

# GRIP PRODUCTS

## GRIP-M

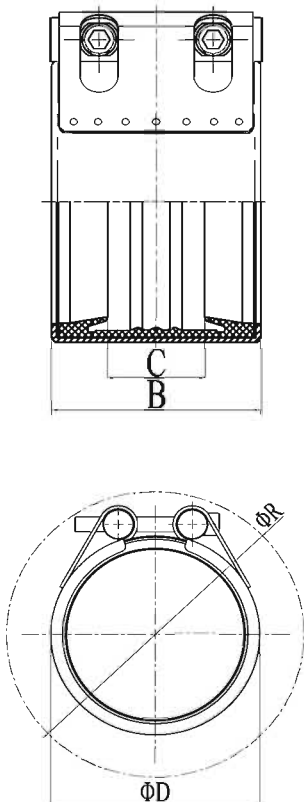
### The multifunctional coupling— connection and compensator in one

The Grip-M has two thick sealing lips which allow for pipe expansion and contraction. This type of coupling not only connects pipes, it simultaneously compensates the axial movement, giving a significant added value to the coupling.

Suitable for pipes O.D  $\varphi 26.9$ - $\varphi 2032$ mm



### Outside view



| Material                | V1       | V2        | V3         | V4        | V5         | V6 |
|-------------------------|----------|-----------|------------|-----------|------------|----|
| <b>Components</b>       |          |           |            |           |            |    |
| Casing                  | AISI 304 | AISI 316L | AISI 316TI | AISI 316L | AISI 316TI |    |
| Bolts                   | AISI 304 | AISI 316L | AISI 316L  | AISI 304  | AISI 304   |    |
| Bars                    | AISI 304 | AISI 316L | AISI 316L  | AISI 304  | AISI 304   |    |
| Anchoring ring          |          |           |            |           |            |    |
| Strip insert (optional) | AISI 301 | AISI 301  | AISI 301   | AISI 301  | AISI 301   |    |



**Note:**

1: Strip insert can be customized in AISI 316L/316TI

2: Please consult the BJ-GRIP technical department or its Agents when what you need is beyond the range of normal specification


# GRIP PRODUCTS

## GRIP-M

| Pipe outside diameter |        | Clamping range | Working pressure  |   | Product O.D. | Width | Distance between sealing slips | Setting gap between pipe ends |                         | Torque rate | Bolt  |
|-----------------------|--------|----------------|---|---|--------------|-------|--------------------------------|-------------------------------|-------------------------|-------------|-------|
| O.D.                  |        | Min-Max        |  |  | Φ D          | B     | C                              | without strip insert          | with strip insert (Max) | (Nm)        | M     |
| (mm)                  | (In.)  | (mm)           | (bar)   | (bar)   | (mm)         | (mm)  | (mm)                           | (mm)                          | Max (mm)                |             |       |
| 26.9                  | 1.059  | 26-28          | 25  | 40  | 38.9         | 61    | 26                             | 5-8                           | 10                      | 5           | M6×2  |
| 30                    | 1.181  | 29-31          | 25  | 40  | 42           | 61    | 26                             | 5-8                           | 10                      | 5           |       |
| 33.7                  | 1.327  | 32-35          | 25  | 40  | 45.7         | 61    | 26                             | 5-8                           | 10                      | 5           |       |
| 38                    | 1.496  | 37-39          | 25  | 40  | 52           | 61    | 26                             | 5-8                           | 10                      | 7.5         |       |
| 42.4                  | 1.669  | 41-43          | 25  | 40  | 56.4         | 61    | 26                             | 5-8                           | 10                      | 7.5         |       |
| 44.5                  | 1.752  | 44-46          | 25  | 40  | 58.5         | 61    | 26                             | 5-8                           | 10                      | 7.5         |       |
| 48.3                  | 1.902  | 47-50          | 25  | 40  | 62.3         | 61    | 26                             | 5-8                           | 10                      | 7.5         |       |
| 54                    | 2.126  | 52-56          | 20  | 35  | 70           | 76    | 37                             | 5-10                          | 15                      | 10          | M8×2  |
| 57                    | 2.244  | 55-59          | 20  | 35  | 73           | 76    | 37                             | 5-10                          | 15                      | 10          |       |
| 60.3                  | 2.374  | 59-62          | 20  | 35  | 76.3         | 76    | 37                             | 5-10                          | 15                      | 10          |       |
| 66.6                  | 2.622  | 64-68          | 20  | 40  | 82.6         | 95    | 37                             | 5-10                          | 25                      | 20          |       |
| 70                    | 2.756  | 68-71          | 20  | 40  | 86           | 95    | 41                             | 5-10                          | 25                      | 20          |       |
| 73                    | 2.874  | 71-75          | 20  | 40  | 89           | 95    | 41                             | 5-10                          | 25                      | 20          |       |
| 76.1                  | 2.996  | 74-78          | 20  | 40  | 92.1         | 95    | 41                             | 5-10                          | 25                      | 20          |       |
| 79.5                  | 3.130  | 78-80          | 20  | 40  | 95.5         | 95    | 41                             | 5-10                          | 25                      | 20          |       |
| 84                    | 3.307  | 82-86          | 20  | 40  | 100          | 95    | 41                             | 5-10                          | 25                      | 20          |       |
| 88.9                  | 3.500  | 87-91          | 20  | 40  | 104.9        | 95    | 41                             | 5-10                          | 25                      | 20          |       |
| 100.6                 | 3.961  | 99-103         | 18  | 35  | 118.6        | 95    | 41                             | 5-10                          | 25                      | 20          |       |
| 101.6                 | 4.000  | 100-104        | 18  | 35  | 119.6        | 95    | 41                             | 5-10                          | 25                      | 20          |       |
| 104                   | 4.094  | 102-106        | 18  | 35  | 122          | 95    | 41                             | 5-10                          | 25                      | 20          |       |
| 108                   | 4.252  | 103-107        | 18  | 35  | 126          | 95    | 41                             | 5-10                          | 25                      | 20          |       |
| 114.3                 | 4.500  | 113-116        | 18  | 35  | 132.3        | 95    | 41                             | 5-10                          | 25                      | 20          |       |
| 127                   | 5.000  | 126-128        | 18  | 40  | 149          | 110   | 54                             | 5-10                          | 35                      | 25          | M10×2 |
| 129                   | 5.079  | 128-130        | 18  | 40  | 151          | 110   | 54                             | 5-10                          | 35                      | 25          |       |
| 130.2                 | 5.126  | 129-132        | 18  | 40  | 152.2        | 110   | 54                             | 5-10                          | 35                      | 25          |       |
| 133                   | 5.236  | 131-135        | 18  | 40  | 155          | 110   | 54                             | 5-10                          | 35                      | 25          |       |
| 139.7                 | 5.500  | 138-142        | 18  | 40  | 161.7        | 110   | 54                             | 5-10                          | 35                      | 25          |       |
| 141.3                 | 5.563  | 140-143        | 18  | 40  | 163.3        | 110   | 54                             | 5-10                          | 35                      | 25          |       |
| 154                   | 6.063  | 153-156        | 18  | 35  | 176          | 110   | 54                             | 5-10                          | 35                      | 25          |       |
| 159                   | 6.260  | 158-161        | 18  | 35  | 181          | 110   | 54                             | 5-10                          | 35                      | 25          |       |
| 168.3                 | 6.626  | 167-170        | 18  | 35  | 190.3        | 110   | 54                             | 5-10                          | 35                      | 25          |       |
| 180                   | 7.087  | 166-171        | 16  | 30  | 202          | 142   | 75                             | 10-25                         | 40                      | 50          | M12×2 |
| 200                   | 7.874  | 198-202        | 16  | 30  | 222          | 142   | 75                             | 10-25                         | 40                      | 50          |       |
| 219.1                 | 8.626  | 216-222        | 16  | 30  | 249.1        | 142   | 75                             | 10-25                         | 40                      | 60          |       |
| 250                   | 9.843  | 247-253        | 16  | 25  | 280          | 142   | 75                             | 10-25                         | 40                      | 60          |       |
| 267                   | 10.512 | 264-270        | 16  | 25  | 297          | 142   | 75                             | 10-25                         | 40                      | 60          |       |
| 273                   | 10.748 | 270-276        | 16  | 25  | 303          | 142   | 75                             | 10-25                         | 40                      | 60          |       |
| 304                   | 11.969 | 301-307        | 10  | 20  | 334          | 142   | 75                             | 10-25                         | 40                      | 80          |       |
| 323.9                 | 12.752 | 321-327        | 10  | 20  | 353.9        | 142   | 75                             | 10-25                         | 40                      | 80          |       |
| 355.6                 | 14.000 | 353-358        | 8.5   | 16  | 385.6        | 142   | 75                             | 10-25                         | 40                      | 80          |       |
| 377                   | 14.843 | 375-379        | 8.5   | 16  | 407.0        | 142   | 75                             | 10-25                         | 40                      | 80          |       |
| 406.4                 | 16.000 | 404-409        | 7.5   | 16  | 436.0        | 142   | 75                             | 10-25                         | 40                      | 80          |       |
| 457.2                 | 18.000 | 454-460        | 6.5   | 12  | 487.0        | 142   | 75                             | 10-25                         | 40                      | 80          |       |

**Note:**

Above table shows most common sizes, couplings can be customized for special outside diameters. Please contact us for further details.

 Working pressure for marine applications. Minimum burst is 4 times working pressure. Figures are based on typical values for standard wall carbon steel pipe.



 Working pressure for industrial and land-based applications. Minimum burst is 1.5 times working pressure.

Figures are based on typical values for standard wall carbon steel pipe.

Typing errors may occurs, technical details are subject to change as improvements of products.


# GRIP PRODUCTS

## GRIP-M

| Pipe outside diameter |        | Clamping range | Working pressure  |   | Product O.D. | Width | Distance between sealing slips | Setting gap between pipe ends |                         | Torque rate | Bolt  |
|-----------------------|--------|----------------|---|---|--------------|-------|--------------------------------|-------------------------------|-------------------------|-------------|-------|
| O.D.                  |        | Min-Max        |  |  | Φ D          | B     | C                              | without strip insert          | with strip insert (Max) | (Nm)        | M     |
| (mm)                  | (in.)  | (mm)           | (bar)   | (bar)   | (mm)         | (mm)  | (mm)                           | (mm)                          | Max (mm)                |             |       |
| 508                   | 20.000 | 505-511        | 6   | 10  | 538.0        | 142   | 75                             | 10-25                         | 40                      | 120         |       |
| 558.8                 | 22.000 | 556-562        | 5.5   | 10  | 588.8        | 142   | 75                             | 10-25                         | 40                      | 160         |       |
| 609.6                 | 24.000 | 606-613        | 5   | 10  | 639.6        | 142   | 75                             | 10-25                         | 40                      | 160         |       |
| 711.2                 | 28.000 | 708-715        | 4   | 5   | 741.2        | 142   | 75                             | 10-25                         | 40                      | 160         |       |
| 762                   | 30.000 | 758-766        | 4   | 5   | 792.0        | 142   | 75                             | 10-25                         | 40                      | 160         |       |
| 812.8                 | 32.000 | 809-817        | 4   | 5   | 842.8        | 142   | 75                             | 10-25                         | 40                      | 200         |       |
| 914.4                 | 36.000 | 910-918        | 4   | 5   | 944.4        | 142   | 75                             | 10-25                         | 40                      | 200         |       |
| 1016                  | 40.000 | 1012-1020      | 4   | 5   | 1046.0       | 142   | 75                             | 10-25                         | 40                      | 200         |       |
| 1117.6                | 44.000 | 1114-1122      | 3.5   | 5   | 1147.6       | 142   | 75                             | 10-25                         | 40                      | 200         |       |
| 1219.2                | 48.000 | 1215-1224      | 3.5   | 5   | 1249.2       | 142   | 75                             | 10-25                         | 40                      | 200         | M16×2 |
| 1320.8                | 52.000 | 1316-1325      | 3   | 5   | 1350.8       | 142   | 75                             | 10-25                         | 40                      | 240         |       |
| 1422.4                | 56.000 | 1418-1427      | 3   | 5   | 1452.4       | 142   | 75                             | 10-25                         | 40                      | 240         |       |
| 1524                  | 60.000 | 1519-1529      | 2.5   | 5   | 1554         | 142   | 75                             | 10-25                         | 40                      | 240         |       |
| 1600                  | 62.992 | 1595-1605      | 2.5   | 5   | 1630         | 142   | 75                             | 10-25                         | 40                      | 240         |       |
| 1625.6                | 64.000 | 1621-1631      | 2.5   | 5   | 1655.6       | 142   | 75                             | 10-25                         | 40                      | 240         |       |
| 1727.2                | 68.000 | 1722-1732      | 2.5   | 5   | 1757.2       | 142   | 75                             | 10-25                         | 40                      | 240         |       |
| 1828.8                | 72.000 | 1824-1834      | 2   | 5   | 1858.8       | 142   | 75                             | 10-25                         | 40                      | 240         |       |
| 1930.4                | 76.000 | 1925-1936      | 2   | 5   | 1960.4       | 142   | 75                             | 10-25                         | 40                      | 240         |       |
| 2032                  | 80.000 | 2027-2037      | 2   | 5   | 2062         | 142   | 75                             | 10-25                         | 40                      | 240         |       |

**Note:**

Above table shows most common sizes, couplings can be customized for special outside diameters. Please contact us for further details.

 Working pressure for marine applications. Minimum burst is 4 times working pressure. Figures are based on typical values for standard wall carbon steel pipe.

 Working pressure for industrial and land-based applications. Minimum burst is 1.5 times working pressure.

Figures are based on typical values for standard wall carbon steel pipe.

Typing errors may occur, technical details are subject to change as improvements of products.

