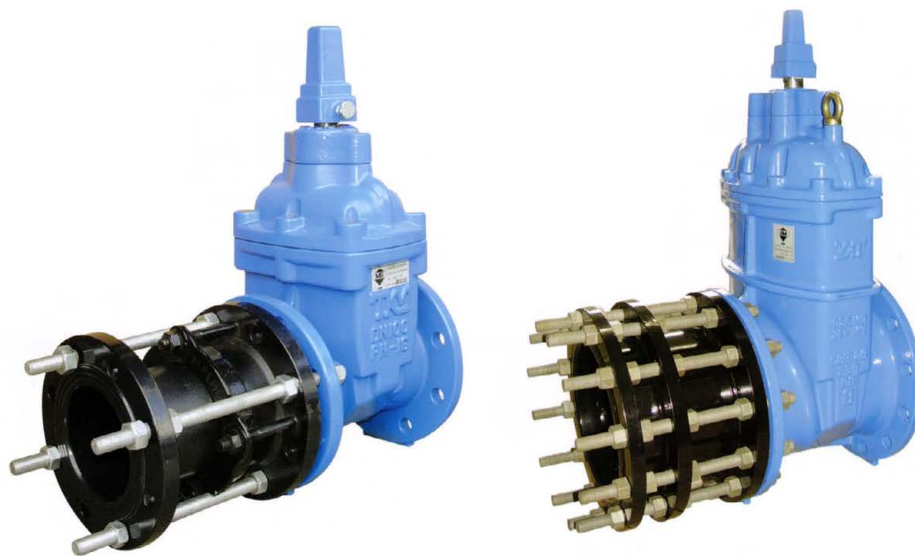


Dismantling Joint

The unique solution for flexibility in flanged pipework systems.



TECHNICAL GUIDE: **APF2.8**

Applications

Pump chambers
Valve chambers
Flow metering stations
Allows pipeline adjustment
during assembly

Product Attributes

Pre-assembled for ease of installation
Corrosion protective finishings.
Stainless steel studs, bolts, washers
and tie bars

Approvals/Standards

WRAS approved for use in
drinking water

Quality

ISO 9001 Manufacturing

PIPEMATE Flange Restrained Dismantling Joint has been developed to provide flexibility in flanged pipework systems at the design and installation stages.

The PIPEMATE Flange Restrained Dismantling Joint is available in welded steel as standard in any nominal size from 50mm upwards and can be fabricated to suit any flange drilling. Standard sizes and dimensions can be obtained from PIPEMATE in order for this joint to be specified within a project design.

Applications

- Designed for flanged pipe systems requiring longitudinal restraint and the need to be disassembled. Pressure water systems requiring end restraint allowing approximately 50 mm flange to flange movement.

Features

- A flange adaptor, flanged spigot piece and optional tie bars/bolts.
- Two flanged spigot pieces, a loose flange and full set of tie-bars/bolts.
- Fusion Bonded Epoxy (FBE)

Product Attributes

- Eliminates the need for more complex anchoring systems.
- Excellent method of providing a demountable joint in an otherwise flanged pipework systems.
- Corrosion Protection. The Flange Restrained Dismantling Joint will be coated standards with Fusion Bonded Epoxy (FBE). Other coatings will be available on request.

Materials and Relevant Standards

Flange Adaptor Body

- Steel To BS EN 10025 S275

Gasket

- Rubber to BS EN 681-1 or to suit service

End Ring

- Steel to BS EN 10025 S275 or Ductile Iron to BS EN 1563 Gr450/10

Flange Spigot

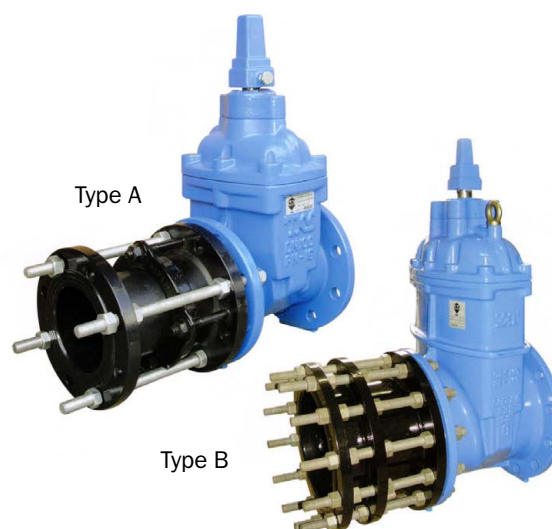
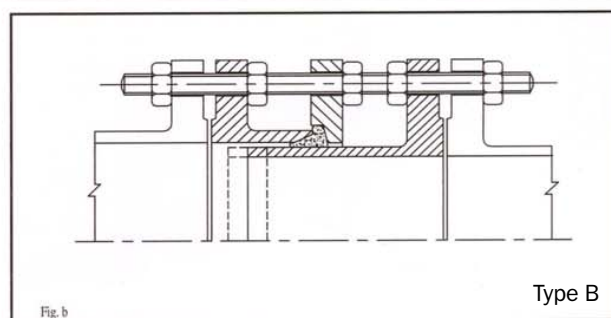
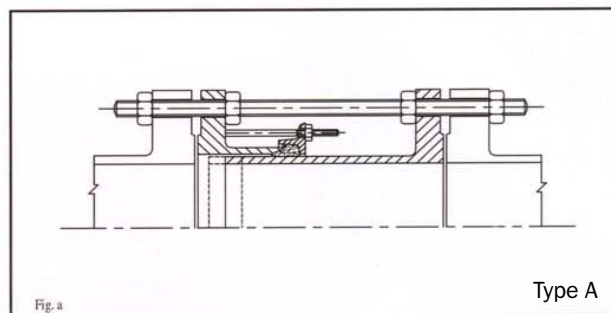
- Steel To BS EN 10025 S275

Studs

- Galvanized Steel/Stainless

Tie Bolts

- Steel Galvanized Steel/Stainless Steel



Type A Dismantling Joint DN150 to DN1000

Design Specification

- a. Flange:
Steel to BS EN 10025:1993
Grade S275 or equivalent
- b. End Flange & Flange Sleeve:
Rolled Steel to BS EN 10025:1993
Grade S275 or equivalent
- c. Finishing:
Fusion Bonded Epoxy Powder Coated
Coated Approx. 350 microns thick
(Black)
- d. Studs, Nuts & Washers:
Stainless Steel SS 316
- e. Tie Bars & Nuts:
Stainless Steel SS 316
- f. Sealing Ring:
NBR to BS EN 681-1 Type 'WA'
- g. Flange Drilling:
AS 4087 Class 16
- h. Working Pressure:
16 Bar

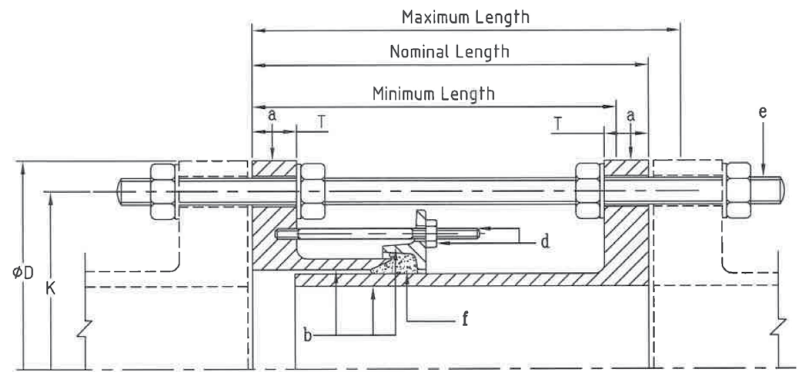


TABLE 1

Flange Details				Flange to Flange Details					Tie Bar Details			
DN	Ø D	K	T	Flange Drilling		Maximum Length (mm)	Minimum Length (mm)	Nominal Length (mm)	No. of Tie Bars	Ø x Length of Tie Bars	Volume (m ³)	Weight (kg)
				No. of Holes	Ø Holes							
150	280	235	15	8	18	220	170	195	v4	M16 x 320	0.025	19.2
200	335	292	20	8	18	250	200	225	4	M16 x 340	0.038	28.9
225	370	324	20	8	18	250	200	225	4	M16 x 340	0.047	36.0
250	405	356	20	8	22	250	200	225	4	M20 x 370	0.061	45.5
300	455	406	23	12	22	250	200	225	4	M20 x 370	0.077	54.5
350	525	470	25	12	26	260	210	235	4	M24 x 410	0.113	74.3
375	550	495	25	12	26	260	210	235	4	M24 x 410	0.124	78.7
400	580	521	25	12	26	300	250	275	6	M24 x 460	0.155	92.1
450	640	584	25	12	26	300	250	275	6	M24 x 460	0.188	104.5
500	705	641	25	16	26	300	250	275	8	M24 x 460	0.229	122.9
600	825	756	25	16	30	320	270	295	8	M27 x 480	0.327	157.9
700	910	845	25	20	30	320	270	295	10	M27 x 510	0.422	179.2
750	995	927	25	20	33	320	270	295	10	M33 x 510	0.505	227.1
800	1060	984	25	20	36	340	290	315	10	M33 x 540	0.607	248.8
900	1175	1092	25	24	36	340	290	315	12	M33 x 560	0.773	302.1
1000	1255	1175	25	24	36	360	310	335	12	M33 x 590	0.929	311.6

Type B Dismantling Joint DN150 to DN1000

Design Specification

- Flange & End Flange:
Steel to BS EN 10025:1993
Grade S235 or equivalent
- Flange Sleeve:
Rolled Steel to BS EN 10025:1993
Grade S275 or equivalent
- Finishing:
Fusion Bonded Epoxy Powder Coated
Coated Approx. 350 microns thick
- Tie Bars, Nuts & Washer:
Stainless Steel SS 316
- Sealing Ring:
NBR to BS EN 681-1 Type 'WA'
- Flange Drilling:
AS 4087 Class 16
- Working Pressure:
16 Bar

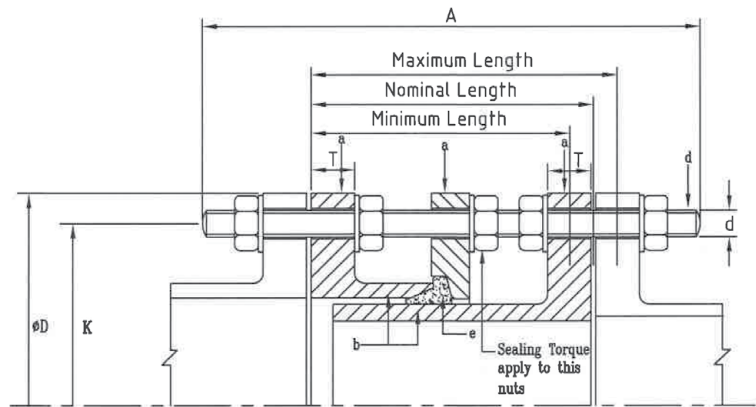


TABLE 2

Flange Details				Flange to Flange Details							Tie Bar Details		
DN	Ø D	K	T	Bolts Hole Ø	Studs			Maximum Length (mm)	Minimum Length (mm)	Nominal Length (mm)	Volume (m3)	Weight (kg)	Sealing Torque (Nm)
					No.	Size	d Length A						
80	185	146	15	18	4	M16	310	220	170	195	0.011	12.4	90-110
100	215	178	15	18	4	M16	31	220	170	195	0.014	14.9	90-110
150	280	235	15	18	8	M16	320	220	170	195	0.025	24.1	50-70
200	335	292	20	18	8	M16	340	220	200	225	0.038	35.6	70-90
225	370	324	20	18	8	M16	340	250	200	225	0.047	43.8	70-90
250	405	356	20	22	8	M20	370	250	200	225	0.061	55.1	90-110
300	455	406	23	22	12	M20	370	250	200	225	0.077	71.2	60-80
350	525	470	25	26	12	M24	410	250	210	235	0.113	102.2	90-110
375	550	495	25	26	12	M24	410	260	210	235	0.124	107.5	90-110
400	580	521	25	26	12	M24	460	300	250	275	0.155	119.2	90-110
450	640	584	25	26	12	M24	460	300	250	275	0.188	134.6	110-130
500	705	641	25	26	16	M24	460	300	250	275	0.229	161.6	90-110
600	825	756	25	30	16	M27	480	320	270	295	0.327	210.7	110-130
700	910	845	25	30	20	M27	510	320	270	295	0.422	233.0	130-150
750	995	927	25	33	20	M30	510	320	270	295	0.505	308.9	140-160
800	1060	984	25	36	20	M33	540	340	290	315	0.607	342.1	150-170
900	1175	1092	25	36	24	M33	560	340	290	315	0.773	414.9	150-170
1000	1255	1175	25	36	24	M33	590	360	310	335	0.929	417.5	150-170



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information

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March 2024