

## Face Plana Conecta sob Pressão (Série BM180000CR)

Cara Plana Conectar bajo presión (Serie BM180000CR)

Flat Face Connect Under Pressure (BM180000CR Series)

### Aplicações / Aplicaciones / Applications



### Propriedades

**Principal fluido de passagem:** óleo hidráulico

**Conexão:** empurrando o engate macho

**Desconexão:** alinhar a ranhura da luva com as esferas de bloqueio e retraia a luva

**Conexão sob pressão:** permitida

**Intercambiabilidade:** norma ISO 16028

**Material:** aço carbono de alta qualidade com peças de desgaste tratadas termicamente (luva e pino)

**Tratamento superficial:** banho de zinco níquel

**Vedação:** NBR (Borracha Nitrílica), Poliuretano e anel anti-extrusão em PTFE

**Temperatura de trabalho:** -25°C (-13°F) até 100°C (212°F)

Outras vedações, molas e roscas sob consulta

### Propiedades

**Principal fluido de pasaje:** aceite hidráulico

**Conexión:** empujando el acople macho

**Desconexión:** alinee la ranura del casco con las bolas de bloqueo, luego retraiga el casco

**Conexión bajo presión:** permitido

**Intercambiabilidad:** estándar ISO 16028

**Material:** acero al carbono de alta calidad con piezas de desgaste tratadas térmicamente (casco y manguito)

**Tratamiento superficial:** baño de zinc níquel

**Sello:** NBR (Goma de Nitrilo), Poliuretano y anillo anti-extrusión de PTFE

**Temperatura de trabajo:** -25°C (-13°F) hasta 100°C (212°F)

Otros sellos, resortes y roscas bajo consulta

### Features

**Main fluid of passage:** hydraulic oil

**Connection:** pushing the male coupling

**Disconnection:** align the groove of the sleeve with the locking balls, then retract the sleeve

**Connection under pressure:** allowed

**Interchangeability:** SO 16028 standard

**Material:** high-grade carbon steel with heat treated wear parts (sleeve and nipple)

**Surface treatment:** zinc nickel plating

**Seals:** NBR (Nitrile Rubber), Polyurethane and backup ring in PTFE

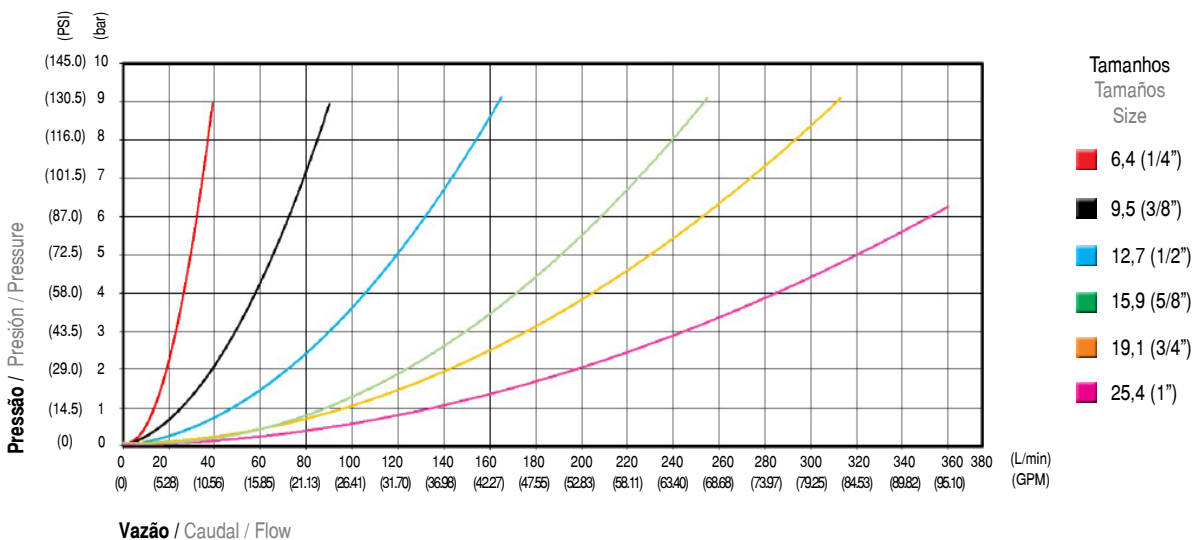
**Working temperature:** -25°C (-13°F) to 100°C (212°F)

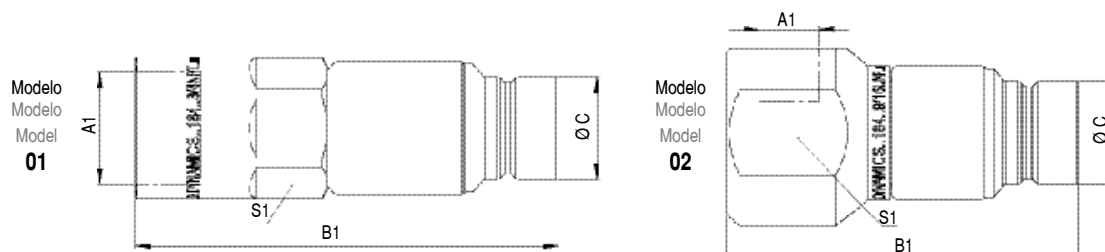
Others seals, springs and threads on request

### Informações Técnicas / Informaciones Técnicas / Technical Information

| Tamanho<br>Tamaño<br>Size<br>mm (in) | Vazão Nominal com perda de pressão de 2 bar (29 PSI)<br>Caudal Nominal con pérdida de presión de 2 bar (29 PSI)<br>Rated Flow with 2 bar (29 PSI) of pressure drop<br>L/min (GPM) | Pressão Máxima de Trabalho<br>Presión Máx. de Trabajo<br>Maximum Working Pressure<br>bar (PSI) | Pressão de Ruptura<br>Presión de Ruptura<br>Burst Pressure |                                     |                                                  | Perda de óleo ao desconectar (1 bar)<br>Pérdida de aceite al desconectar (1 bar)<br>Fluid loss during disconnection (14 PSI)<br>ml (cc) |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|                                      |                                                                                                                                                                                   |                                                                                                | Fêmea<br>Hembra<br>Female<br>bar (PSI)                     | Macho<br>Macho<br>Male<br>bar (PSI) | Conectado<br>Conectado<br>Connected<br>bar (PSI) |                                                                                                                                         |
| 6,4 (1/4")                           | 18 (4.75)                                                                                                                                                                         | 350 (5,076)                                                                                    | 1.350 (19,580)                                             | 1.090 (15,809)                      | 1.120 (16,244)                                   | 0,008 (0.0003)                                                                                                                          |
| 9,5 (3/8")                           | 38 (10.04)                                                                                                                                                                        | 350 (5,076)                                                                                    | 1.040 (15,083)                                             | 1.070 (15,519)                      | 1.070 (15,519)                                   | 0,008 (0.0003)                                                                                                                          |
| 12,7 (1/2")                          | 72 (19.02)                                                                                                                                                                        | 350 (5,076)                                                                                    | 1.150 (16,679)                                             | 1.240 (17,985)                      | 1.020 (14,794)                                   | 0,010 (0.0003)                                                                                                                          |
| 15,9 (5/8")                          | 125 (33.02)                                                                                                                                                                       | 350 (5,076)                                                                                    | -----                                                      | 1.330 (19,290)                      | 1.110 (16,099)                                   | 0,014 (0.0005)                                                                                                                          |
| 19,1 (3/4")                          | 140 (36.98)                                                                                                                                                                       | 350 (5,076)                                                                                    | -----                                                      | 1.330 (19,290)                      | 1.160 (16,825)                                   | 0,020 (0.0007)                                                                                                                          |
| 25,4 (1")                            | 200 (52.83)                                                                                                                                                                       | 350 (5,076)                                                                                    | -----                                                      | 1.000 (14,504)                      | 1.020 (14,794)                                   | 0,030 (0.0010)                                                                                                                          |

### Perda de Carga / Pérdida de Presión / Pressure Drop



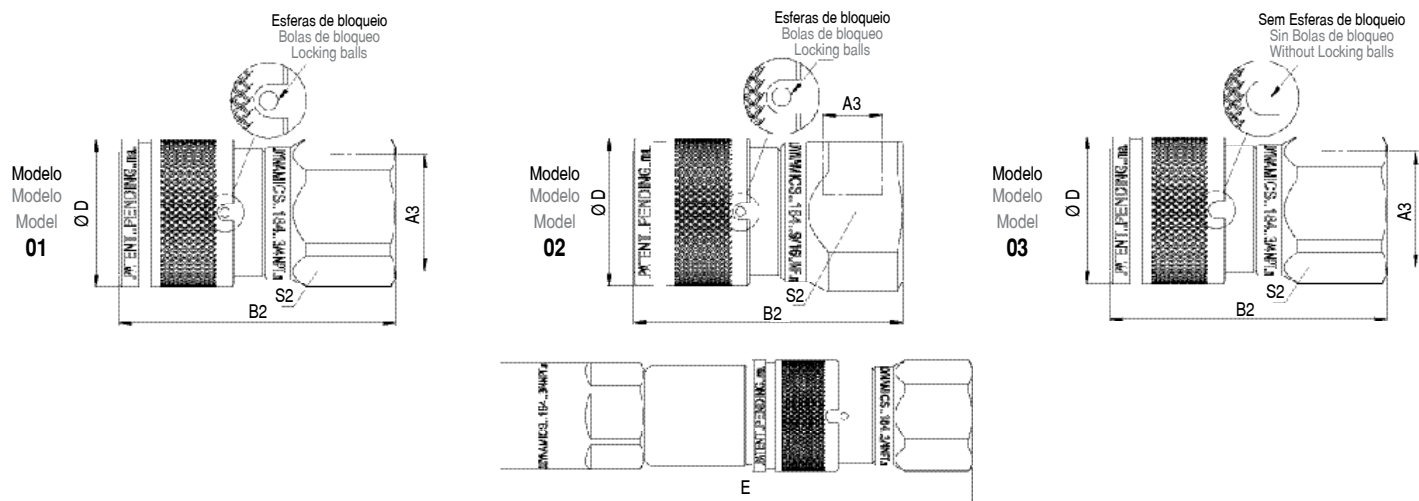


Macho / Macho / Male

| Tamanho<br>Tamaño<br>Size<br>mm (in) | Código<br>Código<br>Part Number | A1<br>Rosca<br>Rosca<br>Thread | Norma da Rosca<br>Norma de la Rosca<br>Thread Standard | Torque<br>Torque<br>Torque<br>Nm | B1<br>mm (in) | S1<br>mm (in)  | C<br>Ø mm (in) | Peso<br>Peso<br>Wight<br>g(lb) | Modelo<br>Modelo<br>Model | Estoque<br>Stock<br>Stock |
|--------------------------------------|---------------------------------|--------------------------------|--------------------------------------------------------|----------------------------------|---------------|----------------|----------------|--------------------------------|---------------------------|---------------------------|
| 6,4 (1/4")                           | 115.182762.M                    | 9/16" UNF ORB (int.)           | SAE J1926                                              | 26 - 34                          | 84,7 (3.33")  | 15,9 (5/8")    | 16,0 (0.63")   | 111 (0.24)                     | 01                        |                           |
| 9,5 (3/8")                           | 115.183758.M                    | 3/8" NPTF (int.)               | ANSI B1.20.3                                           | 30 - 40                          | 92,6 (3.65")  | 19,1 (3/4")    | 19,7 (0.78")   | 159 (0.35)                     | 01                        |                           |
|                                      | 115.183759.M                    | 1/2" NPTF (int.)               | ANSI B1.20.3                                           | 52 - 66                          | 94,7 (3.73")  | 25,4 (1")      | 19,7 (0.78")   | 216 (0.48)                     | 01                        |                           |
|                                      | 115.183761.M                    | 3/8" BSP (int.)                | DIN 3852-2                                             | 40 - 55                          | 93,3 (3.67")  | 19,1 (3/4")    | 19,7 (0.78")   | 158 (0.35)                     | 01                        |                           |
|                                      | 115.183762.M                    | 1/2" BSP (int.)                | DIN 3852-2                                             | 60 - 80                          | 94,9 (3.74")  | 25,4 (1")      | 19,7 (0.78")   | 213 (0.47)                     | 01                        |                           |
|                                      | 115.183763.M                    | 3/4" UNF ORB (int.)            | SAE J1926                                              | 48 - 62                          | 94,9 (3.74")  | 23,8 (15/16")  | 19,7 (0.78")   | 196 (0.43)                     | 01                        |                           |
|                                      | 115.184778.M                    | 1/2" NPTF (int.)               | ANSI B1.20.3                                           | 52 - 66                          | 96,7 (3.81")  | 22,2 (7/8")    | 24,5 (0.96")   | 274 (0.60)                     | 01                        |                           |
|                                      | 115.184779.M                    | 3/4" NPTF (int.)               | ANSI B1.20.3                                           | 68 - 88                          | 100,7 (3.96") | 28,6 (1.118")  | 24,5 (0.96")   | 377 (0.83)                     | 01                        |                           |
|                                      | 115.184781.M                    | 1/2" BSP (int.)                | DIN 3852-2                                             | 60 - 80                          | 97,6 (3.84")  | 22,2 (7/8")    | 24,5 (0.96")   | 272 (0.60)                     | 01                        |                           |
| 12,7 (1/2")                          | 115.184782.M                    | 3/4" BSP (int.)                | DIN 3852-2                                             | 100 - 130                        | 100,7 (3.96") | 28,6 (1.118")  | 24,5 (0.96")   | 371 (0.82)                     | 01                        |                           |
|                                      | 115.184783.M                    | 3/4" UNF ORB (int.)            | SAE J1926                                              | 48 - 62                          | 97,1 (3.82")  | 22,2 (7/8")    | 24,5 (0.96")   | 276 (0.61)                     | 01                        |                           |
|                                      | 115.184784.M                    | 7/8" UNF ORB (int.)            | SAE J1926                                              | 58 - 74                          | 99,2 (3.90")  | 25,4 (1")      | 24,5 (0.96")   | 287 (0.63)                     | 01                        |                           |
|                                      | 115.184785.M                    | 1.1/16" UN ORB (int.)          | SAE J1926                                              | 90 - 116                         | 102,7 (4.04") | 28,6 (1.118")  | 24,5 (0.96")   | 370 (0.82)                     | 01                        |                           |
|                                      | 115.184757.B                    | 1" UNS ORFS (ext.) BHS         | SAE J1453                                              | 58 - 70                          | 93,9 (3.70")  | 30,0 (1.316")  | 24,5 (0.96")   | 296 (0.65)                     | 01                        |                           |
|                                      | 115.184758.B                    | 1.3/16" UN ORFS (ext.) BHS     | SAE J1453                                              | 106 - 134                        | 97,4 (3.83")  | 33,4 (1.516")  | 24,5 (0.96")   | 376 (0.83)                     | 01                        |                           |
|                                      | 115.184760.B                    | 9/16" UNF ORB (int.) 90°       | SAE J1926                                              | 26 - 34                          | 83,9 (3.30")  | 39,7 (1.916")  | 24,5 (0.96")   | 468 (1.03)                     | 02                        |                           |
|                                      | 115.184761.B                    | 3/4" UNF ORB (int.) 90°        | SAE J1926                                              | 48 - 62                          | 84,9 (3.34")  | 44,5 (1.34")   | 24,5 (0.96")   | 554 (1.22)                     | 02                        |                           |
| 15,9 (5/8")                          | 115.185758.M                    | 3/4" NPT (int.)                | ANSI B1.20.1                                           | 68 - 88                          | 124,6 (4.91") | 30,0 (1.316")  | 27,0 (1.06")   | 434 (0.96)                     | 01                        |                           |
|                                      | 115.185761.M                    | 3/4" BSP (int.)                | DIN 3852-2                                             | 100 - 130                        | 124,6 (4.91") | 30,0 (1.316")  | 27,0 (1.06")   | 435 (0.96)                     | 01                        |                           |
|                                      | 115.185764.M                    | 1.1/16" UN ORB (int.)          | SAE J1926                                              | 90 - 116                         | 126,8 (4.99") | 31,8 (1.12")   | 27,0 (1.06")   | 480 (1.06)                     | 01                        |                           |
|                                      | 115.186758.M                    | 3/4" NPT (int.)                | ANSI B1.20.3                                           | 68 - 88                          | 128,5 (5.06") | 30,0 (1.316")  | 29,9 (1.18")   | 583 (1.29)                     | 01                        |                           |
| 19,1 (3/4")                          | 115.186759.M                    | 1" NPTF (int.)                 | ANSI B1.20.1                                           | 82 - 108                         | 130,7 (5.14") | 36,5 (1.716")  | 29,9 (1.18")   | 729 (1.61)                     | 01                        |                           |
|                                      | 115.186761.M                    | 3/4" BSP (int.)                | DIN 3852-2                                             | 100 - 130                        | 128,5 (5.06") | 30,0 (1.316")  | 29,9 (1.18")   | 585 (1.29)                     | 01                        |                           |
|                                      | 115.186762.M                    | 1" BSP (int.)                  | DIN 3852-2                                             | 130 - 180                        | 131,0 (5.16") | 36,5 (1.716")  | 29,9 (1.18")   | 716 (1.58)                     | 01                        |                           |
|                                      | 115.186764.M                    | 1.1/16" UN ORB (int.)          | SAE J1926                                              | 90 - 116                         | 130,7 (5.14") | 31,8 (1.12")   | 29,9 (1.18")   | 634 (1.40)                     | 01                        |                           |
|                                      | 115.186765.M                    | 1.5/16" UN ORB (int.)          | SAE J1926                                              | 128 - 160                        | 132,6 (5.22") | 38,1 (1.12")   | 29,9 (1.18")   | 754 (1.66)                     | 01                        |                           |
| 25,40 (1")                           | 115.187764.M                    | 1" NPTF (int.)                 | ANSI B1.20.1                                           | 82 - 108                         | 152,4 (6.00") | 36,5 (1.716")  | 36,0 (1.42")   | 1.050 (2.31)                   | 01                        |                           |
|                                      | 115.187765.M                    | 1" BSP (int.)                  | DIN 3852-2                                             | 130 - 180                        | 152,8 (6.02") | 36,5 (1.716")  | 36,0 (1.42")   | 1.040 (2.29)                   | 01                        |                           |
|                                      | 115.187766.M                    | 1.1/4" NPTF (int.)             | ANSI B1.20.1                                           | 94 - 126                         | 154,1 (6.07") | 46,1 (1.1316") | 36,0 (1.42")   | 1.282 (2.83)                   | 01                        |                           |
|                                      | 115.187767.M                    | 1.1/4" BSP (int.)              | DIN 3852-2                                             | 180 - 240                        | 154,1 (6.07") | 46,1 (1.1316") | 36,0 (1.42")   | 1.267 (2.79)                   | 01                        |                           |
|                                      | 115.187768.M                    | 1.5/16" UN ORB (int.)          | SAE J1926                                              | 128 - 160                        | 153,8 (6.06") | 36,5 (1.716")  | 36,0 (1.42")   | 1.034 (2.28)                   | 01                        |                           |
|                                      | 115.187769.M                    | 1.5/8" UN ORB (int.)           | SAE J1926                                              | 180 - 210                        | 151,6 (5.97") | 46,1 (1.1316") | 36,0 (1.42")   | 1.245 (2.74)                   | 01                        |                           |

|        |                                                                                 |
|--------|---------------------------------------------------------------------------------|
| (int.) | Rosca Interna / Rosca Interna / Internal Thread                                 |
| (ext.) | Rosca Externa / Rosca Externa / External Thread                                 |
| BHS    | Rosca para chapa sem porca / Rosca para chapa sem tuerca / Bulkhead without nut |

|  |                                          |
|--|------------------------------------------|
|  | Normal de Linha / Disponible / Available |
|  | Sob Consulta / Bajo Pedido / On request  |



## Fêmea / Hembra / Female

| Tamanho<br>Tamaño<br>Size<br>mm (in) | Código<br>Código<br>Part Number | A3<br>Rosca<br>Rosca<br>Thread | Norma da Rosca<br>Norma de la Rosca<br>Thread Standard | Torque<br>Torque<br>Torque<br>Nm | B2<br>mm (in) | S2<br>mm (in) | D<br>Ø mm (in) | E<br>mm (in)  | Peso<br>Peso<br>Weight<br>g (lb) | Modelo<br>Modelo<br>Model | Estoque<br>Stock<br>Stock |
|--------------------------------------|---------------------------------|--------------------------------|--------------------------------------------------------|----------------------------------|---------------|---------------|----------------|---------------|----------------------------------|---------------------------|---------------------------|
| 6,4 (1/4")                           | 117.182418.C                    | 1/4" NPT (int.)                | ANSI B1.20.1                                           | 18 - 26                          | 50,1 (1.97")  | 19,1 (3/4")   | 19,1 (3/4")    | 19,1 (3/4")   | 102 (0.22)                       | 01                        | ✓                         |
|                                      | 117.182419.C                    | 1/4" BSP (int.)                | DIN 3852-2                                             | 24 - 32                          | 50,6 (1.99")  | 19,1 (3/4")   | 19,1 (3/4")    | 19,1 (3/4")   | 102 (0.22)                       | 01                        | 🔍                         |
|                                      | 117.182421.C                    | 9/16" UNF ORB (int.)           | SAE J1926                                              | 26 - 34                          | 50,6 (1.99")  | 19,1 (3/4")   | 19,1 (3/4")    | 19,1 (3/4")   | 99 (0.22)                        | 01                        | 🔍                         |
| 9,5 (3/8")                           | 117.183421.C                    | 3/8" NPT (int.)                | ANSI B1.20.1                                           | 30 - 40                          | 57,1 (2.25")  | 23,8 (1.18")  | 23,8 (1.18")   | 23,8 (1.18")  | 168 (0.37)                       | 01                        | ✓                         |
|                                      | 117.183422.C                    | 3/8" BSP (int.)                | DIN 3852-2                                             | 40 - 55                          | 56,2 (2.20")  | 23,8 (1.18")  | 23,8 (1.18")   | 23,8 (1.18")  | 164 (0.36)                       | 01                        | 🔍                         |
|                                      | 117.183426.C                    | 1/2" NPT (int.)                | ANSI B1.20.1                                           | 52 - 66                          | 58,8 (2.31")  | 25,4 (1")     | 25,4 (1")      | 25,4 (1")     | 170 (0.37)                       | 01                        | ✓                         |
|                                      | 117.183434.C                    | 1/2" BSP (int.)                | DIN 3852-2                                             | 60 - 80                          | 57,8 (2.28")  | 25,4 (1")     | 25,4 (1")      | 25,4 (1")     | 165 (0.36)                       | 01                        | 🔍                         |
|                                      | 117.183435.C                    | 3/4" UNF ORB (int.)            | SAE J1926                                              | 48 - 62                          | 58,1 (2.29")  | 23,8 (1.18")  | 23,8 (1.18")   | 23,8 (1.18")  | 158 (0.35)                       | 01                        | 🔍                         |
|                                      | 117.183462.CC                   | 11/16" UN ORFS (ext.)          | SAE J1453                                              | 32 - 38                          | 74,0 (2.91")  | 23,8 (1.18")  | 23,8 (1.18")   | 23,8 (1.18")  | 207 (0.46)                       | 01                        | 🔍                         |
|                                      | 117.183463.CC                   | 13/16" UN ORFS (ext.)          | SAE J1453                                              | 42 - 52                          | 76,0 (2.99")  | 23,8 (1.18")  | 23,8 (1.18")   | 23,8 (1.18")  | 219 (0.48)                       | 01                        | 🔍                         |
|                                      | 117.183467.CC                   | 13/16" UN ORFS (ext.) BHS      | SAE J1453                                              | 42 - 52                          | 92,0 (3.62")  | 23,8 (1.18")  | 23,8 (1.18")   | 23,8 (1.18")  | 250 (0.55)                       | 01                        | 🔍                         |
|                                      | 117.184421.C                    | 1/2" NPT (int.)                | ANSI B1.20.1                                           | 52 - 66                          | 64,0 (2.52")  | 28,6 (1.18")  | 28,6 (1.18")   | 28,6 (1.18")  | 248 (0.55)                       | 01                        | ✓                         |
| 12,7 (1/2")                          | 117.184422.C                    | 1/2" BSP (int.)                | DIN 3852-2                                             | 60 - 80                          | 64,0 (2.52")  | 28,6 (1.18")  | 28,6 (1.18")   | 28,6 (1.18")  | 245 (0.54)                       | 01                        | 🔍                         |
|                                      | 117.184423.C                    | 3/4" NPT (int.)                | ANSI B1.20.1                                           | 68 - 88                          | 65,9 (2.59")  | 31,8 (1.12")  | 31,8 (1.12")   | 31,8 (1.12")  | 260 (0.57)                       | 01                        | ✓                         |
|                                      | 117.184426.C                    | 3/4" BSP (int.)                | DIN 3852-2                                             | 100 - 130                        | 64,7 (2.55")  | 33,4 (1.516") | 33,4 (1.516")  | 33,4 (1.516") | 276 (0.61)                       | 01                        | 🔍                         |
|                                      | 117.184434.C                    | 3/4" UNF ORB (int.)            | SAE J1926                                              | 48 - 62                          | 64,2 (2.53")  | 28,6 (1.18")  | 28,6 (1.18")   | 28,6 (1.18")  | 250 (0.55)                       | 01                        | 🔍                         |
|                                      | 117.184436.C                    | 7/8" UNF ORB (int.)            | SAE J1926                                              | 58 - 74                          | 64,5 (2.54")  | 28,6 (1.18")  | 28,6 (1.18")   | 28,6 (1.18")  | 237 (0.52)                       | 01                        | 🔍                         |
|                                      | 117.184437.C                    | 1.1/16" UN ORB (int.)          | SAE J1926                                              | 90 - 116                         | 66,5 (2.62")  | 33,4 (1.516") | 33,4 (1.516")  | 33,4 (1.516") | 274 (0.60)                       | 01                        | ✓                         |
|                                      | 117.184452.CN                   | 13/16" UN ORFS (ext.) BHS      | SAE J1453                                              | 42 - 52                          | 100,7 (3.96") | 23,8 (1.18")  | 23,8 (1.18")   | 23,8 (1.18")  | 346 (0.76)                       | 01                        | 🔍                         |
|                                      | 117.184453.CN                   | 1" UNS ORFS (ext.) BHS         | SAE J1453                                              | 58 - 70                          | 105,2 (4.14") | 28,6 (1.18")  | 28,6 (1.18")   | 28,6 (1.18")  | 393 (0.87)                       | 01                        | 🔍                         |
|                                      | 117.184457.CN                   | 7/8" UNF JIC (int.)            | SAE J514                                               | 58 - 74                          | 90,8 (3.57")  | 22,2 (7/8")   | 22,2 (7/8")    | 22,2 (7/8")   | 318 (0.70)                       | 01                        | 🔍                         |
|                                      | 117.184419.C                    | 9/16" UNF ORB (int.) 90°       | SAE J1926                                              | 26 - 34                          | 64,0 (2.52")  | 33,4 (1.516") | 33,4 (1.516")  | 33,4 (1.516") | 329 (0.73)                       | 02                        | 🔍                         |
|                                      | 117.184420.C                    | 3/4" UNF ORB (int.) 90°        | SAE J1926                                              | 48 - 62                          | 68,7 (2.70")  | 38,1 (1.12")  | 38,1 (1.12")   | 38,1 (1.12")  | 420 (0.93)                       | 02                        | 🔍                         |
|                                      | 117.184437.R                    | 1.1/16" UN ORB (int.) WLB      | SAE J1926                                              | 90 - 116                         | 66,5 (2.62")  | 33,4 (1.516") | 33,4 (1.516")  | 33,4 (1.516") | 274 (0.60)                       | 03                        | 🔍                         |

|        |                                                                                 |
|--------|---------------------------------------------------------------------------------|
| (int.) | Rosca Interna / Rosca Interna / Internal Thread                                 |
| (ext.) | Rosca Externa / Rosca Externa / External Thread                                 |
| BHS    | Rosca para chapa sem porca / Rosca para chapa sem tuerca / Bulkhead without nut |
| WLB    | Sem esferas de bloqueio / Sin bolas de bloqueio / Without locking balls         |

|   |                                          |
|---|------------------------------------------|
| ✓ | Normal de Linha / Disponible / Available |
| 🔍 | Sob Consulta / Bajo Pedido / On request  |