Dismantling Joints DN350 to DN1800 (PN25)

Dismantling Joint
(For diameters over DN1800 contact Viking Johnson)

Dismantling Joints (Standard Product)
Table provides details of standard product – for products offering longer flange dimensions and / or increased longitudinal adjustment contact Viking Johnson.

<table>
<thead>
<tr>
<th>Nom</th>
<th>Drilling</th>
<th>Flange Details</th>
<th>Flange To Flange Details</th>
<th>Tie Rod Details</th>
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<td>Flange Thickness</td>
<td>Flange OD</td>
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Note: Maximum Longitudinal Adjustment = Maximum Length – Minimum Length

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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, AS/NZS 4020, DVGW, W270, ACS & KIWA
  EPDM Gaskets:
  WRAS, AS/NZS 4020

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