

# QuickFit

## Dedicated Couplings and Flange Adaptors - Standard Products

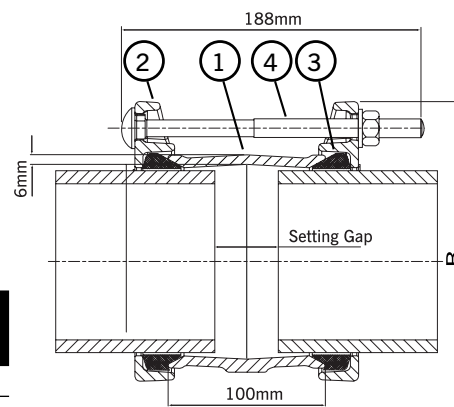
### QuickFit Coupling

Bolt size M12 x 180mm CDX  
 Setting gap Recommended - 20mm  
 Max - 40mm  
 Bolt torque 55-65Nm

1 = Centre Sleeve  
 2 = End Ring  
 3 = Gasket  
 4 = Bolts

| Size Range (mm) |       | Working Pressure (bar) | End Ring O.D. B (mm) | Bolt Size No x Dia x Length | Gasket Mould no. | Weight (kg) |
|-----------------|-------|------------------------|----------------------|-----------------------------|------------------|-------------|
| Min             | Max   |                        |                      |                             |                  |             |
| 47.9            | 51.3  | 46.6                   | 136.0                | 2 x M12 x 180               | 12477/41         | 2.22        |
| 59.5            | 63.3  | 46.6                   | 148.0                | 2 x M12 x 180               | 12477/1          | 2.51        |
| 75.3            | 79.1  | 46.6                   | 164.0                | 2 x M12 x 180               | 12477/5          | 2.89        |
| 88.1            | 91.9  | 46.6                   | 177.0                | 4 x M12 x 180               | 12477/7          | 3.81        |
| 95.8            | 100.2 | 46.6                   | 185.0                | 4 x M12 x 180               | 12477/10         | 4.00        |
| 107.2           | 111.0 | 46.6                   | 196.0                | 4 x M12 x 180               | 12477/12         | 4.26        |
| 113.5           | 120.2 | 46.6                   | 205.0                | 4 x M12 x 180               | 12477/15         | 4.48        |
| 138.9           | 142.7 | 44.0                   | 228.0                | 4 x M12 x 180               | 12477/19         | 5.02        |
| 158.2           | 162.0 | 38.8                   | 254.0                | 4 x M12 x 180               | 12477/21         | 6.32        |
| 167.5           | 172.3 | 36.9                   | 264.0                | 4 x M12 x 180               | 12477/24         | 6.59        |
| 192.9           | 196.7 | 32.2                   | 292.0                | 4 x M12 x 180               | 12477/26         | 8.06        |
| 218.3           | 224.4 | 35.8                   | 319.0                | 4 x M12 x 180               | 12477/29         | 8.89        |
| 272.2           | 276.5 | 34.8                   | 372.0                | 6 x M12 x 180               | 12477/34         | 11.16       |
| 323.1           | 328.6 | 29.5                   | 424.0                | 6 x M12 x 180               | 12477/37         | 12.76       |

Test pressure = 1.5 x working pressure



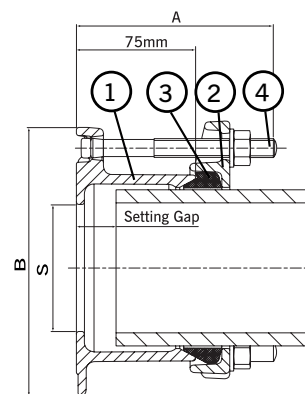
### QuickFit Flange Adaptor (standard cast product)

Bolt Size M12 x 115mm Tee Bolt  
 Setting gap Recommended - 25mm  
 Max - 45mm  
 Bolt torque 55-65Nm  
 Max working pressure In accordance with flange rating

1 = Body  
 2 = End Ring  
 3 = Gasket  
 4 = Bolts

| Size Range (mm) |       | Flange Detail (mm) |                  | Overall Length A (mm) | S Bore S (mm) | Flange Drilling  | Bolt Size No x Dia x Length | Gasket Mould no. | Weight (kg) |
|-----------------|-------|--------------------|------------------|-----------------------|---------------|------------------|-----------------------------|------------------|-------------|
| Min             | Max   | Flange O.D. (B)    | Flange Thickness |                       |               |                  |                             |                  |             |
| 59.5            | 63.3  | 161.0              | 17.0             | 125.0                 | 50.0          | 50 PN10,16,25,40 | 2 x M12 x 115               | 12477/1          | 2.28        |
| 75.3            | 79.1  | 181.0              | 17.0             | 125.0                 | 65.0          | 65 PN10,16       | 2 x M12 x 115               | 12477/5          | 2.66        |
| 88.1            | 91.9  | 196.0              | 17.0             | 126.0                 | 80.0          | 80 PN10,16,25,40 | 4 x M12 x 115               | 12477/7          | 3.48        |
| 95.8            | 100.2 | 196.0              | 17.0             | 126.0                 | 80.0          | 80 PN10,16,25,40 | 4 x M12 x 115               | 12477/10         | 3.59        |
| 107.2           | 111.0 | 216.0              | 17.0             | 126.0                 | 100.0         | 100 PN10,16      | 4 x M12 x 115               | 12477/12         | 3.91        |
| 113.5           | 120.2 | 216.0              | 17.0             | 126.0                 | 100.0         | 100 PN10,16      | 4 x M12 x 115               | 12477/15         | 4.03        |
| 138.9           | 142.7 | 246.0              | 17.0             | 126.0                 | 125.0         | 125 PN10,16      | 4 x M12 x 115               | 12477/19         | 4.71        |
| 158.2           | 162.0 | 284.0              | 17.0             | 126.0                 | 150.0         | 150 PN10,16      | 4 x M12 x 115               | 12477/21         | 5.77        |
| 167.5           | 172.3 | 284.0              | 17.0             | 126.0                 | 150.0         | 150 PN10,16      | 4 x M12 x 115               | 12477/24         | 5.88        |
| 192.9           | 196.7 | 339.0              | 20.0             | 126.0                 | 199.0         | 200 PN10,16      | 4 x M12 x 115               | 12477/26         | 8.44        |
| 218.3           | 224.4 | 339.0              | 20.0             | 126.0                 | 200.0         | 200 PN10,16      | 4 x M12 x 115               | 12477/29         | 8.50        |
| 272.2           | 276.5 | 405.0              | 20.0             | 129.0                 | 250.0         | 250 PN10,16      | 6 x M12 x 115               | 12477/34         | 11.38       |
| 323.1           | 328.6 | 455.0              | 20.0             | 129.0                 | 300.0         | 300 PN10,16      | 6 x M12 x 115               | 12477/37         | 13.04       |

Test pressure = 1.5 x working pressure



### Tied Flange Adaptor

The design of the new QuickFit Flange Adaptor is such that there is sufficient clearance to allow tie rods (used to restrain them) to pass over without the need for notching.



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# QuickFit

Dedicated Couplings and Flange Adaptors - Standard Products

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## Material Specification and Standards

### Flange Adaptor Body, Centre Sleeve and End Rings

Ductile Iron to BS EN1563:1997 Symbol EN-GJS-450-10

### Gaskets

Standard EPDM to BS EN681-1, TYPE WA, WC

Nitrile to BS EN682:2002, Type G

Other grades are available - contact Viking Johnson Marketing dept. for details

### Tee Bolts / Bolts

Standard: Steel to BS EN ISO 898-1:1999 property class 4.8

Option: Stainless Steel to BS EN ISO 3506-1:1998 grade A4 property class 50

### Nuts

Standard: Steel to BS EN 20898-2:1994 property class 8

Option: Stainless Steel to BS EN ISO 3506-2:1998 grade A4 property class 80

### Washers

Stainless steel to BS1449:PART 2:1983 GRADE 304S15

### Coating

Flange adaptor body, centre sleeve and end rings coated with:

Standard: Rislan Nylon 11 to WIS 4-52-01 Part 1

Other coatings available: Scotchkote, Primer, Galvanised

Tee bolts, CDX bolts and nuts coated with

Standard: Sherplex to WIS 4-52-03

QuickFit is designed and manufactures under Quality Management Systems certified to BS EN ISO 9001:2000 and the requirements of ISO 14001. Viking Johnson operates a policy of continual product improvement and innovation, and reserves the right to modify details in this publication. Information is correct at time of publishing. Additional dimensional information is available from our Marketing Department.



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# QuickFit

## Dedicated Flange Adaptors - Fabricated Products

### New QuickFit Flange Drilling Capabilities - Other common drillings

| OD            | Flange Details<br>Nom - " | ANSI |       |     |       |     |       |     |       |
|---------------|---------------------------|------|-------|-----|-------|-----|-------|-----|-------|
|               |                           | 125  |       | 150 |       | 250 |       | 300 |       |
|               |                           | Y/N  | Tied? | Y/N | Tied? | Y/N | Tied? | Y/N | Tied? |
| 059.5 - 063.3 | 2.0                       | ✓    | ✗     | ✓   | ✗     | ✓   | ✓     | ✗   | ✗     |
| 075.3 - 079.1 | 2.5                       | ✓    | ✓     | ✓   | ✓     | ✓   | ✓     | ✗   | ✗     |
| 088.1 - 091.9 | 3.0                       | ✓    | ✓     | ✓   | ✓     | ✓   | ✓     | ✗   | ✗     |
| 095.8 - 100.2 | 3.0                       | ✓    | ✗     | ✓   | ✗     | ✓   | ✓     | ✗   | ✗     |
| 107.2 - 111.0 | 4.0                       | ✓    | ✓     | ✓   | ✓     | ✓   | ✓     | ✗   | ✗     |
| 113.5 - 120.2 | 4.0                       | ✓    | ✓     | ✓   | ✓     | ✓   | ✓     | ✗   | ✗     |
| 138.9 - 142.7 | 5.0                       | ✓    | ✓     | ✓   | ✓     | ✓   | ✓     | ✗   | ✗     |
| 158.2 - 162.0 | 6.0                       | ✓    | ✓     | ✓   | ✓     | ✓   | ✓     | ✗   | ✗     |
| 167.5 - 172.3 | 6.0                       | ✓    | ✓     | ✓   | ✓     | ✓   | ✓     | ✗   | ✗     |
| 192.2 - 196.7 | 8.0                       | ✓    | ✓     | ✓   | ✓     | ✗   | ✗     | ✗   | ✗     |
| 218.3 - 224.4 | 8.0                       | ✓    | ✓     | ✓   | ✓     | ✓   | ✓     | ✗   | ✗     |
| 272.2 - 276.5 | 10.0                      | ✓    | ✓     | ✓   | ✓     | ✗   | ✗     | ✗   | ✗     |
| 323.1 - 328.6 | 12.0                      | ✓    | ✓     | ✓   | ✓     | ✗   | ✗     | ✗   | ✗     |

Y/N = ✓ = Can make QFFA with this drilling

✗ = Cannot make QFFA with this drilling

Tied? = ✓ = Can offer as tied FA – notching not required

✗ = Cannot offer as tied FA – bolts clash with end ring – cannot notch

| OD            | Flange Details<br>Nom - " | AWWA C207 Class |       |     |       |     |       |     |       |
|---------------|---------------------------|-----------------|-------|-----|-------|-----|-------|-----|-------|
|               |                           | B               |       | D   |       | E   |       | F   |       |
|               |                           | Y/N             | Tied? | Y/N | Tied? | Y/N | Tied? | Y/N | Tied? |
| 107.2 - 111.0 | 4.0                       | ✓               | ✓     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     |
| 113.5 - 120.2 | 4.0                       | ✓               | ✓     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     |
| 138.9 - 142.7 | 5.0                       | ✓               | ✓     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     |
| 158.2 - 162.0 | 6.0                       | ✓               | ✓     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     |
| 167.5 - 172.3 | 6.0                       | ✓               | ✓     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     |
| 192.2 - 196.7 | 8.0                       | ✓               | ✓     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     |
| 218.3 - 224.4 | 8.0                       | ✓               | ✓     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     |
| 272.2 - 276.5 | 10.0                      | ✓               | ✓     | ✓   | ✓     | ✓   | ✓     | ✗   | ✗     |
| 323.1 - 328.6 | 12.0                      | ✓               | ✓     | ✓   | ✓     | ✓   | ✓     | ✗   | ✗     |

| OD            | Flange Details<br>Nom - mm | AS2129 Table |       |     |       |     |       |     |       |
|---------------|----------------------------|--------------|-------|-----|-------|-----|-------|-----|-------|
|               |                            | A            |       | C   |       | D   |       | E   |       |
|               |                            | Y/N          | Tied? | Y/N | Tied? | Y/N | Tied? | Y/N | Tied? |
| 059.5 - 063.3 | 50.0                       | ✓            | ✗     | ✓   | ✗     | ✓   | ✗     | ✓   | ✗     |
| 075.3 - 079.1 | 65.0                       | ✓            | ✗     | ✓   | ✗     | ✓   | ✗     | ✓   | ✗     |
| 088.1 - 091.9 | 80.0                       | ✓            | ✗     | ✓   | ✗     | ✓   | ✗     | ✓   | ✗     |
| 095.8 - 100.2 | 80.0                       | ✓            | ✗     | ✓   | ✗     | ✓   | ✗     | ✓   | ✗     |
| 107.2 - 111.0 | 100.0                      | ✓            | ✓     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     |
| 113.5 - 120.2 | 100.0                      | ✓            | ✗     | ✓   | ✗     | ✓   | ✗     | ✓   | ✗     |
| 138.9 - 142.7 | 125.0                      | ✓            | ✓     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     |
| 158.2 - 162.0 | 150.0                      | ✓            | ✓     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     |
| 167.5 - 172.3 | 150.0                      | ✓            | ✗     | ✓   | ✗     | ✓   | ✗     | ✓   | ✗     |
| 192.2 - 196.7 | 200.0                      | ✓            | ✓     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     |
| 218.3 - 224.4 | 200.0                      | ✓            | ✗     | ✓   | ✗     | ✓   | ✗     | ✓   | ✗     |
| 272.2 - 276.5 | 250.0                      | ✗            | ✗     | ✗   | ✗     | ✗   | ✗     | ✓   | ✓     |
| 323.1 - 328.6 | 300.0                      | ✗            | ✗     | ✓   | ✓     | ✓   | ✓     | ✓   | ✗     |

## Materials of Construction

### Flange

Steel to BS EN 10025-2:2004 Grade S275JR

### Sleeve

Steel Tube to BS1387:1985

or Steel Tube to BS3601:1987 Grade 430

or Steel BS EN10025-2:2004 Grade S275JR

### Tee Bolts

Standard: Steel to BS EN ISO 898-1:1999 property class 4.8

Option: Stainless Steel to BS EN ISO 3506-1:1998 grade A4 property class 50

### Nuts

Standard: Steel to BS EN 20898-2:1994 property class 8

Option: Stainless Steel to BS EN ISO 3506-2:1998 grade A4 property class 80

### Washers

Stainless Steel to BS1449:PART 2:1983 GRADE 304S15

### End Rings

Ductile Iron to BS EN1563:1997 Symbol EN GJS-450-10

### Gaskets

Standard EPDM to BS EN681-1, TYPE WA, WC

Nitrile to BS EN682:2002, Type G

Other grades are available - contact Viking Johnson Marketing dept.



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Dedicated Flange Adaptors - Fabricated Products

## New QuickFit Flange Drilling Capabilities - Standard drillings

| OD            | Flange Details<br>Nom - mm | EN1092 |       |     |       |      |       |      |       |      |       |      |       |
|---------------|----------------------------|--------|-------|-----|-------|------|-------|------|-------|------|-------|------|-------|
|               |                            | PN2.5  |       | PN6 |       | PN10 |       | PN16 |       | PN25 |       | PN40 |       |
|               |                            | Y/N    | Tied? | Y/N | Tied? | Y/N  | Tied? | Y/N  | Tied? | Y/N  | Tied? | Y/N  | Tied? |
| 059.5 - 063.3 | 50.0                       | ✓      | X     | ✓   | X     |      |       |      |       |      |       |      |       |
| 075.3 - 079.1 | 65.0                       | ✓      | X     | ✓   | X     |      |       |      |       | ✓    | ✓     | ✓    | ✓     |
| 088.1 - 091.9 | 80.0                       | ✓      | X     | ✓   | X     |      |       |      |       |      |       |      |       |
| 095.8 - 100.2 | 80.0                       | ✓      | X     | ✓   | X     |      |       |      |       |      |       |      |       |
| 107.2 - 111.0 | 100.0                      | ✓      | ✓     | ✓   | ✓     |      |       |      |       | ✓    | ✓     | ✓    | ✓     |
| 113.5 - 120.2 | 100.0                      | ✓      | X     | ✓   | X     |      |       |      |       | ✓    | ✓     | ✓    | ✓     |
| 138.9 - 142.7 | 125.0                      | ✓      | X     | ✓   | X     |      |       |      |       | ✓    | ✓     | ✓    | ✓     |
| 158.2 - 162.0 | 150.0                      | ✓      | X     | ✓   | X     |      |       |      |       | ✓    | ✓     | X    | X     |
| 167.5 - 172.3 | 150.0                      | ✓      | X     | ✓   | X     |      |       |      |       | ✓    | ✓     | X    | X     |
| 192.2 - 196.7 | 200.0                      | ✓      | ✓     | ✓   | ✓     |      |       |      |       | ✓    | ✓     | X    | X     |
| 218.3 - 224.4 | 200.0                      | ✓      | X     | ✓   | X     |      |       |      |       | ✓    | ✓     | X    | X     |
| 272.2 - 276.5 | 250.0                      | ✓      | X     | ✓   | X     |      |       |      |       | ✓    | ✓     | X    | X     |
| 323.1 - 328.6 | 300.0                      | ✓      | X     | ✓   | X     |      |       |      |       | X    | X     | X    | X     |

= Denotes standard cast product, please refer to datasheet 1.1 for full details

| OD            | Flange Details<br>Nom - " | BS10 Table |       |     |       |     |       |     |       |     |       |     |       |
|---------------|---------------------------|------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
|               |                           | A          |       | D   |       | E   |       | F   |       | H   |       | J   |       |
|               |                           | Y/N        | Tied? | Y/N | Tied? | Y/N | Tied? | Y/N | Tied? | Y/N | Tied? | Y/N | Tied? |
| 059.5 - 063.3 | 2.0                       | ✓          | X     | ✓   | X     | ✓   | X     | ✓   | ✓     | ✓   | ✓     | X   | X     |
| 075.3 - 079.1 | 2.5                       | ✓          | X     | ✓   | X     | ✓   | X     | ✓   | ✓     | ✓   | ✓     | X   | X     |
| 088.1 - 091.9 | 3.0                       | ✓          | X     | ✓   | X     | ✓   | X     | ✓   | ✓     | ✓   | ✓     | X   | X     |
| 095.8 - 100.2 | 3.0                       | ✓          | X     | ✓   | X     | ✓   | X     | ✓   | ✓     | ✓   | ✓     | X   | X     |
| 107.2 - 111.0 | 4.0                       | ✓          | ✓     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     | X   | X     |
| 113.5 - 120.2 | 4.0                       | ✓          | ✓     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     | X   | X     |
| 138.9 - 142.7 | 5.0                       | ✓          | ✓     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     | X   | X     |
| 158.2 - 162.0 | 6.0                       | ✓          | ✓     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     | X   | X     |
| 167.5 - 172.3 | 6.0                       | ✓          | X     | ✓   | X     | ✓   | X     | ✓   | ✓     | ✓   | ✓     | X   | X     |
| 192.2 - 196.7 | 8.0                       | ✓          | ✓     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     | X   | X     | X   | X     |
| 218.3 - 224.4 | 8.0                       | ✓          | ✓     | ✓   | ✓     | ✓   | X     | ✓   | ✓     | ✓   | ✓     | X   | X     |
| 272.2 - 276.5 | 10.0                      | X          | X     | X   | X     | ✓   | ✓     | ✓   | ✓     | ✓   | ✓     | X   | X     |
| 323.1 - 328.6 | 12.0                      | X          | X     | ✓   | ✓     | ✓   | ✓     | X   | X     | X   | X     | X   | X     |

## Materials of Construction

### Flange

Steel to BS EN 10025-2:2004 Grade S275JR

### Sleeve

Steel Tube to BS1387:1985

or Steel Tube to BS3601:1987 Grade 430

or Steel BS EN10025-2:2004 Grade S275JR

### Tee Bolts

Standard: Steel to BS EN ISO 898-1:1999 property class 4.8

Option: Stainless Steel to BS EN ISO 3506-1:1998 grade A4 property class 50

### Nuts

Standard: Steel to BS EN 20898-2:1994 property class 8

Option: Stainless Steel to BS EN ISO 3506-2:1998 grade A4 property class 80

### Washers

Stainless Steel to BS1449:PART 2:1983 GRADE 304S15

### End Rings

Ductile Iron to BS EN1563:1997 Symbol EN GJS-450-10

### Gaskets

Standard EPDM to BS EN681-1, TYPE WA, WC

Nitrile to BS EN682:2002, Type G

Other grades are available - contact Viking Johnson Marketing dept.



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For further information on all Viking Johnson products and services contact our Marketing Department.

Datasheet 1.2