M 16 x 1,5 / G 3/8" A | 16,7 | 21,9           | 24,0           | 3,0 | 2,1 | 0,6         |
| EDE M 18            | 12-MS/15-ML        | 2      | M 18 x 1,5            | 18,1 | 23,9           | 23,9           | 3,0 | –   | 0,7         |
| EDE R 1/2" - M 22   | 14-RS/15-RL        | 1      | M 22 x 1,5 / G 1/2" A | 22,1 | 26,9           | 30,0           | 4,5 | 2,6 | 1,2         |
| EDE R 1/2" - M 22   | 16-MS/RS           | 1      | M 22 x 1,5 / G 1/2" A | 22,1 | 26,9           | 30,0           | 4,5 | 2,6 | 1,2         |
| EDE R 1/2" - M 22   | 18-ML/RL           | 1      | M 22 x 1,5 / G 1/2" A | 22,1 | 26,9           | 30,0           | 4,5 | 2,6 | 1,2         |
| EDE M 26            | 22-ML              | 1      | M 26 x 1,5            | 26,1 | 31,9           | 35,0           | 3,5 | 2,6 | 1,8         |
| EDE R 3/4" - M 27   | 20-MS/RS           | 1      | M 27 x 2 / G 3/4" A   | 27,1 | 32,9           | 38,0           | 3,5 | 2,6 | 1,7         |
| EDE R 3/4" - M 27   | 22-RL              | 1      | M 27 x 2 / G 3/4" A   | 27,1 | 32,9           | 38,0           | 3,5 | 2,6 | 1,7         |
| EDE R 1" - M 33     | 25-MS/RS           | 1      | M 33 x 2 / G 1" A     | 33,3 | 39,9           | 42,0           | 3,5 | 2,6 | 1,7         |
| EDE R 1" - M 33     | 28-ML/RL           | 1      | M 33 x 2 / G 1" A     | 33,3 | 39,9           | 42,0           | 3,5 | 2,6 | 1,7         |
| EDE R 1 1/4" - M 42 | 30-MS/RS           | 2      | M 42 x 2 / G 1 1/4" A | 42,2 | 49,9           | 49,9           | 3,5 | –   | 2,6         |
| EDE R 1 1/4" - M 42 | 35-ML/RL           | 2      | M 42 x 2 / G 1 1/4" A | 42,2 | 49,9           | 49,9           | 3,5 | –   | 2,6         |
| EDE R 1 1/2" - M 48 | 38-MS/RS           | 1      | M 48 x 2 / G 1 1/2" A | 48,2 | 55,9           | 60,0           | 3,5 | 2,6 | 3,2         |
| EDE R 1 1/2" - M 48 | 42-ML/RL           | 1      | M 48 x 2 / G 1 1/2" A | 48,2 | 55,9           | 60,0           | 3,5 | 2,6 | 3,2         |

Wersja 1: z nawiertakiem

Wersja 2: bez nawiertaka  $D_1=D_2$

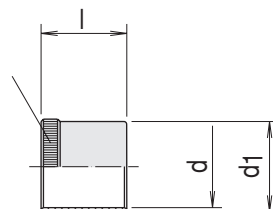
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.

## POJEDYNCZE CZĘŚCI KOŁNIERZ PRZYTRZYMUJĄCY VSH

### KOŁNIERZ PRZYTRZYMUJĄCY VSH

Do bezpiecznego montażu złączy na plastiku,  
metal nieżelazny i rury cienkościenne.

Dostępne także w wersji ze stali nierdzewnej [1,4571].



| opis             | Śr. zew. rury x grubość ściany | Rura wewn. Ø | l    | d    | d <sub>1</sub> |
|------------------|--------------------------------|--------------|------|------|----------------|
| VSH 6x1          | 6x1                            | 4,0          | 15,5 | 2,6  | 3,8            |
| VSH 6x0,75       | 6x0,75                         | 4,5          | 15,5 | 3,1  | 4,3            |
| VSH 6x0,5        | 6x0,5                          | 5,0          | 15,5 | 3,6  | 4,8            |
| VSH 8x1          | 8x1                            | 6,0          | 15,5 | 4,6  | 5,8            |
| VSH 8x0,5/10x1,5 | 8x0,5/10x1,5                   | 7,0          | 17,0 | 5,6  | 6,8            |
| VSH 10x1         | 10x1                           | 8,0          | 16,5 | 6,6  | 7,8            |
| VSH 12x1,5       | 12x1,5                         | 9,0          | 16,5 | 7,6  | 8,8            |
| VSH 12x1         | 12x1                           | 10,0         | 16,5 | 8,6  | 9,8            |
| VSH 14x1/15x1,5  | 14x1/15x1,5                    | 12,0         | 17,5 | 10,6 | 11,8           |
| VSH 15x1/16x1,5  | 15x1/16x1,5                    | 13,0         | 18,5 | 11,6 | 12,8           |
| VSH 16x1/18x2    | 16x1/18x2                      | 14,0         | 18,5 | 12,2 | 13,8           |
| VSH 18x1,5       | 18x1,5                         | 15,0         | 17,5 | 13,2 | 14,8           |
| VSH 18x1/20x2    | 18x1/20x2                      | 16,0         | 22,0 | 14,2 | 15,8           |
| VSH 20x1,5       | 20x1,5                         | 17,0         | 22,0 | 15,2 | 16,8           |
| VSH 20x1/22x2    | 20x1/22x2                      | 18,0         | 22,0 | 16,2 | 17,8           |
| VSH 22x1,5       | 22x1,5                         | 19,0         | 18,0 | 17,2 | 18,8           |
| VSH 22x1/25x2,5  | 22x1/25x2,5                    | 20,0         | 23,5 | 18,2 | 19,8           |
| VSH 25x2         | 25x2                           | 21,0         | 23,5 | 19,2 | 20,8           |
| VSH 25x1,5       | 25x1,5                         | 22,0         | 23,5 | 20,2 | 21,8           |
| VSH 28x2         | 28x2                           | 24,0         | 18,0 | 22,2 | 23,8           |
| VSH 28x1,5       | 28x1,5                         | 25,0         | 18,0 | 23,2 | 24,8           |
| VSH 28x1/30x2    | 28x1/30x2                      | 26,0         | 25,5 | 24,2 | 25,8           |
| VSH 35x2,5       | 35x2,5                         | 30,0         | 22,5 | 27,8 | 29,8           |
| VSH 35x2         | 35x2                           | 31,0         | 22,5 | 28,8 | 30,8           |
| VSH 35x1,5       | 35x1,5                         | 32,0         | 22,5 | 29,8 | 31,8           |
| VSH 38x2,5       | 38x2,5                         | 33,0         | 22,5 | 30,8 | 32,8           |
| VSH 42x2         | 42x2                           | 38,0         | 23,5 | 35,8 | 37,8           |

Patrz „Projektowanie i dane techniczne - Wybór właściwego złącza rurowego”, aby  
- tabelę zastosowania kołnierzy wzmacniających.  
- uzyskać więcej informacji na temat ciśnienia.

# ŚWIAT ZŁĄCZY RUROWYCH

ZINTEGROWANE ROZWIĄZANIA FLUID POWER



# ŁĄCZNIKI GWINTOWANE DÓ WSPAWANIA





## ŁĄCZNIKI GWINTOWANE DO WSPAWANIA ZŁĄCZKI DO WSPAWANIA

ŚWIAT ZŁĄCZY RUROWYCH

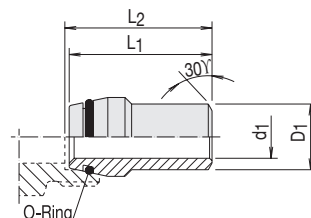
### ZŁĄCZKA DO WSPAWANIA SNO Z USZCZELNIENIEM TYPU O-RING

O-ring NBR (np. Perbunan) dostarczany oddzielnie, do montażu po spawaniu.

O-ring FPM (np. Viton) dostarczany na zamówienie.

Specjalne wymiary i materiały na zamówienie.

Końcówka do zespawania bez środka rury.



| opis        | rozmiar rury | PN-V* | PB** | d <sub>1</sub> | L <sub>1</sub> | L <sub>2</sub> | O-ring | kg / 100pcs |
|-------------|--------------|-------|------|----------------|----------------|----------------|--------|-------------|
| SNO 15x1,5  | 15x1,5       | 400   | 160  | 12,0           | 33,5           | 33,5           | 12x2   | 2,3         |
| SNO 15x2    | 15x2         | 400   | 160  | 11,0           | 33,5           | 33,5           | 12x2   | 2,7         |
| SNO 18x2    | 18x2         | 400   | 100  | 14,0           | 35,0           | 33,5           | 15x2   | 3,2         |
| SNO 18x2,75 | 18x2,75      | 400   | 160  | 12,5           | 35,0           | 33,5           | 15x2   | 4,4         |
| SNO 22x2    | 22x2         | 250   | 100  | 18,0           | 37,5           | 33,5           | 20x2   | 4,0         |
| SNO 22x2,5  | 22x2,5       | 250   | 100  | 17,0           | 37,5           | 33,5           | 20x2   | 5,0         |
| SNO 22x3    | 22x3         | 250   | 160  | 16,0           | 37,5           | 40,5           | 20x2   | 5,6         |
| SNO 28x2,5  | 28x2,5       | 250   | 100  | 23,0           | 40,5           | 40,5           | 26x2   | 7,4         |
| SNO 28x3    | 28x3         | 250   | 100  | 22,0           | 40,5           | 40,5           | 26x2   | 8,2         |
| SNO 35x3    | 35x3         | 250   | 100  | 29,0           | 46,0           | 40,5           | 32x2   | 12,0        |
| SNO 42x3    | 42x3         | 250   | 100  | 36,0           | 46,0           | 47,0           | 38x2   | 14,7        |
| SNO 42x4    | 42x4         | 250   | 100  | 34,0           | 46,0           | 47,0           | 38x2   | 18,6        |

\* Ciśnienie znamionowe (PN) dla złącza równoważnego. Seria L \*\* Maksymalne ciśnienie operacyjne (PB) dla SNO i rury  
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne – Wybór właściwego złącza rurowego”.

| opis       | rozmiar rury | PN-V* | PB** | d <sub>1</sub> | L <sub>1</sub> | L <sub>2</sub> | O-ring   | kg / 100pcs |
|------------|--------------|-------|------|----------------|----------------|----------------|----------|-------------|
| SNO 10x1   | 10x1         | 800   | 249  | 8              | 31,5           | 33,5           | 7,5x1,5  | 1,0         |
| SNO 10x1,5 | 10x1,5       | 800   | 358  | 7              | 31,5           | 33,5           | 7,5x1,5  | 1,3         |
| SNO 10x2   | 10x2         | 800   | 460  | 6              | 31,5           | 33,5           | 7,5x1,5  | 1,5         |
| SNO 12x1,5 | 12x1,5       | 630   | 305  | 9              | 31,5           | 33,5           | 9x1,5    | 1,5         |
| SNO 12x2   | 12x2         | 630   | 391  | 8              | 31,5           | 33,5           | 9x1,5    | 1,9         |
| SNO 12x2,5 | 12x2,5       | 630   | 474  | 7              | 31,5           | 33,5           | 9x1,5    | 2,2         |
| SNO 16x1,5 | 16x1,5       | 630   | 234  | 13             | 37,5           | 40,5           | 12x2     | 2,7         |
| SNO 16x2   | 16x2         | 630   | 303  | 12             | 37,5           | 40,5           | 12x2     | 3,1         |
| SNO 16x2,5 | 16x2,5       | 630   | 370  | 11             | 37,5           | 40,5           | 12x2     | 3,6         |
| SNO 16x3   | 16x3         | 630   | 433  | 10             | 37,5           | 40,5           | 12x2     | 4,1         |
| SNO 20x2   | 20x2         | 400   | 249  | 16             | 43,5           | 47,0           | 16,3x2,4 | 5,4         |
| SNO 20x2,5 | 20x2,5       | 400   | 305  | 15             | 43,5           | 47,0           | 16,3x2,4 | 5,7         |
| SNO 20x3   | 20x3         | 400   | 357  | 14             | 43,5           | 47,0           | 16,3x2,4 | 6,2         |
| SNO 20x4   | 20x4         | 400   | 458  | 12             | 43,5           | 47,0           | 16,3x2,4 | 7,8         |
| SNO 25x3   | 25x3         | 400   | 292  | 19             | 49,5           | 53,5           | 20,3x2,4 | 8,9         |
| SNO 25x4   | 25x4         | 400   | 378  | 17             | 49,5           | 53,5           | 20,3x2,4 | 11,1        |
| SNO 25x5   | 25x5         | 400   | 458  | 15             | 49,5           | 53,5           | 20,3x2,4 | 12,5        |
| SNO 30x3   | 30x3         | 400   | 249  | 24             | 52,0           | 57,5           | 25,3x2,4 | 13,5        |
| SNO 30x4   | 30x4         | 400   | 321  | 22             | 52,0           | 57,5           | 25,3x2,4 | 14,0        |
| SNO 30x5   | 30x5         | 400   | 391  | 20             | 52,0           | 57,5           | 25,3x2,4 | 16,6        |
| SNO 30x6   | 30x6         | 400   | 460  | 18             | 52,0           | 57,5           | 25,3x2,4 | 17,1        |
| SNO 38x4   | 38x4         | 400   | 260  | 30             | 56,5           | 64,5           | 33,3x2,4 | 19,5        |
| SNO 38x5   | 38x5         | 400   | 318  | 28             | 56,5           | 64,5           | 33,3x2,4 | 23,6        |
| SNO 38x6   | 38x6         | 400   | 373  | 26             | 56,5           | 64,5           | 33,3x2,4 | 27,0        |
| SNO 38x7   | 38x7         | 400   | 428  | 24             | 56,5           | 64,5           | 33,3x2,4 | 28,6        |

\* Ciśnienie znamionowe (PN) dla złącza równoważnego. Seria L \*\* Maksymalne ciśnienie operacyjne (PB) dla SNO i rury  
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne – Wybór właściwego złącza rurowego”.

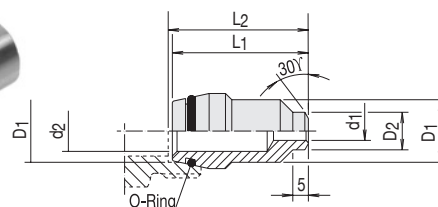
## ŁĄCZNIKI GWINTOWANE DO WSPAWANIA ZŁĄCZKI DO WSPAWANIA

### REDUKCYJNA ZŁĄCZKA DO WSPAWANIA SNR

O-ring NBR (np. Perbunan) dostarczany oddzielnie, do zamontowania po spawaniu.

O-ring FPM (np. Viton) dostarczany na zamówienie.

Specjalne wymiary i materiały na zamówienie.



| opis          | D1 | D2 | PN-V* | PB** | d <sub>1</sub> | d <sub>2</sub> | L <sub>1</sub> | L <sub>2</sub> | O-ring   | kg / 100pcs |
|---------------|----|----|-------|------|----------------|----------------|----------------|----------------|----------|-------------|
| SNR 10/6x2    | 10 | 6  | 800   | 638  | 2              | 4              | 31,5           | 33,5           | 7,5x1,5  | 1,5         |
| SNR 10/8x2,5  | 10 | 8  | 800   | 630  | 3              | 4              | 31,5           | 33,5           | 7,5x1,5  | 1,7         |
| SNR 12/8x2,5  | 12 | 8  | 630   | 624  | 3              | 5              | 31,5           | 33,5           | 9 x1,5   | 2,0         |
| SNR 12/10x3   | 12 | 10 | 630   | 624  | 4              | 5              | 31,5           | 33,5           | 9 x1,5   | 1,8         |
| SNR 16/12x3,5 | 16 | 12 | 630   | 433  | 5              | 10             | 37,5           | 40,5           | 12 x2    | 4,3         |
| SNR 20/12x3,5 | 20 | 12 | 400   | 458  | 5              | 12             | 43,5           | 47,0           | 16,3x2,4 | 8,0         |
| SNR 20/16x3   | 20 | 16 | 400   | 433  | 10             | 12             | 43,5           | 47,0           | 16,3x2,4 | 7,8         |
| SNR 25/16x3   | 25 | 16 | 400   | 433  | 10             | 15             | 49,5           | 53,5           | 20,3x2,4 | 12,3        |
| SNR 25/20x4   | 25 | 20 | 400   | 458  | 12             | 15             | 49,5           | 53,5           | 20,3x2,4 | 12,4        |
| SNR 30/16x3   | 30 | 16 | 400   | 433  | 10             | 18             | 52,0           | 57,5           | 25,3x2,4 | 16,5        |
| SNR 30/20x4   | 30 | 20 | 400   | 458  | 12             | 18             | 52,0           | 57,5           | 25,3x2,4 | 15,9        |
| SNR 30/25x5   | 30 | 25 | 400   | 458  | 15             | 18             | 52,0           | 57,5           | 25,3x2,4 | 14,4        |
| SNR 38/16x3   | 38 | 16 | 400   | 433  | 10             | 22             | 56,5           | 64,5           | 33,3x2,4 | 27,9        |
| SNR 38/20x4   | 38 | 20 | 400   | 458  | 12             | 22             | 56,5           | 64,5           | 33,3x2,4 | 27,8        |
| SNR 38/25x5   | 38 | 25 | 400   | 458  | 15             | 22             | 56,5           | 64,5           | 33,3x2,4 | 26,2        |
| SNR 38/30x4   | 38 | 30 | 400   | 321  | 22             | 22             | 56,5           | 64,5           | 33,3x2,4 | 25,2        |

\* Ciśnienie znamionowe (PN) dla złącza równoważnego. Seria S

\*\* Maksymalne ciśnienie operacyjne (PB) dla SNO i rury

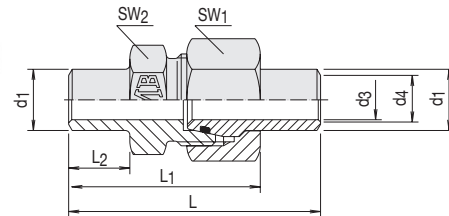
Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne — Wybór właściwego złącza rurowego”.



## ŁĄCZNIKI GWINTOWANE DO WSPAWANIA ŁĄCZNIKI DO WSPAWANIA

ŚWIAT ZŁĄCZY RUROWYCH

### ŚRUBUNEK TYPU SPAVALNICZEGO SNO-V



| opis              | PB* | d <sub>1</sub> | d <sub>4</sub> | d <sub>3</sub> | SW <sub>2</sub> | SW <sub>1</sub> | L     | L <sub>1</sub> | L <sub>2</sub> | kg / 100pcs |
|-------------------|-----|----------------|----------------|----------------|-----------------|-----------------|-------|----------------|----------------|-------------|
| SNO-V-10x1-S/SA   | 249 | 10             | 7              | 8              | 19              | 22              | 60,0  | 43,0           | 14             | 5,6         |
| SNO-V-10x1,5-S/SA | 358 | 10             | 7              | 7              | 19              | 22              | 60,0  | 43,0           | 14             | 7,3         |
| SNO-V-10x2-S/SA   | 460 | 10             | 7              | 6              | 19              | 22              | 60,0  | 43,0           | 14             | 8,5         |
| SNO-V-12x1,5-S/SA | 305 | 12             | 8              | 9              | 22              | 24              | 62,0  | 45,5           | 14             | 7,4         |
| SNO-V-12x2-S/SA   | 391 | 12             | 8              | 10             | 22              | 24              | 62,0  | 45,5           | 14             | 9,3         |
| SNO-V-12x2,5-S/SA | 474 | 12             | 8              | 7              | 22              | 24              | 62,0  | 45,5           | 14             | 10,8        |
| SNO-V-16x1,5-S/SA | 234 | 16             | 12             | 13             | 27              | 30              | 71,0  | 49,0           | 14             | 12,4        |
| SNO-V-16x2-S/SA   | 303 | 16             | 12             | 12             | 27              | 30              | 71,0  | 49,0           | 14             | 14,3        |
| SNO-V-16x2,5-S/SA | 370 | 16             | 12             | 11             | 27              | 30              | 71,0  | 49,0           | 14             | 16,6        |
| SNO-V-16x3-S/SA   | 433 | 16             | 12             | 10             | 27              | 30              | 71,0  | 49,0           | 14             | 19,1        |
| SNO-V-20x2-S/SA   | 249 | 20             | 15             | 16             | 32              | 36              | 84,5  | 60,5           | 20             | 22,7        |
| SNO-V-20x2,5-S/SA | 305 | 20             | 15             | 15             | 32              | 36              | 84,5  | 60,5           | 20             | 23,9        |
| SNO-V-20x3-S/SA   | 357 | 20             | 15             | 14             | 32              | 36              | 84,5  | 60,5           | 20             | 26,1        |
| SNO-V-20x4-S/SA   | 400 | 20             | 15             | 12             | 32              | 36              | 84,5  | 60,5           | 20             | 32,3        |
| SNO-V-25x3-S/SA   | 292 | 25             | 20             | 19             | 41              | 46              | 93,5  | 65,5           | 20             | 41,8        |
| SNO-V-25x4-S/SA   | 378 | 25             | 20             | 17             | 41              | 46              | 93,5  | 65,5           | 20             | 55,5        |
| SNO-V-25x5-S/SA   | 400 | 25             | 20             | 15             | 41              | 46              | 93,5  | 65,5           | 20             | 58,5        |
| SNO-V-30x3-S/SA   | 249 | 30             | 25             | 24             | 46              | 50              | 98,0  | 68,5           | 20             | 59,4        |
| SNO-V-30x4-S/SA   | 321 | 30             | 25             | 22             | 46              | 50              | 98,0  | 68,5           | 20             | 68,5        |
| SNO-V-30x5-S/SA   | 391 | 30             | 25             | 20             | 46              | 50              | 98,0  | 68,5           | 20             | 73,3        |
| SNO-V-30x6-S/SA   | 400 | 30             | 25             | 18             | 46              | 50              | 98,0  | 68,5           | 20             | 75,3        |
| SNO-V-38x4-S/SA   | 260 | 38             | 32             | 30             | 55              | 60              | 107,5 | 75,0           | 20             | 82,0        |
| SNO-V-38x5-S/SA   | 318 | 38             | 32             | 28             | 55              | 60              | 107,5 | 75,0           | 20             | 104,5       |
| SNO-V-38x6-S/SA   | 373 | 38             | 32             | 26             | 55              | 60              | 107,5 | 75,0           | 20             | 111,0       |
| SNO-V-38x7-S/SA   | 400 | 38             | 32             | 24             | 55              | 60              | 107,5 | 75,0           | 20             | 120,1       |

\* Maksymalne ciśnienie operacyjne (PB) dla SNO i rury

Aby uzyskać więcej informacji, patrz „Projektowanie i dane techniczne – Wybór właściwego złącza rurowego”.

## ŁĄCZNIKI GWINTOWANE DO WSPAWANIA

### ŁĄCZNIKI DO WSPAWANIA

#### PRZYKŁAD ZAMÓWIENIA SNO-A ZŁĄCZE GWINTOWANE

##### SNO-A 25X3-RS/WD

|     |                                                      |
|-----|------------------------------------------------------|
| SNO | Kod dla złączki do spawania (stalowa złączka O-ring) |
| A   | Rodzaj łącznika                                      |
| 25  | Średnica zewnętrzna rury                             |
| 3   | Średnica ścianki złączki do spawania                 |
| R   | Gwint zewnętrzny                                     |
| S   | Seria                                                |
| WD  | Uszczelnienie miękkie                                |
| xxx | Dodatkowy kod                                        |



##### SNO-A 25X3-RS/WD/VIT/1,4571

|        |                                                      |
|--------|------------------------------------------------------|
| SNO    | Kod dla złączki do spawania (stalowa złączka O-ring) |
| A      | Rodzaj łącznika                                      |
| 25     | Średnica zewnętrzna rury                             |
| 3      | Średnica ścianki złączki do spawania                 |
| R      | Gwint zewnętrzny                                     |
| S      | Seria                                                |
| WD     | Uszczelnienie miękkie                                |
| VIT    | Kod Viton                                            |
| 1,4517 | Kod stali nierdzewnej                                |

# ŚWIAT ZŁĄCZY RUROWYCH

ZINTEGROWANE ROZWIĄZANIA FLUID POWER

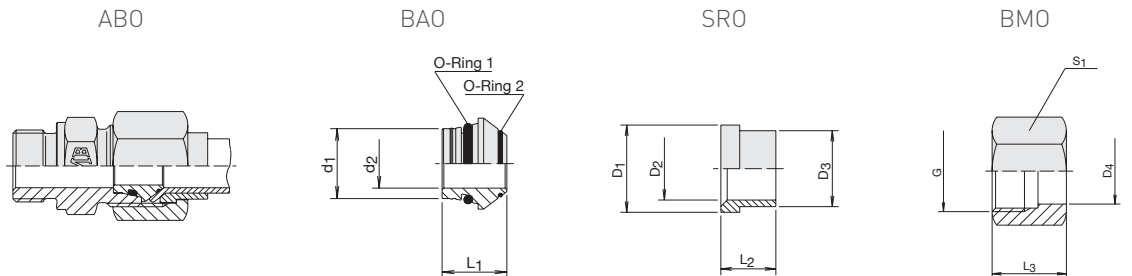


# ZŁĄCZA KIELICHOWE



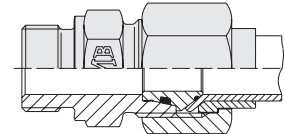
## ZŁĄCZA KIELICHOWE ELEMENTY PRZYŁĄCZY KIELICHOWYCH ABO

ŚWIAT ZŁĄCZY RUROWYCH



### ELEMENTY PRZYŁĄCZY KIELICHOWYCH

BAO dostarczane z O-ringami NBR (np. Perbunan).  
O-ringi FKM (np. Viton) na zamówienie.



| opis     | kształtka kielichowa | pierścień wspomagający | nakrętka |
|----------|----------------------|------------------------|----------|
| ABO 6-L  | BAO 6-L/S            | SRO 6-L/S              | BM0-6L   |
| ABO 8-L  | BAO 8-L/S            | SRO 8-L/S              | BM0-8L   |
| ABO 10-L | BAO 10-L/S           | SRO 10-L/S             | BM0-10L  |
| ABO 12-L | BAO 12-L/S           | SRO 12-L/S             | BM0-12L  |
| ABO 15-L | BAO 15-L             | SRO 15-L               | BM0-15L  |
| ABO 18-L | BAO 18-L             | SRO 18-L               | BM0-18L  |
| ABO 22-L | BAO 22-L             | SRO 22-L               | BM0-22L  |
| ABO 28-L | BAO 28-L             | SRO 28-L               | BM0-28L  |
| ABO 35-L | BAO 35-L             | SRO 35-L               | BM0-35L  |
| ABO 42-L | BAO 42-L             | SRO 42-L               | BM0-42L  |
| ABO 6-S  | BAO 6-L/S            | SRO 6-L/S              | BM0-6S   |
| ABO 8-S  | BAO 8-L/S            | SRO 8-L/S              | BM0-8S   |
| ABO 10-S | BAO 10-L/S           | SRO 10-L/S             | BM0-10S  |
| ABO 12-S | BAO 12-L/S           | SRO 12-L/S             | BM0-12S  |
| ABO 14-S | BAO 14-S             | SRO 14-S               | BM0-14S  |
| ABO 16-S | BAO 16-S             | SRO 16-S               | BM0-16S  |
| ABO 20-S | BAO 20-S             | SRO 20-S               | BM0-20S  |
| ABO 25-S | BAO 25-S             | SRO 25-S               | BM0-25S  |
| ABO 30-S | BAO 30-S             | SRO 30-S               | BM0-30S  |
| ABO 38-S | BAO 38-S             | SRO 38-S               | BM0-38S  |

Patrz „Projektowanie i dane techniczne - Wybór właściwego złącza rurowego”, aby poznać zasady działania, sposoby określania długości i instrukcje montażu.



## ZŁĄCZA KIELICHOWE ELEMENTY PRZYŁĄCZY KIELICHOWYCH ABO

| opis       | Nr produktu<br>seria | Śr. zew rury | d <sub>1</sub> | d <sub>2</sub> | L <sub>1</sub> | O-Ring 1 | O-Ring 2   |
|------------|----------------------|--------------|----------------|----------------|----------------|----------|------------|
| BAO 6-L/S  | L500                 | 6            | 6              | 3              | 11,5           | 4x1,5    | 4,4x0,8    |
| BAO 8-L/S  | L500                 | 8            | 8              | 5              | 12,0           | 6x1,5    | 6x0,8      |
| BAO 10-L/S | L500                 | 10           | 10             | 6              | 12,5           | 7,5x1,5  | 7,5x0,8    |
| BAO 12-L/S | L400                 | 12           | 12             | 8              | 12,5           | 9x1,5    | 9,5x0,8    |
| BAO 15-L   | L400                 | 15           | 15             | 11             | 12,5           | 12x2     | 12,5x0,8   |
| BAO 18-L   | L400                 | 18           | 18             | 14             | 13,0           | 15x2     | 15x1       |
| BAO 22-L   | L250                 | 22           | 22             | 17             | 14,2           | 20x2     | 18x1       |
| BAO 28-L   | L250                 | 28           | 28             | 23             | 14,7           | 26x2     | 23x1       |
| BAO 35-L   | L250                 | 35           | 35             | 28             | 18,5           | 32x2,5   | 30x1       |
| BAO 42-L   | L250                 | 42           | 42             | 35             | 20,5           | 38x2,5   | 36,5x1     |
| BAO 6-L/S  | S630                 | 6            | 6              | 3              | 11,5           | 4x1,5    | 4,4x0,8    |
| BAO 8-L/S  | S630                 | 8            | 8              | 5              | 12,0           | 6x1,5    | 6x0,8      |
| BAO 10-L/S | S630                 | 10           | 10             | 6              | 12,5           | 7,5x1,5  | 7,5x0,8    |
| BAO 12-L/S | S630                 | 12           | 12             | 8              | 12,5           | 9x1,5    | 9,5x0,8    |
| BAO 14-S   | S630                 | 14           | 14             | 9              | 14,0           | 10x2     | 11x1       |
| BAO 16-S   | S630                 | 16           | 16             | 11             | 15,0           | 12x2     | 12,5x1     |
| BAO 20-S   | S400                 | 20           | 20             | 14             | 18,5           | 16,3x2,4 | 16x1       |
| BAO 25-S   | S400                 | 25           | 25             | 19             | 20,0           | 20,3x2,4 | 20x1       |
| BAO 30-S   | S400                 | 30           | 30             | 23             | 22,0           | 25,3x2,4 | 25x1       |
| BAO 38-S   | S400                 | 38           | 38             | 30             | 26,0           | 33,3x2,4 | 31,47x1,78 |

| opis       | Nr produktu<br>seria | Śr. zew rury | D <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> | L <sub>2</sub> |
|------------|----------------------|--------------|----------------|----------------|----------------|----------------|
| SRO 6-L/S  | L500                 | 6            | 10,2           | 6              | 7,6            | 10,5           |
| SRO 8-L/S  | L500                 | 8            | 12,2           | 8              | 9,3            | 11,0           |
| SRO 10-L/S | L500                 | 10           | 14,2           | 10             | 11,5           | 12,5           |
| SRO 12-L/S | L400                 | 12           | 16,2           | 12             | 13,6           | 13,0           |
| SRO 15-L   | L400                 | 15           | 20,2           | 15             | 17,5           | 14,0           |
| SRO 18-L   | L400                 | 18           | 24,2           | 18             | 21,0           | 14,5           |
| SRO 22-L   | L250                 | 22           | 27,8           | 22             | 24,2           | 18,0           |
| SRO 28-L   | L250                 | 28           | 33,8           | 28             | 30,2           | 17,0           |
| SRO 35-L   | L250                 | 35           | 42,7           | 35             | 38,0           | 19,0           |
| SRO 42-L   | L250                 | 42           | 49,7           | 42             | 45,0           | 21,0           |
| SRO 6-L/S  | S630                 | 6            | 10,2           | 6              | 7,6            | 10,5           |
| SRO 8-L/S  | S630                 | 8            | 12,2           | 8              | 9,3            | 11,0           |
| SRO 10-L/S | S630                 | 10           | 14,2           | 10             | 11,5           | 12,5           |
| SRO 12-L/S | S630                 | 12           | 16,2           | 12             | 13,6           | 13,0           |
| SRO 14-S   | S630                 | 14           | 20,2           | 14             | 17,5           | 14,5           |
| SRO 16-S   | S630                 | 16           | 22,0           | 16             | 18,5           | 17,0           |
| SRO 20-S   | S400                 | 20           | 27,8           | 20             | 24,2           | 17,5           |
| SRO 25-S   | S400                 | 25           | 32,8           | 25             | 28,5           | 20,0           |
| SRO 30-S   | S400                 | 30           | 39,0           | 30             | 34,0           | 21,5           |
| SRO 38-S   | S400                 | 38           | 48,5           | 38             | 42,0           | 26,5           |

| opis    | gwint  | D <sub>4</sub> | L <sub>3</sub> | S <sub>1</sub> |
|---------|--------|----------------|----------------|----------------|
| BMO-6L  | 12x1,5 | 7,8            | 17,0           | 14             |
| BMO-8L  | 14x1,5 | 9,5            | 18,0           | 17             |
| BMO-10L | 16x1,5 | 11,7           | 19,5           | 19             |
| BMO-12L | 18x1,5 | 13,8           | 20,5           | 22             |
| BMO-15L | 22x1,5 | 17,7           | 23,0           | 27             |
| BMO-18L | 26x1,5 | 21,2           | 23,0           | 32             |
| BMO-22L | 30x2   | 24,4           | 27,5           | 36             |
| BMO-28L | 36x2   | 30,4           | 27,5           | 41             |
| BMO-35L | 45x2   | 38,3           | 30,0           | 50             |
| BMO-42L | 52x2   | 45,3           | 34,0           | 60             |
| BMO-6S  | 14x1,5 | 7,8            | 18,0           | 17             |
| BMO-8S  | 16x1,5 | 9,5            | 19,0           | 19             |
| BMO-10S | 18x1,5 | 11,7           | 20,5           | 22             |
| BMO-12S | 20x1,5 | 13,8           | 21,0           | 24             |
| BMO-14S | 22x1,5 | 17,7           | 23,0           | 27             |
| BMO-16S | 24x1,5 | 18,7           | 26,5           | 30             |
| BMO-20S | 30x2   | 24,4           | 27,5           | 36             |
| BMO-25S | 36x2   | 28,7           | 30,5           | 46             |
| BMO-30S | 42x2   | 34,2           | 32,0           | 50             |
| BMO-38S | 52x2   | 42,3           | 38,0           | 60             |

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