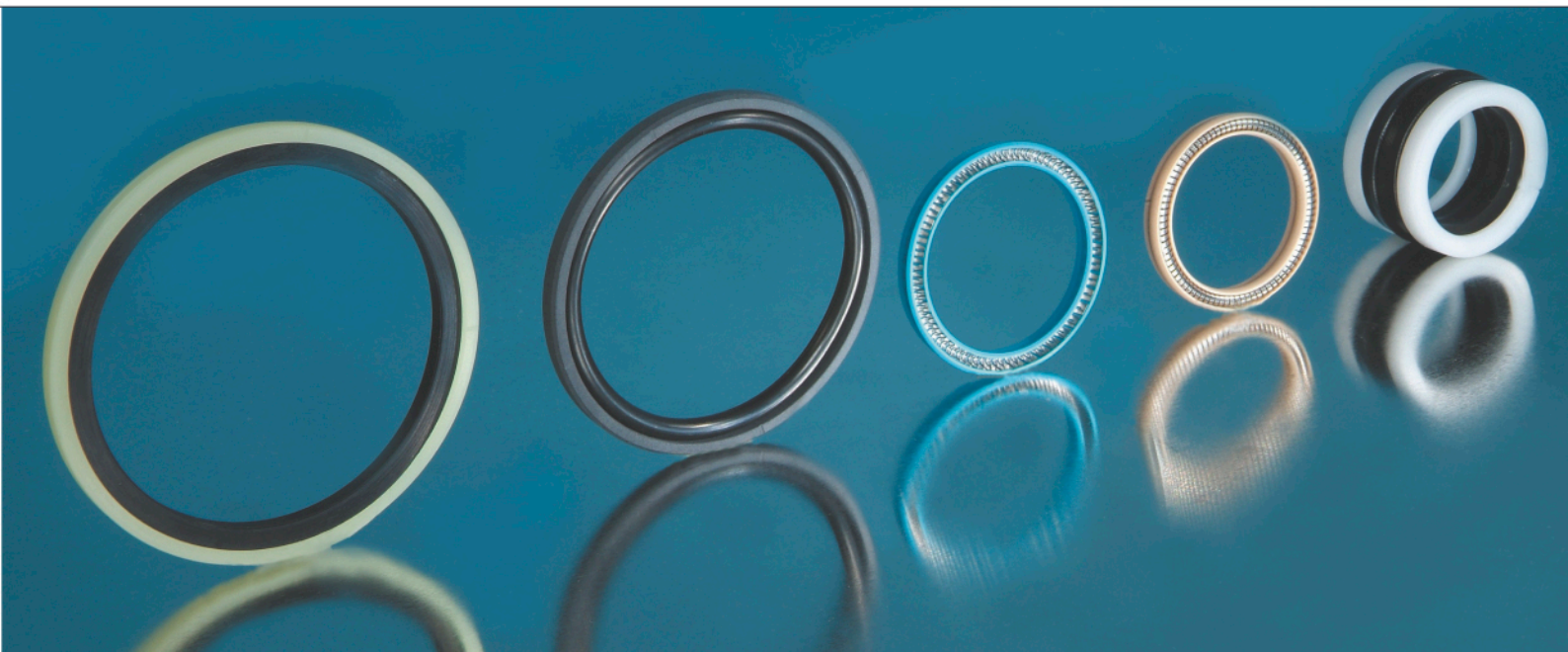


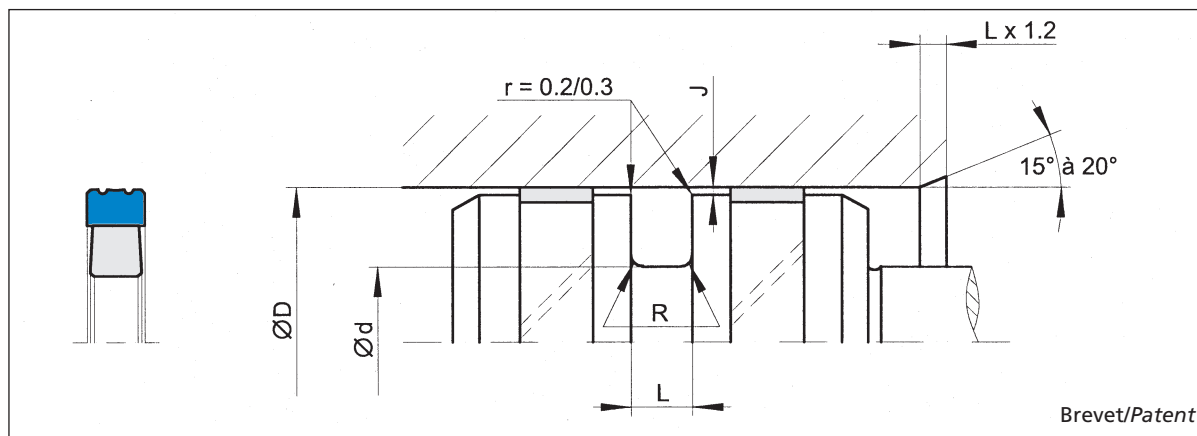


ALL YOU EXPECT  
IN SEALING EXPERTISE

## **JOINTS DE PISTON** **PISTON SEALS**



|                                                                   |                                 | <i>Page</i> |
|-------------------------------------------------------------------|---------------------------------|-------------|
| <b>DANA WING</b>                                                  | Série DW<br><i>DW range</i>     | <b>2</b>    |
| <b>DANA GLIDE</b>                                                 | Série CPG<br><i>CPG range</i>   | <b>4</b>    |
| <b>DANA STEP</b>                                                  | Série CPS<br><i>CPS range</i>   | <b>6</b>    |
| <b>DANA X-SEAL</b>                                                | Série P069<br><i>P069 range</i> | <b>8</b>    |
| <b>DANA CAP</b>                                                   | Série CPC<br><i>CPC range</i>   | <b>10</b>   |
| <b>DANA ROTO</b>                                                  | Série CPR<br><i>CPR range</i>   | <b>12</b>   |
| <b>DANAFLEX</b>                                                   | Série V<br><i>V range</i>       | <b>14</b>   |
| <b>JOINT DWO</b>                                                  | Série DWO<br><i>DWO range</i>   | <b>16</b>   |
| <b>JOINT CPW</b>                                                  | Série CPW<br><i>CPW range</i>   | <b>18</b>   |
| <b>JOINT PMT</b>                                                  | Série PMT<br><i>PMT range</i>   | <b>20</b>   |
| <b>AUTRES PROFILS</b><br><b>OTHER PROFILES</b>                    |                                 | <b>22</b>   |
| <b>SPECIAL GRANDS DIAMETRES</b><br><b>SPECIAL LARGE DIAMETERS</b> |                                 | <b>23</b>   |
| <b>QUESTIONNAIRE TECHNIQUE</b><br><b>TECHNICAL QUESTIONNAIRE</b>  |                                 | <b>24</b>   |



| N° de série<br>Range N° | Ø D H9        | Ø d h9                      | L<br>0/+0,2 | R   | Jeu radial/Radial gap - J maxi. * |                     |                     |
|-------------------------|---------------|-----------------------------|-------------|-----|-----------------------------------|---------------------|---------------------|
|                         |               |                             |             |     | 10 MPa<br>(100 bar)               | 20 MPa<br>(200 bar) | 40 MPa<br>(400 bar) |
| DW21                    | 25.0 - 79.9   | D - 11.0                    | 4.2         | 0.5 | 0.35                              | 0.25                | 0.15                |
| DW22                    | 80.0 - 132.9  | D - 15.5                    | 6.3         | 0.5 | 0.40                              | 0.30                | 0.20                |
| DW23                    | 133.0 - 329.9 | D - 21.0                    | 8.1         | 0.5 | 0.40                              | 0.30                | 0.20                |
| DW24                    | 330.0 - 669.9 | D - 24.5                    | 8.1         | 0.5 | 0.50                              | 0.35                | 0.25                |
| DW25                    | 670.0 - 999.9 | D - 28.0                    | 9.5         | 0.5 | 0.50                              | 0.40                | 0.30                |
| DW26                    | >1000         | Nous consulter / on request |             |     |                                   |                     |                     |

\* Pour pression > à 40 MPa, nous consulter. / At pressure > 40 MPa, please contact us.

### Conditions de Service

**Pression de service** : jusqu'à 70 MPa (700 bar)  
**Vitesse** : Jusqu'à 15 m/s.  
**Fluide** : Tous fluides hydrauliques, air, eau...  
**Température** : -50°C à +200°C (suivant matériaux).  
 Dimensions selon ISO 7425/1.

### Avantages

Etanchéité double-effet.  
 Très haut niveau d'étanchéité.  
 Maintien en pression, maintien en position.  
 Faibles frottements, pas de stick-slip.  
 Pas de variations aléatoires du niveau d'étanchéité.  
 Pas de basculement.

### Applications

Vérins de positionnement.  
 Vérins d'asservissement.  
 Presses plieuses.  
 Machines-outils.  
 Robots.

### Matériaux standards

**Bague** : P24 : PTFE chargé bronze.  
 P32 : PTFE chargé Carbone/Graphite.  
 P81 : Polyuréthane 72 shores D.  
**Joint TR** : NBR 70 shores A - code matière : N.  
 FKM 70 shores A - code matière : F.

### Autres matériaux

**Bague** : P18 : PTFE modifié (bleu).  
 P91 : PE.UHMW grade spécifique.  
**Joint TR** : EPDM 70 shores A - code matière : E.  
 Basse température : nous consulter.

### Operating conditions

**Pressure** : up to 70 MPa (700 bar).  
**Speed** : up to 15 m/s.  
**Media** : all hydraulic fluids, air, water...  
**Temperature** : -50°C up to +200°C (regarding materials).  
 Sizes according to ISO 7425/1.

### Advantages

Double acting effect.  
 High sealing effect.  
 Maintain in pressure; maintain in position.  
 Low friction, no stick-slip effect.  
 No unpredictable variations of the level of sealing.  
 No twisting.

### Applications

Positioning hydraulic cylinders.  
 Servo-systems.  
 Bending presses / Folding machines.  
 Machines tools.  
 Robotics.

### Standard materials

**Ring** : P24 : PTFE + bronze filled.  
 P32 : PTFE + Carbon/Graphite filled.  
 P81 : Polyurethane 72 shores D.  
**TR seal** : NBR 70 shores A - material code : N.  
 FKM 70 shores A - material code : F.

### Other materials

**Ring** : P18 : Modified PTFE (blue).  
 P91 : UHMW.PE specific grade.  
**TR seal** : EPDM 70 shores A - material code : E.  
 Low temperature : please contact us.

| ø D          | ø d          | L          | Code/Part N°     |
|--------------|--------------|------------|------------------|
| <b>25.0</b>  | <b>14.0</b>  | <b>4.2</b> | <b>DW21-0250</b> |
| 28.0         | 17.0         | 4.2        | DW21-0280        |
| 30.0         | 19.0         | 4.2        | DW21-0300        |
| <b>32.0</b>  | <b>21.0</b>  | <b>4.2</b> | <b>DW21-0320</b> |
| <b>40.0</b>  | <b>29.0</b>  | <b>4.2</b> | <b>DW21-0400</b> |
| 45.0         | 34.0         | 4.2        | DW21-0450        |
| <b>50.0</b>  | <b>39.0</b>  | <b>4.2</b> | <b>DW21-0500</b> |
| 60.0         | 49.0         | 4.2        | DW21-0600        |
| <b>63.0</b>  | <b>52.0</b>  | <b>4.2</b> | <b>DW21-0630</b> |
| 65.0         | 54.0         | 4.2        | DW21-0650        |
| 70.0         | 59.0         | 4.2        | DW21-0700        |
| <b>80.0</b>  | <b>64.5</b>  | <b>6.3</b> | <b>DW22-0800</b> |
| 85.0         | 69.5         | 6.3        | DW22-0850        |
| 90.0         | 74.5         | 6.3        | DW22-0900        |
| 95.0         | 79.5         | 6.3        | DW22-0950        |
| <b>100.0</b> | <b>84.5</b>  | <b>6.3</b> | <b>DW22-1000</b> |
| 110.0        | 94.5         | 6.3        | DW22-1100        |
| 120.0        | 104.5        | 6.3        | DW22-1200        |
| <b>125.0</b> | <b>109.5</b> | <b>6.3</b> | <b>DW22-1250</b> |
| 130.0        | 114.5        | 6.3        | DW22-1300        |
| 140.0        | 119.0        | 8.1        | DW23-1400        |
| 150.0        | 129.0        | 8.1        | DW23-1500        |
| <b>160.0</b> | <b>139.0</b> | <b>8.1</b> | <b>DW23-1600</b> |
| 170.0        | 149.0        | 8.1        | DW23-1700        |
| 180.0        | 159.0        | 8.1        | DW23-1800        |
| 190.0        | 169.0        | 8.1        | DW23-1900        |
| <b>200.0</b> | <b>179.0</b> | <b>8.1</b> | <b>DW23-2000</b> |
| 210.0        | 189.0        | 8.1        | DW23-2100        |
| 220.0        | 199.0        | 8.1        | DW23-2200        |
| 230.0        | 209.0        | 8.1        | DW23-2300        |
| 240.0        | 219.0        | 8.1        | DW23-2400        |
| <b>250.0</b> | <b>229.0</b> | <b>8.1</b> | <b>DW23-2500</b> |
| 260.0        | 239.0        | 8.1        | DW23-2600        |
| 270.0        | 249.0        | 8.1        | DW23-2700        |
| 280.0        | 259.0        | 8.1        | DW23-2800        |
| 290.0        | 269.0        | 8.1        | DW23-2900        |
| 300.0        | 279.0        | 8.1        | DW23-3000        |
| 310.0        | 289.0        | 8.1        | DW23-3100        |
| <b>320.0</b> | <b>299.0</b> | <b>8.1</b> | <b>DW23-3200</b> |
| 330.0        | 305.5        | 8.1        | DW24-3300        |

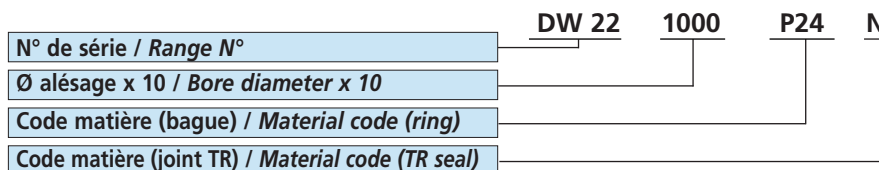
Dimensions en gras : référentiel ISO 7425/1.  
 Sizes in bold type : as ISO 7425/1 groove.

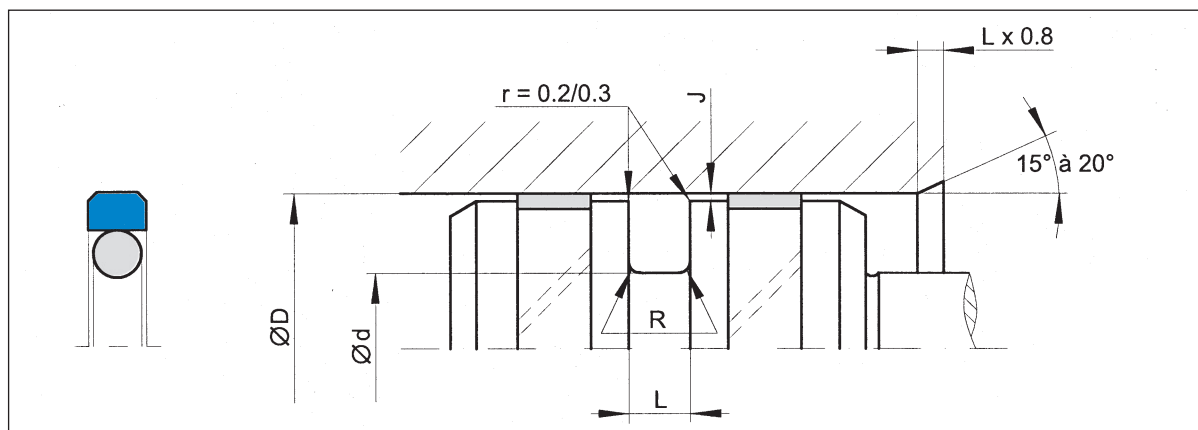
| ø D          | ø d          | L          | Code/Part N°     |
|--------------|--------------|------------|------------------|
| 340.0        | 315.5        | 8.1        | DW24-3400        |
| 350.0        | 325.5        | 8.1        | DW24-3500        |
| 360.0        | 335.5        | 8.1        | DW24-3600        |
| 370.0        | 345.5        | 8.1        | DW24-3700        |
| 380.0        | 355.5        | 8.1        | DW24-3800        |
| 390.0        | 365.5        | 8.1        | DW24-3900        |
| <b>400.0</b> | <b>375.5</b> | <b>8.1</b> | <b>DW24-4000</b> |
| 410.0        | 385.5        | 8.1        | DW24-4100        |
| 420.0        | 395.5        | 8.1        | DW24-4200        |
| 430.0        | 405.5        | 8.1        | DW24-4300        |
| 440.0        | 415.5        | 8.1        | DW24-4400        |
| 450.0        | 425.5        | 8.1        | DW24-4500        |
| 460.0        | 435.5        | 8.1        | DW24-4600        |
| 470.0        | 445.5        | 8.1        | DW24-4700        |
| 480.0        | 455.5        | 8.1        | DW24-4800        |
| 490.0        | 465.5        | 8.1        | DW24-4900        |
| <b>500.0</b> | <b>475.5</b> | <b>8.1</b> | <b>DW24-5000</b> |
| 510.0        | 485.5        | 8.1        | DW24-5100        |
| 520.0        | 495.5        | 8.1        | DW24-5200        |
| 530.0        | 505.5        | 8.1        | DW24-5300        |
| 540.0        | 515.5        | 8.1        | DW24-5400        |
| 550.0        | 525.5        | 8.1        | DW24-5500        |
| 560.0        | 535.5        | 8.1        | DW24-5600        |
| 570.0        | 545.5        | 8.1        | DW24-5700        |
| 580.0        | 555.5        | 8.1        | DW24-5800        |
| 590.0        | 565.5        | 8.1        | DW24-5900        |
| 600.0        | 575.5        | 8.1        | DW24-6000        |
| 610.0        | 585.5        | 8.1        | DW24-6100        |
| 620.0        | 595.5        | 8.1        | DW24-6200        |
| 630.0        | 605.5        | 8.1        | DW24-6300        |
| 640.0        | 615.5        | 8.1        | DW24-6400        |
| 650.0        | 625.5        | 8.1        | DW24-6500        |
| 660.0        | 635.5        | 8.1        | DW24-6600        |
| 670.0        | 642.0        | 9.5        | DW25-6700        |
| 680.0        | 652.0        | 9.5        | DW25-6800        |
| 690.0        | 662.0        | 9.5        | DW25-6900        |
| 700.0        | 672.0        | 9.5        | DW25-7000        |
| 800.0        | 772.0        | 9.5        | DW25-8000        |
| 900.0        | 872.0        | 9.5        | DW25-9000        |

Jusqu'à 3000 mm de diamètre / Up to 3000 mm diameter

Dimensions intermédiaires sur demande.  
 Other intermediate sizes on request.

### Exemple de commande / Ordering example :





| N° de série<br>Range N° | Série lourde<br>Heavy duty range | Ø D H9                           |                             | Ø d h9   | L<br>0/+0,2 | R         | Jeu radial / Radial gap - J maxi. * |                            | O-ring<br>Série<br>Range |
|-------------------------|----------------------------------|----------------------------------|-----------------------------|----------|-------------|-----------|-------------------------------------|----------------------------|--------------------------|
|                         |                                  | Série standard<br>Standard range | Série légère<br>Light range |          |             |           | 10/20 MPa<br>(100/200 bar)          | 20/40 MPa<br>(200/400 bar) |                          |
| CPG00                   | -                                | 8.0 - 14.9                       | 15.0 - 39.9                 | D - 4.9  | 2.2         | 0.3 à 0.5 | 0.30 à 0.20                         | 0.20 à 0.15                | 1.78                     |
| CPG01                   | -                                | 15.0 - 39.9                      | 40.0 - 79.9                 | D - 7.5  | 3.2         | 0.5 à 0.8 | 0.40 à 0.25                         | 0.25 à 0.15                | 2.62                     |
| CPG02                   | 20.0 - 39.9                      | 40.0 - 79.9                      | 80.0 - 132.9                | D - 11.0 | 4.2         | 0.8 à 1.2 | 0.40 à 0.25                         | 0.25 à 0.15                | 3.53                     |
| CPG03                   | 40.0 - 79.9                      | 80.0 - 132.9                     | 133.0 - 329.9               | D - 15.5 | 6.3         | 1.2 à 1.5 | 0.50 à 0.30                         | 0.30 à 0.20                | 5.33                     |
| CPG04                   | 80.0 - 132.9                     | 133.0 - 329.9                    | 330.0 - 669.9               | D - 21.0 | 8.1         | 1.5 à 2.0 | 0.50 à 0.30                         | 0.30 à 0.20                | 7.00                     |
| CPG05                   | 133.0 - 329.9                    | 330.0 - 669.9                    | 670.0 - 999.9               | D - 24.5 | 8.1         | 1.5 à 2.0 | 0.60 à 0.35                         | 0.35 à 0.25                | 7.00                     |
| CPG06                   | 330.0 - 669.9                    | 670.0 - 999.9                    | -                           | D - 28.0 | 9.5         | 2.0 à 3.0 | 0.70 à 0.40                         | 0.40 à 0.30                | 8.40                     |
| CPG07                   | -                                | > 1000                           | -                           | D - 38.0 | 13.8        | 2.0 à 3.0 | 1.00 à 0.50                         | 0.50 à 0.40                | 12.00                    |

(\*) Pression > 40 MPa, nous consulter. At pressure > 40 MPa, please contact us.

Choix de la série en fonction des conditions de service : Nous consulter.

For the selection of the range according to the working conditions, please contact us.

### Conditions de Service

**Pression de service** : jusqu'à 80 MPa (800 bar)

**Vitesse** : Jusqu'à 15 m/s.

**Fluide** : Tous fluides hydrauliques, air, eau...

**Température** : -50°C à +200°C (suivant matériaux).

Dimensions selon ISO 7425/1.

### Avantages

Etanchéité double-effet.

Faibles frottements, pas de stick-slip.

Longue durée de vie.

Grande adaptabilité.

Dimensions réduites.

### Applications

Vérins de T.P.

Presses à injecter.

Presses hydrauliques.

Hydraulique mobile.

### Matériaux standards

**Bague** : P24 : PTFE chargé bronze.  
P32 : PTFE chargé Carbone/Graphite.  
P18 : PTFE modifié (bleu).

**O-ring** : NBR 70 shores A - code matière : N.  
FKM 70 shores A - code matière : F.

### Autres matériaux

**Bague** : P41 : PTFE chargé fibres de carbone.  
P81 : Polyuréthane 72 shores D.

**O-ring** : EPDM 70 shores A - code matière : E.  
Basse température : nous consulter.

### Operating conditions

**Pressure** : up to 80 MPa (800 bar).

**Speed** : up to 15 m/s.

**Media** : all hydraulic fluids, air, water...

**Temperature** : -50°C up to +200°C (depending on materials).

Sizes according to ISO 7425/1.

### Advantages

Double acting effect.

Low friction, no stick-slip effect.

Long service life.

Large adaptability.

Small sizes.

### Applications

Excavators.

Injection moulding machines.

Hydraulic presses.

Mobile Hydraulic.

### Standard materials

**Ring** : P24 : PTFE + bronze filled.  
P32 : PTFE + Carbon/Graphite filled.  
P18 : Modified PTFE (blue).

**O-ring** : NBR 70 shores A - material code : N.  
FKM 70 shores A - material code : F.

### Other materials

**Ring** : P41 : PTFE + carbon fibres filled.  
P81 : Polyurethane 72 shores D.

**O-ring** : EPDM 70 shores A - material code : E.  
Low temperature : please consult us.

| ø D          | ø d          | L          | Code/Part N°      |
|--------------|--------------|------------|-------------------|
| 12.0         | 7.1          | 2.2        | CPG00-0120        |
| <b>16.0</b>  | <b>8.5</b>   | <b>3.2</b> | <b>CPG01-0160</b> |
| 18.0         | 10.5         | 3.2        | CPG01-0180        |
| <b>20.0</b>  | <b>12.5</b>  | <b>3.2</b> | <b>CPG01-0200</b> |
| 22.0         | 14.5         | 3.2        | CPG01-0220        |
| <b>25.0</b>  | <b>17.5</b>  | <b>3.2</b> | <b>CPG01-0250</b> |
| 28.0         | 20.5         | 3.2        | CPG01-0280        |
| 30.0         | 22.5         | 3.2        | CPG01-0300        |
| <b>32.0</b>  | <b>24.5</b>  | <b>3.2</b> | <b>CPG01-0320</b> |
| 35.0         | 27.5         | 3.2        | CPG01-0350        |
| <b>40.0</b>  | <b>29.0</b>  | <b>4.2</b> | <b>CPG02-0400</b> |
| 42.0         | 31.0         | 4.2        | CPG02-0420        |
| 45.0         | 34.0         | 4.2        | CPG02-0450        |
| 48.0         | 37.0         | 4.2        | CPG02-0480        |
| <b>50.0</b>  | <b>39.0</b>  | <b>4.2</b> | <b>CPG02-0500</b> |
| 52.0         | 41.0         | 4.2        | CPG02-0520        |
| 55.0         | 44.0         | 4.2        | CPG02-0550        |
| 60.0         | 49.0         | 4.2        | CPG02-0600        |
| <b>63.0</b>  | <b>52.0</b>  | <b>4.2</b> | <b>CPG02-0630</b> |
| 65.0         | 54.0         | 4.2        | CPG02-0650        |
| 70.0         | 59.0         | 4.2        | CPG02-0700        |
| 75.0         | 64.0         | 4.2        | CPG02-0750        |
| <b>80.0</b>  | <b>64.5</b>  | <b>6.3</b> | <b>CPG03-0800</b> |
| 85.0         | 69.5         | 6.3        | CPG03-0850        |
| 90.0         | 74.5         | 6.3        | CPG03-0900        |
| 95.0         | 79.5         | 6.3        | CPG03-0950        |
| <b>100.0</b> | <b>84.5</b>  | <b>6.3</b> | <b>CPG03-1000</b> |
| 105.0        | 89.5         | 6.3        | CPG03-1050        |
| 110.0        | 94.5         | 6.3        | CPG03-1100        |
| 115.0        | 99.5         | 6.3        | CPG03-1150        |
| 120.0        | 104.5        | 6.3        | CPG03-1200        |
| <b>125.0</b> | <b>109.5</b> | <b>6.3</b> | <b>CPG03-1250</b> |
| 130.0        | 114.5        | 6.3        | CPG03-1300        |
| 135.0        | 114.0        | 8.1        | CPG04-1350        |
| 140.0        | 119.0        | 8.1        | CPG04-1400        |
| 150.0        | 129.0        | 8.1        | CPG04-1500        |
| <b>160.0</b> | <b>139.0</b> | <b>8.1</b> | <b>CPG04-1600</b> |
| 170.0        | 149.0        | 8.1        | CPG04-1700        |
| 180.0        | 159.0        | 8.1        | CPG04-1800        |
| 190.0        | 169.0        | 8.1        | CPG04-1900        |
| <b>200.0</b> | <b>179.0</b> | <b>8.1</b> | <b>CPG04-2000</b> |
| 210.0        | 189.0        | 8.1        | CPG04-2100        |
| 220.0        | 199.0        | 8.1        | CPG04-2200        |
| 230.0        | 209.0        | 8.1        | CPG04-2300        |

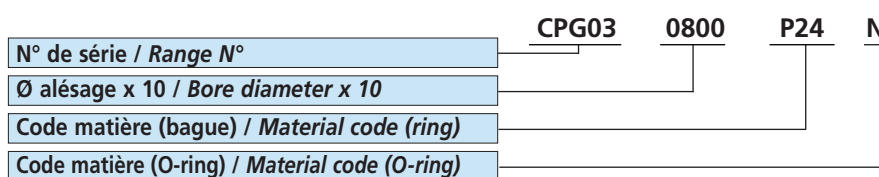
Dimensions en gras : référentiel ISO 7425/1.  
 Sizes in bold type : as ISO 7425/1 groove.

| ø D          | ø d          | L          | Code/Part N°      |
|--------------|--------------|------------|-------------------|
| 240.0        | 219.0        | 8.1        | CPG04-2400        |
| 250.0        | 229.0        | 8.1        | CPG04-2500        |
| <b>250.0</b> | <b>225.5</b> | <b>8.1</b> | <b>CPG05-2500</b> |
| 260.0        | 239.0        | 8.1        | CPG04-2600        |
| 270.0        | 249.0        | 8.1        | CPG04-2700        |
| 280.0        | 259.0        | 8.1        | CPG04-2800        |
| 290.0        | 269.0        | 8.1        | CPG04-2900        |
| 300.0        | 279.0        | 8.1        | CPG04-3000        |
| 310.0        | 289.0        | 8.1        | CPG04-3100        |
| 320.0        | 299.0        | 8.1        | CPG04-3200        |
| <b>320.0</b> | <b>295.5</b> | <b>8.1</b> | <b>CPG05-3200</b> |
| 330.0        | 305.5        | 8.1        | CPG05-3300        |
| 340.0        | 315.5        | 8.1        | CPG05-3400        |
| 350.0        | 325.5        | 8.1        | CPG05-3500        |
| 360.0        | 335.5        | 8.1        | CPG05-3600        |
| 370.0        | 345.5        | 8.1        | CPG05-3700        |
| 380.0        | 355.5        | 8.1        | CPG05-3800        |
| 390.0        | 365.5        | 8.1        | CPG05-3900        |
| <b>400.0</b> | <b>375.5</b> | <b>8.1</b> | <b>CPG05-4000</b> |
| 410.0        | 385.5        | 8.1        | CPG05-4100        |
| 420.0        | 395.5        | 8.1        | CPG05-4200        |
| 430.0        | 405.5        | 8.1        | CPG05-4300        |
| 440.0        | 415.5        | 8.1        | CPG05-4400        |
| 450.0        | 425.5        | 8.1        | CPG05-4500        |
| 460.0        | 435.5        | 8.1        | CPG05-4600        |
| 470.0        | 445.5        | 8.1        | CPG05-4700        |
| 480.0        | 455.5        | 8.1        | CPG05-4800        |
| 490.0        | 465.5        | 8.1        | CPG05-4900        |
| <b>500.0</b> | <b>475.5</b> | <b>8.1</b> | <b>CPG05-5000</b> |
| 510.0        | 485.5        | 8.1        | CPG05-5100        |
| 520.0        | 495.5        | 8.1        | CPG05-5200        |
| 530.0        | 505.5        | 8.1        | CPG05-5300        |
| 540.0        | 515.5        | 8.1        | CPG05-5400        |
| 550.0        | 525.5        | 8.1        | CPG05-5500        |
| 560.0        | 535.5        | 8.1        | CPG05-5600        |
| 570.0        | 545.5        | 8.1        | CPG05-5700        |
| 580.0        | 555.5        | 8.1        | CPG05-5800        |
| 590.0        | 565.5        | 8.1        | CPG05-5900        |
| 600.0        | 575.5        | 8.1        | CPG05-6000        |
| 700.0        | 672.0        | 9.5        | CPG06-7000        |
| 800.0        | 772.0        | 9.5        | CPG06-8000        |
| 900.0        | 872.0        | 9.5        | CPG06-9000        |

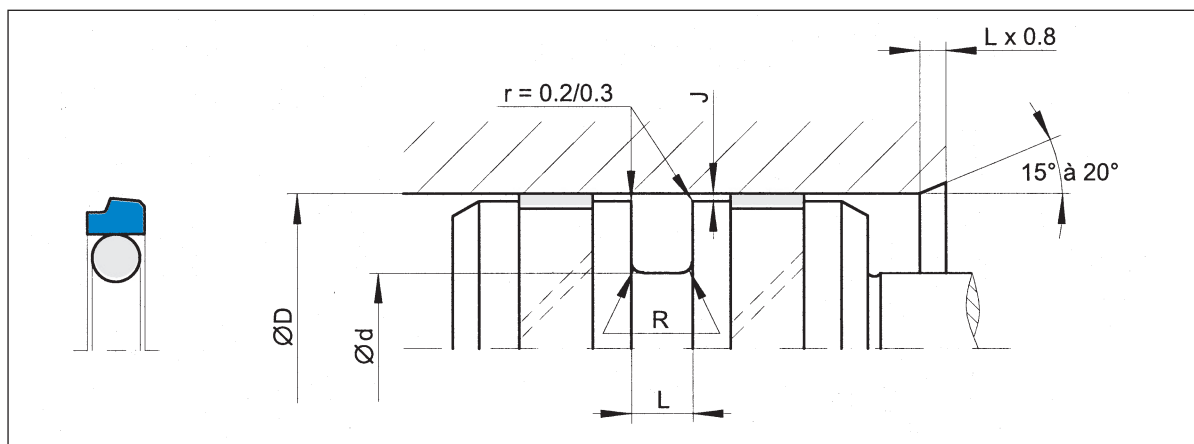
Jusqu'à 3000 mm de diamètre / Up to 3000 mm diameter

Dimensions intermédiaires sur demande.  
 Other intermediate sizes on request.

### Exemple de commande / Ordering example :







| N° de série<br>Range N° | Série lourde<br>Heavy duty range | Ø D H9<br>Série standard<br>Standard range | Série légère<br>Light range | Ød h9    | L<br>0/+0.2 | R   | Jeu radial / Radial gap - J maxi. * |                     |                     | O-ring<br>Série<br>Range |
|-------------------------|----------------------------------|--------------------------------------------|-----------------------------|----------|-------------|-----|-------------------------------------|---------------------|---------------------|--------------------------|
|                         |                                  |                                            |                             |          |             |     | 10 MPa<br>(100 bar)                 | 20 MPa<br>(200 bar) | 40 MPa<br>(400 bar) |                          |
| CPS00                   | -                                | 8.0 - 16.9                                 | 17.0 - 26.9                 | D - 4.9  | 2.2         | 0.4 | 0.30                                | 0.20                | 0.15                | 1.78                     |
| CPS01                   | -                                | 17.0 - 26.9                                | 27.0 - 59.9                 | D - 7.3  | 3.2         | 0.6 | 0.40                                | 0.25                | 0.15                | 2.62                     |
| CPS02                   | 20.0 - 26.9                      | 27.0 - 59.9                                | 60.0 - 199.9                | D - 10.7 | 4.2         | 1.0 | 0.40                                | 0.25                | 0.20                | 3.53                     |
| CPS03                   | 27.0 - 59.9                      | 60.0 - 199.9                               | 200.0 - 255.9               | D - 15.1 | 6.3         | 1.3 | 0.50                                | 0.30                | 0.20                | 5.33                     |
| CPS04                   | 60.0 - 199.9                     | 200.0 - 255.9                              | 256.0 - 669.9               | D - 20.5 | 8.1         | 1.8 | 0.60                                | 0.35                | 0.25                | 7.00                     |
| CPS05                   | 200.0 - 255.9                    | 256.0 - 669.9                              | 670.0 - 999.9               | D - 24.0 | 8.1         | 1.8 | 0.60                                | 0.35                | 0.25                | 7.00                     |
| CPS06                   | 256.0 - 669.9                    | 670.0 - 999.9                              | -                           | D - 27.3 | 9.5         | 2.5 | 0.70                                | 0.50                | 0.30                | 8.40                     |
| CPS07                   | -                                | > 1000                                     | -                           | D - 38.0 | 13.8        | 3.0 | 1.00                                | 0.70                | 0.60                | 12.00                    |

(\*) Pression > 40 MPa, nous consulter. At pressure > 40 MPa, please contact us.

Choix de la série en fonction des conditions de service : Nous consulter.

Selection of the range regarding working conditions, please contact us.

### Conditions de Service

**Pression de service** : jusqu'à 80 MPa (800 bar)

**Vitesse** : Jusqu'à 15 m/s.

**Fluide** : Tous fluides hydrauliques, air, eau...

**Température** : -50°C à +200°C (suivant matériaux).

Dimensions selon ISO 7425/1.

### Avantages

Étanchéité simple effet.

Bonne étanchéité dynamique.

Faibles frottements, pas de stick-slip.

Longue durée de vie.

### Applications

Vérins de T.P.

Presses hydrauliques.

Vérins haute fréquence.

Servo-vérins.

### Matériaux standards

**Bague** : P24 : PTFE chargé bronze.  
P32 : PTFE chargé Carbone/Graphite.

**O-ring** : NBR 70 shores A - code matière : N.  
FKM 70 shores A - code matière : F.

### Autres matériaux

**Bague** : P41 : PTFE chargé fibres de carbone.  
P18 : PTFE modifié (bleu).  
P81 : Polyuréthane 72 shores D.

**O-ring** : EPDM 70 shores A - code matière : E.  
Basse température : nous consulter.

### Operating conditions

**Pressure** : up to 80 MPa (800 bar).

**Speed** : up to 15 m/s.

**Media** : all hydraulic fluids, air, water...

**Temperature** : -50°C up to +200°C (depending on materials).

Sizes according to ISO 7425/1.

### Advantages

Single acting effect.

High dynamic sealing effect.

Low friction, no stick-slip effect.

Long service life.

### Applications

Excavators.

Hydraulic presses.

High frequency cylinders.

Servo-systems.

### Standard materials

**Ring** : P24 : PTFE + bronze filled.  
P32 : PTFE + Carbon/Graphite filled.

**O-ring** : NBR 70 shores A - material code : N.  
FKM 70 shores A - material code : F.

### Other materials

**Ring** : P41 : PTFE + carbon fibres filled.  
P18 : Modified PTFE (blue).  
P81 : Polyurethane 72 shores D.

**O-ring** : EPDM 70 shores A - material code : E.  
Low temperature : please contact us.

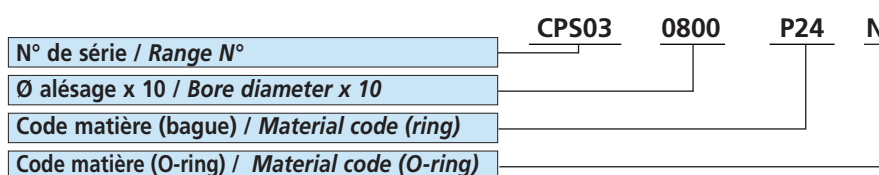
| ø D   | ø d   | L   | Code/Part N° |
|-------|-------|-----|--------------|
| 12.0  | 7.1   | 2.2 | CPS00-0120   |
| 14.0  | 9.1   | 2.2 | CPS00-0140   |
| 15.0  | 10.1  | 2.2 | CPS00-0150   |
| 16.0  | 11.1  | 2.2 | CPS00-0160   |
| 18.0  | 10.7  | 3.2 | CPS01-0180   |
| 20.0  | 12.7  | 3.2 | CPS01-0200   |
| 22.0  | 14.7  | 3.2 | CPS01-0220   |
| 25.0  | 17.7  | 3.2 | CPS01-0250   |
| 28.0  | 17.3  | 4.2 | CPS02-0280   |
| 30.0  | 19.3  | 4.2 | CPS02-0300   |
| 32.0  | 21.3  | 4.2 | CPS02-0320   |
| 35.0  | 24.3  | 4.2 | CPS02-0350   |
| 40.0  | 29.3  | 4.2 | CPS02-0400   |
| 42.0  | 31.3  | 4.2 | CPS02-0420   |
| 45.0  | 34.3  | 4.2 | CPS02-0450   |
| 48.0  | 37.3  | 4.2 | CPS02-0480   |
| 50.0  | 39.3  | 4.2 | CPS02-0500   |
| 52.0  | 41.3  | 4.2 | CPS02-0520   |
| 55.0  | 44.3  | 4.2 | CPS02-0550   |
| 60.0  | 44.9  | 6.3 | CPS03-0600   |
| 63.0  | 47.9  | 6.3 | CPS03-0630   |
| 65.0  | 49.9  | 6.3 | CPS03-0650   |
| 70.0  | 54.9  | 6.3 | CPS03-0700   |
| 75.0  | 59.9  | 6.3 | CPS03-0750   |
| 80.0  | 64.9  | 6.3 | CPS03-0800   |
| 85.0  | 69.9  | 6.3 | CPS03-0850   |
| 90.0  | 74.9  | 6.3 | CPS03-0900   |
| 95.0  | 79.9  | 6.3 | CPS03-0950   |
| 100.0 | 84.9  | 6.3 | CPS03-1000   |
| 105.0 | 89.9  | 6.3 | CPS03-1050   |
| 110.0 | 94.9  | 6.3 | CPS03-1100   |
| 115.0 | 99.9  | 6.3 | CPS03-1150   |
| 120.0 | 104.9 | 6.3 | CPS03-1200   |
| 125.0 | 109.9 | 6.3 | CPS03-1250   |
| 130.0 | 114.9 | 6.3 | CPS03-1300   |
| 135.0 | 119.5 | 6.3 | CPS03-1350   |
| 140.0 | 124.5 | 6.3 | CPS03-1400   |
| 150.0 | 134.5 | 6.3 | CPS03-1500   |
| 160.0 | 144.5 | 6.3 | CPS03-1600   |
| 170.0 | 154.5 | 6.3 | CPS03-1700   |
| 180.0 | 164.5 | 6.3 | CPS03-1800   |
| 190.0 | 174.5 | 6.3 | CPS03-1900   |
| 200.0 | 179.5 | 8.1 | CPS04-2000   |
| 210.0 | 189.5 | 8.1 | CPS04-2100   |

| ø D   | ø d   | L   | Code/Part N° |
|-------|-------|-----|--------------|
| 220.0 | 199.5 | 8.1 | CPS04-2200   |
| 230.0 | 209.5 | 8.1 | CPS04-2300   |
| 240.0 | 219.5 | 8.1 | CPS04-2400   |
| 250.0 | 229.5 | 8.1 | CPS04-2500   |
| 260.0 | 236.0 | 8.1 | CPS05-2600   |
| 270.0 | 246.0 | 8.1 | CPS05-2700   |
| 280.0 | 256.0 | 8.1 | CPS05-2800   |
| 290.0 | 266.0 | 8.1 | CPS05-2900   |
| 300.0 | 276.0 | 8.1 | CPS05-3000   |
| 310.0 | 286.0 | 8.1 | CPS05-3100   |
| 320.0 | 296.0 | 8.1 | CPS05-3200   |
| 330.0 | 306.0 | 8.1 | CPS05-3300   |
| 340.0 | 316.0 | 8.1 | CPS05-3400   |
| 350.0 | 326.0 | 8.1 | CPS05-3500   |
| 360.0 | 336.0 | 8.1 | CPS05-3600   |
| 370.0 | 346.0 | 8.1 | CPS05-3700   |
| 380.0 | 356.0 | 8.1 | CPS05-3800   |
| 390.0 | 366.0 | 8.1 | CPS05-3900   |
| 400.0 | 376.0 | 8.1 | CPS05-4000   |
| 410.0 | 386.0 | 8.1 | CPS05-4100   |
| 420.0 | 396.0 | 8.1 | CPS05-4200   |
| 430.0 | 406.0 | 8.1 | CPS05-4300   |
| 440.0 | 416.0 | 8.1 | CPS05-4400   |
| 450.0 | 426.0 | 8.1 | CPS05-4500   |
| 460.0 | 436.0 | 8.1 | CPS05-4600   |
| 470.0 | 446.0 | 8.1 | CPS05-4700   |
| 480.0 | 456.0 | 8.1 | CPS05-4800   |
| 490.0 | 466.0 | 8.1 | CPS05-4900   |
| 500.0 | 476.0 | 8.1 | CPS05-5000   |
| 510.0 | 486.0 | 8.1 | CPS05-5100   |
| 520.0 | 496.0 | 8.1 | CPS05-5200   |
| 530.0 | 506.0 | 8.1 | CPS05-5300   |
| 540.0 | 516.0 | 8.1 | CPS05-5400   |
| 550.0 | 526.0 | 8.1 | CPS05-5500   |
| 560.0 | 536.0 | 8.1 | CPS05-5600   |
| 570.0 | 546.0 | 8.1 | CPS05-5700   |
| 580.0 | 556.0 | 8.1 | CPS05-5800   |
| 590.0 | 566.0 | 8.1 | CPS05-5900   |
| 600.0 | 576.0 | 8.1 | CPS05-6000   |
| 700.0 | 672.7 | 9.5 | CPS06-7000   |
| 800.0 | 772.7 | 9.5 | CPS06-8000   |
| 900.0 | 872.7 | 9.5 | CPS06-9000   |

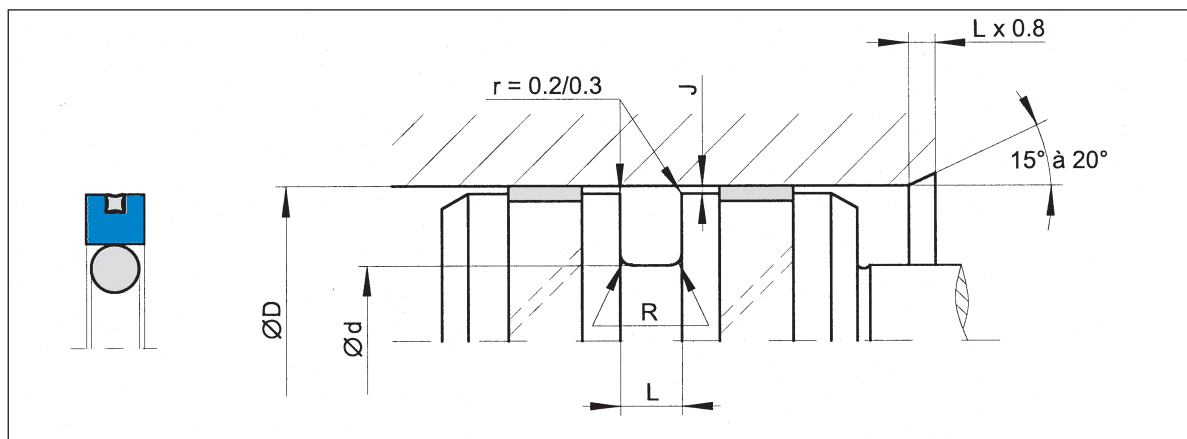
Jusqu'à 3000 mm de diamètre / Up to 3000 mm diameter

Dimensions intermédiaires sur demande.  
 Other intermediate sizes on request.

**Exemple de commande / Ordering example :**







| N° de série<br>Range N° | Ø D H9        | Ø d h9   | L<br>0/+0.2 | R   | Jeu radial / Radial gap - J maxi. * |                     | O-ring<br>Série<br>Range | X-ring<br>Série<br>Range |
|-------------------------|---------------|----------|-------------|-----|-------------------------------------|---------------------|--------------------------|--------------------------|
| P0692                   | 15.0 - 39.9   | D - 11.0 | 4.2         | 1.0 | 20 MPa<br>(200 bar)                 | 40 MPa<br>(400 bar) | 3.53                     | 1.78                     |
| P0693                   | 40.0 - 79.9   | D - 15.5 | 6.3         | 1.3 | 0.20                                | 0.15                | 5.33                     | 1.78                     |
| P0694                   | 80.0 - 132.9  | D - 21.0 | 8.1         | 1.8 | 0.20                                | 0.15                | 7.00                     | 2.62                     |
| P0695                   | 133.0 - 252.9 | D - 24.5 | 8.1         | 1.8 | 0.20                                | 0.15                | 7.00                     | 2.62                     |
| P0696                   | 253.0 - 462.9 | D - 28.0 | 9.5         | 2.5 | 0.30                                | 0.25                | 8.40                     | 3.53                     |
| P0697                   | 463.0 - 700.0 | D - 35.0 | 11.5        | 3.0 | 0.40                                | 0.35                | 10.0                     | 5.33                     |

(\*) Pression > 40 MPa, nous consulter. At pressure > 40 MPa, please contact us.

Choix de la série en fonction des conditions de service : Nous consulter.

For the selection of the range according to the working conditions, please contact us.

#### Conditions de Service

**Pression de service :** jusqu'à 40 MPa (400 bar)

**Vitesse :** Jusqu'à 3 m/s.

**Fluide :** Tous fluides hydrauliques, air, eau...

**Température :** -50°C à +200°C (suivant matériaux).

#### Avantages

Étanchéité double-effet.

Haut niveau d'étanchéité.

Séparation huile/gaz ou gaz/gaz.

Faible frottement

Nombreuses variantes de formes possibles

#### Applications

Accumulateurs.

Vérins de positionnement.

Vérins d'équilibrage.

Machines-outils.

#### Matériaux standards

**Bague :** P24 : PTFE chargé bronze.

**O-ring :** NBR 70 shores A - code matière : N.

**X-ring :** NBR 70 shores A - code matière : N.

#### Autres matériaux

**Bague :** P32 : PTFE chargé Carbone/Graphite.

P41 : PTFE chargé fibres de Carbone.

**O-ring :** FKM 70 shores A - code matière : F.

**X-ring :** FKM 70 shores A - code matériel : F.

#### Operating conditions

**Pressure :** up to 40 MPa (400 bar).

**Speed :** up to 3 m/s.

**Media :** all hydraulic fluids, air, water...

**Temperature :** -50°C up to +200°C (according to the materials).

#### Advantages

Double acting effect.

High sealing effect.

Media separation fluid/gas or gas/gas.

Low friction.

Several shapes available.

#### Applications

Accumulators.

Positioning cylinders.

Stabilisers.

Machines-tools.

#### Standard materials

**Ring :** P24 : PTFE + bronze filled.

**O-ring :** NBR 70 shores A - material code : N.

**X-ring :** NBR 70 shores A - material code : N.

#### Other materials

**Ring :** P32 : PTFE + Carbon/Graphite filled.

P41 : PTFE + Carbon fibres filled.

**O-ring :** FKM 70 shores A - material code : F.

**X-ring :** FKM 70 shores A - material code : F.

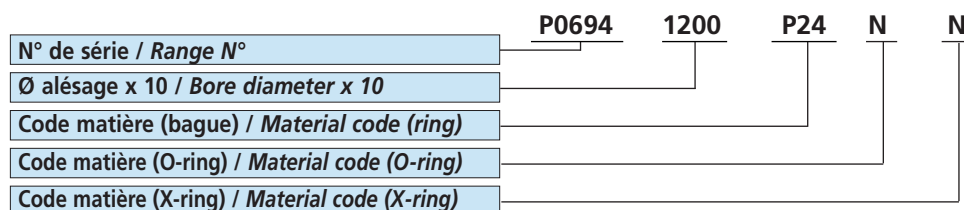
| ø D   | ø d   | L   | Code/Part N° |
|-------|-------|-----|--------------|
| 16.0  | 5.0   | 4.2 | P0692-0160   |
| 18.0  | 7.0   | 4.2 | P0692-0180   |
| 20.0  | 9.0   | 4.2 | P0692-0200   |
| 22.0  | 11.0  | 4.2 | P0692-0200   |
| 25.0  | 14.0  | 4.2 | P0692-0250   |
| 28.0  | 17.0  | 4.2 | P0692-0280   |
| 30.0  | 19.0  | 4.2 | P0692-0300   |
| 32.0  | 21.0  | 4.2 | P0692-0320   |
| 35.0  | 24.0  | 4.2 | P0692-0350   |
| 40.0  | 24.5  | 6.3 | P0693-0400   |
| 42.0  | 26.5  | 6.3 | P0693-0420   |
| 45.0  | 29.5  | 6.3 | P0693-0450   |
| 48.0  | 32.5  | 6.3 | P0693-0480   |
| 50.0  | 34.5  | 6.3 | P0693-0500   |
| 52.0  | 36.5  | 6.3 | P0693-0520   |
| 55.0  | 39.5  | 6.3 | P0693-0550   |
| 60.0  | 44.5  | 6.3 | P0693-0600   |
| 63.0  | 47.5  | 6.3 | P0693-0630   |
| 65.0  | 49.5  | 6.3 | P0693-0650   |
| 70.0  | 54.5  | 6.3 | P0693-0700   |
| 75.0  | 59.5  | 6.3 | P0693-0750   |
| 80.0  | 59.0  | 8.1 | P0694-0800   |
| 85.0  | 64.0  | 8.1 | P0694-0850   |
| 90.0  | 69.0  | 8.1 | P0694-0900   |
| 95.0  | 74.0  | 8.1 | P0694-0950   |
| 100.0 | 79.0  | 8.1 | P0694-1000   |
| 105.0 | 84.0  | 8.1 | P0694-1050   |
| 110.0 | 89.0  | 8.1 | P0694-1100   |
| 115.0 | 94.0  | 8.1 | P0694-1150   |
| 120.0 | 99.0  | 8.1 | P0694-1200   |
| 125.0 | 104.0 | 8.1 | P0694-1250   |
| 130.0 | 109.0 | 8.1 | P0694-1300   |
| 135.0 | 110.5 | 8.1 | P0695-1350   |
| 140.0 | 115.5 | 8.1 | P0695-1400   |
| 150.0 | 125.5 | 8.1 | P0695-1500   |
| 160.0 | 135.5 | 8.1 | P0695-1600   |
| 170.0 | 145.5 | 8.1 | P0695-1700   |
| 180.0 | 155.5 | 8.1 | P0695-1800   |
| 190.0 | 165.5 | 8.1 | P0695-1900   |
| 200.0 | 175.5 | 8.1 | P0695-2000   |
| 210.0 | 185.5 | 8.1 | P0695-2100   |

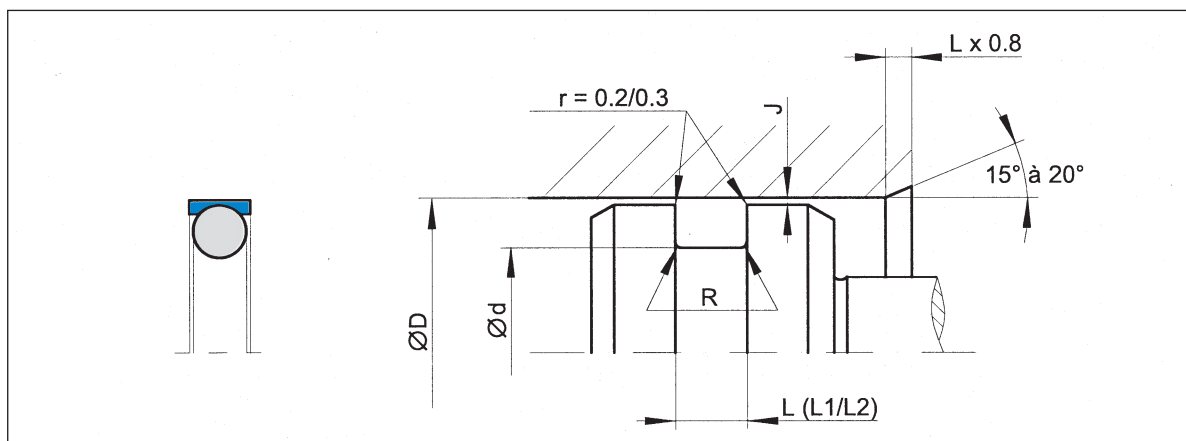
| ø D   | ø d   | L    | Code/Part N° |
|-------|-------|------|--------------|
| 220.0 | 195.5 | 8.1  | P0695-2200   |
| 230.0 | 205.5 | 8.1  | P0695-2300   |
| 240.0 | 215.5 | 8.1  | P0695-2400   |
| 250.0 | 225.5 | 8.1  | P0695-2500   |
| 260.0 | 232.0 | 9.5  | P0696-2600   |
| 270.0 | 242.0 | 9.5  | P0696-2700   |
| 280.0 | 252.0 | 9.5  | P0696-2800   |
| 290.0 | 262.0 | 9.5  | P0696-2900   |
| 300.0 | 272.0 | 9.5  | P0696-3000   |
| 310.0 | 282.0 | 9.5  | P0696-3100   |
| 320.0 | 292.0 | 9.5  | P0696-3200   |
| 330.0 | 302.0 | 9.5  | P0696-3300   |
| 340.0 | 312.0 | 9.5  | P0696-3400   |
| 350.0 | 322.0 | 9.5  | P0696-3500   |
| 360.0 | 332.0 | 9.5  | P0696-3600   |
| 370.0 | 342.0 | 9.5  | P0696-3700   |
| 380.0 | 352.0 | 9.5  | P0696-3800   |
| 390.0 | 362.0 | 9.5  | P0696-3900   |
| 400.0 | 372.0 | 9.5  | P0696-4000   |
| 410.0 | 382.0 | 9.5  | P0696-4100   |
| 420.0 | 392.0 | 9.5  | P0696-4200   |
| 430.0 | 402.0 | 9.5  | P0696-4300   |
| 440.0 | 412.0 | 9.5  | P0696-4400   |
| 450.0 | 422.0 | 9.5  | P0696-4500   |
| 460.0 | 432.0 | 9.5  | P0696-4600   |
| 470.0 | 435.0 | 11.5 | P0697-4700   |
| 480.0 | 445.0 | 11.5 | P0697-4800   |
| 490.0 | 455.0 | 11.5 | P0697-4900   |
| 500.0 | 465.0 | 11.5 | P0697-5000   |
| 510.0 | 475.0 | 11.5 | P0697-5100   |
| 520.0 | 485.0 | 11.5 | P0697-5200   |
| 530.0 | 495.0 | 11.5 | P0697-5300   |
| 540.0 | 505.0 | 11.5 | P0697-5400   |
| 550.0 | 515.0 | 11.5 | P0697-5500   |
| 560.0 | 525.0 | 11.5 | P0697-5600   |
| 570.0 | 535.0 | 11.5 | P0697-5700   |
| 580.0 | 545.0 | 11.5 | P0697-5800   |
| 590.0 | 555.0 | 11.5 | P0697-5900   |
| 600.0 | 565.0 | 11.5 | P0697-6000   |
| 700.0 | 665.0 | 11.5 | P0697-7000   |

Jusqu'à 3000 mm de diamètre / Up to 3000 mm diameter

Dimensions intermédiaires sur demande.  
 Other intermediate sizes on request.

**Exemple de commande / Ordering example :**





**SÉRIES AS568A / BS1706 ET SMS1586 - Données techniques communes**  
**AS568A / BS1706 and SMS1586 RANGES - Common technical datas**

**Conditions de Service**

**Pression de service :** jusqu'à 35 MPa (350 bar)  
**Vitesse :** Jusqu'à 15 m/s.  
**Fluide :** Tous fluides hydrauliques, air, eau...  
**Température :** -50°C à +200°C (suivant matériaux).

**Avantages**

Etanchéité double-effet.  
 Réduction optimale des frottements.  
 Dimensions de gorge réduites.  
 Montage dans gorge de joint torique.  
 Matériau pour fonctionnement à sec.

**Applications**

Vérins d'asservissement.  
 Servocommande (aéronautique).  
 Machines-outils.  
 Vannes.

**Matériaux standards**

**Bague :** P18 : PTFE modifié (bleu).  
**O-ring :** NBR 70 shores A - code matière : N.

**Autres matériaux**

**Bague :** P31 : PTFE chargé Carbone.  
 P41 : PTFE chargé fibres de Carbone.  
 P91 : PE.UHMW grade spécifique.  
**O-ring :** FKM 70 shores A - code matière : F.

**Operating conditions**

**Pressure :** up to 35 MPa (350 bar).  
**Speed :** up to 15 m/s.  
**Media :** all hydraulic fluids, air, water...  
**Temperature :** -50°C up to +200°C (depending on materials).

**Advantages**

Double acting effect.  
 Optimal low friction.  
 Groove reduction.  
 Setting up in O-ring groove.  
 Material for dry application.

**Applications**

Servo-control jacks.  
 Servomechanism (Aeronautic).  
 Machines-tools.  
 Valves.

**Standard materials**

**Ring :** P18 : Modified PTFE (blue).  
**O-ring :** NBR 70 shores A - material code : N.

**Other materials**

**Ring :** P31 : PTFE + Carbon filled.  
 P41 : PTFE + Carbon fibres filled.  
 P91 : UHMW.PE specific grade.  
**O-ring :** FKM 70 shores A - material code : F.

**Exemple de commande (séries AS, BS et SMS) / Ordering example : (AS, BS and SMS ranges)**

|                                                |       |      |     |   |
|------------------------------------------------|-------|------|-----|---|
| N° de série / Range N°                         | P8006 | 0200 | P18 | N |
| Ø alésage x 10 / Bore diameter x 10            |       |      |     |   |
| Code matière (bague) / Material code (ring)    |       |      |     |   |
| Code matière (O-ring) / Material code (O-ring) |       |      |     |   |

## SÉRIES AS568A - BS1706 ET SMS1586 / AS568 A - BS1706 RANGES

| N° de série<br>Range N° | O-ring<br>AS568A / BS1706 |                     | ØD H9         | Ød h9    | L<br>0/+0.2 | L1<br>0/+0.2 | L2<br>0/+0.2 | R    | Jeu radial<br>Radial gap<br>J* |
|-------------------------|---------------------------|---------------------|---------------|----------|-------------|--------------|--------------|------|--------------------------------|
|                         | Série/Range               | Tore /Cross section |               |          |             |              |              |      |                                |
| P8000                   | 000                       | 1.78                | 8.0 - 13.9    | D - 2.9  | 2.40        |              |              | 0.40 | 0.06                           |
| P8001                   | 100                       | 2.62                | 14.0 - 24.9   | D - 4.5  | 3.60        |              |              | 0.40 | 0.06                           |
| P8002                   | 200                       | 3.53                | 25.0 - 45.9   | D - 6.2  | 4.80        |              |              | 0.60 | 0.07                           |
| P8003                   | 300                       | 5.33                | 46.0 - 124.9  | D - 9.4  | 7.10        |              |              | 0.80 | 0.08                           |
| P8004                   | 400                       | 7.00                | 125.0 - 400.9 | D - 12.2 | 9.50        |              |              | 0.80 | 0.12                           |

|       |     |      |               |          |  |       |  |      |      |
|-------|-----|------|---------------|----------|--|-------|--|------|------|
| P8010 | 000 | 1.78 | 8.0 - 13.9    | D - 2.9  |  | 3.80  |  | 0.40 | 0.06 |
| P8011 | 100 | 2.62 | 14.0 - 24.9   | D - 4.5  |  | 4.65  |  | 0.40 | 0.06 |
| P8012 | 200 | 3.53 | 25.0 - 45.9   | D - 6.2  |  | 5.70  |  | 0.60 | 0.07 |
| P8013 | 300 | 5.33 | 46.0 - 124.9  | D - 9.4  |  | 8.50  |  | 0.80 | 0.08 |
| P8014 | 400 | 7.00 | 125.0 - 400.9 | D - 12.2 |  | 11.20 |  | 0.80 | 0.12 |

|       |     |      |               |          |  |  |       |      |      |
|-------|-----|------|---------------|----------|--|--|-------|------|------|
| P8020 | 000 | 1.78 | 8.0 - 13.9    | D - 2.9  |  |  | 5.30  | 0.40 | 0.06 |
| P8021 | 100 | 2.62 | 14.0 - 24.9   | D - 4.5  |  |  | 6.20  | 0.40 | 0.06 |
| P8022 | 200 | 3.53 | 25.0 - 45.9   | D - 6.2  |  |  | 7.70  | 0.60 | 0.07 |
| P8023 | 300 | 5.33 | 46.0 - 124.9  | D - 9.4  |  |  | 10.80 | 0.80 | 0.08 |
| P8024 | 400 | 7.00 | 125.0 - 400.9 | D - 12.2 |  |  | 14.70 | 0.80 | 0.12 |

L : Sans bague anti-extrusion      L : Without back-up ring.

L1 : Avec 1 bague anti-extrusion      L1 : With 1 back-up ring.

L2 : Avec 2 bagues anti-extrusion      L2 : With 2 back-up rings.

Choix de la série, nous consulter - J\* = jeu radial maxi.

For the selection of the range, please contact us - J\* = maxi radial gap.

## SÉRIE SMS1586 / SMS1586 RANGE

| N° de série<br>Range N° | O-ring<br>SMS |               | ØD H9 | Ød h9    | L<br>0/+0,2 | L1<br>0/+0,2 | L2<br>0/+0,2 | R    | Jeu radial<br>Radial gap<br>J* |
|-------------------------|---------------|---------------|-------|----------|-------------|--------------|--------------|------|--------------------------------|
| P8006                   | 2.4           | 8.0 - 24.9    |       | D - 4.0  | 3.20        |              |              | 0.50 | 0.06                           |
| P8007                   | 3.0           | 25.0 - 54.9   |       | D - 5.0  | 4.00        |              |              | 1.00 | 0.07                           |
| P8008                   | 5.7           | 55.0 - 159.9  |       | D - 10.0 | 7.50        |              |              | 1.00 | 0.08                           |
| P8009                   | 8.4           | 160.0 - 265.9 |       | D - 15.0 | 11.00       |              |              | 1.00 | 0.12                           |

|       |     |               |          |  |       |  |  |      |      |
|-------|-----|---------------|----------|--|-------|--|--|------|------|
| P8016 | 2.4 | 8.0 - 24.9    | D - 4.0  |  | 4.60  |  |  | 0.50 | 0.06 |
| P8017 | 3.0 | 25.0 - 54.9   | D - 5.0  |  | 5.40  |  |  | 1.00 | 0.07 |
| P8018 | 5.7 | 55.0 - 159.9  | D - 10.0 |  | 9.30  |  |  | 1.00 | 0.08 |
| P8019 | 8.4 | 160.0 - 265.9 | D - 15.0 |  | 13.20 |  |  | 1.00 | 0.12 |

|       |     |               |          |  |  |       |      |      |
|-------|-----|---------------|----------|--|--|-------|------|------|
| P8026 | 2.4 | 8.0 - 24.9    | D - 4.0  |  |  | 6.00  | 0.50 | 0.06 |
| P8027 | 3.0 | 25.0 - 54.9   | D - 5.0  |  |  | 6.80  | 1.00 | 0.07 |
| P8028 | 5.7 | 55.0 - 159.9  | D - 10.0 |  |  | 11.10 | 1.00 | 0.08 |
| P8029 | 8.4 | 160.0 - 265.9 | D - 15.0 |  |  | 15.4  | 1.00 | 0.12 |

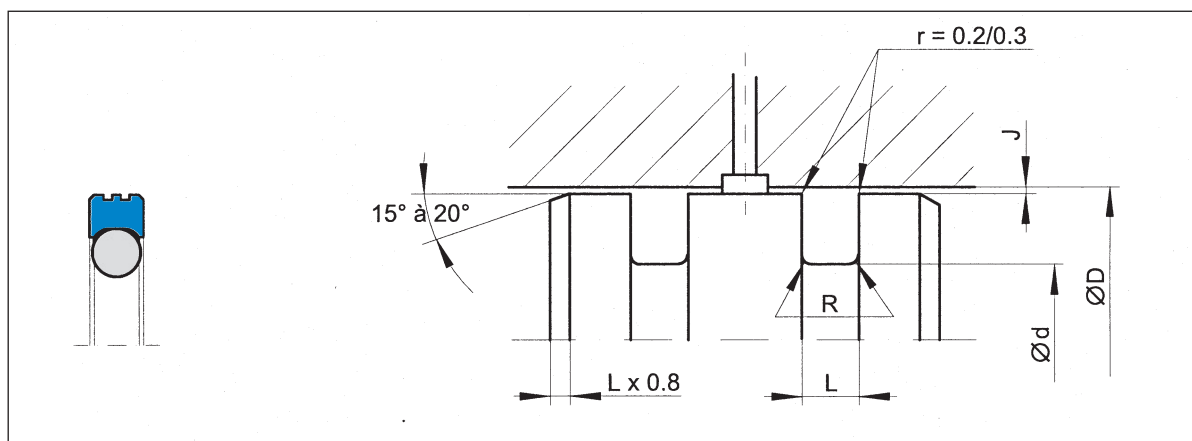
L : Sans bague anti-extrusion      L : Without back-up ring.

L1 : Avec 1 bague anti-extrusion      L1 : With 1 back-up ring.

L2 : Avec 2 bagues anti-extrusion      L2 : With 2 back-up rings.

Choix de la série, nous consulter - J\* = jeu radial maxi.

For the selection of the range, please contact us - J\* = maxi radial gap.



| N° de série<br>Range N° | ØD H9                            |                                  | Ød h9    | L<br>0/+0,2 | R   | Jeu radial/Radial gap<br>J <sub>maxi</sub> .* |                     | O-ring<br>Série<br>Range |
|-------------------------|----------------------------------|----------------------------------|----------|-------------|-----|-----------------------------------------------|---------------------|--------------------------|
|                         | Série standard<br>Standard range | Série possible<br>Extended range |          |             |     | 10 MPa<br>(100 bar)                           | 20 MPa<br>(200 bar) |                          |
| CPR00                   | 8.0 - 29.9                       | 8.0 - 135.0                      | D - 4.9  | 2.2         | 0.4 | 0.15                                          | 0.10                | 1.78                     |
| CPR01                   | 30.0 - 69.9                      | 14.0 - 250.0                     | D - 7.5  | 3.2         | 0.6 | 0.20                                          | 0.15                | 2.62                     |
| CPR02                   | 70.0 - 132.9                     | 22.0 - 460.0                     | D - 11.0 | 4.2         | 1.0 | 0.25                                          | 0.20                | 3.53                     |
| CPR03                   | 133.0 - 329.9                    | 40.0 - 675.0                     | D - 15.5 | 6.3         | 1.3 | 0.30                                          | 0.25                | 5.33                     |
| CPR04                   | 330.0 - 689.9                    | 133.0 - 690.0                    | D - 21.0 | 8.1         | 1.8 | 0.30                                          | 0.25                | 7.00                     |
| CPR05                   | 690.0 - 999.9                    | 670.0 - 999.9                    | D - 28.0 | 9.5         | 2.5 | 0.45                                          | 0.30                | 8.40                     |

\* Pour pression > 30 MPa, nous consulter. / At pressure > 30 MPa, please contact us.

#### Conditions de Service

**Pression de service** : jusqu'à 30 MPa (300 bar)

**Vitesse** : Jusqu'à 2 m/s (rotation).

**Fluide** : Tous fluides hydrauliques, air, eau...

**Température** : -50°C à +200°C (suivant matériaux).

#### Avantages

Étanchéité double-effet.

Faible frottement, pas de stick-slip.

Mouvement rotatif, hélicoïdal ou oscillant.

#### Applications

Jointes tournants.

Vérins rotatifs.

Distributeurs rotatifs.

Robots.

#### Matériaux standards

**Bague** : P41 : PTFE fibres de Carbone.  
P32 : PTFE chargé Carbone/Graphite.

**O-ring** : NBR 70 shores A - code matière : N.  
FKM 70 shores A - code matière : F.

#### Autres matériaux

**Bague** : P91 : PE.UHMW grade spécifique.

**O-ring** : EPDM 70 shores A - code matière : E.

#### Operating conditions

**Pressure** : up to 30 MPa (300 bar).

**Speed** : up to 2 m/s (rotation).

**Media** : all hydraulic fluids, air, water...

**Temperature** : -50°C up to +200°C (depending on materials).

#### Advantages

Double acting effect.

Low friction, no stick-slip effect.

Rotary, helical or oscillating movement.

#### Applications

Swivel seals.

Rotary actuators.

Rotary distributors.

Robotics.

#### Standard materials

**Ring** : P41 : PTFE + Carbon fibres filled.  
P32 : PTFE + Carbon/Graphite filled.

**O-ring** : NBR 70 shores A - material code : N.  
FKM 70 shores A - material code : F.

#### Other materials

**Ring** : P91 : UHMW.PE specific grade.

**O-ring** : EPDM 70 shores A - material code : E.

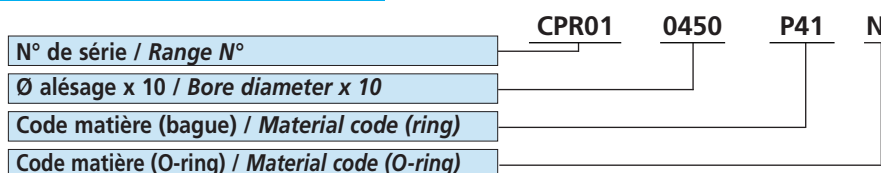
| ø D   | ø d   | L   | Code/Part N° |
|-------|-------|-----|--------------|
| 8.0   | 3.1   | 2.2 | CPR00-0080   |
| 10.0  | 5.1   | 2.2 | CPR00-0100   |
| 12.0  | 7.1   | 2.2 | CPR00-0120   |
| 14.0  | 9.1   | 2.2 | CPR00-0140   |
| 15.0  | 10.1  | 2.2 | CPR00-0150   |
| 16.0  | 11.1  | 2.2 | CPR00-0160   |
| 18.0  | 13.1  | 2.2 | CPR00-0180   |
| 20.0  | 15.1  | 2.2 | CPR00-0200   |
| 22.0  | 17.1  | 2.2 | CPR00-0220   |
| 25.0  | 20.1  | 2.2 | CPR00-0250   |
| 28.0  | 23.1  | 2.2 | CPR00-0280   |
| 30.0  | 22.5  | 3.2 | CPR01-0300   |
| 32.0  | 24.5  | 3.2 | CPR01-0320   |
| 35.0  | 27.5  | 3.2 | CPR01-0350   |
| 40.0  | 32.5  | 3.2 | CPR01-0400   |
| 42.0  | 34.5  | 3.2 | CPR01-0420   |
| 45.0  | 37.5  | 3.2 | CPR01-0450   |
| 48.0  | 40.5  | 3.2 | CPR01-0480   |
| 50.0  | 42.5  | 3.2 | CPR01-0500   |
| 52.0  | 44.5  | 3.2 | CPR01-0520   |
| 55.0  | 47.5  | 3.2 | CPR01-0550   |
| 60.0  | 52.5  | 3.2 | CPR01-0600   |
| 63.0  | 55.5  | 3.2 | CPR01-0630   |
| 65.0  | 57.5  | 3.2 | CPR01-0650   |
| 70.0  | 59.0  | 4.2 | CPR02-0700   |
| 75.0  | 64.0  | 4.2 | CPR02-0750   |
| 80.0  | 69.0  | 4.2 | CPR02-0800   |
| 85.0  | 74.0  | 4.2 | CPR02-0850   |
| 90.0  | 79.0  | 4.2 | CPR02-0900   |
| 95.0  | 84.0  | 4.2 | CPR02-0950   |
| 100.0 | 89.0  | 4.2 | CPR02-1000   |
| 105.0 | 94.0  | 4.2 | CPR02-1050   |
| 110.0 | 99.0  | 4.2 | CPR02-1100   |
| 115.0 | 104.0 | 4.2 | CPR02-1150   |
| 120.0 | 109.0 | 4.2 | CPR02-1200   |
| 125.0 | 114.0 | 4.2 | CPR02-1250   |
| 130.0 | 119.0 | 4.2 | CPR02-1300   |
| 135.0 | 119.5 | 6.3 | CPR03-1350   |
| 140.0 | 124.5 | 6.3 | CPR03-1400   |
| 150.0 | 134.5 | 6.3 | CPR03-1500   |
| 160.0 | 144.5 | 6.3 | CPR03-1600   |
| 170.0 | 154.5 | 6.3 | CPR03-1700   |
| 180.0 | 164.5 | 6.3 | CPR03-1800   |
| 190.0 | 174.5 | 6.3 | CPR03-1900   |
| 200.0 | 184.5 | 6.3 | CPR03-2000   |

| ø D   | ø d   | L   | Code/Part N° |
|-------|-------|-----|--------------|
| 210.0 | 194.5 | 6.3 | CPR03-2100   |
| 220.0 | 204.5 | 6.3 | CPR03-2200   |
| 230.0 | 214.5 | 6.3 | CPR03-2300   |
| 240.0 | 224.5 | 6.3 | CPR03-2400   |
| 250.0 | 234.5 | 6.3 | CPR03-2500   |
| 260.0 | 244.5 | 6.3 | CPR03-2600   |
| 270.0 | 254.5 | 6.3 | CPR03-2700   |
| 280.0 | 264.5 | 6.3 | CPR03-2800   |
| 290.0 | 274.5 | 6.3 | CPR03-2900   |
| 300.0 | 284.5 | 6.3 | CPR03-3000   |
| 310.0 | 294.5 | 6.3 | CPR03-3100   |
| 320.0 | 304.5 | 6.3 | CPR03-3200   |
| 330.0 | 309.0 | 8.1 | CPR04-3300   |
| 340.0 | 319.0 | 8.1 | CPR04-3400   |
| 350.0 | 329.0 | 8.1 | CPR04-3500   |
| 360.0 | 339.0 | 8.1 | CPR04-3600   |
| 370.0 | 349.0 | 8.1 | CPR04-3700   |
| 380.0 | 359.0 | 8.1 | CPR04-3800   |
| 390.0 | 369.0 | 8.1 | CPR04-3900   |
| 400.0 | 379.0 | 8.1 | CPR04-4000   |
| 410.0 | 389.0 | 8.1 | CPR04-4100   |
| 420.0 | 399.0 | 8.1 | CPR04-4200   |
| 430.0 | 409.0 | 8.1 | CPR04-4300   |
| 440.0 | 419.0 | 8.1 | CPR04-4400   |
| 450.0 | 429.0 | 8.1 | CPR04-4500   |
| 460.0 | 439.0 | 8.1 | CPR04-4600   |
| 470.0 | 449.0 | 8.1 | CPR04-4700   |
| 480.0 | 459.0 | 8.1 | CPR04-4800   |
| 490.0 | 469.0 | 8.1 | CPR04-4900   |
| 500.0 | 479.0 | 8.1 | CPR04-5000   |
| 510.0 | 489.0 | 8.1 | CPR04-5100   |
| 520.0 | 499.0 | 8.1 | CPR04-5200   |
| 530.0 | 509.0 | 8.1 | CPR04-5300   |
| 540.0 | 519.0 | 8.1 | CPR04-5400   |
| 550.0 | 529.0 | 8.1 | CPR04-5500   |
| 560.0 | 539.0 | 8.1 | CPR04-5600   |
| 570.0 | 549.0 | 8.1 | CPR04-5700   |
| 580.0 | 559.0 | 8.1 | CPR04-5800   |
| 590.0 | 569.0 | 8.1 | CPR04-5900   |
| 600.0 | 579.0 | 8.1 | CPR04-6000   |
| 700.0 | 672.0 | 9.5 | CPR05-7000   |
| 800.0 | 772.0 | 9.5 | CPR05-8000   |
| 900.0 | 872.0 | 9.5 | CPR05-9000   |

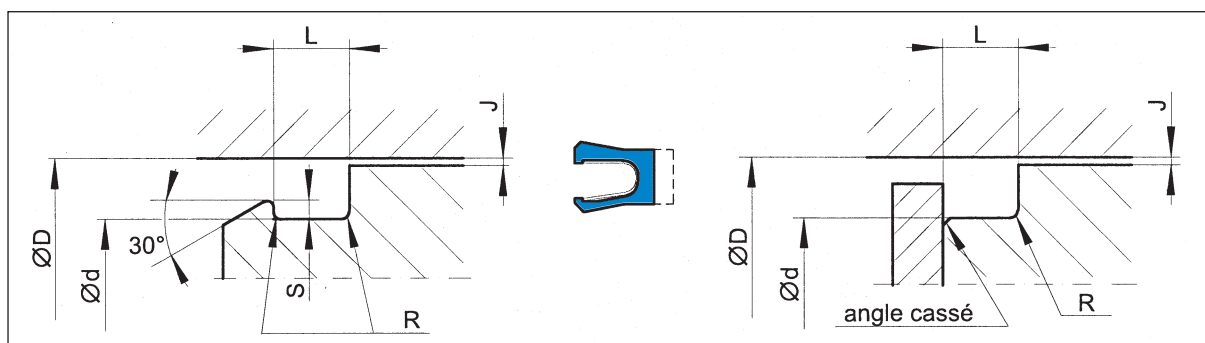
Jusqu'à 3000 mm de diamètre / Up to 3000 mm diameter

Dimensions intermédiaires sur demande.  
 Other intermediate sizes on request.

**Exemple de commande / Ordering example :**







P606X - Profil standard / standard profile - P607X - Talon renforcé / Reinforced back

| N° série<br>Range<br>N° | Type | Alésage / Bore diameter<br>D H9  |                                  | Ød h9    | L<br>0/+0,2 | Gorge<br>semi-ouverte<br>Open Groove<br>S | R<br>maxi. | Jeu radial / Radial gap<br>J. maxi |                     |
|-------------------------|------|----------------------------------|----------------------------------|----------|-------------|-------------------------------------------|------------|------------------------------------|---------------------|
|                         |      | Série standard<br>Standard Range | Série possible<br>Extended range |          |             |                                           |            | 20 MPa<br>(200 bar)                | 40 MPa<br>(400 bar) |
| P6060                   | 000  | 6.0 - 13.9                       | 6.0 - 40.0                       | D - 2.9  | 2.40        | 0.4                                       | 0.4        | 0.08                               | 0.06                |
| P6070                   |      |                                  |                                  |          | 3.80        |                                           |            |                                    |                     |
| P6061                   | 100  | 14.0 - 24.9                      | 13.0 - 200.0                     | D - 4.5  | 3.60        | 0.6                                       | 0.6        | 0.10                               | 0.08                |
| P6071                   |      |                                  |                                  |          | 4.65        |                                           |            |                                    |                     |
| P6062                   | 200  | 25.0 - 45.9                      | 16.0 - 400.0                     | D - 6.2  | 4.80        | 0.7                                       | 0.7        | 0.15                               | 0.08                |
| P6072                   |      |                                  |                                  |          | 5.70        |                                           |            |                                    |                     |
| P6063                   | 300  | 46.0 - 124.9                     | 28.0 - 700.0                     | D - 9.4  | 7.10        | 0.8                                       | 0.8        | 0.20                               | 0.10                |
| P6073                   |      |                                  |                                  |          | 8.50        |                                           |            |                                    |                     |
| P6064                   | 400  | 125.0 - 999.9                    | 45.0 - 999.9                     | D - 12.2 | 9.50        | 0.9                                       | 0.8        | 0.25                               | 0.12                |
| P6074                   |      |                                  |                                  |          | 11.20       |                                           |            |                                    |                     |

(\*) Pression > 40 MPa, J maxi = H8 f8. Pour pression > 80 MPa, nous consulter.

(\*) At pressure > 40 MPa, J maxi = H8 f8. At pressure > 80 MPa, please contact us.

**ATTENTION :** La température a une incidence sur la tenue en pression. Nous consulter pour le jeu J maxi à utiliser.

**CAUTION :** The temperature has an impact on the extrusion gap. Please contact us to define the max gap.

\* Dimensions spécifiques sur demande. Specific sizes on request.

### Conditions de Service

**Pression de service :** jusqu'à 45 MPa (450 bar)

**Vitesse :** Jusqu'à 15 m/s.

**Fluide :** Pratiquement tous types, chimiques et gaz.

**Température :** -70°C à +260°C (selon matériaux).

### Avantages

Très faible coefficient de frottement.

Pas de stick-slip.

Excellent effet de raclage.

Haute résistance à l'abrasion.

FDA, stérilisable.

### Applications

Vannes.

Pompes.

Vérins.

Equipement de dosage.

### Matériaux standards

**Bague :** P41 : PTFE fibres de Carbone.  
P18 : PTFE modifié (bleu).  
P91 : PE.UHMW grade spécifique.

**Ressort :** Acier inoxydable AISI301 - code matière : S.

### Autres matériaux

**Joint :** P31 : PTFE chargé Carbone.  
P12 : PTFE chargé Ekonol.

**Ressort :** Hastelloy® - Code matière : H  
Elgiloy® - Code matière : E.

### Operating conditions

**Pressure :** up to 45 MPa (450 bar).

**Speed :** up to 15 m/s.

**Media :** Pratically all fluids, chemical, fluids and gas.

**Temperature :** -70°C up to +260°C (regarding materials).

### Advantages

Very low friction coefficient.

No stick-slip effect.

Excellent scraping effect.

High abrasion resistance.

FDA, can be sterilized.

### Applications

Valves.

Pumps.

Actuators.

Dosing devices.

### Standard materials

**Ring :** P41 : PTFE + Carbon fibres filled.  
P18 : Modified PTFE (blue).  
P91 : UHMW.PE specific grade.

**Spring :** Stainless steel AISI301 - material code : S.

### Other materials

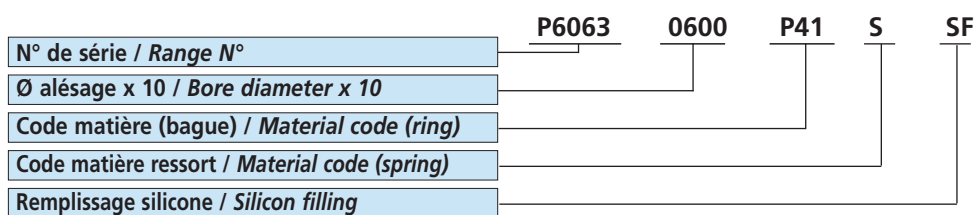
**Seal :** P31 : PTFE + Carbon filled.  
P12 : PTFE + Ekonol filled.

**Spring :** Hastelloy® - Material Code : H  
Elgiloy® - Material Code : E.

| ø D  | ø d  | L   | Code/Part N° |
|------|------|-----|--------------|
| 6.0  | 3.1  | 2.4 | P6060-0060   |
| 8.0  | 5.1  | 2.4 | P6060-0080   |
| 10.0 | 7.1  | 2.4 | P6060-0100   |
| 12.0 | 9.1  | 2.4 | P6060-0120   |
| 14.0 | 9.5  | 3.6 | P6061-0140   |
| 15.0 | 10.5 | 3.6 | P6061-0150   |
| 16.0 | 11.5 | 3.6 | P6061-0160   |
| 18.0 | 13.5 | 3.6 | P6061-0180   |
| 20.0 | 15.5 | 3.6 | P6061-0200   |
| 22.0 | 17.5 | 3.6 | P6061-0220   |
| 25.0 | 18.8 | 4.8 | P6062-0250   |
| 28.0 | 21.8 | 4.8 | P6062-0380   |
| 30.0 | 23.8 | 4.8 | P6062-0300   |
| 32.0 | 25.8 | 4.8 | P6062-0320   |
| 35.0 | 28.8 | 4.8 | P6062-0350   |
| 40.0 | 33.8 | 4.8 | P6062-0400   |
| 42.0 | 35.8 | 4.8 | P6062-0420   |
| 45.0 | 38.8 | 4.8 | P6062-0450   |
| 48.0 | 38.6 | 7.1 | P6063-0480   |
| 50.0 | 40.6 | 7.1 | P6063-0500   |
| 52.0 | 42.6 | 7.1 | P6063-0520   |
| 55.0 | 45.6 | 7.1 | P6063-0550   |
| 56.0 | 46.6 | 7.1 | P6063-0560   |
| 60.0 | 50.6 | 7.1 | P6063-0600   |
| 63.0 | 53.6 | 7.1 | P6063-0630   |
| 65.0 | 55.6 | 7.1 | P6063-0650   |
| 70.0 | 60.6 | 7.1 | P6063-0700   |
| 75.0 | 65.6 | 7.1 | P6063-0750   |
| 80.0 | 70.6 | 7.1 | P6063-0800   |
| 85.0 | 75.6 | 7.1 | P6063-0850   |

| ø D   | ø d   | L   | Code/Part N° |
|-------|-------|-----|--------------|
| 90.0  | 80.6  | 7.1 | P6063-0900   |
| 95.0  | 85.6  | 7.1 | P6063-0950   |
| 100.0 | 90.6  | 7.1 | P6063-1000   |
| 110.0 | 100.6 | 7.1 | P6063-1100   |
| 115.0 | 105.6 | 7.1 | P6063-1150   |
| 120.0 | 110.6 | 7.1 | P6063-1200   |
| 125.0 | 112.8 | 9.5 | P6064-1250   |
| 130.0 | 117.8 | 9.5 | P6064-1300   |
| 135.0 | 122.8 | 9.5 | P6064-1350   |
| 140.0 | 127.8 | 9.5 | P6064-1400   |
| 150.0 | 137.8 | 9.5 | P6064-1500   |
| 160.0 | 147.8 | 9.5 | P6064-1600   |
| 170.0 | 157.8 | 9.5 | P6064-1700   |
| 180.0 | 167.8 | 9.5 | P6064-1800   |
| 190.0 | 177.8 | 9.5 | P6064-1900   |
| 200.0 | 187.8 | 9.5 | P6064-2000   |
| 210.0 | 197.8 | 9.5 | P6064-2100   |
| 220.0 | 207.8 | 9.5 | P6064-2200   |
| 230.0 | 217.8 | 9.5 | P6064-2300   |
| 240.0 | 227.8 | 9.5 | P6064-2400   |
| 250.0 | 237.8 | 9.5 | P6064-2500   |
| 280.0 | 267.8 | 9.5 | P6064-2800   |
| 300.0 | 287.8 | 9.5 | P6064-3000   |
| 320.0 | 307.8 | 9.5 | P6064-3200   |
| 350.0 | 337.8 | 9.5 | P6064-3500   |
| 400.0 | 387.8 | 9.5 | P6064-4000   |
| 420.0 | 407.8 | 9.5 | P6064-4200   |
| 450.0 | 437.8 | 9.5 | P6064-4500   |
| 480.0 | 467.8 | 9.5 | P6064-4800   |
| 500.0 | 487.8 | 9.5 | P6064-5000   |

**Exemple de commande : / Ordering example :**



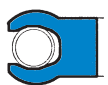
**Autres variantes / Other possibilities :**

**Type V**



P600X - Profil standard / Standard profile  
P601X - Talon renforcé / Reinforced back

**Type H**

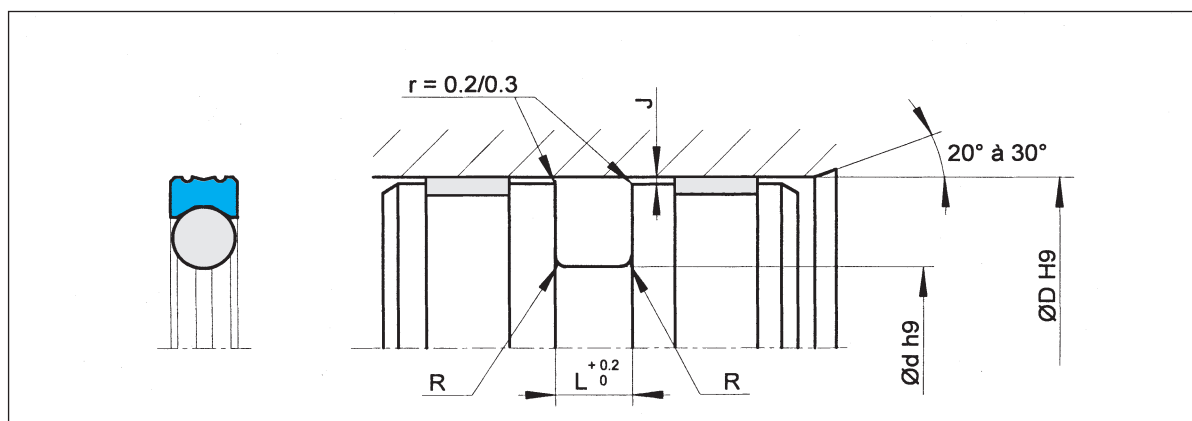


P620X - Profil standard / Standard profile  
P621X - Talon renforcé / Reinforced back

**Statique / Static**



P660X - Profil standard / Standard profile  
P661X - Talon renforcé / Reinforced back



| N° de série<br>Range N° | ØD H9         | Ød h9    | L<br>0/+0.2 | R   | Jeu radial / Radial gap<br>J maxi*<br>40 MPa (400 bar) |
|-------------------------|---------------|----------|-------------|-----|--------------------------------------------------------|
| DW021                   | 25.0 - 79.9   | D - 11.0 | 4.2         | 0.8 | 0.25                                                   |
| DW022                   | 80.0 - 132.9  | D - 15.5 | 6.3         | 1.2 | 0.30                                                   |
| DW023                   | 133.0 - 329.9 | D - 21.0 | 8.1         | 1.5 | 0,30                                                   |
| DW024                   | 330.0 - 500.0 | D - 24.5 | 8.1         | 1.7 | 0.35                                                   |

(\*) Pression > 40 MPa, nous consulter. / At pressure > 40 MPa, please contact us.  
 Choix de la série en fonction des conditions de service, nous consulter.  
 For the selection of the range according to working conditions, please contact us.

#### Conditions de Service

**Pression de service :** jusqu'à 40 MPa (400 bar)  
**Vitesse :** Jusqu'à 1 m/s.  
**Température :** -30°C à +110°C.  
**Fluide :** HL, HLP, autres fluides selon température.  
 Dimensions selon ISO 7425/1.

#### Avantages

Etanchéité double effet.  
 Haut niveau d'étanchéité.  
 Excellente résistance à l'extrusion.  
 Excellente résistance à l'abrasion.  
 Faible usure, longue durée de vie.  
 Maintien en pression, maintien en position.  
 Faible frottement.

#### Applications

Hydraulique mobile.  
 Hydraulique agricole.  
 Mini engins de T.P.  
 Matériel de levage.  
 Centrale hydroélectrique.

#### Matériaux standards

**Bague :** P801 : Polyuréthane 70 shores D.  
**O-ring :** NBR 70 shores A - code matière : N.

#### Operating conditions

**Pressure :** up to 40 MPa (400 bar).  
**Speed :** up to 1 m/s.  
**Temperature :** -30°C up to +110°C (depending on materials).  
**Media :** HL, HLP, other fluids according to temperature.  
 Sizes according to ISO 7425/1.

#### Advantages

Double acting effect.  
 High sealing level.  
 High extrusion resistance.  
 High abrasion resistance.  
 Low wear, long service life.  
 Maintain in pressure, maintain in position.  
 Low friction.

#### Applications

Mobile hydraulic.  
 Equipment farm machinery.  
 Mini excavators.  
 Handling equipment.  
 Hydro-electric power station.

#### Standard materials

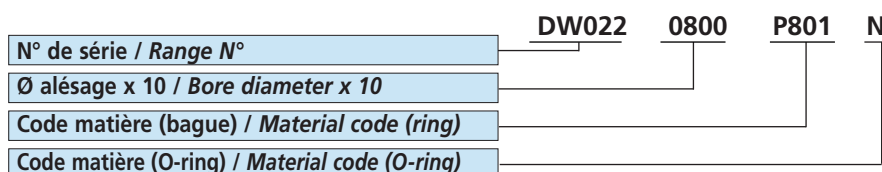
**Ring :** P801 : Polyurethane 70 shore D.  
**O-ring :** NBR 70 shores A - material code : N.

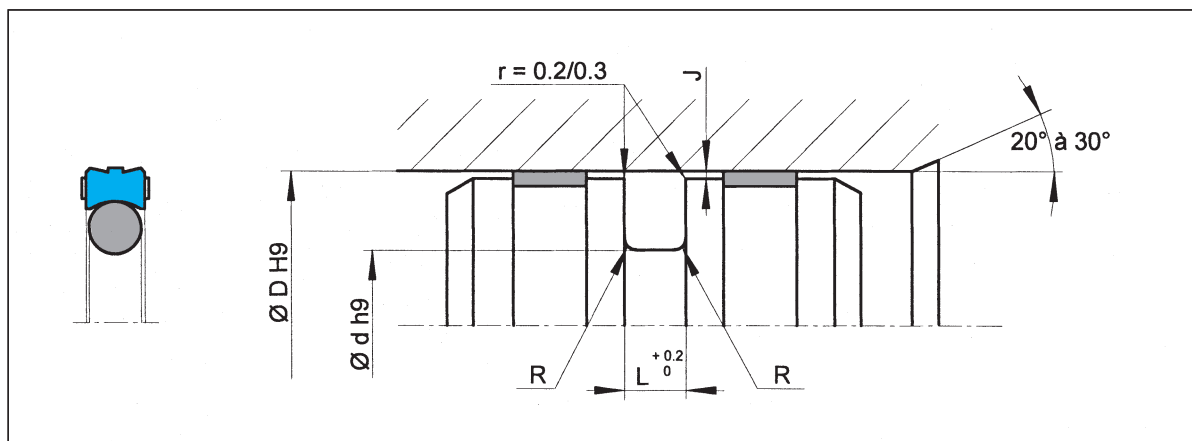
| ø D   | ø d   | L   | Code/Part N° |
|-------|-------|-----|--------------|
| 25.0  | 14.0  | 4.2 | DW021-0250   |
| 28.0  | 17.0  | 4.2 | DW021-0280   |
| 30.0  | 19.0  | 4.2 | DW021-0300   |
| 32.0  | 21.0  | 4.2 | DW021-0320   |
| 40.0  | 29.0  | 4.2 | DW021-0400   |
| 45.0  | 34.0  | 4.2 | DW021-0450   |
| 50.0  | 39.0  | 4.2 | DW021-0500   |
| 60.0  | 49.0  | 4.2 | DW021-0600   |
| 63.0  | 52.0  | 4.2 | DW021-0630   |
| 65.0  | 54.0  | 4.2 | DW021-0650   |
| 70.0  | 59.0  | 4.2 | DW021-0700   |
| 80.0  | 64.5  | 6.3 | DW022-0800   |
| 85.0  | 69.5  | 6.3 | DW022-0850   |
| 90.0  | 74.5  | 6.3 | DW022-0900   |
| 95.0  | 79.5  | 6.3 | DW022-0950   |
| 100.0 | 84.5  | 6.3 | DW022-1000   |
| 110.0 | 94.5  | 6.3 | DW022-1100   |
| 120.0 | 104.5 | 6.3 | DW022-1200   |
| 125.0 | 109.5 | 6.3 | DW022-1250   |
| 130.0 | 114.5 | 6.3 | DW022-1300   |
| 140.0 | 119.0 | 8.1 | DW023-1400   |
| 150.0 | 129.0 | 8.1 | DW023-1500   |
| 160.0 | 139.0 | 8.1 | DW023-1600   |
| 170.0 | 149.0 | 8.1 | DW023-1700   |
| 180.0 | 159.0 | 8.1 | DW023-1800   |
| 190.0 | 169.0 | 8.1 | DW023-1900   |
| 200.0 | 179.0 | 8.1 | DW023-2000   |
| 210.0 | 189.0 | 8.1 | DW023-2100   |
| 220.0 | 199.0 | 8.1 | DW023-2200   |

| ø D          | ø d          | L          | Code/Part N°      |
|--------------|--------------|------------|-------------------|
| 230.0        | 209.0        | 8.1        | DW023-2300        |
| 240.0        | 219.0        | 8.1        | DW023-2400        |
| <b>250.0</b> | <b>229.0</b> | <b>8.1</b> | <b>DW023-2500</b> |
| 260.0        | 239.0        | 8.1        | DW023-2600        |
| 270.0        | 249.0        | 8.1        | DW023-2700        |
| 280.0        | 259.0        | 8.1        | DW023-2800        |
| 290.0        | 269.0        | 8.1        | DW023-2900        |
| 300.0        | 279.0        | 8.1        | DW023-3000        |
| 310.0        | 289.0        | 8.1        | DW023-3100        |
| <b>320.0</b> | <b>299.0</b> | <b>8.1</b> | <b>DW023-3200</b> |
| 330.0        | 305.5        | 8.1        | DW024-3300        |
| 340.0        | 315.5        | 8.1        | DW024-3400        |
| 350.0        | 325.5        | 8.1        | DW024-3500        |
| 360.0        | 335.5        | 8.1        | DW024-3600        |
| 370.0        | 345.5        | 8.1        | DW024-3700        |
| 380.0        | 355.5        | 8.1        | DW024-3800        |
| 390.0        | 365.5        | 8.1        | DW024-3900        |
| <b>400.0</b> | <b>375.5</b> | <b>8.1</b> | <b>DW024-4000</b> |
| 410.0        | 385.5        | 8.1        | DW024-4100        |
| 420.0        | 395.5        | 8.1        | DW024-4200        |
| 430.0        | 405.5        | 8.1        | DW024-4300        |
| 440.0        | 415.5        | 8.1        | DW024-4400        |
| 450.0        | 425.5        | 8.1        | DW024-4500        |
| 460.0        | 435.5        | 8.1        | DW024-4600        |
| 470.0        | 445.5        | 8.1        | DW024-4700        |
| 480.0        | 455.5        | 8.1        | DW024-4800        |
| 490.0        | 465.5        | 8.1        | DW024-4900        |
| <b>500.0</b> | <b>475.5</b> | <b>8.1</b> | <b>DW024-5000</b> |

Dimensions en gras : référentiel ISO 7425/1.  
Sizes in bold type : as ISO 7425/1 groove.

Exemple de commande / Ordering example :





| N° de série<br>Range N° | ØD H9         | Ød h9    | L<br>0/+0.2 | R   | Jeu radial / Radial gap<br>J maxi*<br>25 MPa (250 bar) |
|-------------------------|---------------|----------|-------------|-----|--------------------------------------------------------|
| CPW01                   | 20.0 - 39.9   | D - 7.5  | 3.2         | 0.6 | 0.25                                                   |
| CPW02                   | 40.0 - 79.9   | D - 11.0 | 4.2         | 1.0 | 0.25                                                   |
| CPW03                   | 80.0 - 134.9  | D - 15.5 | 6.3         | 1.3 | 0.30                                                   |
| CPW04                   | 135.0 - 250.0 | D - 21.0 | 8.1         | 1.8 | 0.30                                                   |

(\*) Pression > 25 MPa, nous consulter. / At pressure > 25 MPa, please contact us.  
 Choix de la série en fonction des conditions de service, nous consulter.  
 For the selection of the range according to working conditions, please contact us.

#### Conditions de Service

**Pression de service :** jusqu'à 25 MPa (250 bar)  
**Vitesse :** Jusqu'à 0.8 m/s.  
**Température :** -30°C à +100°C.  
**Fluide :** HL, HLP, autres fluides selon température.  
 Dimensions selon ISO 7425/1.

#### Avantages

Étanchéité double effet.  
 Bonne étanchéité statique et dynamique.  
 Facilité d'installation.

#### Applications

Hydraulique mobile.  
 Hydraulique agricole.  
 Matériel de levage.  
 Machines-outils.

#### Matériaux standards

**Bague :** AU : Polyuréthane 94 shores A.  
**O-ring :** NBR 70 shores A - code matière : N.

#### Operating conditions

**Pressure :** up to 25 MPa (250 bar).  
**Speed :** up to 0.8 m/s.  
**Temperature :** -30°C up to +100°C.  
**Media :** HL, HLP, other fluids according to temperature.  
 Sizes according to ISO 7425/1.

#### Advantages

Double acting effect.  
 Good static and dynamic sealing.  
 Easy to install.

#### Applications

Mobile hydraulic.  
 Equipment Farm machinery.  
 Handling equipments.  
 Machines tools.

#### Standard materials

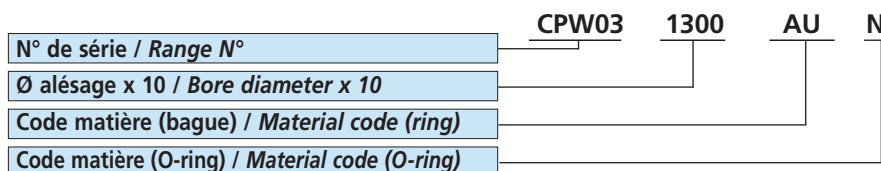
**Ring :** AU : Polyurethane 94 shores A.  
**O-ring :** NBR 70 shores A - material code : N.

| ø D  | ø d  | L   | Code/Part N° |
|------|------|-----|--------------|
| 20.0 | 12.5 | 3.2 | CPW01-0200   |
| 25.0 | 17.5 | 3.2 | CPW01-0250   |
| 25.0 | 14.0 | 4.2 | CPW02-0250   |
| 30.0 | 22.5 | 3.2 | CPW01-0300   |
| 32.0 | 24.5 | 3.2 | CPW01-0320   |
| 32.0 | 21.0 | 4.2 | CPW02-0320   |
| 35.0 | 27.5 | 3.2 | CPW01-0350   |
| 35.0 | 24.0 | 4.2 | CPW02-0350   |
| 36.0 | 28.5 | 3.2 | CPW01-0360   |
| 40.0 | 29.0 | 4.2 | CPW02-0400   |
| 40.0 | 24.5 | 6.3 | CPW03-0400   |
| 45.0 | 29.5 | 6.3 | CPW03-0450   |
| 45.0 | 34.0 | 4.2 | CPW02-0450   |
| 50.0 | 34.5 | 6.3 | CPW03-0500   |
| 50.0 | 39.0 | 4.2 | CPW02-0500   |
| 55.0 | 44.0 | 4.2 | CPW02-0550   |
| 55.0 | 39.5 | 6.3 | CPW03-0550   |
| 60.0 | 44.5 | 6.3 | CPW03-0600   |
| 60.0 | 49.0 | 4.2 | CPW02-0600   |
| 63.0 | 52.0 | 4.2 | CPW02-0630   |
| 63.0 | 47.5 | 6.3 | CPW03-0630   |
| 65.0 | 54.0 | 4.2 | CPW02-0650   |
| 65.0 | 49.5 | 6.3 | CPW03-0650   |
| 70.0 | 59.0 | 4.2 | CPW02-0700   |
| 70.0 | 54.5 | 6.3 | CPW03-0700   |
| 75.0 | 64.0 | 4.2 | CPW02-0750   |

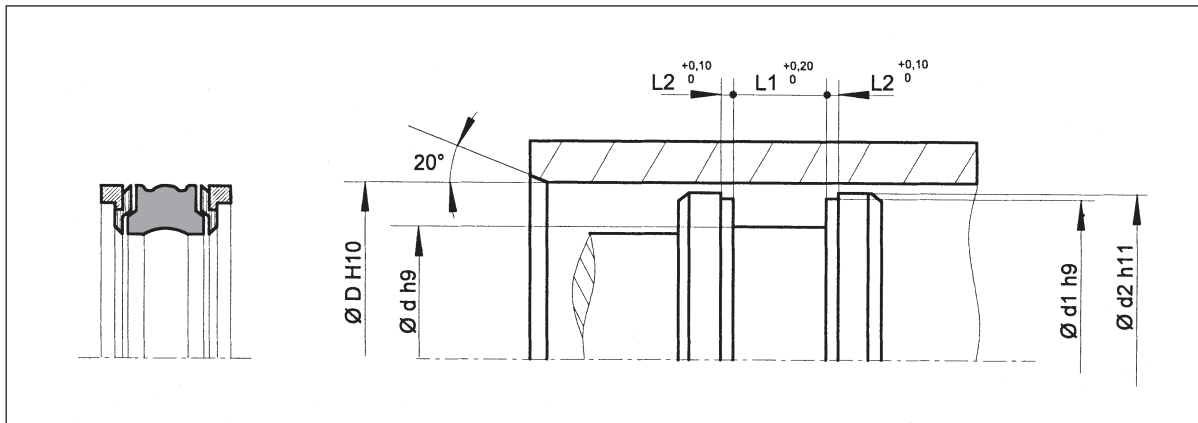
| ø D   | ø d   | L   | Code/Part N° |
|-------|-------|-----|--------------|
| 75.0  | 59.5  | 6.3 | CPW03-0750   |
| 80.0  | 69.0  | 4.2 | CPW02-0800   |
| 80.0  | 64.5  | 6.3 | CPW03-0800   |
| 85.0  | 69.5  | 6.3 | CPW03-0850   |
| 90.0  | 74.5  | 6.3 | CPW03-0900   |
| 100.0 | 84.5  | 6.3 | CPW03-1000   |
| 110.0 | 94.5  | 6.3 | CPW03-1100   |
| 120.0 | 104.5 | 6.3 | CPW03-1200   |
| 125.0 | 109.5 | 6.3 | CPW03-1250   |
| 125.0 | 104.0 | 8.1 | CPW04-1250   |
| 130.0 | 114.5 | 6.3 | CPW03-1300   |
| 135.0 | 114.0 | 8.1 | CPW04-1350   |
| 140.0 | 119.0 | 8.1 | CPW04-1400   |
| 145.0 | 124.0 | 8.1 | CPW04-1450   |
| 150.0 | 129.0 | 8.1 | CPW04-1500   |
| 160.0 | 139.0 | 8.1 | CPW04-1600   |
| 170.0 | 149.0 | 8.1 | CPW04-1700   |
| 180.0 | 159.0 | 8.1 | CPW04-1800   |
| 185.0 | 164.0 | 8.1 | CPW04-1850   |
| 190.0 | 169.0 | 8.1 | CPW04-1900   |
| 200.0 | 179.0 | 8.1 | CPW04-2000   |
| 210.0 | 189.0 | 8.1 | CPW04-2100   |
| 220.0 | 199.0 | 8.1 | CPW04-2200   |
| 230.0 | 209.0 | 8.1 | CPW04-2300   |
| 240.0 | 219.0 | 8.1 | CPW04-2400   |
| 250.0 | 229.0 | 8.1 | CPW04-2500   |

Dimensions en gras : référentiel ISO 7425/1.  
Sizes in bold type : as ISO 7425/1 groove.

#### Exemple de commande / Ordering example :







#### Conditions de Service

**Pression de service** : jusqu'à 40 MPa (400 bar)  
**Vitesse** : Jusqu'à 0.5 m/s.  
**Fluide** : huile minérale.  
**Température** : -30°C à +100°C.

#### Avantages

Joint économique.  
 Excellente étanchéité.  
 Triple fonction : étanchéité, anti-extrusion et guidage.  
 Montage aisé.

#### Applications

Mini engins de T.P.  
 Applications hydrauliques moyennes et légères.  
 Matériel de levage.

#### Matériaux standards

Éléments d'étanchéité en NBR.  
 Bagues de support en Hytrel.  
 Bagues de guidage en P.O.M.

#### Autres matériaux

Éléments d'étanchéité en FKM.  
 Bagues de support en PTFE chargé.  
 Bagues de guidage en Repkot.

#### Operating conditions

**Pressure** : up to 40 MPa (400 bar).  
**Speed** : up to 0.5 m/s.  
**Media** : mineral oil.  
**Temperature** : -30°C up to +100°C.

#### Advantages

Economical seal.  
 High sealing efficiency.  
 Three functions : sealing, back-up and guide-ring.  
 Easy installation.

#### Applications

Mini excavators.  
 Medium and light hydraulic applications.  
 Handling equipment.

#### Standard materials

Sealing elements in NBR.  
 Support rings in Hytrel.  
 Guide rings in P.O.M.

#### Other materials

Sealing elements in FKM.  
 Support rings in filled PTFE.  
 Guide rings in Repkot.

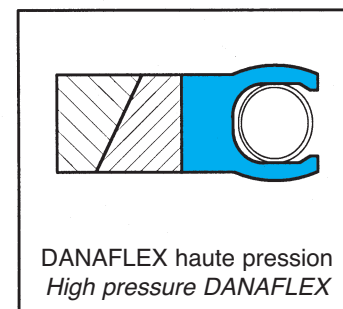
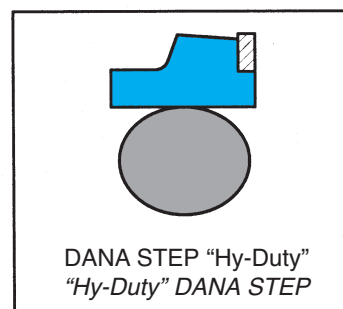
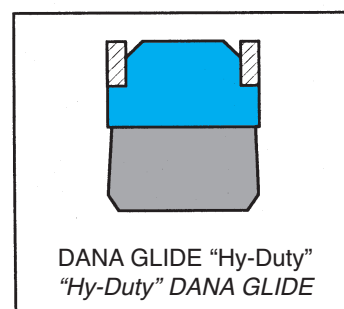
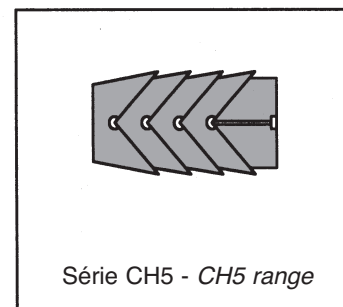
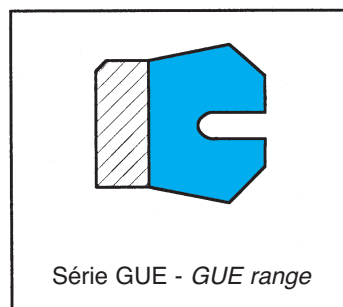
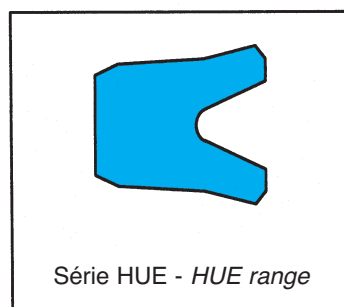
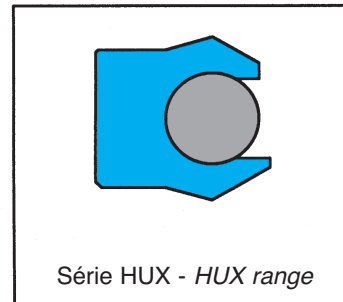
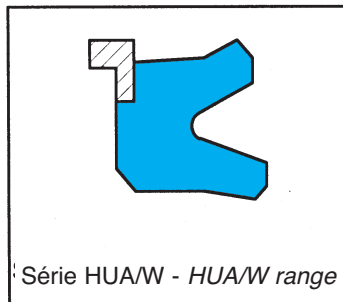
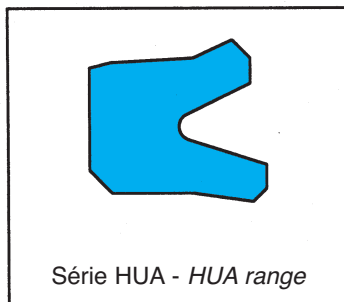
| ø D          | ø d         | L1          | L2         | d1            | d2            | Code/Part. N°      |
|--------------|-------------|-------------|------------|---------------|---------------|--------------------|
| 25.0         | 15.0        | 12.5        | 4.0        | 22.00         | 24.00         | PMT2501NHA         |
| <b>25.0</b>  | <b>15.0</b> | <b>16.3</b> | <b>6.4</b> | <b>21.40</b>  | <b>23.50</b>  | <b>PMT2502NHA</b>  |
| 32.0         | 22.0        | 12.5        | 4.0        | 29.00         | 31.00         | PMT3201NHA         |
| <b>32.0</b>  | <b>22.0</b> | <b>16.3</b> | <b>6.4</b> | <b>28.50</b>  | <b>30.50</b>  | <b>PMT3202NHA</b>  |
| 32.0         | 24.0        | 10.0        | 4.0        | 29.00         | 31.00         | PMT3203NHA         |
| <b>35.0</b>  | <b>25.0</b> | <b>16.3</b> | <b>6.4</b> | <b>31.40</b>  | <b>33.50</b>  | <b>PMT3501NHA</b>  |
| 40.0         | 24.0        | 18.3        | 6.4        | 35.40         | 38.70         | PMT4001NHA         |
| 40.0         | 30.0        | 12.5        | 4.0        | 37.00         | 39.00         | PMT4002NHA         |
| <b>40.0</b>  | <b>30.0</b> | <b>16.3</b> | <b>6.4</b> | <b>35.40</b>  | <b>38.70</b>  | <b>PMT4003NHA</b>  |
| 40.0         | 32.0        | 10.0        | 4.0        | 37.00         | 39.00         | PMT4004NHA         |
| 45.0         | 29.0        | 18.3        | 6.4        | 40.40         | 43.70         | PMT4501NHA         |
| <b>45.0</b>  | <b>35.0</b> | <b>16.3</b> | <b>6.4</b> | <b>40.40</b>  | <b>43.50</b>  | <b>PMT4502NHA</b>  |
| <b>50.0</b>  | <b>34.0</b> | <b>18.3</b> | <b>6.4</b> | <b>45.40</b>  | <b>48.60</b>  | <b>PMT5001NHA</b>  |
| 50.0         | 35.0        | 20.0        | 5.0        | 46.00         | 48.50         | PMT5002NHA         |
| 50.0         | 40.0        | 11.3        | 4.0        | 45.40         | 49.00         | PMT5003NHA         |
| 50.0         | 40.0        | 12.5        | 4.0        | 47.00         | 49.00         | PMT5004NHA         |
| <b>55.0</b>  | <b>39.0</b> | <b>18.3</b> | <b>6.4</b> | <b>50.40</b>  | <b>53.60</b>  | <b>PMT5501NHA</b>  |
| 55.0         | 45.0        | 12.5        | 4.0        | 52.00         | 54.00         | PMT5502NHA         |
| <b>60.0</b>  | <b>44.0</b> | <b>18.3</b> | <b>6.4</b> | <b>55.40</b>  | <b>58.60</b>  | <b>PMT6001NHA</b>  |
| <b>63.0</b>  | <b>47.0</b> | <b>18.3</b> | <b>6.4</b> | <b>58.40</b>  | <b>61.60</b>  | <b>PMT6301NHA</b>  |
| 63.0         | 47.0        | 19.3        | 6.4        | 58.40         | 61.50         | PMT6302NHA         |
| 63.0         | 48.0        | 20.0        | 5.0        | 59.00         | 61.50         | PMT6303NHA         |
| 63.0         | 53.0        | 12.5        | 4.0        | 60.00         | 62.00         | PMT6304NHA         |
| <b>65.0</b>  | <b>50.0</b> | <b>18.3</b> | <b>6.4</b> | <b>60.40</b>  | <b>63.60</b>  | <b>PMT6501NHA</b>  |
| <b>70.0</b>  | <b>50.0</b> | <b>22.3</b> | <b>6.4</b> | <b>64.20</b>  | <b>68.30</b>  | <b>PMT7001NHA</b>  |
| 70.0         | 55.0        | 20.0        | 5.0        | 66.00         | 69.00         | PMT7002NHA         |
| <b>75.0</b>  | <b>55.0</b> | <b>22.3</b> | <b>6.4</b> | <b>69.20</b>  | <b>73.30</b>  | <b>PMT7501NHA</b>  |
| <b>80.0</b>  | <b>60.0</b> | <b>22.3</b> | <b>6.4</b> | <b>74.15</b>  | <b>78.30</b>  | <b>PMT8001NHA</b>  |
| 80.0         | 60.0        | 25.0        | 6.3        | 75.00         | 78.00         | PMT8002NHA         |
| 80.0         | 65.0        | 20.0        | 5.0        | 76.00         | 78.50         | PMT8003NHA         |
| <b>85.0</b>  | <b>65.0</b> | <b>22.3</b> | <b>6.4</b> | <b>79.15</b>  | <b>83.30</b>  | <b>PMT8501NHA</b>  |
| <b>90.0</b>  | <b>70.0</b> | <b>22.3</b> | <b>6.4</b> | <b>84.15</b>  | <b>88.30</b>  | <b>PMT9001NHA</b>  |
| <b>95.0</b>  | <b>75.0</b> | <b>22.3</b> | <b>6.4</b> | <b>89.15</b>  | <b>93.30</b>  | <b>PMT9501NHA</b>  |
| <b>100.0</b> | <b>75.0</b> | <b>22.3</b> | <b>6.4</b> | <b>93.15</b>  | <b>98.00</b>  | <b>PMT10001NHA</b> |
| 100.0        | 80.0        | 25.0        | 6.3        | 95.00         | 98.00         | PMT10002NHA        |
| 100.0        | 85.0        | 20.0        | 5.0        | 96.00         | 98.50         | PMT10003NHA        |
| <b>105.0</b> | <b>80.0</b> | <b>22.3</b> | <b>6.4</b> | <b>98.10</b>  | <b>103.00</b> | <b>PMT10501NHA</b> |
| <b>110.0</b> | <b>85.0</b> | <b>22.3</b> | <b>6.4</b> | <b>103.10</b> | <b>108.00</b> | <b>PMT11001NHA</b> |
| 110.0        | 85.0        | 25.3        | 6.4        | 103.10        | 108.00        | PMT11002NHA        |
| 110.0        | 90.0        | 25.3        | 6.4        | 104.10        | 108.30        | PMT11003NHA        |
| 110.0        | 95.0        | 20.0        | 5.0        | 106.00        | 108.50        | PMT11004NHA        |
| <b>115.0</b> | <b>90.0</b> | <b>22.3</b> | <b>6.4</b> | <b>108.10</b> | <b>113.00</b> | <b>PMT11501NHA</b> |
| <b>120.0</b> | <b>95.0</b> | <b>22.3</b> | <b>6.4</b> | <b>113.10</b> | <b>118.00</b> | <b>PMT12001NHA</b> |

| ø D          | ø d          | L1          | L2          | d1            | d2            | Code/Part. N°      |
|--------------|--------------|-------------|-------------|---------------|---------------|--------------------|
| <b>125.0</b> | <b>100.0</b> | <b>25.3</b> | <b>6.4</b>  | <b>118.10</b> | <b>123.00</b> | <b>PMT12501NHA</b> |
| 125.0        | 100.0        | 32.0        | 10.0        | 119.00        | 123.00        | PMT12502NHA        |
| 125.0        | 105.0        | 25.3        | 6.4         | 119.10        | 123.30        | PMT12503NHA        |
| 125.0        | 105.0        | 25.3        | 6.3         | 120.00        | 123.00        | PMT12504NHA        |
| <b>130.0</b> | <b>105.0</b> | <b>25.3</b> | <b>9.5</b>  | <b>122.60</b> | <b>127.50</b> | <b>PMT13001NHA</b> |
| 130.0        | 105.0        | 25.3        | 6.4         | 123.10        | 128.00        | PMT13002NHA        |
| <b>135.0</b> | <b>110.0</b> | <b>25.3</b> | <b>9.5</b>  | <b>127.60</b> | <b>132.50</b> | <b>PMT13501NHA</b> |
| 135.0        | 110.0        | 25.3        | 6.4         | 128.10        | 133.00        | PMT13502NHA        |
| <b>140.0</b> | <b>115.0</b> | <b>25.3</b> | <b>9.5</b>  | <b>132.60</b> | <b>137.50</b> | <b>PMT14001NHA</b> |
| 140.0        | 115.0        | 25.3        | 6.4         | 133.00        | 138.00        | PMT14002NHA        |
| 140.0        | 120.0        | 25.0        | 6.3         | 135.00        | 138.00        | PMT14003NHA        |
| <b>145.0</b> | <b>120.0</b> | <b>25.3</b> | <b>9.5</b>  | <b>137.60</b> | <b>142.50</b> | <b>PMT14501NHA</b> |
| <b>150.0</b> | <b>125.0</b> | <b>25.3</b> | <b>9.5</b>  | <b>142.60</b> | <b>147.50</b> | <b>PMT15001NHA</b> |
| 150.0        | 125.0        | 25.3        | 6.4         | 143.00        | 148.00        | PMT15002NHA        |
| <b>155.0</b> | <b>130.0</b> | <b>25.3</b> | <b>9.5</b>  | <b>147.60</b> | <b>152.50</b> | <b>PMT15501NHA</b> |
| 160.0        | 130.0        | 25.3        | 6.4         | 153.00        | 158.00        | PMT16001NHA        |
| <b>160.0</b> | <b>135.0</b> | <b>25.3</b> | <b>9.5</b>  | <b>152.60</b> | <b>157.50</b> | <b>PMT16002NHA</b> |
| 160.0        | 135.0        | 32.0        | 10.0        | 154.00        | 158.00        | PMT16003NHA        |
| 160.0        | 140.0        | 25.0        | 6.3         | 155.00        | 158.00        | PMT16004NHA        |
| <b>165.0</b> | <b>140.0</b> | <b>25.3</b> | <b>9.5</b>  | <b>157.60</b> | <b>162.50</b> | <b>PMT16501NHA</b> |
| <b>170.0</b> | <b>145.0</b> | <b>25.3</b> | <b>12.7</b> | <b>161.70</b> | <b>167.10</b> | <b>PMT17001NHA</b> |
| <b>175.0</b> | <b>150.0</b> | <b>25.3</b> | <b>12.7</b> | <b>166.70</b> | <b>172.10</b> | <b>PMT17501NHA</b> |
| 180.0        | 150.0        | 35.3        | 9.4         | 173.00        | 178.00        | PMT18001NHA        |
| 180.0        | 150.0        | 36.0        | 12.5        | 172.00        | 177.00        | PMT18002NHA        |
| <b>180.0</b> | <b>155.0</b> | <b>25.3</b> | <b>12.7</b> | <b>171.10</b> | <b>177.10</b> | <b>PMT18003NHA</b> |
| <b>185.0</b> | <b>160.0</b> | <b>25.3</b> | <b>12.7</b> | <b>176.70</b> | <b>182.10</b> | <b>PMT18501NHA</b> |
| <b>190.0</b> | <b>165.0</b> | <b>25.3</b> | <b>12.7</b> | <b>181.70</b> | <b>187.00</b> | <b>PMT19001NHA</b> |
| <b>195.0</b> | <b>170.0</b> | <b>25.3</b> | <b>12.7</b> | <b>186.70</b> | <b>192.00</b> | <b>PMT19501NHA</b> |
| 200.0        | 170.0        | 35.3        | 6.4         | 193.00        | 198.00        | PMT20001NHA        |
| 200.0        | 170.0        | 36.0        | 12.5        | 192.00        | 197.00        | PMT20002NHA        |
| <b>200.0</b> | <b>175.0</b> | <b>25.3</b> | <b>12.7</b> | <b>191.60</b> | <b>197.00</b> | <b>PMT20003NHA</b> |
| <b>210.0</b> | <b>185.0</b> | <b>25.3</b> | <b>12.7</b> | <b>201.60</b> | <b>207.00</b> | <b>PMT21001NHA</b> |
| 220.0        | 190.0        | 35.3        | 6.4         | 213.00        | 218.00        | PMT22001NHA        |
| 220.0        | 190.0        | 36.0        | 12.5        | 212.00        | 217.00        | PMT22002NHA        |
| <b>220.0</b> | <b>195.0</b> | <b>25.3</b> | <b>12.7</b> | <b>211.60</b> | <b>217.00</b> | <b>PMT22003NHA</b> |
| <b>230.0</b> | <b>205.0</b> | <b>25.3</b> | <b>12.7</b> | <b>221.60</b> | <b>227.00</b> | <b>PMT23001NHA</b> |
| <b>240.0</b> | <b>215.0</b> | <b>25.3</b> | <b>12.7</b> | <b>231.60</b> | <b>237.00</b> | <b>PMT24001NHA</b> |
| 250.0        | 220.0        | 35.3        | 6.4         | 243.00        | 248.00        | PMT25001NHA        |
| 250.0        | 220.0        | 36.0        | 12.5        | 242.00        | 247.00        | PMT25002NHA        |
| <b>250.0</b> | <b>225.0</b> | <b>25.3</b> | <b>12.7</b> | <b>241.00</b> | <b>247.00</b> | <b>PMT25003NHA</b> |
| <b>280.0</b> | <b>250.0</b> | <b>36.0</b> | <b>12.5</b> | <b>272.00</b> | <b>277.00</b> | <b>PMT28001NHA</b> |
| 280.0        | 250.0        | 36.3        | 10.0        | 273.00        | 278.00        | PMT28002NHA        |
| 320.0        | 290.0        | 36.0        | 12.5        | 312.00        | 317.00        | PMT32001NHA        |

Dimensions en gras : référentiel ISO 6547.

Sizes in bold type : as ISO 6547.

Nous fournissons nos anciennes séries standard, joints spécifiques et toutes dimensions sur demande :  
*We supply old standard ranges, specific seals and all sizes on request :*



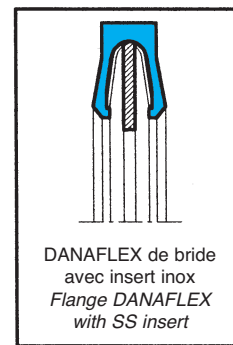
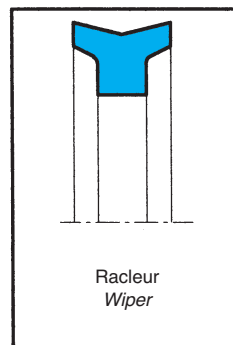
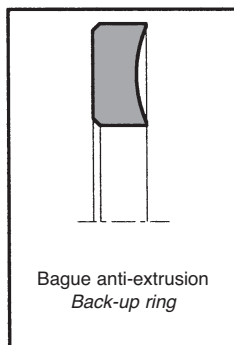
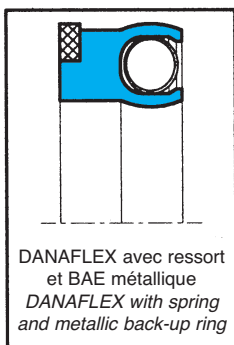
**Repack-S** est parmi les quelques sociétés à travers le monde à posséder un tour CNC permettant d'usiner des joints, des systèmes de guidage jusqu'à 2400 mm de diamètre.

Tous les domaines d'activités sont concernés : Pétrole, off-shore, chimie, production d'énergie, hydroélectricité, transport, etc...

**Repack-S** is one of few companies throughout the world to have a CNC lathe which can be used to machine seals and guide systems down to 2400 mm in diameter.

All fields of activity are concerned : oil, offshore, chemistry, energy production, hydroelectricity, transport, etc...

## Types de joints / Types of seals



## Matières premières

### PTFE vierge, PTFE TFM

chargé Bronze, Carbone, fibres diverses, MOS2, PEEK.  
Une gamme unique par ces possibilités.  
Diamètre: 2500 mm et plus.

### PE-PEHD

Des grades spécifiques.  
Très haut poids moléculaire.  
Chargé PTFE pour encore de plus hautes performances.  
Diamètre jusqu'à 2000 mm.

### Polyuréthane

Différentes duretés de 80 shores A à 72 shores D peuvent être fournies.  
Diamètre jusqu'à 2200 mm.

### Thermoplastiques

Un très large éventail de matériaux.  
Température jusqu'à 250°C en continu.  
Diamètre jusqu'à 2000 mm.

### Repkot

Un matériau de guidage hydrophobe aux multiples usages (eau et eau de mer).  
Tissu polyester + résine thermodurcissable chargée PTFE, Graphite ou MOS2.

## Composants complémentaires

Ressort hélicoïdal.  
Ressort en V.

Bague anti-extrusion  
+ insert métallique (inox ou aluminium).

## Raw materials

### Virgin PTFE, TFM PTFE

filled with Bronze, Carbon, other fibres, MOS2, PEEK.  
An unique range by the possibilities.  
Diameter : 2500 mm and more.

### PE-PEHD

Specific grades.  
Very high molecular weight.  
Filled PTFE, for higher performances.  
Diameter up to 2000 mm.

### Polyurethane

Several hardnesses : 80 shores A to 72 shores D can be supplied.  
Diameter up to 2200 mm.

### Thermoplastics

A very large range of raw materials.  
Temperature up to 250°C (continuous).  
Diameter jusqu'à 2000 mm.

### Repkot

Hydrophobic guiding raw material for many applications (water or sea water).  
Polyester fabric + thermosetting resin filled with PTFE, Graphite or MOS2.

## Complementar components

Helical spring coil.  
V spring.

Back-up ring  
+ metallic insert (stainless steel or aluminium).