

Dismantling Joints

The Dismantling Joint is a double flanged fitting that allows longitudinal adjustment in flanged pipe systems. It provides greater flexibility at both the planning and installation stages of flanged piping systems.

Typical Applications:

The Dismantling Joint is particularly suitable for simplifying the installation and removal of:

- Isolation valves
- Non return valves
- Flow metering equipment
- Pump sets
- Pressure reducing valves
- Flanged pipe and fittings

Typical Dismantling Joint applications include: Pumping stations, water treatment and sewage treatment plants, plant rooms, meter chambers, power generation equipment and gas distribution stations.

Features & Benefits:

LONGITUDINAL ADJUSTMENT

A maximum of 2" of longitudinal adjustment can be achieved, depending on diameter (see table on next page).

This adjustability is provided by the telescopic action of the flanged spigot within the flange adaptor. Once the required length is achieved, the Dismantling Joint can be locked at that length with the tie bars supplied. This longitudinal adjustment allows for fast and simple maintenance of valves, pumps etc. and simplifies future piping modifications, often resulting in reduced down time and eliminating the need for more complex anchoring systems.

EASE OF INSTALLATION

The Dismantling Joint can be installed with a spanner and a torque wrench.

SPEED OF INSTALLATION

Dismantling Joints are supplied with high tensile steel tie bars which means fewer tie bars are required, consequently there are fewer tie bars than flange holes, making installation faster and simpler. The tie bars supplied with the Dismantling Joint also act as flange jointing bolts, reducing the number of flange bolts required.

SEALING

The gasket of the Dismantling Joint is compressed independently of the tie bars. Compression of the gasket is achieved by following standard flange adaptor installation procedures, speeding installation. It also allows for a socket and torque wrench to be used, ensuring that sealing failure cannot occur as the gasket is compressed to the required torque.



4" Dismantling Joint in plant room application

RANGE

Dismantling Joints are available in any nominal size from 1½" and larger with most common flange drillings. Dismantling Joint specials for specific project requirements can also be produced.

CORROSION AND PROTECTION

The flange adaptor and flange spigot components of the Dismantling Joint are coated with the thermoplastic polymer Rilsan Nylon 11 as standard. Rilsan Nylon 11 has met and is approved to the stringent performance standards of WIS 4-52-01(part 1) which requires the highest adhesion, flexibility, penetration and impact resistance characteristics, ensuring that Dismantling Joints are well equipped to withstand transport, storage, site and corrosion damage. Alternative finishes are also available. All tie bars are ZN3 Zinc plated.

WORKING PRESSURE

All Dismantling Joints are fully end load resistant and have a pressure rating equal to that of the flange.

FULL FACE FLANGE

For applications where a full face flange is required, the flange of the spigot piece provides a full flange sealing area.

PRODUCT QUALITY

Dismantling Joints are designed and manufactured under quality management systems to BS EN ISO 9001:1994 and have been tested to the most exacting performance requirements of WRc Water Bylaws scheme (WBS).

GASKETS

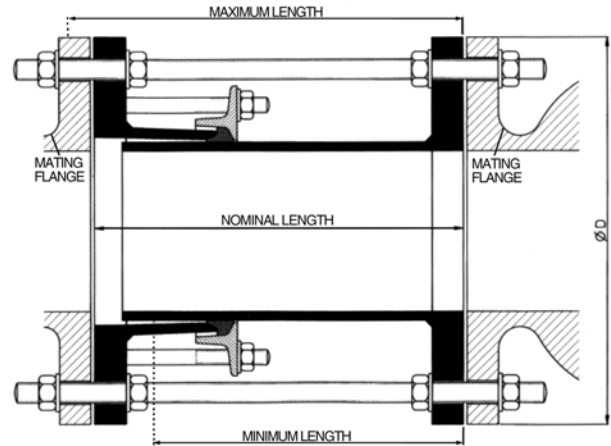
Dismantling Joints are fitted with grade E (EPDM) water quality gaskets as standard. For other applications or alternatives, please ask for details.

Flange Adaptors

Dismantling Joints



Dismantling Joint installed on 6" Gate Valve

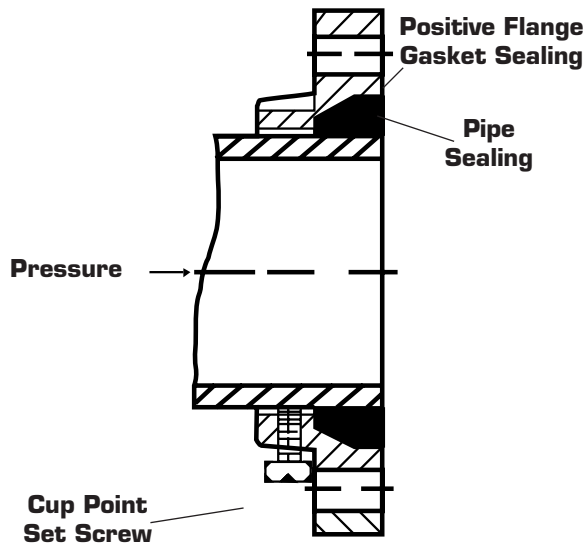


NOMINAL SIZE	FLANGE DRILLING	NOMINAL LENGTH	MINIMUM LENGTH	MAXIMUM LENGTH	O.D.	NO. OF TIE BARS	DIAMETER & LENGTH	WEIGHT (LBS.)
1.5"	ANSI 150	7.6"	6.81"	8.38"	5.0"	4	½" × 11.8"	21.3
2"	ANSI 150	7.3"	6.51"	8.08"	6.0"	4	⅝" × 11.8"	18.3
2.5"	ANSI 150	7.3"	6.51"	8.08"	7.0"	4	⅝" × 11.8"	20.5
3"	ANSI 150	7.3"	6.51"	8.08"	7.5"	4	⅝" × 11.8"	23.8
4"	ANSI 150	7.3"	6.51"	8.08"	9.0"	4	⅝" × 11.8"	26.6
5"	ANSI 150	7.3"	6.51"	8.08"	10.0"	4	¾" × 11.8"	31.9
6"	ANSI 150	7.6"	6.81"	8.38"	11.0"	4	¾" × 13"	65.6
8"	ANSI 150	7.4"	6.61"	8.18"	13.5"	4	¾" × 13.4"	79.2
10"	ANSI 150	7.6"	6.81"	8.38"	16.0"	4	⅞" × 13.8"	106.5
12"	ANSI 150	7.9"	7.11"	8.68"	19.0"	4	⅞" × 13.7"	135.7
14"	AWWA C207	11.7"	10.70"	12.70"	21.0"	4	1" × 18.5"	162.9
16"	AWWA C207	11.8"	10.82"	12.78"	23.5"	4	1" × 18.5"	213.4
18"	AWWA C207	11.9"	10.92"	12.88"	25.0"	4	1⅛" × 19.5"	227.3
20"	AWWA C207	13.8"	12.82"	14.78"	27.5"	4	1⅛" × 21.3"	281.6
24"	AWWA C207	11.9"	10.92"	12.88"	32.0"	4	1¼" × 20.5"	272.8
28"	AWWA C207	11.9"	10.92"	12.88"	35.2"	6	1¼" × 20.5"	332.2
30"	AWWA C207	11.9"	10.92"	12.88"	38.8"	7	1¼" × 19.5"	379.0
36"	AWWA C207	11.8"	10.62"	12.98"	46.0"	8	1½" × 22.25"	374.0
42"	AWWA C207	12.1"	10.92"	13.28"	53.0"	9	1½" × 23.25"	660.0
48"	AWWA C207	12.6"	11.42"	13.78"	59.5"	11	1½" × 23.6"	1237.5
56"	AWWA C207	12.6"	11.42"	13.78"	66.3"	11	1⅝" × 23.0"	1507.0
66"	AWWA C207	18.2"	16.24"	20.16"	80.0"	13	1⅝" × 31.0"	2482.5
72"	AWWA C207	18.2"	16.24"	20.16"	86.5"	20	1¾" × 31.0"	3762.0
80"	AWWA C207	18.2"	16.24"	20.16"	100.0"	16	1⅞" × 32.0"	5579.2

Flange Adaptors

Flange Adaptors For Ductile Iron and Steel Pipe

Flange adaptors are your answer to fast and efficient flange installations in the field. By using ductile iron or steel pipe cut to dimension and a flange adaptor, you can quickly connect to virtually any 125 lb. faced and drilled flange. A mechanical joint type gasket is included with the flange adaptor and standard flange bolts and nuts are used to make the connection. No other gaskets are required.



Flange adaptors join plain end pipe of ductile iron or steel, to flange valves, pumps, fittings and pipe — virtually all types of liquid and process equipment. They require no threading or welding, and allow for pipe misalignment. The set screws eliminate additional restraining connections and prevent blow-off. Set screws should be tightened to 70 ft. lbs. torque.

SIZE	PRODUCT NUMBER	
	DUCTILE IRON O.D.	STEEL O.D.
2"	37005	37010
3"	37015	37020
4"	37025	37030
6"	37035	37040
8"	37045	37050
10"	37055	37060
12"	37065	37070
14"	37075	37080
16"	37085	37090
18"	37095	37100
20"	37105	37110
24"	37115	37120

Installation Notes:

- Flange adaptors are used for field installations in lieu of standard threaded pipe flanges when the latter are found to be impractical due to time and/or cost restraints.
- Set screws are an integral part of the adaptor to give restraint and to prevent blow-off. The set screws should be tightened to 70 ft. lbs torque.
- Gaskets are mechanical joint type and are furnished with the flange adaptor.
- Flange adaptors are 125 lb. faced and drilled.

NOTES:

- 250 lb. faced and drilled flange adaptors are available by special order.
- Flange adaptors cannot be installed face to face.

Flange Adaptors

Flange Adaptors For PVC Pipe

Flange adaptors join plain-end PVC pipe to valves, fittings, pumps and virtually all types of liquid and process equipment. This ductile iron flange provides a watertight rigid flanged connection. It eliminates solvent welding, tie rodding, harnessing and other forms of restraint. The adaptor flange also allows for maintenance of flanged systems and equipment — simply loosen the bolts and remove the flange.

Flange adaptors for PVC provide positive end restraint with a series of serrations that are machined on the inside of the flange. When the two flange halves are brought together by tightening the clamping bolts, these serrations lock the flange onto the pipe. The exclusive dual seal gasket is then added (no other gasket is necessary). Tightening the flange bolts compresses this gasket against the facing flange and down onto the pipe surface, providing a leakproof seal.

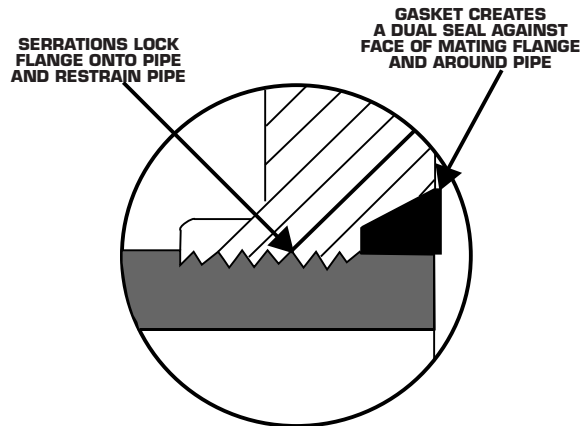


SIZE	PRODUCT NUMBER	
	DUCTILE IRON O.D.	STEEL O.D.
4"	37029	37031
6"	37038	37039
8"	37049	37051
10"	37061	37060
12"	37071	37070

NOTE: Flange adaptors cannot be installed face to face.

SHORT SPEC:

Flange adaptors for PVC pipe shall be made of ASTM A536 Grade 65-45-12 ductile iron. Drilling shall be done in accordance with ANSI B16.1 — 125 lb. for cast or ductile iron flanges and ANSI B16.5 — 150 lb. for steel flanges. Flanges shall meet all test requirements of AWWA C-900, ASTM D2241, ASTM D1599 and ASTM D2992. The dual seal gasket shall be provided with the PVC flange adaptor.



Flange Adaptors

Flange Coupling Adaptors for Cast and Ductile Iron Pipe

Flange coupling adaptors provide stress relieving flexibility and ease of installation and alignment. They allow a quick means of cutting in flanged valves for existing lines, and dampen vibration from tamping equipment. The same versatility and field installation features found in the flange adaptors shown on previous pages are present with the exception of the set screws for a rigid connection. Flange coupling adaptors can be ordered with anchor pins where the chance of pull-out or blow-off exists.

Romac Flanged Coupling Adaptor



Ford Flanged Coupling Adaptor



Material Specifications:

- **Flange Body:** Ductile iron meeting or exceeding ASTM A 536-80, Grade 65-45-12. AWWA Class "D", C-207, with ANSI 150 lb. drilling. Yellow shop coat.
- **End Ring:** Ductile iron, meeting or exceeding ASTM A 536-80, Grade 65-45-12.
- **Gaskets:** Virgin SBR compounded for water and sewer service. Meets or exceeds ASTM D2000 3 BA715. Flanged "O"-Ring gasket shall be neoprene rubber.
- **Bolts and Nuts:** High strength, low alloy steel, with heavy hex nuts. The steel used follows AWWA C-111-80 composition specifications.

SIZE	O.D. RANGE	PRODUCT NUMBER
3"	3.80-4.05	55890 RM
4"	4.74-5.10	55600 RM
6"	6.86-7.20	56461 RM
8"	8.99-9.40	57262 RM
10"	10.89-11.40	57920 RM
12"	13.15-13.55	58680 RM

Material Specifications:

- **Body:** Gray iron per ASTM A48 and/or A126 or DI per ASTM A-536-65-45-12.
- **End Rings:** Ductile iron per ASTM A536 80 65-45-12.
- **Gaskets:** SBR per ASTM D2000.
- **Cross Bolts, T-Bolts and Nuts:** High strength low alloy steel per AWWA C-111 or ductile iron per ASTM A536, or optional blue fluoro-carbon coating.
- **Finish:** Shop coat suitable for most field applied coatings. Optional epoxy coating is available upon request.
- **Flange:** Drilling per ANSI B16.1 Class 125.

SIZE	O.D. RANGE	PRODUCT NUMBER
4"	4.70-4.91	55600 F
6"	6.81-7.12	56460 F
8"	8.76-9.17	57260 F
10"	11.04-11.40	57920 F
12"	13.14-13.56	58680 F

NOTES:

- Specify pressure requirements when ordering flange adaptors with anchor pins.
- **Romac Flanged Adaptors are stocked in New England; Ford Flanged Adaptors are stocked in the Mid-West.**
- Other sizes and O.D. ranges are available upon request. Contact your local Team EJP sales office for assistance.