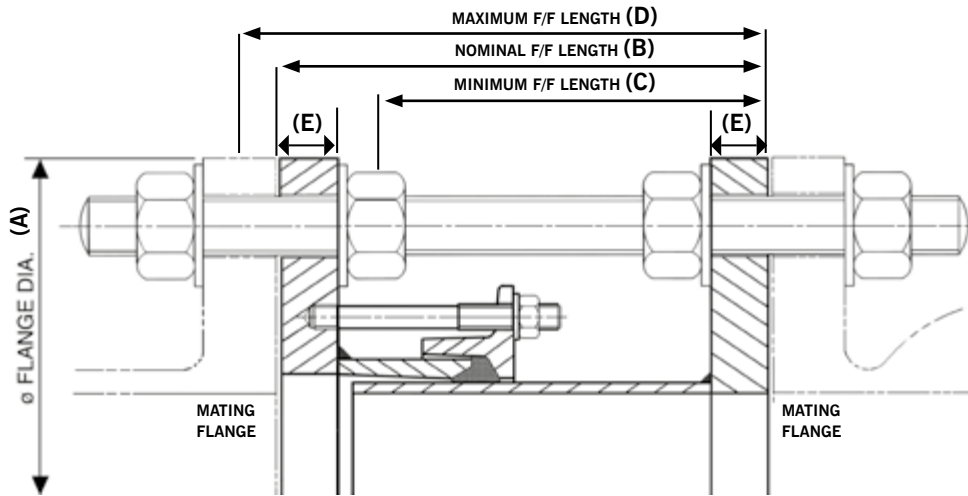


# Dismantling Joints 4" to 40" AWWA (Class D)

## Dismantling Joint

(For diameters over 40" contact Viking Johnson)



**Note:** Maximum Longitudinal F/F Adjustment = Maximum F/F Length – Minimum F/F Length

## Dismantling Joints (Standard Product)

Table provides details of standard product – for products offering longer flange dimensions and / or increased longitudinal adjustment contact Viking Johnson.

Flange Details				Flange To Flange Details			Tie Rod Details				
Nom	Drilling	Flange Thickness	Flange OD	Nominal Length	Minimum Length	Maximum Length	Tie Rod Dia x Length	H.T Zinc Plated Steel H.T Steel BS4882 Grade MB7 Yield 725N/mm <sup>2</sup>		Stainless Steel Class 70 Yield 450N/mm <sup>2</sup>	
		E (mm)	A (mm)	B (mm)	C (mm)	D (mm)		No.	Total Weight of DJ (kg)	No.	Total Weight of DJ (kg)
4"	Class D	18	229	187	167	207	5/8" x 11 1/2"	4	14.2	4	14.2
6"	Class D	18	279	187	167	207	3/4" x 12"	4	19.7	4	19.7
8"	Class D	18	343	187	167	207	3/4" x 12"	4	27.5	4	27.5
10"	Class D	18	406	187	167	207	7/8" x 12"	4	35.4	4	35.4
12"	Class D	18	483	187	167	207	7/8" x 12 1/2"	4	48.3	4	48.3
14"	Class D	18	533	295	270	320	1" x 17 1/2"	4	69.3	4	69.3
16"	Class D	18	597	295	270	320	1" x 17 1/2"	4	79.7	4	79.7
18"	Class D	23	635	300	275	325	1 1/8" x 18 1/2"	4	98.3	4	98.3
20"	Class D	23	698	300	275	325	1 1/8" x 18 1/2"	5	115.0	5	115.0
24"	Class D	23	813	300	275	325	1 1/4" x 19"	5	143.0	5	143.0
28"	Class D	23	927	300	275	325	1 1/4" x 19"	7	176.0	7	176.0
30"	Class D	23	984	300	275	325	1 1/4" x 19"	7	189.0	7	189.0
32"	Class D	23	1060	300	275	325	1 1/2" x 20"	7	218.0	7	218.0
36"	Class D	25	1168	307	277	337	1 1/2" x 20 1/2"	8	278.0	8	278.0
40"	Class D	25	1289	307	277	337	1 1/2" x 20 1/2"	9	320.0	9	320.0

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# Dismantling Joints 4" to 40" AWWA (Class D)

Datasheet

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## Technical Information

### Working Pressure Rating

Water - In accordance with the flange rating  
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

Dismantling joints are in essence double flanged pipe where the flange to flange dimension can be adjusted, and therefore are not able to accommodate any angularity.

### Bolt Torque/Spanner

M12; Torque 55-65Nm on every bolt  
M16; Torque 95-110Nm on every bolt

### Tie rods

Torque is a function of the flange connecting gasket, not supplied by Viking Johnson; consult flange gasket supplier.

### 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°C) may require regular maintenance to re-tighten the bolts and must be included in any maintenance schedule.

### Approvals

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

Rilsan Nylon 11:

- WRAS, DVGW, W270, ACS & KIWA

EPDM Gaskets:

- WRAS

## Materials & Relevant Standards

### Flange Drilling

ANSI/AWWA C207-01

### Fabricated Flange Adaptor Body

Rolled Steel to BS EN 10025-2:  
Grade S275

### End Rings Options:

- Ductile Iron to BS EN1563:  
Symbol EN-GJS-450-10
- Rolled Steel to BS EN 10025-2:  
Grade S275

### Sleeve Options:

- Steel Tube to BS EN10255:
- Steel Tube to BS EN10216-1:  
Grade P265TR1
- Rolled Steel to BS EN 10025-2:  
Grade S275
- Rolled Steel to BS EN 10025-2:  
Grade S355  
(depending on section)

### Flange

Rolled Steel to BS EN 10025-2:  
Grade S275

### Spigot Options:

- Steel Tube to BS EN10255
- Steel Tube to BS EN10216-1:  
Grade P265TR1
- Rolled Steel to BS EN 10025-2:  
Grade S275

### Gaskets

Standard:

- EPDM to BS EN681-1: Type WA

Other gasket grades are available contact Viking Johnson.

### Coatings

Flange Adaptor, Spigot & End Ring:

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

Option 1 Flange Adaptor bolts & Nuts:

- Sheraplex to WIS 4-52-03

Steel Tie Rods/Nuts:

- Zn<sup>3</sup> Zinc coated

### Tie Rods, Studs, Nuts and Washers

The following two options are as standard variants:-

#### Option 1: Zinc Plated Steel

##### Tie Rods

ASTM A193 (Grade B7/MB7) equivalent to BS EN10269:+A1: Name 42CrMo4 (Yield 725N/mm<sup>2</sup>)

##### Tie Rod Nuts

ASTM A194 Grade 2H/M2H equivalent to BS EN20898-2: Property Class 8.00

##### Flange Adaptor Studs

Steel to BS EN ISO898-1: Property Class 4.8

##### Flange Adaptor Nuts

Steel to BS4190: Grade 4

##### Flange Adaptor Washers

Stainless Steel to BS1449:Part 2: Grade 304S15

#### Option 2: Stainless Steel

##### Tie Rods

Stainless Steel to BS EN3506-1: Grade A4 Property Class 70 (Yield 450N/mm<sup>2</sup>)

##### Tie Rod Nuts

Stainless Steel to BS EN3506-2: Grade A4 Property Class 80

##### Flange Adaptor Studs

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

##### Flange Adaptor Nuts

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

##### Flange Adaptor Washers

Stainless Steel to BS1449: Part 2: Grade 304S15

Couplings & Flange Adaptors

Dedicated