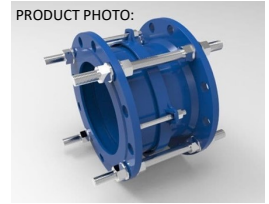


INSTALLATION AND MAINTENANCE INSTRUCTIONS

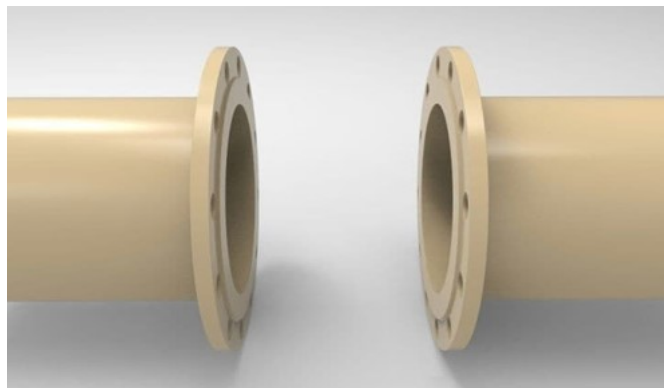
HIWA DISMANTLING JOINT—FD20



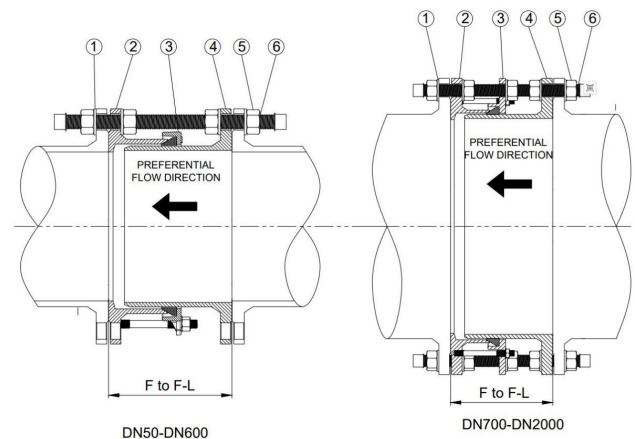
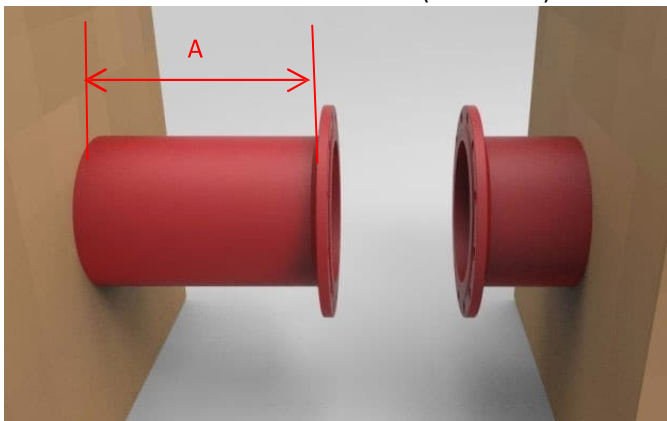
- Do not exceed the maximum admissible temperature of the equipment.
- Do not exceed the maximum allowable operating over-pressure.
- User is responsible for ensuring with appropriate safety devices to not exceed the maximum design pressure of the joint.

INSTALLATION

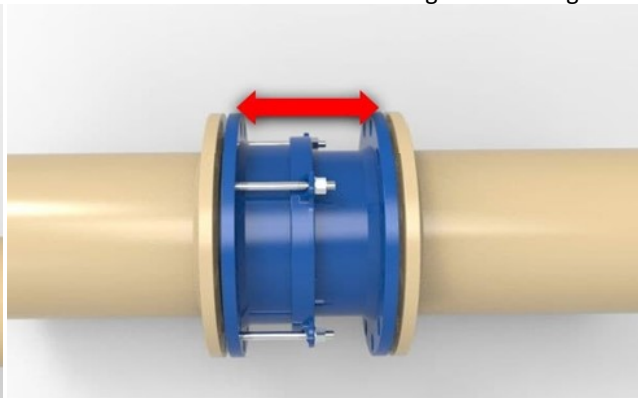
1. Ensure install distance complies with dimensional tolerance, ideally $L \pm 5\text{mm}$



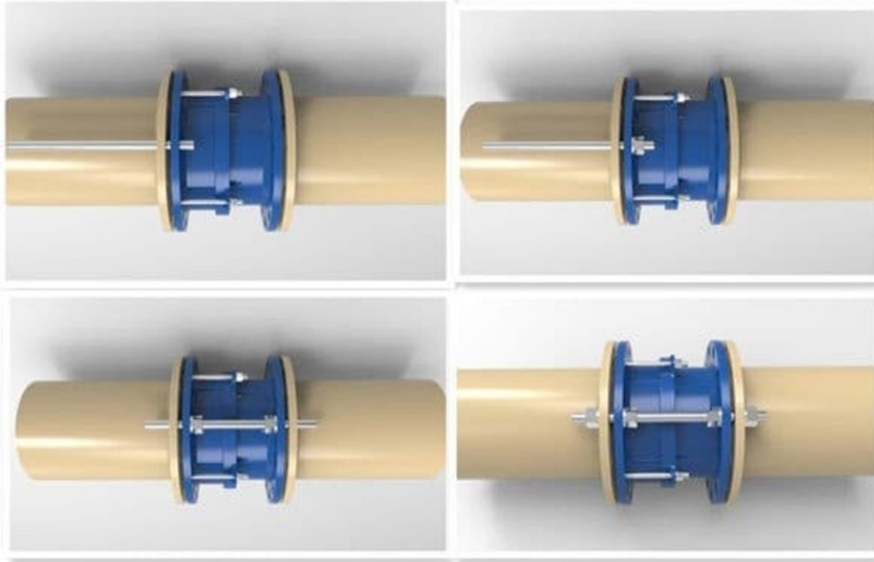
NOTE: Ensure distance “A” is > Studs (Item No. 6)



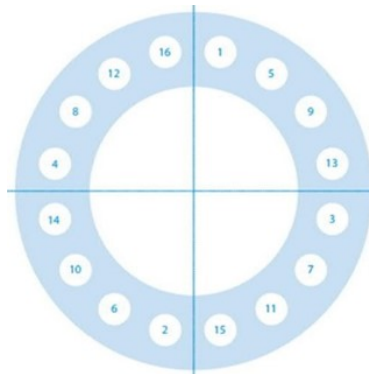
2. Remove Studs, Washers & Nuts (1,5,6). Put Dismantling Joint between flanges & adjust until free play is taken up, ensuring maximum tolerance is not exceeded. **NOTE:** Gaskets to be installed between Dismantling Joint & flanges



3. Install the studs, washers & nuts as shown below. It is normal to see the rubber sealing ring slightly extrude into the gap between the middle flange and the short flange body.



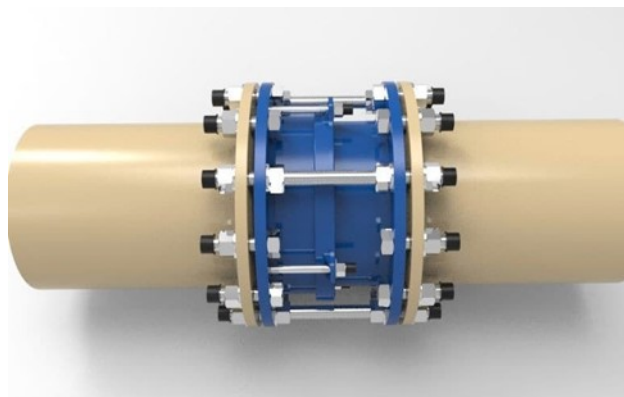
4. Nuts (5) should be tightened diametrically opposed (as shown). A minimum of 4 rounds of tightening; Tighten nuts to 30%, 60%, 100% of torque then a final pass of 100% in a clockwise direction.



NOTE: Anti-galling compound shall be used on all stainless threads.

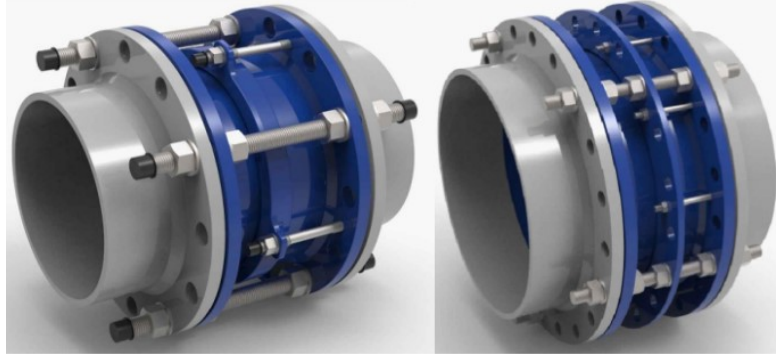
5. Sealing Studs should then be tightened diametrically opposed (as shown). A minimum of 4 rounds of tightening; Tighten nuts to 30%, 60%, 100% of torque then a final pass of 100% in a clockwise direction.

NOTE: For sizes DN700 & larger, then tighten middle Nut on Stud (6) in same pattern to recommended torque



6. Installation Complete

HIWA DISMANTLING JOINT—FD20



RECOMMENDED TORQUE VALUES IN NEWTON METERS (N.M)

Size	Stud (6)				Sealing Fastenings							
					Middle Nut				Sealing Studs			
	Size	Qty.	Tightening Torque	Maximum Torque	Size	Qty.	Tightening Torque	Maximum Torque	Size	Qty.	Tightening Torque	Maximum Torque
DN80	M16	4	100	120					M12	4	60	80
DN100	M16	4	100	120					M12	4	60	80
DN150	M16	4	100	120					M12	4	60	80
DN200	M16	4	100	120					M12	4	60	80
DN225	M16	4	100	120					M14	4	80	100
DN250	M20	4	180	240					M14	4	80	100
DN300	M20	4	180	240					M12	6	60	80
DN350	M24	4	320	450					M16	6	100	120
DN375	M24	4	320	450					M16	6	100	120
DN400	M24	4	320	450					M16	6	100	120
DN450	M24	4	320	450					M16	6	100	120
DN500	M24	4	320	450					M16	8	100	120
DN600	M27	4	440	620					M16	8	100	120
DN700	M27	5	440	620	M27	5	280	620	M16	10	100	120
DN750	M30	5	620	800	M30	5	350	800	M16	10	100	120
DN800	M33	5	735	1000	M33	5	350	1000	M16	10	100	120
DN900	M33	6	735	1000	M33	6	350	1000	M16	12	100	120
DN1000	M33	6	735	1000	M33	6	370	1000	M16	12	100	120
DN1200	M33	8	735	1000	M33	8	400	1000	M16	16	100	120

APPLICATION

Dismantling joints are designed for installation in pipelines with media temperature up to +70°C. It is not permissible to use the joint with oil or gas media; it can be used for water, raw and cooling water (with appropriate corrosion protection). It is recommended to only use in media without risk of clogging.

Dismantling joints are rigid and transmit the full axial thrust of the pipeline as a rigid pipe connection. Changing the length or the angle is not possible during operation. When the flanged spigots of the dismantling joint have been assembled, the longitudinal axis can be adjusted, +/- as per the adjustment dimension indicated on relevant dismantling joint drawing. During installation there is an allowable angular deflection from the longitudinal axis of +/- 1.5 degrees.

For any deviating operating conditions and applications, Hiwa's written approval must be obtained.

MAINTENANCE

If assembled properly, dismantling joints do not require particular maintenance.

This does not include the corrosion protection cover whose wear and tear depends on the exterior and interior stress it is exposed to.

All the maintenance operations have to be undertaken after the emptying of pipeline to avoid every risk to the people during this operation.

STORAGE

The elastomeric parts (seals) must be protected against direct sunlight and/or UV light as otherwise their long-term sealing cannot be guaranteed.

Store the joint in a dry and well aerated place and avoid direct heat.

The joint can be stored in ambient temperatures from -10°C to +50°C. If the joint is stored at temperatures below 0°C, it should be warmed up to at least +5°C before installation and before it is put into operation.

HANDLING & RECYCLING

At the end of the products life, they have to be removed/replaced so they must be disassembled and each component separated and sorted according to materials; Metals, Rubber components, Greases & Oils

General:

- During disassembly phase, carefully collect greases and oils; these substances are hazardous to water and must not be released into the environment to avoid the pollution.
- Arrange for controlled waste disposal or for separate recycling according to materials.
- Observe the regional regulations for waste disposal/recycling.