

Dismantling Joints™

Dedicated DN40 - DN4000

Fully Restrained Double Flanged Fitting





Developed for Complete Versatility

The Dismantling Joint range was developed to provide greater versatility for the designer at the planning stage and the engineer in the installation stage of flanged pipe work systems and to allow for simple maintenance programmes.

Allows for Adjustment

The Dismantling Joints are double flanged fittings that accommodate up to 100mm (4") longitudinal adjustment and can be locked at the required length with the tie bars supplied. Not only does this system allow for fast, easy maintenance of valves, pumps or meters, it simplifies future pipe work modifications and reduces downtime when changes need to be made.

Easy to Install

The installation is also straightforward using just a spanner and torque wrench to tighten the high tensile steel or stainless steel tie bars. With fewer tie bars than flange holes that also act as flange jointing bolts, the installation process is quick and easy while offering a secure, rigid, fully end load resistant system with a pressure rating equal to that of the flange.

The Range

A comprehensive range is available from DN40 (1½") to DN4000 (144") with virtually any flange drilling or pressure rating supplied. Larger sizes and custom made Dismantling Joints can be designed and built on request.



Dismantling Joints

Flanged Pipe Materials



Dismantling Joint

Product Design Benefits

Full Flange Sealing

The flange of the spigot piece provides a full flange sealing area, making it ideal for applications where a full-face flange is required, e.g. wafer and butterfly valves.

Longitudinal Adjustment

Longitudinal adjustment facilitates installation and removal of flanged equipment.

Excellent Corrosion Protection

The flange adaptor and flange spigot are coated with WRAS approved Rilsan Nylon 11 providing excellent protection from transport, storage, site and corrosion damage. The tie bars are Zn³ Zinc Plated as standard with other coatings, grades and finishes available on request. The nuts and bolts are Sheraplex coated to WIS-4-52-03, offering long term protection against corrosion.

Independent Gasket Tightening

Studs independent of the tie rods compress the gasket ensuring long term sealing performance that is not effected due to any external loading.

Reduced Weight

The use of high tensile steel in the tie rods reduces the number required to accommodate end load forces, reducing the overall weight of the product.

Compact Design

Harnessing is provided within the bolt circle, eliminating other complex anchoring systems and reducing space requirements.

Customer Benefits

- ▶ Viking Johnson's Dismantling Joints are particularly suitable for simplifying the installation and removal of isolation valves, control valves, check valves, non-return valves, flow metering valves, pump sets, pressure reducing valves, flanged pipe and fittings.
- ▶ The simplicity and versatility of the fittings make them suitable for many applications including pumping stations, water treatment works, sewage treatment works, plant rooms, meter chambers, power generation equipment, gas distribution stations.
- ▶ Studs independent of the tie rods compress the gasket allowing the use of smaller diameters than those in the flange connecting bolts so improving access for operatives during installation.
- ▶ Use of high tensile steel in the tie rods reduces the number required to accommodate the end load forces making it easier and quicker for operatives to install, especially in tight spaces, chambers and congested pump stations.

Qatar - Doha

Dukhan Road Highway East Construction

Dismantling Joints - DN200/DN1200

Large Diameter Couplings

Large Diameter Flange Adapters

Project

Dukhan Highway, Qatar development consists of ten grade-separated interchange, seven camel underpasses and an 87km two way collector road which will create a strategic east-west highway.

Client

ASHGAL

Consultant

Parsons

Contractor

UNICORP

Crane BS&U are solely the provider of products and have no direct influence on, or take any responsibility for any working practices employed or depicted in the images enclosed to install such products.

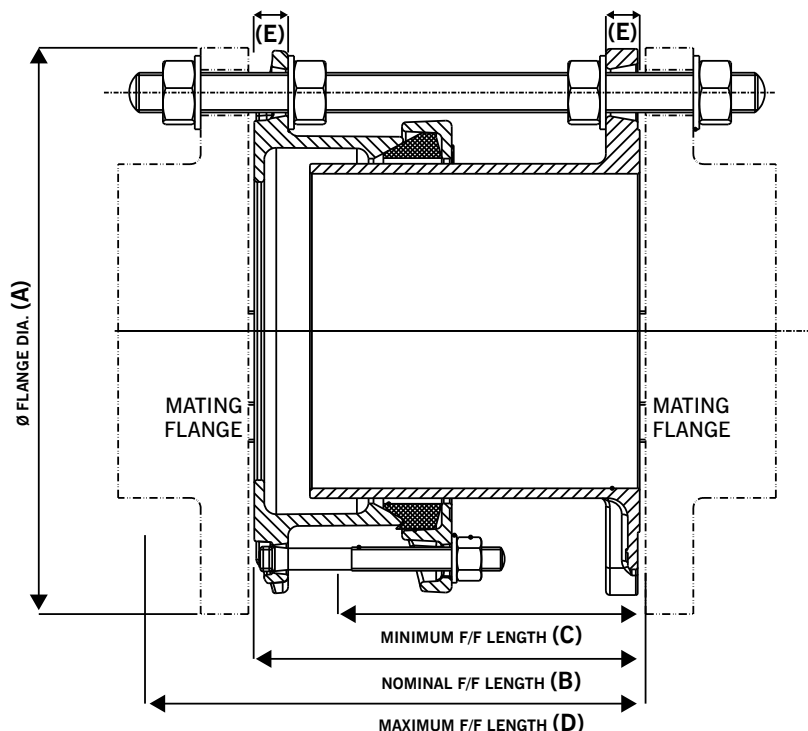


Dismantling Joints Cast DN40 to DN300 (PN10,16,25,40)

Datasheet

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Dismantling Joint (Cast)



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	Steel Tie Rod			Stainless Steel Tie Rod		
		Flange Adaptor E (mm)	Spigot E (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Dia x Length (mm)	No.	Total Weight of DJ (kg)	Dia x Length (mm)	No.	Total Weight of DJ (kg)
50	PN10,16,25,40	17	17	165	194	174	214	M16 x 300	4	6.9	M16 x 300	4	6.9
65	PN10,16	17	17	185	194	174	214	M16 x 300	4	7.7	M16 x 300	4	7.7
80	PN10,16,25,40	17	17	200	194	174	214	M16 x 300	4	9.4	M16 x 300	4	9.4
100	PN10,16	17	17	220	194	174	214	M16 x 300	4	10.4	M16 x 300	4	10.4
125	PN10,16	17	17	250	194	174	214	M16 x 300	4	11.9	M16 x 300	4	11.9
150	PN10,16	17	17	285	194	174	214	M20 x 310	4	15.8	M20 x 310	4	15.8
200	PN10	20	20	340	194	174	214	M20 x 310	4	21.6	M20 x 310	4	21.6
200	PN16	20	20	340	194	174	214	M20 x 310	4	21.6	M20 x 310	4	21.6
250	PN10	19	20	395	194	174	214	M20 x 310	4	28.9	M20 x 310	4	28.9
250	PN16	19	20	405	194	174	214	M24 x 330	4	31.6	M24 x 330	4	31.6
300	PN10	19	19	445	194	174	214	M20 x 310	4	32.8	M20 x 310	4	32.8
300	PN16	19	20	460	194	174	214	M24 x 330	4	35.4	M24 x 330	4	35.4

Every effort has been made to ensure that the information contained in this publication is accurate at the time of publishing. Crane Ltd assumes no responsibility or liability for typographical errors or omissions or for any misinterpretation of the information within the publication and reserves the right to change without notice.

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Dismantling Joints Cast DN40 to DN300 (PN10,16,25,40)

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

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

BS EN 1092-2
(formerly BS4504), ISO7005

Cast Flange Adaptor Body & End Rings

Ductile Iron to BS EN1563:
Symbol EN-GJS-450-10

Cast Flange Spigot:

Ductile Iron to BS EN1563:
Symbol EN-GJS-450-10

Steel Spigot Options:

- Steel tube to BS EN10255
- Steel tube to BS EN10216-1:
Grade P265TR1
- Rolled steel to BS EN10025-2:
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:

- Zn³ 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/mm²)

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/mm²)

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

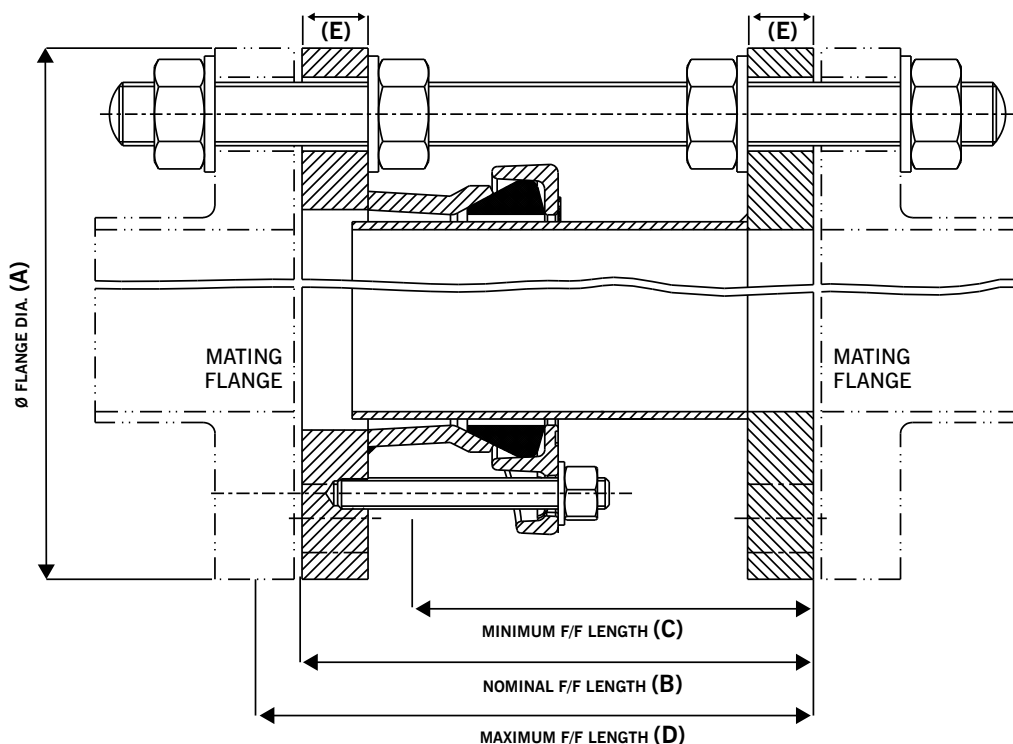
Stainless Steel to BS1449: Part 2: Grade 304S15

Dismantling Joints Fabricated DN40 to DN300 (PN10,16,25,40)

Datasheet

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Dismantling Joint (Fabricated)



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	Steel Tie Rod			Stainless Steel Tie Rod		
		Flange Adaptor E (mm)	Spigot E (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Dia x Length (mm)	No.	Total Weight of DJ (kg)	Dia x Length (mm)	No.	Total Weight of DJ (kg)
40	PN10,16,25,40	18	18	150	187	167	207	M16 x 300	4	7.8	M16 x 300	4	7.8
100	PN25,40	25	25	235	194	174	214	M20 x 320	4	19.2	M20 x 320	4	19.2
125	PN25,40	25	25	270	194	174	214	M24 x 330	4	26.2	M24 x 330	4	26.2
150	PN25	25	25	300	194	174	214	M24 x 330	4	28.9	M24 x 330	4	28.9
150	PN40	25	25	300	194	174	214	M24 x 330	4	28.8	M24 x 330	4	28.8
200	PN25	25	25	360	194	174	214	M24 x 340	4	37.5	M24 x 340	4	37.5
200	PN40	25	25	375	194	174	214	M27 x 350	4	42.6	M27 x 350	4	42.6
250	PN25	25	25	425	194	174	214	M27 x 350	4	49.1	M27 x 350	4	49.1
250	PN40	25	25	450	194	174	214	M30 x 370	4	57.9	M30 x 370	4	57.9
300	PN25	25	25	485	194	174	214	M27 x 350	4	57.1	M27 x 350	4	57.1
300	PN40	25	25	515	194	174	214	M30 x 380	4	69.8	M30 x 380	4	69.8

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Dismantling Joints Fabricated DN40 to DN300 (PN10,16,25,40)

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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

BS EN1092-1
(formerly BS4504), ISO7005

Fabricated Flange Adaptor Body

Rolled Steel to BS EN 10025-2:
Grade S275

End Rings

Rolled Steel to BS EN 10025-2:
Grade S275

Ductile Iron to BS EN1563:
Symbol EN-GJS-450-10

Sleeve Options

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

Fabricated Flange Spigot:

Rolled steel to BS EN10025-2:
Grade S275

Steel Spigot Options:

- Steel tube to BS EN10255
- Steel tube to BS EN10216-1:
Grade P265TR1
- Rolled steel to BS EN10025-2:
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:

- Zn³ 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/mm²)

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/mm²)

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

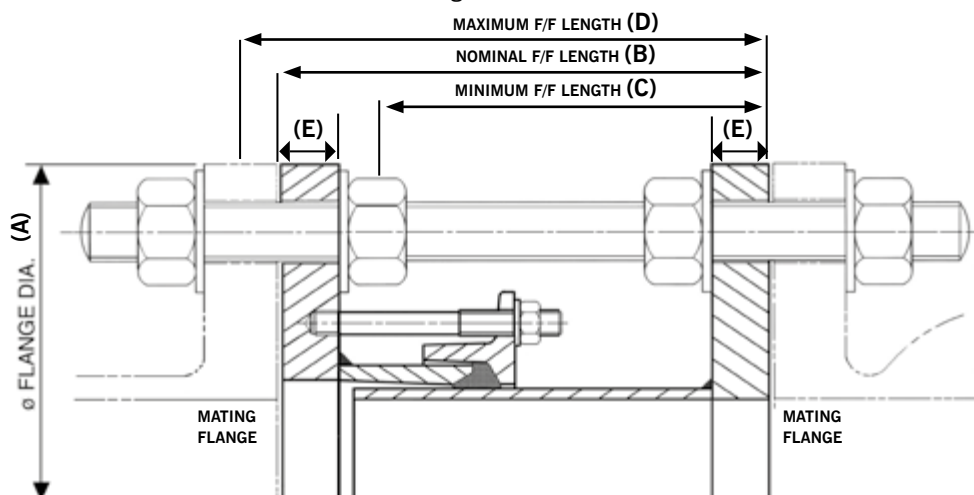
Dismantling Joints DN350 to DN2400 (PN10)

Datasheet

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Dismantling Joint

(For diameters over DN2400 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	Steel Tie Rod			Stainless Steel Tie Rod		
		E (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Dia x Length (mm)	No.	Total Weight of DJ (kg)	Dia x Length (mm)	No.	Total Weight of DJ (kg)
350	PN10	18	505	295	270	320	M20 x 430	4	57.7	M20 x 430	4	57.7
400	PN10	18	565	295	270	320	M24 x 440	4	68.9	M24 x 440	4	68.9
450	PN10	23	615	300	275	325	M24 x 450	5	87.2	M24 x 450	5	87.2
500	PN10	23	670	300	275	325	M24 x 460	5	97.1	M24 x 460	5	97.1
550	PN10	23	730	300	275	325	M27 x 470	5	112.0	M27 x 470	5	112.0
600	PN10	23	780	300	275	325	M27 x 470	5	120.0	M27 x 470	5	120.0
650	PN10	23	835	300	275	325	M27 x 480	6	132.0	M27 x 480	6	132.0
700	PN10	23	895	300	275	325	M27 x 480	6	146.0	M27 x 480	6	146.0
800	PN10	23	1015	300	275	325	M30 x 500	6	167.0	M30 x 500	8	169.0
900	PN10	25	1115	307	277	337	M30 x 520	7	211.0	M30 x 520	8	215.6
1000	PN10	25	1230	307	277	337	M33 x 530	7	246.0	M33 x 530	8	251.0
1100	PN10	25	1340	307	277	337	M33 x 540	8	276.0	M33 x 540	10	286.0
1200	PN10	38	1455	320	290	350	M36 x 570	8	414.0	M36 x 570	10	426.0
1300	PN10	38	1575	320	290	350	M39 x 590	8	475.0	M39 x 590	10	491.0
1400	PN10	38	1675	320	290	350	M39 x 600	9	509.0	M39 x 600	12	533.0
1500	PN10	38	1785	320	290	350	M39 x 610	9	606.0	M39 x 610	12	631.0
1600	PN10	38	1915	320	290	350	M45 x 630	10	731.0	M45 x 630	10	731.0
1800	PN10	38	2115	320	290	350	M45 x 650	11	829.0	M45 x 650	14	866.0
2000	PN10	60	2325	462	412	512	M45 x 830	12	1,412.0	M45 x 830	16	1,470.0
2200	PN10	60	2550	462	412	512	M52 x 860	13	1,699.0	M52 x 950	14	1,775.0
2400	PN10	60	2760	462	412	512	M52 x 880	14	1,878.0	M52 x 970	18	2,032.0

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Dismantling Joints DN350 to DN2400 (PN10)

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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

In addition to the above, the flange adaptor component in the Dismantling Joint has as a finished product KIWA certification verifying that it complies 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.

Materials & Relevant Standards

Flange Drilling

BS EN1092-1
(formerly BS4504), ISO7005

Fabricated Flange Adaptor Body

Rolled Steel to BS EN 10025-2:
Grade S275

End Rings & Sleeve Options

- 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 BS10216-1:
Grade P265TR1
- Rolled steel to BS EN10025-2:
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:

- Zn³ 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/mm²)

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/mm²)

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

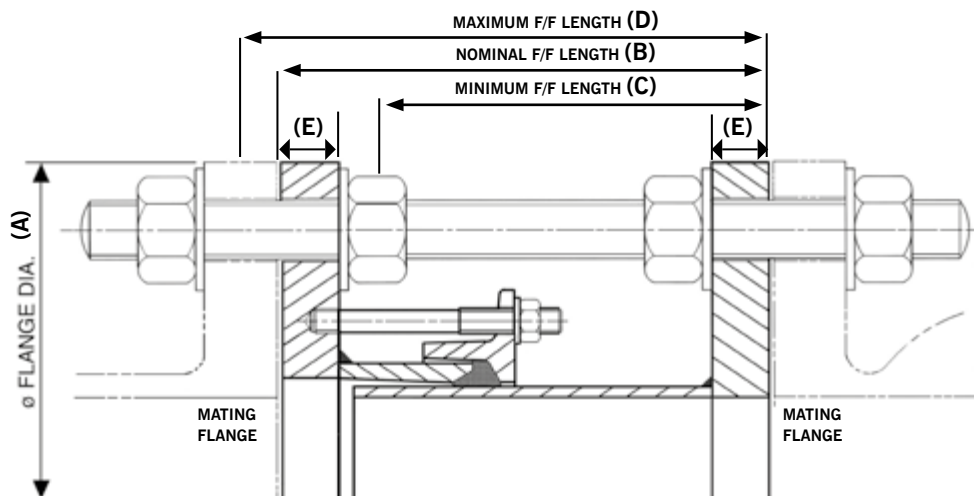
Dismantling Joints DN350 to DN2400 (PN16)

Datasheet

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Dismantling Joint

(For diameters over DN2400 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	Steel Tie Rod			Stainless Steel Tie Rod		
		E (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Dia x Length (mm)	No.	Total Weight of DJ (kg)	Dia x Length (mm)	No.	Total Weight of DJ (kg)
350	PN16	18	520	295	270	320	M24 x 450	4	63.4	M24 x 450	4	63.4
400	PN16	18	580	295	270	320	M27 x 460	4	75.2	M27 x 460	4	75.2
450	PN16	23	640	300	275	325	M27 x 470	5	99.0	M27 x 470	5	99.0
500	PN16	23	715	300	275	325	M30 x 480	5	121.0	M30 x 480	5	121.0
550	PN16	23	775	300	275	325	M30 x 490	5	134.0	M30 x 490	5	134.0
600	PN16	23	840	300	275	325	M33 x 500	5	154.0	M33 x 500	5	154.0
650	PN16	23	860	300	275	325	M33 x 510	6	153.0	M33 x 510	6	153.0
700	PN16	23	910	300	275	325	M33 x 520	6	162.0	M33 x 520	6	162.0
750	PN16	23	970	300	275	325	M33 x 530	6	177.0	M33 x 530	8	182.0
800	PN16	23	1025	300	275	325	M36 x 540	6	184.0	M36 x 540	8	190.5
900	PN16	25	1125	307	277	337	M36 x 570	7	232.0	M36 x 570	10	251.5
1000	PN16	25	1255	307	277	337	M39 x 590	7	282.0	M39 x 590	10	306.5
1100	PN16	38	1355	320	290	350	M39 x 610	8	406.0	M39 x 610	12	438.0
1200	PN16	38	1485	320	290	350	M45 x 640	8	505.0	M45 x 640	10	529.0
1300	PN16	38	1585	320	290	350	M45 x 650	8	533.0	M45 x 650	12	582.0
1400	PN16	38	1685	320	290	350	M45 x 660	9	583.0	M45 x 660	14	644.0
1500	PN16	38	1820	320	290	350	M52 x 690	9	760.0	M52 x 770	12	829.0
1600	PN16	38	1930	320	290	350	M52 x 710	10	850.0	M52 x 800	12	903.0
1800	PN16	38	2130	320	290	350	M52 x 730	11	962.0	M52 x 810	16	1,075.0
2000	PN16	60	2345	462	412	512	M56 x 930	12	1,662.0	M56 x 1020	18	1,899.0
2200	PN16	60	2555	462	412	512	M56 x 950	13	1,871.0	M56 x 1040	20	2,145.0
2400	PN16	60	2765	462	412	512	M56 x 980	16	2,144.0	M56 x 1070	24	2,468.0

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Dismantling Joints DN350 to DN2400 (PN16)

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

In addition to the above, the flange adaptor component in the Dismantling Joint has as a finished product KIWA certification verifying that it complies 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.

Materials & Relevant Standards

Flange Drilling

BS EN1092-1
(formerly BS4504), ISO7005

Fabricated Flange Adaptor Body

Rolled Steel to BS EN 10025-2:
Grade S275

End Rings & Sleeve Options

- 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 BS10216-1:
Grade P265TR1
- Rolled steel to BS EN10025-2:
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:

- Zn³ 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/mm²)

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/mm²)

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

Ein Karem Reservoir - Israel

Pump Station at Ein Karem Reservoir

Dismantling Joints Set - DN2400

Project

Viking Johnson has manufactured and supplied two DN2400 PN16 Dismantling Joints to Lirom Technical Equipment Ltd, their channel partner in Israel, for the Mekorot Water Company to be installed at Ein Karem Reservoir Pumping Station, located south west of Jerusalem. The project was designed by Tahal Engineers Ltd. based in Tel Aviv. The new Pump Station is part of the The Fifth Line to Jerusalem which will serve 1 million people in the area and is scheduled to open in 2022.

The high performance Dismantling Joints are designed in accordance with AWWA C219, with the manufacturing process incorporating the use of flash butt welding cold expansion. This method increases the strength of the steel through work hardening, ensures roundness of manufacture and verifies structural integrity of the material with loads substantially greater than in service and negates the need for any works hydrostatic pressure testing.

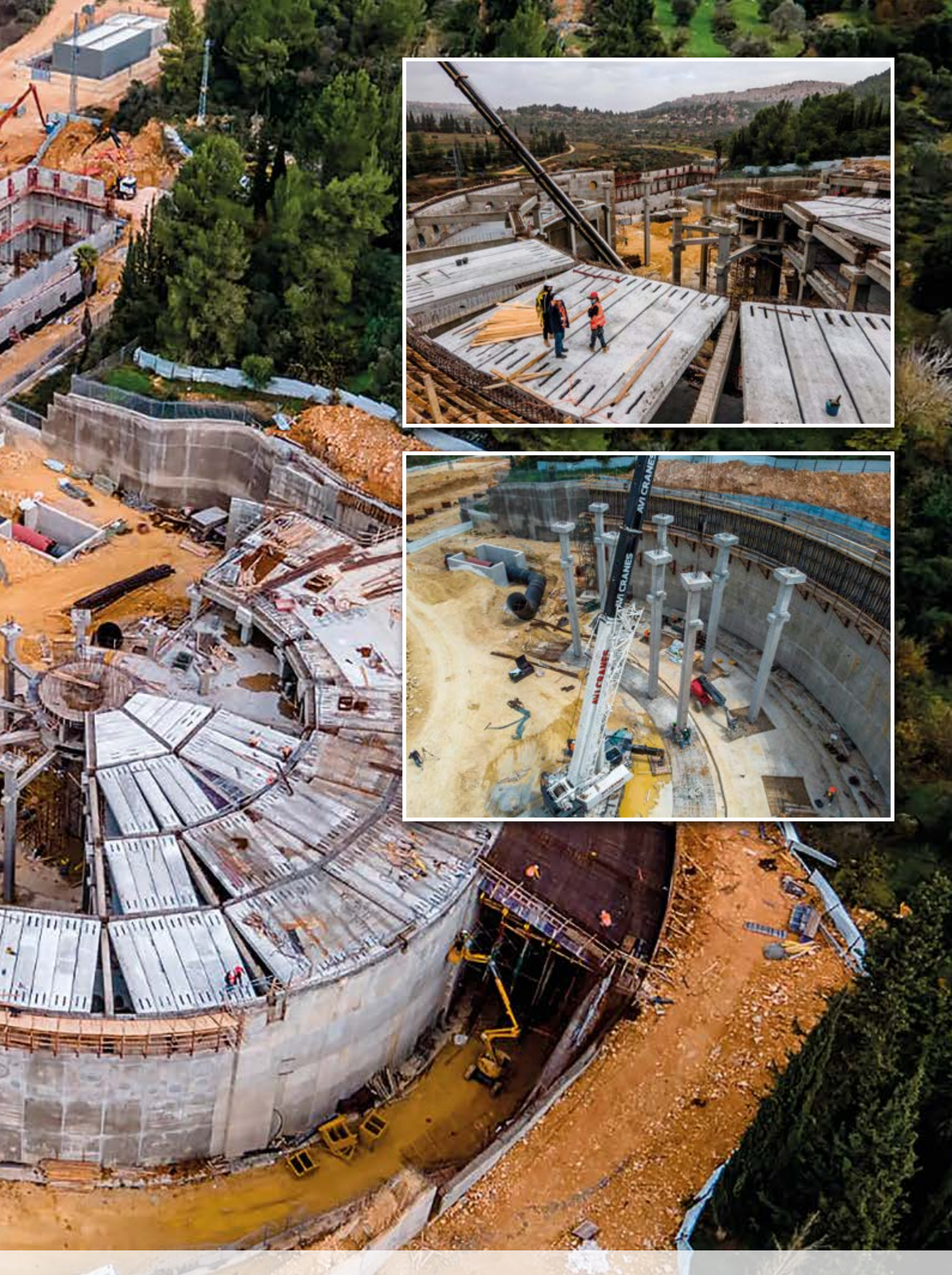
The use of high tensile steel in the tie rods that carry the end load forces means there is an overall reduction in not only the weight of the product but also installation time.

The metal components are coated with Rilsan Nylon 11®, which is WRAS approved for use with potable water, and offers long term corrosion protection and resistance to impact damage. The nuts & bolts to the flange adaptor in the fitting are Sheraplex coated to WIS 4-52-03, which does not gall when re-used and offers a consistent “torque / load” ratio reducing the sensitivity during installation while providing long term corrosion protection.

Client

Mekorot Water Company

Crane BS&U are solely the provider of products and have no direct influence on, or take any responsibility for any working practices employed or depicted in the images enclosed to install such products.



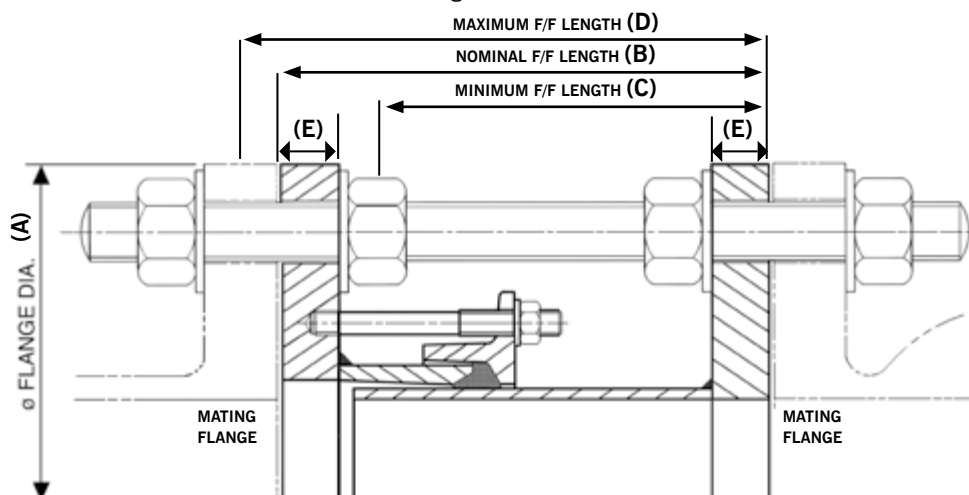
Dismantling Joints DN350 to DN1800 (PN25)

Datasheet

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Dismantling Joint

(For diameters over DN1800 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	Steel Tie Rod			Stainless Steel Tie Rod		
		E (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Dia x Length (mm)	No.	Total Weight of DJ (kg)	Dia x Length (mm)	No.	Total Weight of DJ (kg)
350	PN25	25	555	302	277	327	M30 x 480	4	91.1	M30 x 480	4	91.1
400	PN25	25	620	302	277	327	M33 x 490	4	109.0	M33 x 490	4	109.0
450	PN25	25	670	302	277	327	M33 x 500	5	122.0	M33 x 500	5	122.0
500	PN25	25	730	302	277	327	M33 x 510	5	137.0	M33 x 510	5	137.0
550	PN25	25	785	302	277	327	M36 x 530	5	155.0	M36 x 530	5	155.0
600	PN25	25	845	302	277	327	M36 x 540	5	170.0	M36 x 540	6	177.0
650	PN25	25	895	307	277	337	M36 x 550	6	199.0	M36 x 550	8	211.0
700	PN25	25	960	302	277	327	M39 x 570	6	212.0	M39 x 570	8	227.0
800	PN25	25	1085	307	277	337	M45 x 630	6	279.0	M45 x 630	8	302.0
900	PN25	25	1185	307	277	337	M45 x 630	7	317.0	M45 x 630	10	350.0
1000	PN25	38	1320	320	290	350	M52 x 660	7	520.0	M52 x 740	8	567.0
1200	PN25	38	1530	320	290	350	M52 x 690	8	637.0	M52 x 770	12	724.0
1400	PN25	60	1755	462	412	512	M56 x 890	9	1,181.0	M56 x 980	14	1,369.0
1600	PN25	60	1975	462	412	512	M56 x 920	10	1,514.0	M56 x 1010	16	1,740.0
1800	PN25	60	2185	462	412	512	M64 x 970	11	1,855.0	M64 x 1075	16	1,970.0

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Dismantling Joints DN350 to DN1800 (PN25)

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

BS EN1092-1
(formerly BS4504), ISO7005

Fabricated Flange Adaptor Body

Rolled Steel to BS EN 10025-2:
Grade S275

End Rings & Sleeve Options

- 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 BS10216-1:
Grade P265TR1
- Rolled steel to BS EN10025-2:
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:

- Zn³ 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/mm²)

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/mm²)

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

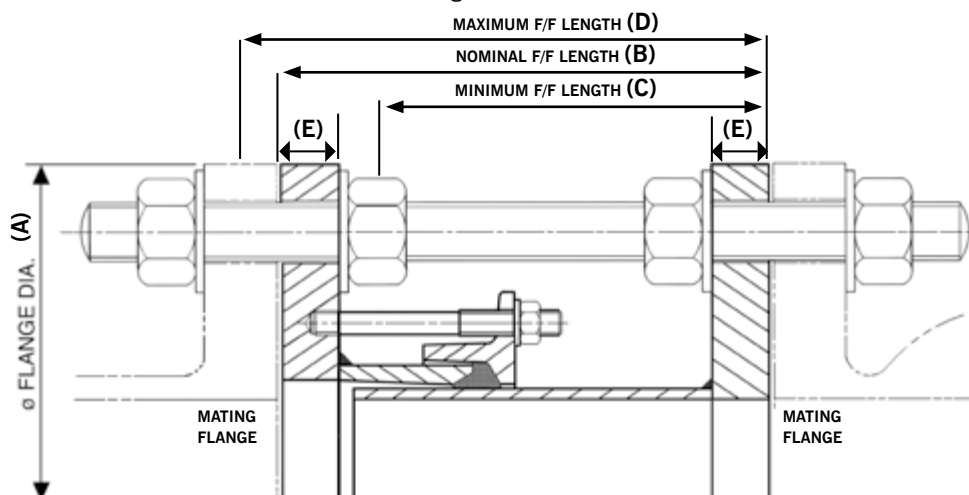
Dismantling Joints DN350 to DN1600 (PN40)

Datasheet

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Dismantling Joint

(For diameters over DN1600 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	Steel Tie Rod			Stainless Steel Tie Rod		
		E (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Dia x Length (mm)	No.	Total Weight of DJ (kg)	Dia x Length (mm)	No.	Total Weight of DJ (kg)
350	PN40	25	580	307	277	337	M33 x 520	4	111.0	M33 x 520	4	111.0
400	PN40	25	660	307	277	337	M36 x 540	4	138.0	M36 x 540	4	138.0
450	PN40	25	685	307	277	337	M36 x 550	5	148.0	M36 x 550	5	148.0
500	PN40	25	755	307	277	337	M39 x 570	5	178.0	M39 x 570	6	186.0
550	PN40	38	835	320	290	350	M45 x 600	5	289.0	M45 x 600	5	289.0
600	PN40	38	890	320	290	350	M45 x 620	5	313.0	M45 x 620	6	325.0
650	PN40	38	945	320	290	350	M45 x 630	6	350.0	M45 x 630	8	374.0
700	PN40	38	995	320	290	350	M45 x 640	6	375.0	M45 x 640	8	399.0
800	PN40	38	1140	320	290	350	M52 x 680	6	479.0	M52 x 760	8	544.0
900	PN40	38	1250	320	290	350	M52 x 700	7	570.0	M52 x 780	10	661.0
1000	PN40	38	1360	320	290	350	M52 x 720	8	661.0	M52 x 810	14	826.0
1200	PN40	38	1575	320	290	350	M56 x 780	10	863.0	M56 x 870	16	1,073.0
1400	PN40	60	1795	462	412	512	M56 x 980	14	1,640.0	M56 x 1070	22	1,937.0
1600	PN40	60	2025	462	412	512	M64 x 1040	14	1,988.0	M64 x 1140	20	2,318.0

Note: Stainless steel tie rods cannot accommodate this working pressure so not available.

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Dismantling Joints DN350 to DN1600 (PN40)

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

BS EN1092-1
(formerly BS4504), ISO7005

Fabricated Flange Adaptor Body

Rolled Steel to BS EN 10025-2:
Grade S275

End Rings & Sleeve Options:

- 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 BS10216-1:
Grade P265TR1
- Rolled steel to BS EN10025-2:
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:

- Zn³ 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/mm²)

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/mm²)

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

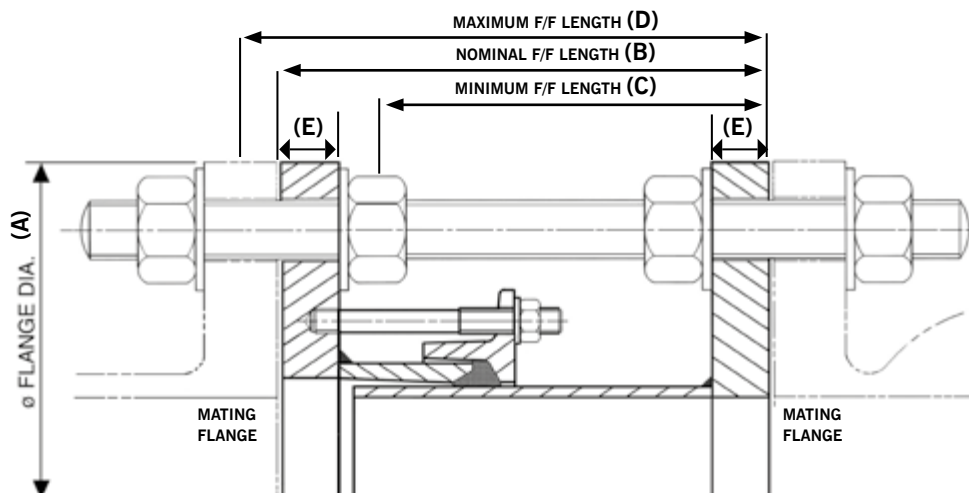
Dismantling Joints 4" to 40" AWWA (Class D)

Datasheet

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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/mm²		Stainless Steel Class 70 Yield 450N/mm²	
		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:

- Zn³ 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/mm²)

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/mm²)

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

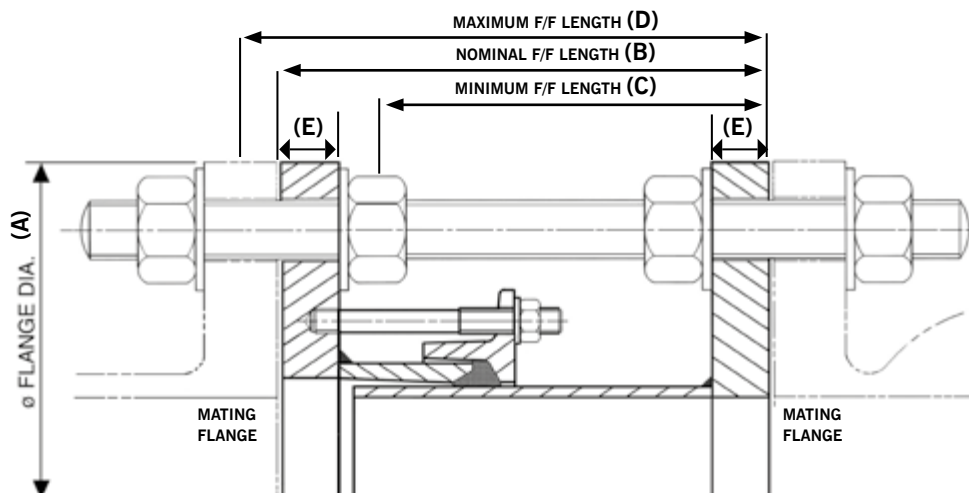
Dismantling Joints 3" to 40" (ANSI 150)

Datasheet

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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/mm²		Stainless Steel Class 70 Yield 450N/mm²	
		E (mm)	A (mm)	B (mm)	C (mm)	D (mm)		No.	Total Weight of DJ (kg)	No.	Total Weight of DJ (kg)
3"	ANSI 150	25	190	194	174	214	5/8" x 12 1/2"	4	14.0	4	14.0
4"	ANSI 150	25	229	194	174	214	5/8" x 12 1/2"	4	17.4	4	17.4
6"	ANSI 150	25	279	194	174	214	3/4" x 13"	4	23.8	4	23.8
8"	ANSI 150	25	343	194	174	214	3/4" x 13"	4	33.3	4	33.3
10"	ANSI 150	25	406	194	174	214	7/8" x 13 1/2"	4	43.0	4	43.0
12"	ANSI 150	25	483	194	174	214	7/8" x 13 1/2"	4	59.1	4	59.1
14"	ANSI 150	25	533	302	277	327	1" x 19"	4	82.8	4	82.8
16"	ANSI 150	25	597	302	277	327	1" x 19"	4	95.8	4	95.8
18"	ANSI 150	25	635	302	277	327	1 1/8" x 19"	4	103.0	4	103.0
20"	ANSI 150	25	698	302	277	327	1 1/8" x 19 1/2"	5	121.0	6	121.0
24"	ANSI 150	25	813	302	277	327	1 1/4" x 20 1/2"	5	151.0	6	151.8
28"	ANSI 150	25	927	302	277	327	1 1/4" x 22"	7	187.0	8	187.6
30"	ANSI 150	25	984	302	277	327	1 1/4" x 22 1/2"	7	202.0	10	218.0
32"	ANSI 150	25	1060	302	277	327	1 1/2" x 23"	7	225.0	8	233.0
36"	ANSI 150	25	1168	307	277	337	1 1/2" x 24 1/2"	8	291.0	10	308.0
40"	ANSI 150	38	1289	320	290	350	1 1/2" x 25"	9	441.0	12	467.0

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Dismantling Joints 3" to 40" (ANSI 150)

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

ASME/ANSI B16.5/B16.47

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

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:

- Zn³ 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/mm²)

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/mm²)

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

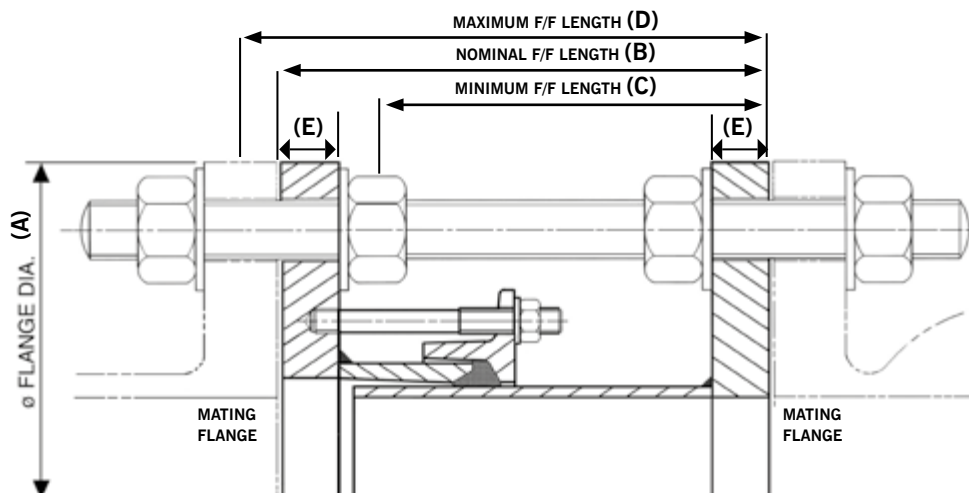
Dismantling Joints 3" to 40" (ANSI 300)

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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/mm²		Stainless Steel Class 70 Yield 450N/mm²	
		E (mm)	A (mm)	B (mm)	C (mm)	D (mm)		No.	Total Weight of DJ (kg)	No.	Total Weight of DJ (kg)
3"	ANSI 300	25	210	194	174	214	3/4" x 13"	4	19.3	4	19.3
4"	ANSI 300	25	254	194	174	214	3/4" x 13"	4	26.2	4	26.2
6"	ANSI 300	25	318	194	174	214	3/4" x 13 1/2"	4	32.1	4	32.1
8"	ANSI 300	25	381	194	174	214	7/8" x 14 1/2"	4	43.1	4	43.1
10"	ANSI 300	25	444	194	174	214	1" x 15"	4	63.0	6	60.8
12"	ANSI 300	25	521	194	174	214	1 1/8" x 16"	4	74.1	6	80.2
14"	ANSI 300	25	584	307	277	337	1 1/8" x 20 1/2"	5	117.0	8	129.0
16"	ANSI 300	25	648	307	277	337	1 1/4" x 21 1/2"	5	138.0	8	151.5
18"	ANSI 300	38	711	320	290	350	1 1/4" x 22"	6	220.0	10	241.0
20"	ANSI 300	38	775	320	290	350	1 1/4" x 22 1/2"	8	262.0	12	284.0
24"	ANSI 300	38	914	320	290	350	1 1/2" x 23 1/2"	8	359.0	12	393.0
28"	ANSI 300	38	1035	320	290	350	1 5/8" x 25"	7	427.0	12	489.0
30"	ANSI 300	38	1092	320	290	350	1 3/4" x 26"	8	500.0	12	551.0
32"	ANSI 300	38	1149	320	290	350	1 7/8" x 26 1/2"	8	546.0	14	646.0
36"	ANSI 300	38	1270	320	290	350	2" x 28"	10	676.0	14	749.0
40"	ANSI 300	60	1238	462	412	512	1 5/8" x 33 1/2"	16	844.0	26	958.0

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Dismantling Joints 3" to 40" (ANSI 300)

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

ASME/ANSI B16.5/B16.47

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

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:

- Zn³ 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/mm²)

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/mm²)

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

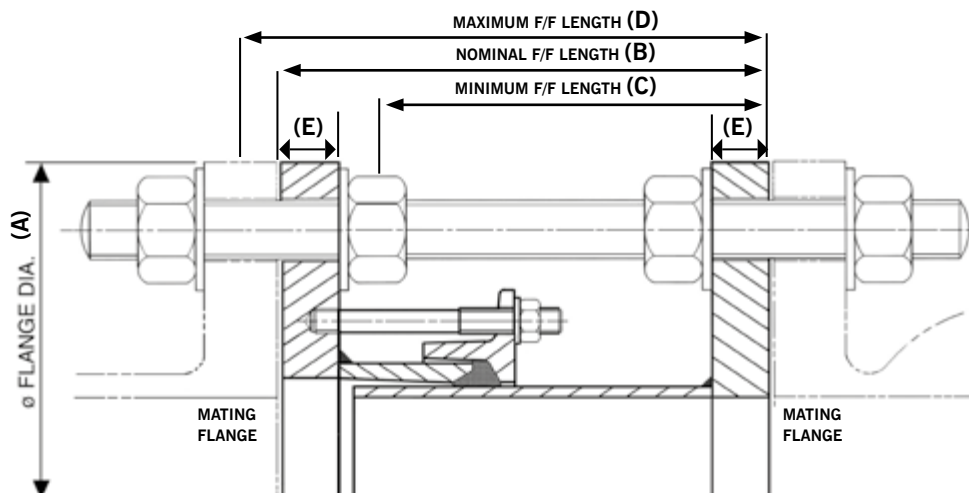
Dismantling Joints DN100 to DN1200 AS-4087 PN16

Datasheet

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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	Steel Tie Rod		Stainless Steel Tie Rod	
		E (mm)	A (mm)	B (mm)	C (mm)	D (mm)		No.	Total Weight of DJ (kg)	No.	Total Weight of DJ (kg)
100	AS4087-16	18	215	187	167	207	M16 x 300	4	12.7	4	12.7
150	AS4087-16	18	280	187	167	207	M16 x 300	4	18.3	4	18.3
200	AS4087-16	18	335	187	167	207	M16 x 300	4	24.4	4	24.4
225	AS4087-16	18	370	187	167	207	M16 x 300	4	29.2	4	29.2
250	AS4087-16	18	405	187	167	207	M20 x 300	4	34.3	4	34.3
300	AS4087-16	18	455	187	167	207	M20 x 320	4	40.5	4	40.5
375	AS4087-16	18	550	295	270	320	M24 x 440	4	65.9	4	65.9
400	AS4087-16	18	580	295	270	320	M24 x 440	4	70.6	4	70.6
450	AS4087-16	23	640	300	275	325	M24 x 450	4	92.2	6	96.6
500	AS4087-16	23	705	300	275	325	M24 x 460	4	105.8	8	114.6
600	AS4087-16	23	825	300	275	325	M27 x 480	4	134.1	8	146.1
700	AS4087-16	23	910	300	275	325	M27 x 500	6	150.0	10	162.4
750	AS4087-16	23	995	300	275	325	M30 x 500	5	177.7	10	197.4
800	AS4087-16	23	1060	300	275	325	M33 x 510	5	188.3	10	212.8
900	AS4087-16	25	1175	307	277	337	M33 x 540	8	266.2	12	286.6
1000	AS4087-16	25	1255	307	277	337	M33 x 540	8	271.8	12	292.1
1200	AS4087-16	38	1490	320	290	350	M33 x 580	12	495.0	20	538.0

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Dismantling Joints DN100 to DN1200 AS-4087 PN16

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

AS-4087 PN16

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:

- Zn³ 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/mm²)

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/mm²)

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

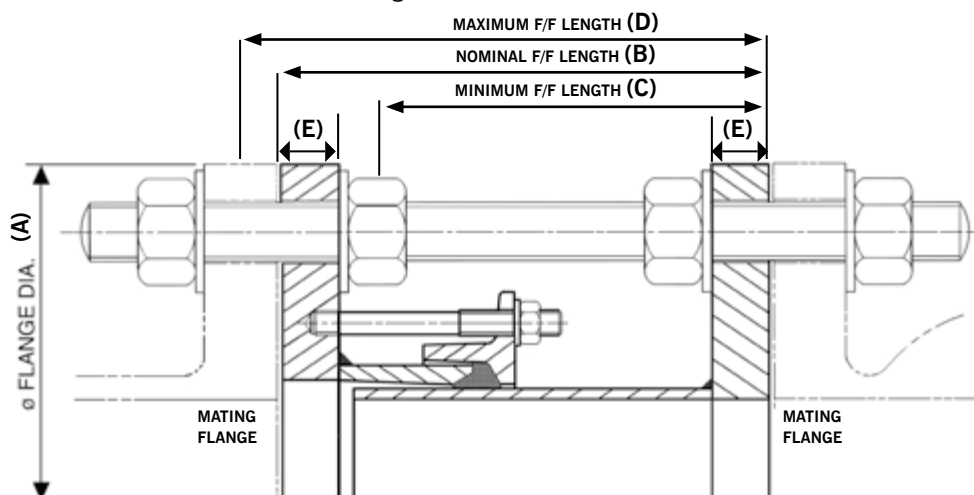
Dismantling Joints DN100 to DN1200 AS-4087 PN35

Datasheet

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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	Steel Tie Rod		Stainless Steel Tie Rod	
		E (mm)	A (mm)	B (mm)	C (mm)	D (mm)		No.	Total Weight of DJ (kg)	No.	Total Weight of DJ (kg)
100	AS4087-35	25	230	194	174	214	M16 x 320	4	17.2	4	17.2
150	AS4087-35	25	305	194	174	214	M20 x 330	4	28.8	4	28.8
200	AS4087-35	25	370	194	174	214	M20 x 350	4	38.3	4	38.3
225	AS4087-35	25	405	194	174	214	M24 x 350	4	41.6	4	41.6
250	AS4087-35	25	430	194	174	214	M24 x 360	4	48.9	4	48.9
300	AS4087-35	25	490	194	174	214	M24 x 360	4	61.1	6	68.6
375	AS4087-35	25	580	307	277	337	M27 x 500	4	99.7	6	105.9
400	AS4087-35	25	610	302	277	327	M27 x 490	5	99.8	8	108.9
450	AS4087-35	25	675	307	277	327	M30 x 520	5	131.8	8	143.8
500	AS4087-35	25	735	307	277	337	M30 x 520	6	153.5	8	161.6
600	AS4087-35	25	850	307	277	337	M33 x 575	6	190.0	10	209.0
700	AS4087-35	38	935	320	290	350	M33 x 580	8	298.0	14	330.0
750	AS4087-35	38	1015	320	290	350	M33 x 580	10	351.0	16	384.0
800	AS4087-35	38	1060	320	290	350	M33 x 590	12	363.0	20	406.0
900	AS4087-35	38	1185	320	290	350	M36 x 620	14	462.0	20	503.0
1000	AS4087-35	60	1275	462	412	512	M36 x 790	16	743.0	24	808.0
1200	AS4087-35	60	1530	462	412	512	M39 x 810	18	1047.0	30	1168.0

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Dismantling Joints DN100 to DN1200 AS-4087 PN35

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

AS-4087 PN35

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:

- Zn³ 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/mm²)

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/mm²)

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

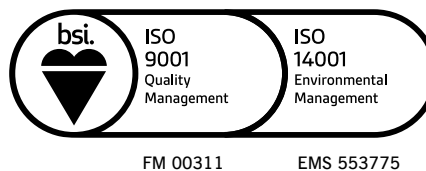


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