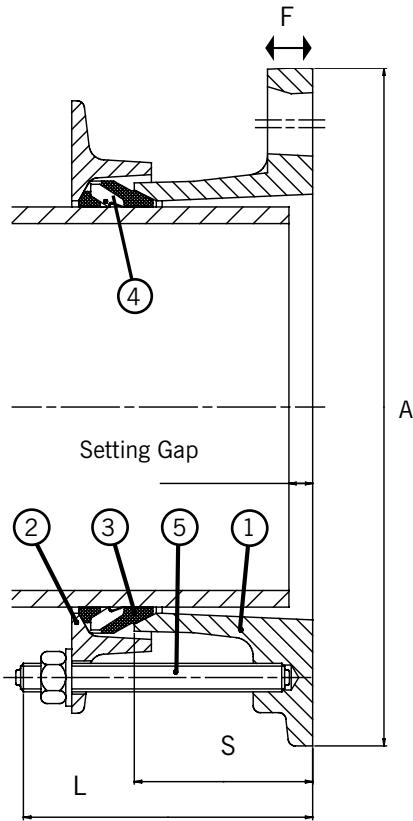


# FlexLock Flange Adaptors

Datasheet

1/2

## Flange Adaptor



### Key

- 1 = Flange Adaptor
- 2 = End Ring
- 3 = Gasket
- 4 = Gasket Gripper Teeth
- 5 = Stud

## FlexLock Flange Adaptors

Pipe Nom	Pipe OD (mm)	Pipe Material	Bolt Size No.-Dia x Length	Flange OD (A)	Overall Length (L)	Flange Thickness (mm) (F)	Sleeve Length (mm) (S)	Flange Nominal Drilling BS EN 1092-1	Working Pressure (bar)		Setting Gap		Gasket Mould	FA Weight (kg)
									Water	Gas	Min	Max		
DN50/2"	60.3	Steel	2-M12 x 115	160	123	16	75	50 PN10/16	16	6	10	30	1375	2.3
DN65/2.5"	76.1	Steel	2-M12 x 115	180	123	16	75	60/65 PN10/16	16	6	10	30	1394	2.6
DN80/3"	88.9	Steel	4-M12 x 115	195	123	16	75	80 PN10/16 90 PN6	16	6	10	30	1382	3.4
DN80/3"	98	Ductile Iron	4-M12 x 115	195	123	16	75	80 PN10/16 90 PN6	16	6	10	30	1630	4.0
DN100/4"	114.3	Steel	4-M12 x 115	215	123	16	75	100 PN10/16 110 PN6	16	6	10	30	1367	4.5
DN100/4"	118	Ductile Iron	4-M12 x 115	215	123	16	75	100 PN10/16	16	6	10	30	1618	4.4
DN150/6"	165.1	Steel	8-M12 x 115	285	127	25	75	150 PN10/16 6"E 6"ANSI 150	16	6	10	30	1369	9.3
DN150/6"	168.3	Steel	8-M12 x 115	286	123	19	75	150 PN10/16	16	6	10	30	1369	8.0
DN150/6"	170	Ductile Iron	8-M12 x 115	286	123	19	75	150 PN10/16	16	6	10	30	1369	8.0
DN200/8"	219.1	Steel	8-M12 x 115	341	123	19	75	200 PN10	10	6	10	30	1370	9.7
DN200/8"	219.1	Steel	8-M12 x 115	340	127	25	73	200 PN16	16	6	10	30	1370	15.2
DN200/8"	222	Ductile Iron	6-M16 x 125	341	137	19	75	200 PN16	16	6	10	30	1631	10.6
DN200/8"	222	Ductile Iron	8-M16 x 125	340	137	25	75	200 PN10 8"E	10	6	10	30	1631	13.9
DN250/10"	273.0	Steel	12-M16 x 125	405	137	19	90	250 PN10/16*	10	6	10	30	1737	16.4
DN250/10"	274	Ductile Iron	12-M16 x 125	405	137	19	90	250 PN10/16*	10	6	10	30	1737	16.4
DN300/12"	323.9	Steel	12-M16 x 125	467	137	19	90	300 PN10/16*	10	6	10	30	7667/8	22.7
DN300/12"	326	Ductile Iron	12-M16 x 125	467	137	19	90	300 PN10/16*	10	6	10	30	7667/8	22.7

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## Technical Information

### Working Pressure Rating

Water:

- DN50 to DN200 = 16 bar
- DN250 to DN300 = 10 bar

Gas:

- DN50 to DN300 = 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)

### Flange Drilling

While DN250 to DN300 are supplied with PN1616 drilling the rated working pressure (water) is only 10 bar as stated in the table.

### Angularity

Flange Adaptors 3°

### Bolt Torque/Spanner

M12; Torque 55-65Nm on every bolt

M16; Torque 95-120Nm on every bolt

### Temperature Rating of Product

EPDM -20°C to +40°C

Nitrile -20°C to +40°C

## Materials & Relevant Standards

### End Rings Options:

- SG. Iron to BS 1563: Symbol EN-GJS-450-10
- Rolled Steel to: BS EN 10025: Grade S275

### Flange Adaptor Body Options:

- Ductile Iron to BS EN 1563 EN-GJS-450-10
- Mild Steel to: BS EN 10025: Grade S275

### Gasket

EPDM compound Grade E to BS EN 681-1

Nitrile compound Grade 'G' to BS EN 682-1

### Gasket Gripper Teeth

Stainless Steel BS 3146: Part 2 Grade ANC2

### General Notes

- FlexLock is only suitable for use on Ductile Iron, Steel and Coated Steel Pipe
- For coated steel pipe the maximum permitted coating thickness is 500µ DFT. This is to ensure the stainless steel teeth properly grip onto the pipe surface to mobilize the end load capability of the products.
- Due to the surface characteristics of stainless steel pipe, FlexLock grippers are unable to achieve a guaranteed grip on the pipe surface.
- If the product has to be dismantled after installation then for reassembly a new gasket must be used, as there is a risk that the stainless steel teeth may become dislodged during this operation. These are available as spares from Viking Johnson by quoting gasket mould number from the table along with gasket compound.

### Approvals

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

Rilsan Nylon 11:

- WRAS, AS/NZS 4020, DVGW, W270, ACS & KIWA

EPDM Gaskets:

- WRAS, AS/NZS 4020

In addition to the above, FlexLock range as a finished product has KIWA certification verifying that the above products comply with the requirements of the Water Supply (Water Fittings) Regulations for England and Wales 1999, the Water Byelaws 2000, Scotland and the Water Regulations Northern Ireland.

### Coatings

Body, Centre Sleeve, & End Rings:

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

Studs & Nuts:

- Sheraplex coated to WIS 4-52-03

### Studs

Cold Forged Steel Fasteners to: BS EN ISO898-1: Property Class 8.8

### Nuts

Steel BS EN 20898-2: Property Class 8

### Washers

BS 4320 Form B Stainless Steel BS 1449:PT2: Grade 304 S15