

D10

Full Tie-Rod Dismantling Joint

Product Description

DENZ D10 Dismantling Joint's are double-flanged fitting that can be adjusted longitudinally in flanged pipe systems (+/- 25 mm from the middle position). In addition to providing a simple method for installing and removing flanged valves, Dismantling Joints are also suitable for subsequent maintenance. Water treatment, sewage treatment, power generation, and pumping stations are among the most common applications.

Application Areas

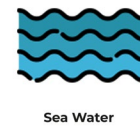
- Water applications
- Household implementation
- Supply of water fire extinguishing
- Various applications of industrial systems.
- Food and chemical enterprises

Versions & Accesories	Half Tie-Rods Light Type Version is available (Refer to DENZ D11)
	Stainless Steel A2 or A4 bolts, nuts and washers as an option
	Optionally full stainless steel production mainly for seawater applications.
	Full steel construction mainly for diameters larger than DN2000
	Optionally carbon steel body
	ANSI flanged version alternatives
PN64 and PN100 sersions also available for special projects	



Production References

Size Range	DN50-3000
Pressure Range	PN10-16-25-40-64-100
Temperature	EPDM: +80°C NBR: 60°C VITON: 120°C
Connection	EN 1092-2 Flanged
Coating	Electrostatic Powder Epoxy
Testing	EN12266-1
Marking	EN 19

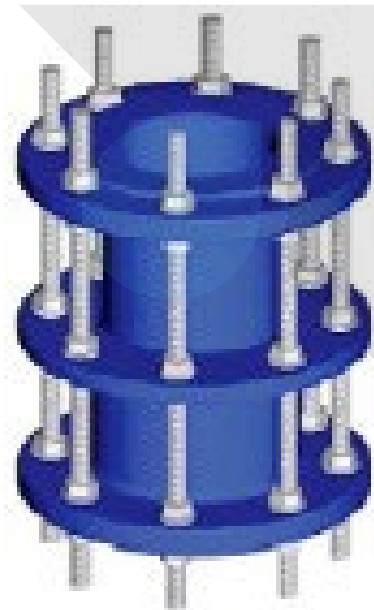


Product Features

- Designed with three flanges, the center flange compresses the seal through the rods. The flanges are connected by tightening rods.
- Suitable for both standard and non-standard applications.
- Full restrained double flanged type
- Simple installation, requires only a spanner and torque wrench to fasten the stainless steel or high tensile galvanized steel tie bars.
- The combination of a flange adaptor, a flanged spigot, and tie bars in an integrated assembly provides adjustability.
- Axial Displacement: +/- 25mm
- Simple and practical valve installation makes for an easy installation process.
- As studs separate from the tie rods compress the gasket, smaller diameter connecting bolts can be used, making it easier for workers to work on the installation.
- Due to the typical longitudinal adjustability of 25 mm, it is simple to install and remove and provides ideal support during the installation and removal of valves.
- Certain dismantling joint designs can also be used in flexible pipelines without any limitation.
- The Ductile Iron Body is highly durable against the strong stress that may occur in the pipelines.
- Optionally in Full Stainless Steel for mainly sea-water applications
- On request, larger nominal sizes, greater pressure ratings, and unusual construction lengths are also available.
- Any Connection Flange Standards are applicable on request
- Tolerance for angular misalignment
- Allows to maintain isolation valves, control valves, check valves, non-return valves, flow metering valves, pump sets, pressure reducing valves, flanged pipe and fittings etc.
- Highly simplifies Future pipework connections.
- When dismantling joints are ordered with valves or check valves, the dismantling joints will be shipped mounted on the valves. As a result, field teams will have an easier time assembling the products.

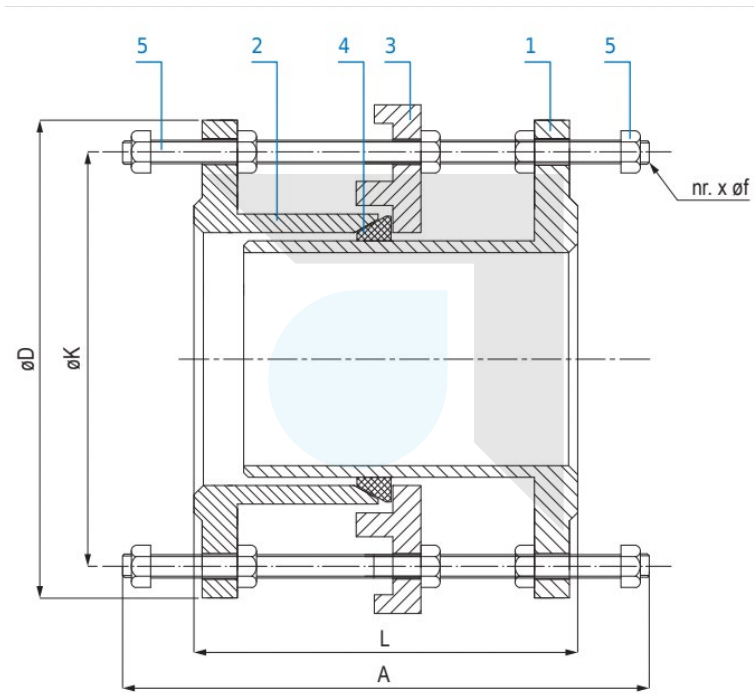


* Stainless steel body and flanges are available up to request.



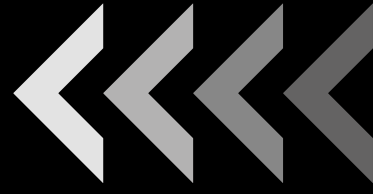


Materials



#	Part	Material
1	Long Piece	Ductile Iron EN-GJS-400/500 (GGG40/50)
2	Shorter Piece	Ductile Iron EN-GJS-400/500 (GGG40/50)
3	Retaining Flange	Ductile Iron EN-GJS-400/500 (GGG40/50)
4	Sealing	EPDM / NBR / VITON
5	Studs and Nuts	Galvanized Steel 8.8 / Stainless Steel A2/A4
6	Washers	Optional - 8.8 / Stainless Steel A2/A4





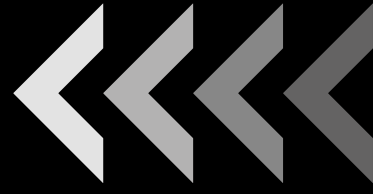
Dimensions



PN10									
DN	L	D	K	f	n	A*	M	Nr.	KG
40	155	150	110	19	4	330	M16	20	8
50	155	165	125	19	4	330	M16	20	11
65	155	185	145	19	4	330	M16	20	15
80	200	200	160	19	8	340	M16	40	17
100	200	220	180	19	8	340	M16	40	19
125	200	250	210	19	8	340	M16	40	23
150	200	285	240	23	8	350	M20	40	30
200	210	340	295	23	8	350	M20	40	40
250	225	395	350	23	12	370	M20	60	54
300	240	445	400	23	12	390	M20	60	62
350	240	505	460	23	16	400	M20	80	89
400	250	565	515	28	16	420	M24	80	113
450	270	615	565	28	20	435	M24	100	132
500	270	670	620	28	20	440	M24	100	146
600	290	780	725	31	20	460	M27	100	184
700	300	895	840	31	24	480	M27	120	226
800	315	1015	950	34	24	500	M30	120	308
900	325	1115	1050	34	28	500	M30	140	350
1000	335	1230	1160	37	28	545	M33	140	419
1100	315	1340	1270	37	32	480	M33	160	560
1200	345	1455	1380	41	32	580	M36	160	632
1400	355	1675	1590	44	36	630	M39	180	836
1500	375	1785	1700	44	36	590	M39	180	899
1600	375	1915	1820	50	40	700	M45	200	1248
1800	395	2115	2020	50	44	640	M45	220	2350
2000	405	2325	2230	50	48	640	M45	240	2650
2200	-	-	-	-	52	-	M52	260	3320
2400	-	-	-	-	56	-	M52	280	3950
2500	-	-	-	-	56	-	M52	280	-
2600	-	-	-	-	60	-	M52	300	4543

Units: mm / indicative dimensions & weights





Dimensions



PN16									
DN	L	D	K	f	n	A*	M	Nr.	KG
40	155	150	110	19	4	330	M16	20	8
50	155	165	125	19	4	330	M16	20	11
65	155	185	145	19	4	330	M16	20	15
80	200	200	160	19	8	340	M16	40	17
100	200	220	180	19	8	340	M16	40	19
125	200	250	210	19	8	340	M16	40	23
150	200	285	240	23	8	350	M20	40	30
200	210	340	295	23	12	350	M20	60	44
250	225	405	355	28	12	380	M24	60	63
300	240	460	410	28	12	400	M24	60	76
350	240	520	470	28	16	410	M24	80	107
400	250	580	525	31	16	430	M27	80	137
450	270	640	585	31	20	450	M27	100	163
500	270	715	650	34	20	460	M30	100	212
600	290	840	770	37	20	500	M33	100	288
700	300	910	840	37	24	500	M33	120	302
800	315	1025	950	41	24	530	M36	120	399
900	325	1125	1050	41	28	530	M36	140	463
1000	335	1255	1170	44	28	570	M39	140	600
1100	320	1355	1270	44	32	560	M39	160	659
1200	345	1485	1390	50	32	620	M45	160	908
1400	355	1685	1590	50	36	630	M45	180	1114
1500	385	1820	1710	57	36	665	M52	180	1476
1600	375	1930	1820	57	40	700	M52	200	1671
1800	400	2130	2020	57	44	680	M52	220	2520
2000	410	2345	2230	62	48	680	M56	240	3168
2200	-	-	-	-	52	-	M56	260	3750
2400	-	-	-	-	56	-	M56	280	4345
2500	-	-	-	-	56	-	M56	280	-
2600	-	-	-	-	60	-	M56	300	4997

Units: mm / indicative dimensions & weights



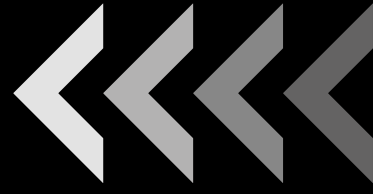


Dimensions

PN25									
DN	L	øD	øK	øf	nr.	A*	M	Nr.	kg
40	165	150	110	19	4	340	M16	20	8
50	175	165	125	19	4	340	M16	20	11
65	175	185	145	19	8	340	M16	40	16
80	185	200	160	19	8	340	M16	40	17
100	195	235	190	23	8	370	M20	40	26
125	195	270	220	28	8	380	M24	40	37
150	205	300	250	28	8	380	M24	40	40
200	205	360	310	28	12	400	M24	60	60
250	225	425	370	31	12	450	M27	60	82
300	225	485	430	31	16	460	M27	80	108
350	245	555	490	34	16	480	M30	80	158
400	255	620	550	37	16	500	M33	80	199
450	255	670	600	37	20	500	M33	100	227
500	275	730	660	37	20	500	M33	100	249
600	295	845	770	41	20	550	M36	100	348
700	315	960	875	44	24	550	M39	120	452
800	335	1085	990	50	24	620	M45	120	629
900	355	1185	1090	50	28	620	M45	140	786
1000	375	1320	1210	57	28	660	M52	140	850
1100	395	1420	1310	57	32	670	M52	160	900
1200	425	1530	1420	57	32	700	M52	160	1300
1400	455	1755	1640	62	36	810	M56	180	-
1600	485	1975	1860	62	40	815	M56	200	-
1800	515	2195	2070	70	44	850	M64	220	-
2000	555	2425	2300	70	48	920	M64	240	-

Units: mm / indicative dimensions & weights





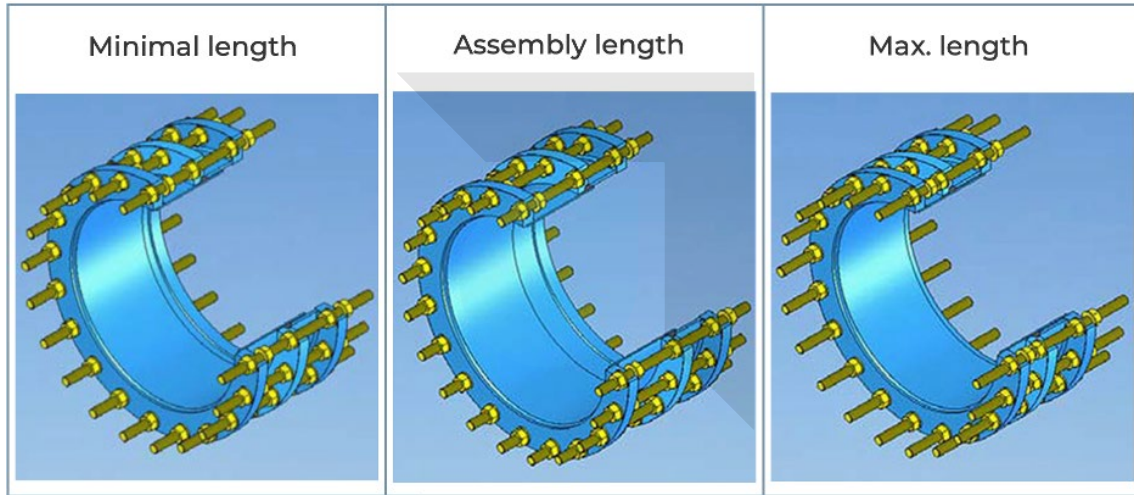
Dimensions

PN40										
DN	L	D	K	f	n	M	A	M	Nr.	KG
50	200	165	125	18	4	M16	310	M16	20	12
65	200	185	145	18	8	M16	310	M16	40	16
80	210	200	160	18	8	M16	330	M16	40	17
100	220	235	190	22	8	M20	350	M20	40	26
125	220	270	220	26	8	M24	370	M24	40	37
150	230	300	250	26	8	M24	370	M24	40	40
200	240	375	320	30	12	M27	410	M24	60	79
250	260	450	385	33	12	M30	440	M27	60	114
300	290	515	450	33	16	M30	480	M30	60	155
350	290	580	510	36	16	M33	480	M33	80	193
400	340	660	585	39	16	M36	540	M36	80	290
450	340	685	610	39	20	M36	540	M36	100	310
500	380	755	670	42	20	M39	590	M39	100	410
600	390	890	795	48	20	M45	620	M45	100	660
700	420	995	900	48	24	M45	650	M45	120	762
800	450	1140	1030	55	24	M52	710	M52	120	1221
900	480	1250	1140	55	24	M52	750	M52	120	1510
1000	500	1360	1250	55	28	M52	780	M52	120	-
1100	520	1460	1350	55	32	M52	800	M52	160	-
1200	530	1575	1460	59	32	M56	800	M56	295	-
1400	560	1795	1680	59	36	M56	850	M56	295	-
1600	580	2025	1900	68	40	M64	880	M64	340	-

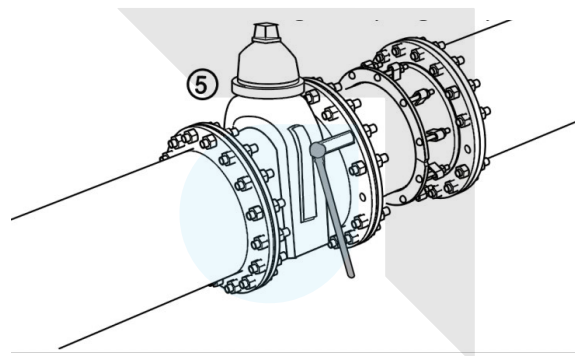
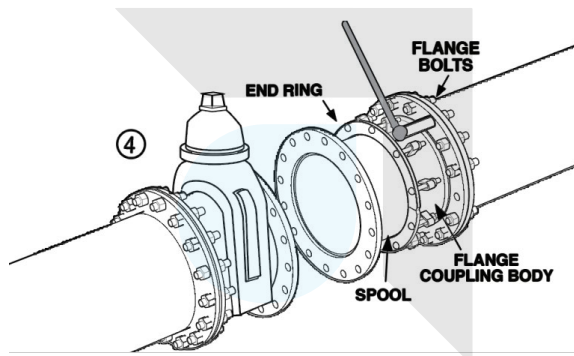
Units: mm / indicative dimensions & weights



Installation Guide



1. Verify the Dismantling Joint components. Make sure there was no transit related damage or missing parts.
2. To ensure that the mating flanges fit the drilling of the dismantling joint, check them. They must be axially aligned and parallel.
3. To enable the spool piece to move freely inside the Flange Coupling body, re move the tie-rods from the Dismantling Joint and release the end ring bolts.
4. Position the Dismantling Joint between the mating flanges by moving it there. Flange gasket should be inserted between the flange faces (not provided). Attach one of the mating flanges to the flanged coupling end of the dismantling joint using flange bolts. The tie-rods may need to be installed simultaneously with the flange bolts, depending on the circumstances.
5. Attach the flanged Stool to the opposite mating flange in your system and fasten together with flange bolts. Make sure the stool piece is inserted at least millimeters inside of the flange coupling body.





Installation Guide



6. After the flanges are bolted together, the pipe spool component should be centered with the flanged coupling. Make that the beveled edge of the gasket fits the beveled end of the flanged coupling if the coupling was entirely dismantled. After positioning the end ring, hand tighten the end ring bolts.

7. Add tie rods. (NOTE: The fitting is NOT RESTRAINED without the tie-rods in place.) When assembled, each tie-rod will have 4 nuts in total. Place the nuts into place after inserting the tie-rod. The Dismantling Joint's flanges on either end must be passed through by the tie-rod. Make sure the lengths of the tie rods are equal. To complete the installation, torque the nuts holding the flanges in place PRIOR to torquing the nuts on the end ring.

8. Evenly tighten the bolts around the end ring by diametrically alternating opposite positions. Wait for 10 minutes or so, then retorquer.

