MegaFit®







Universal Pipe Fittings

The MegaFit range of universal pipe fittings represent the very latest in mechanical pipe coupling technology, with products designed to connect plain ended pipes of the same nominal bore, with same or different outside diameters. One coupling is able to connect steel, ductile iron, uPVC, cast iron and asbestos cement pipes, thereby reducing stocks.

Simplifies Stock-holding & Installation

MegaFit products are designed for use in repair situations where the exact outside diameter of the pipes are unknown. An OD tolerance range of up to 34mm is offered, which has the effect of reducing stockholding, down to one size per nominal diameter, also simplifies installation.

Simple, Reliable Seal

The MegaFit range design incorporates end rings which are designed to enclose the gasket. The unique 'slide easy' gasket provides maximum sealing pressure, even on scored, pitted and corroded pipe surfaces through its distinctive circumferential ribs offering a simple installation and guaranteed seal.

Approved Quality

The MegaFit product range includes couplings and flange adaptors, which are available from DN50 (2") to DN300 (12"). All models are designed and manufactured under quality management systems to BS EN ISO 9001 and have been tested by Viking Johnson's comprehensive in-house research facilities and also conform to the American Water Works Association specification AWWA/ANSI C.219 for bolted couplings.



Pipe Materials



















MegaFit Couplings and Flange Adaptors

Product Design Benefits



Customer Benefits

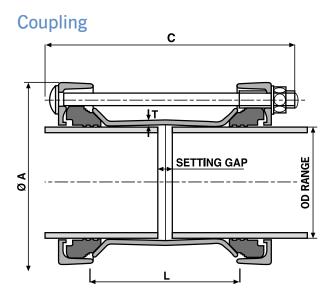
- ➤ The MegaFit range is suitable for water and gas applications. Following extensive tests, the products can be guaranteed for a working pressure of 16 bar for water applications (test pressure 24 bar) and 6 bar for gas (test pressure 9 bar).
- ➤ With up to 34mm tolerance on the pipe OD, each product fits a range of pipe diameters and materials. It reduces the need for expensive and time consuming trial holes, reduces stock holding and increases stock turn. In all MegaFit is adaptable and economic solution to most pipe connections.
- ➤ For the discerning customer, the MegaFit range offers an extended sealing face, greater than other wide tolerance models. M16 bolts on DN100 models and above ensure a complete robust solution.
- ➤ MegaFit couplings accommodate angular deflection between pipes of up to 8° for couplings and 4° for flange adaptors, allowing for ease of installation and for pipeline movement such as ground settlement. This angular deflection can be utilised to lay

pipelines to long radius curves, without the need for special fittings, saving both time and cost.

MegaFit Couplings

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Key

A = End Ring Diameter

C = Overall Length

L = Sleeve Length

T = Sleeve Thickness

MegaFit Couplings

| DN | OD Range | | Bolts | Α | С | Sleeve Length x Thickness | Settin | g Gap | Gasket | Weight |
|-----|----------|----------|----------------|------|------|------------------------------|----------|----------|-----------|--------|
| | Min (mm) | Max (mm) | NoDia x Length | (mm) | (mm) | L x T (mm) | Min (mm) | Max (mm) | Mould No. | (kg) |
| 50 | 43.5 | 63.5 | 4-M12 x 235 | 151 | 242 | 144 x 5 | 18 | 60 | 6010 | 4.5 |
| 65 | 63.0 | 83.7 | 4-M12 x 235 | 171 | 242 | 144 x 5 | 18 | 60 | 6011 | 5.2 |
| 80 | 85.7 | 107.0 | 4-M12 x 260 | 192 | 267 | 170 x 5 | 18 | 100 | 6012 | 6.3 |
| 100 | 107.2 | 133.2 | 4-M16 x 290 | 231 | 300 | 180 x 5 | 18 | 110 | 6013 | 9.0 |
| 125 | 132.2 | 160.2 | 4-M16 x 290 | 265 | 300 | 180 x 5.5 | 18 | 110 | 6014 | 11.3 |
| 150 | 158.2 | 192.2 | 4-M16 x 340 | 308 | 350 | 213 x 5.5 | 18 | 130 | 6015 | 15.4 |
| 175 | 192.2 | 226.9 | 4-M16 x 340 | 344 | 350 | 215 x 7 | 18 | 130 | 6030 | 21.7 |
| 200 | 218.1 | 252.1 | 4-M16 x 340 | 369 | 350 | 220 x 8 | 18 | 135 | 6016 | 24.3 |
| 250 | 266.2 | 300.2 | 6-M16 x 420 | 417 | 430 | 300 x 8 | 18 | 215 | 6017 | 34.7 |
| 300 | 315.0 | 349.0 | 6-M16 x 420 | 466 | 430 | 300 x 8 | 18 | 215 | 6018 | 39.4 |

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^{*} Materials of construction at the discretion of Viking Johnson. Viking Johnson reserves the right to modify the details in this publication as products and specifications are updated and improved.

MegaFit Couplings

Datasheet

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Technical Information

Working Pressure Rating

Water 16 bar

Gas 6 bar

Vacuum Pressure

Capable of accommodating a vacuum pressure of -0.7 bar

Site Test Pressure

1.5 times working pressure for short duration (2 hours)

Angularity

Couplings 8°

The above are for when the product is on maximum pipe outside diameters; can achieve larger ones with smaller pipe diameters.

Bolt Torque/Spanner

M12; Torque 55-65Nm on every bolt

M16; Torque 95-110Nm on every bolt

Temperature Rating of Product

EPDM -20°C to +90°C

Nitrile -20°C to +90°C

For use on applications with fluctuating and / or elevated temperatures ($> 60^{\circ}$ C) may require regular maintenance to re-tighten the bolts and must be included in any maintenance schedule.

End Load Due to Internal Pressure

MegaFit DOES NOT resist end load due to the internal pressure - adequate external restraint must be provided to prevent pipe pull out.

Approvals

The following water contact materials used in MegaFit are approved for use with potable water:-

Rilsan Nylon 11:

WRAS, DVGW, W270, ACS & KIWA

EPDM Gaskets:

> WRAS

Materials & Relevant Standards

Sleeve*

SG ductile iron BS EN 1563, EN GJS-450-10

End Rings*

SG ductile iron BS EN 1563, EN GJS-450-10

Coatings

Centre Sleeve & End Rings:

> Rilsan Nylon 11 to WIS 4-52-01 Part 1

Bolts & Nuts:

➤ Sheraplex to WIS 4-52-03

Gasket

EPDM compound Grade 'E' to BS EN 681-1 WRAS approved Nitrile compound to DIN 3535-3

Bolts

Steel to BS EN ISO 898 Property Class Grade 8.8 equivalent DIN 267 - Part 3:Class 8.8

Nuts

Steel to BS EN20898-2 Property Class 8.0

Washers

Stainless Steel to BS 1449:Pt2 grade 304 S15

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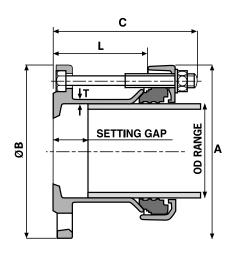
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MegaDaptor Flange Adaptors

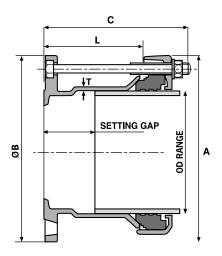
Datasheet

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Flange Adaptor Fig. 1



Flange Adaptor Fig. 2



Key

A = End Ring Diameter

B = Flange Diameter

C = Overall Length

L = Sleeve Length

T = Sleeve Thickness

Flange adaptors designed to join pipes of various materials and outside diameters to flanges of the same nominal size*.

MegaDaptor Flange Adaptors

| DN | OD Range (mm) | | Flange Nominal | Jange Flange Drilling | Flange Thickness | Bolts NoDia x Length | A (mm) | B (mm) | C (mm) | Sleeve Length x Thickness | Setting Gap (mm) | | Fig. | Gasket Mould | Weight (kg) |
|------|------------------|-------|-------------------|-----------------------|---------------------|-------------------------|-----------|-----------|-----------|---------------------------|---------------------|-----|------|-----------------|----------------|
| | Min | Max | E ĕ | Dillillig | (mm) | NoDia x Length | (111111) | (11111) | (11111) | (L) x (T) | Min | Max | | No. | > |
| 50 | 43.5 | 63.5 | 50 | PN10/PN16 | 17.0 | 4-M12 x 125 | 151 | 167 | 131 | 80 x 6 | 25 | 35 | 1 | 6010 | 4.4 |
| 65 | 63.0 | 83.7 | 65 | PN10/PN16 | 17.0 | 4-M12 x 125 | 171 | 185 | 132 | 80 x 6 | 25 | 35 | 1 | 6011 | 5.1 |
| 80 | 85.7 | 107.0 | 80 | PN10/PN16 | 17.0 | 4-M12 x 145 | 192 | 200 | 154 | 100 x 6 | 30 | 60 | 1 | 6012 | 5.8 |
| 100 | 107.2 | 133.2 | 100 | PN10/PN16 | 18.0 | 4-M16 x 180 | 231 | 234 | 191 | 130 x 6 | 57 | 85 | 2 | 6013 | 8.6 |
| 125 | 132.2 | 160.2 | 125 | PN10/PN16 | 18.0 | 4-M16 x 160 | 265 | 268 | 171 | 111 x 6 | 28 | 65 | 1 | 6014 | 9.8 |
| 150 | 158.2 | 192.2 | 150 | PN10/PN16 | 18.0 | 4-M16 x 210 | 303 | 317 | 220 | 150 x 6 | 70 | 100 | 2 | 6015 | 14.17 |
| 175* | 192.2 | 226.9 | 200 | PN10/PN16 | 18.0 | 4-M16 x 190 | 344 | 344 | 201 | 132 x 7 | 25 | 80 | 1 | 6030 | 17.2 |
| 200 | 218.1 | 252.1 | 200 | PN10/PN16 | 18.0 | 4-M16 x 230 | 369 | 374 | 241 | 180 x 7 | 75 | 130 | 2 | 6016 | 20.4 |
| 250 | 266.2 | 300.2 | 250 | PN10/PN16 | 20.0 | 6-M16 x 270 | 417 | 424 | 281 | 212 x 7 | 80 | 160 | 2 | 6017 | 27.5 |
| 300 | 315.0 | 349.0 | 300 | PN10/PN16 | 21.5 | 6-M16 x 270 | 466 | 472 | 281 | 211 x 8 | 80 | 160 | 2 | 6018 | 34.3 |

^{*}DN175 MegaDaptor supplied with DN200 flange.

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MegaDaptor Flange Adaptors

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2/2

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Vacuum Pressure

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Angularity

Flange Adaptors 4°

The above are for when the product is on maximum pipe outside diameters; can achieve larger ones with smaller pipe diameters.

Bolt Torque/Spanner

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Temperature Rating of Product

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Approvals

The following water contact materials used in MegaFit are approved for use with potable water:-

Rilsan Nylon 11:

> WRAS, DVGW, W270, ACS & KIWA

EPDM Gaskets:

> WRAS

Materials & Relevant Standards

Flange Adaptor Body*

SG ductile iron BS EN 1563, EN GJS-450-10

End Ring*

SG ductile iron BS EN 1563, EN GJS-450-10

Coatings

Adaptor Body & End Ring:

Rilsan Nylon 11 to WIS 4-52-01 Part 1

Bolts & Nuts:

➤ Sheraplex to WIS 4-52-03

Gasket

EPDM compound Grade 'E' to BS EN 681-1 WRAS approved Nitrile compound to DIN 3535-3

Bolts

Steel to BS EN ISO 898 Property Class Grade 8.8 equivalent DIN 267 - Part 3:Class 8.8

Nuts

Steel to BS EN20898-2 Property Class 8.0

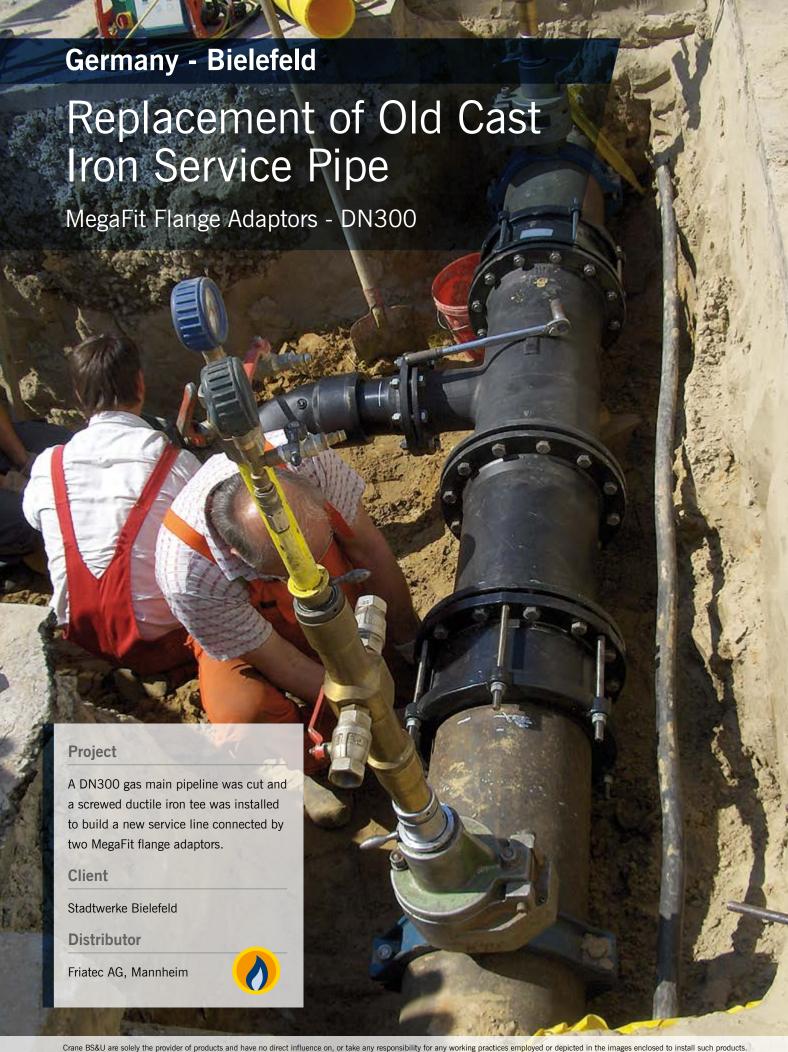
Washers

Stainless Steel to BS 1449:Pt2 grade 304 S15

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PIONEERS IN PIPE SOLUTIONS

46-48 WILBURY WAY HITCHIN, HERTFORDSHIRE SG4 0UD. UNITED KINGDOM

TELEPHONE: +44 (0)1462 443322 FAX: +44 (0)1462 443311 EMAIL: info@vikingjohnson.com

www.vikingjohnson.com

DUBAI SALES OFFICE CRANE BS&U BUILDING 4, OFFICE 901 THE GALLERIES PO BOX 17415 DOWNTOWN JEBEL ALI DUBAI. UAE

TELEPHONE: +971 4816 5800

FM 00311

ISO ISO 9001 14001 Environmental Ouality Management Management

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