





PIONEERS IN PIPE SOLUTIONS







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













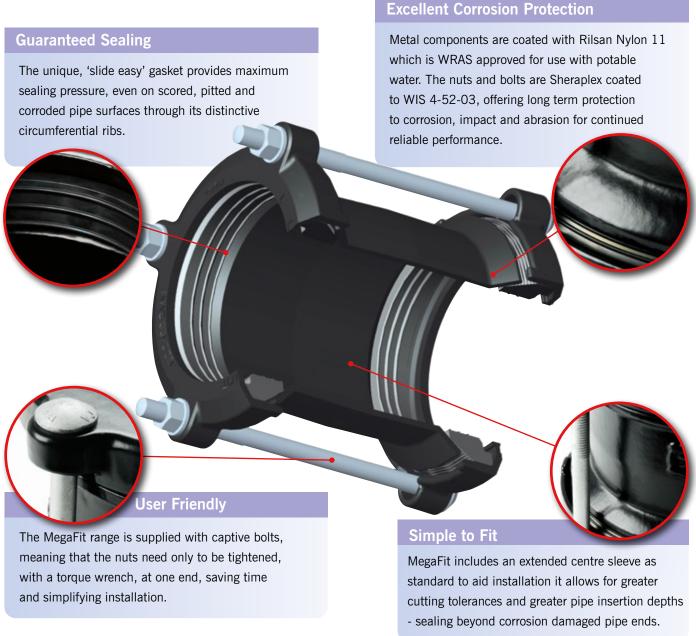






MegaFit Couplings and Flange Adaptors

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

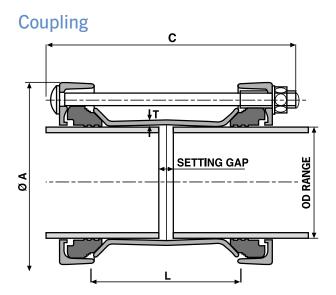
fittings, saving both time and cost.

ww.vikingjohnson.com Viking Johnson MegaFit

MegaFit Couplings

Datasheet

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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, AS/NZS 4020, 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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MegaDaptor Flange Adaptors

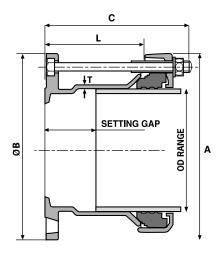
Datasheet

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Flange Adaptor Type 1

SETTING GAP A

Flange Adaptor Type 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	Flange Flange Drilling	Flange Thickness	Bolts NoDia x Length	A (mm)	B (mm)	C (mm)	Sleeve Length x Thickness	Setting Gap (mm)		Туре	Gasket Mould	Weight (kg)
	Min	Max	Ψž	Dillilig	(mm)	NoDia x Ecligati	(11111)	(11111)	(11111)	(L) x (T)	Min	Max	Ċ	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
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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
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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
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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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Angularity

Flange Adaptors 4°

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Bolt Torque/Spanner

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- ➤ WRAS, AS/NZS 4020, 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

Cacket

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

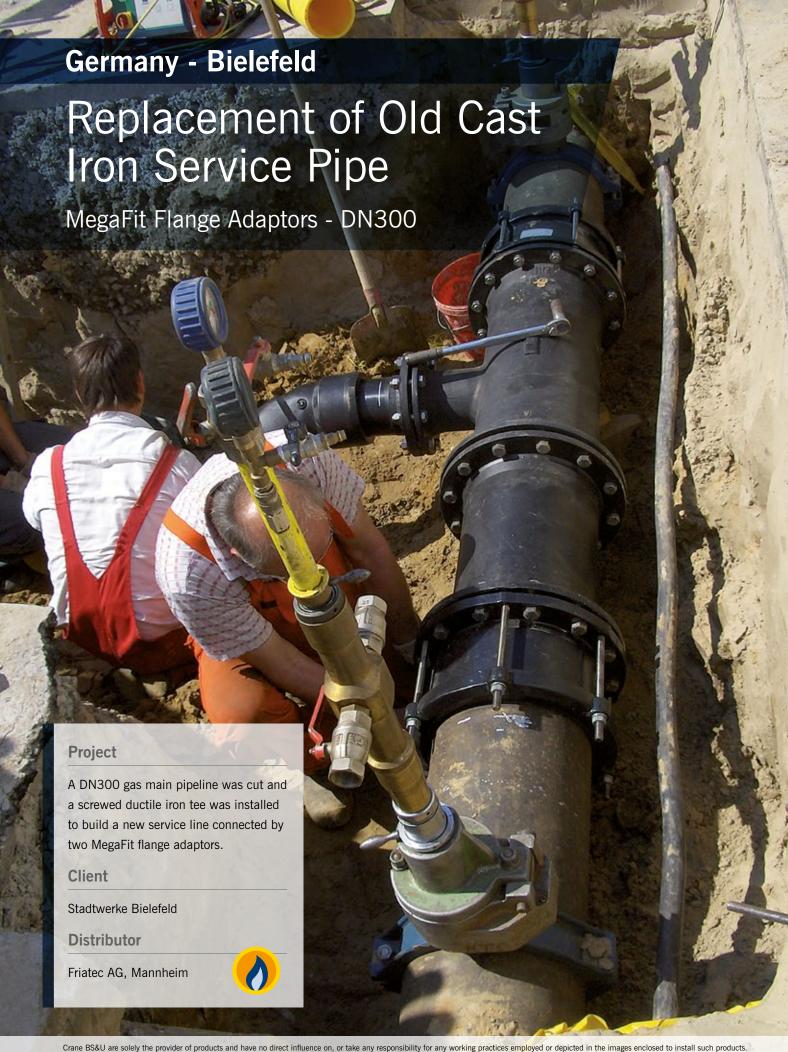
Steel to BS EN20898-2 Property Class 8.0

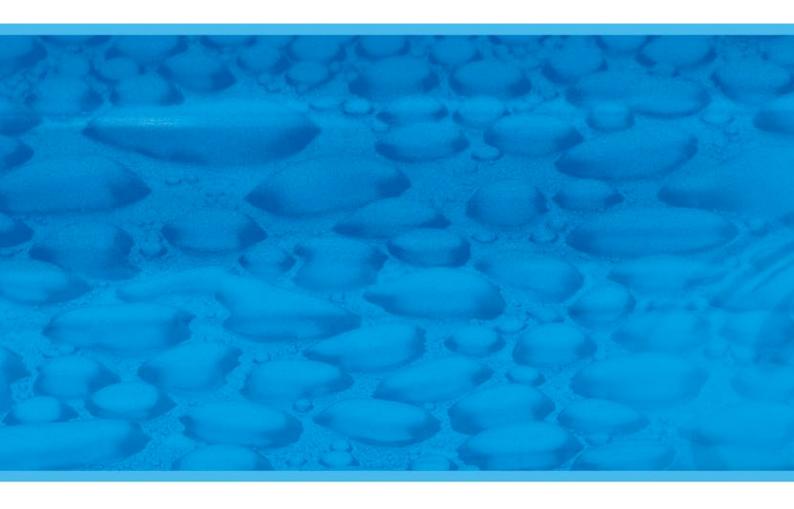
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