

Uniwat®

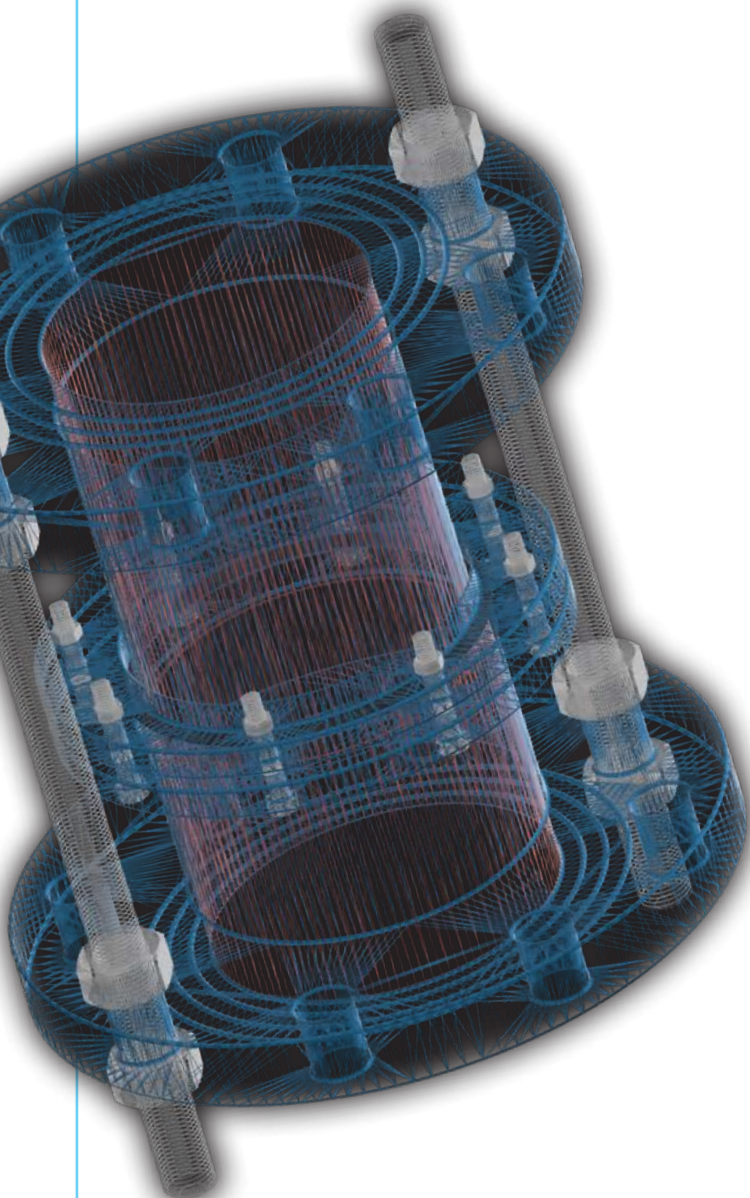


Dismantling joints
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General Design Considerations



Dismantling Joint is generally a double-flanged fitting that allows longitudinal adjustment in flanged pipe systems whilst offering longitudinal restraint.

They are an essential aid during the installation and removal of pipe sections and valves. The reverse sequence is used for dismantling, where readjustment of the length of the dismantling joint creates enough space to loosen and remove the valve. Dismantling joints are of great importance to all piping lay out design and construction works helping to complete commissioning works with piping sections and valves. They provide the rigid piping structure with the necessary flexibility and space allowance to also dismantling the valves during service. At the same time can replace missing valves during commissioning.

The basic design is comprehensive of a female flange, which is connected to the pipe, pump or valve end with a male flange sliding into the female flange exerting an axial movement.

The UNIWAT® range of dismantling joints is comprehensive of integral flanged bodies and the prefabricated telescopic styles.

In the case of integral flanged bodies, an intermediate flange presses the rubber seals against the both male and female flanges thus achieving a full tightness. The use of threaded adjusting studs helps to tightening and balancing the strength in the joint. The number of studs is proportional to the joint nominal pressure, the higher the more studs are required. The material of construction of the main bodies is ductile iron with FBE coating to keep consistency with the rest of the pipework components.

When a larger axial movement is required, the prefabricated telescopic styles mean the better option. These dismantling joints are made in cast steel and customized to the installation allowing wider axial movements though also limiting tie rods provide consistency and strength balance. The bodies can be painted and coated according to the overall requirements of the installation.

The Uniwat® range of dismantling joints can cover a wide range of applications in pipe work installations and complete our well know valve series of isolating, check valves and strainers.



ID SERIES CODIFICATION

1-2	FIG	ID	Integral flange dismantling joint
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3-4	MAT	F1	Ductile Iron (EN JS1050)
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5	TRIM	0	Fasteners in Cast steel Gasket in EPDM
		1	Fasteners in Cast steel Gasket in NBR
		A	Fasteners in St. steel Gasket in EPDM
		B	Fasteners in St. steel Gasket in NBR

6	FLANGES	0	Raised face
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9-10	RATING	10	PN10
		16	PN16
		25	PN25

12-14	SIZE	050	DN50
		500	DN500
		910	DN1000
		915	DN1500

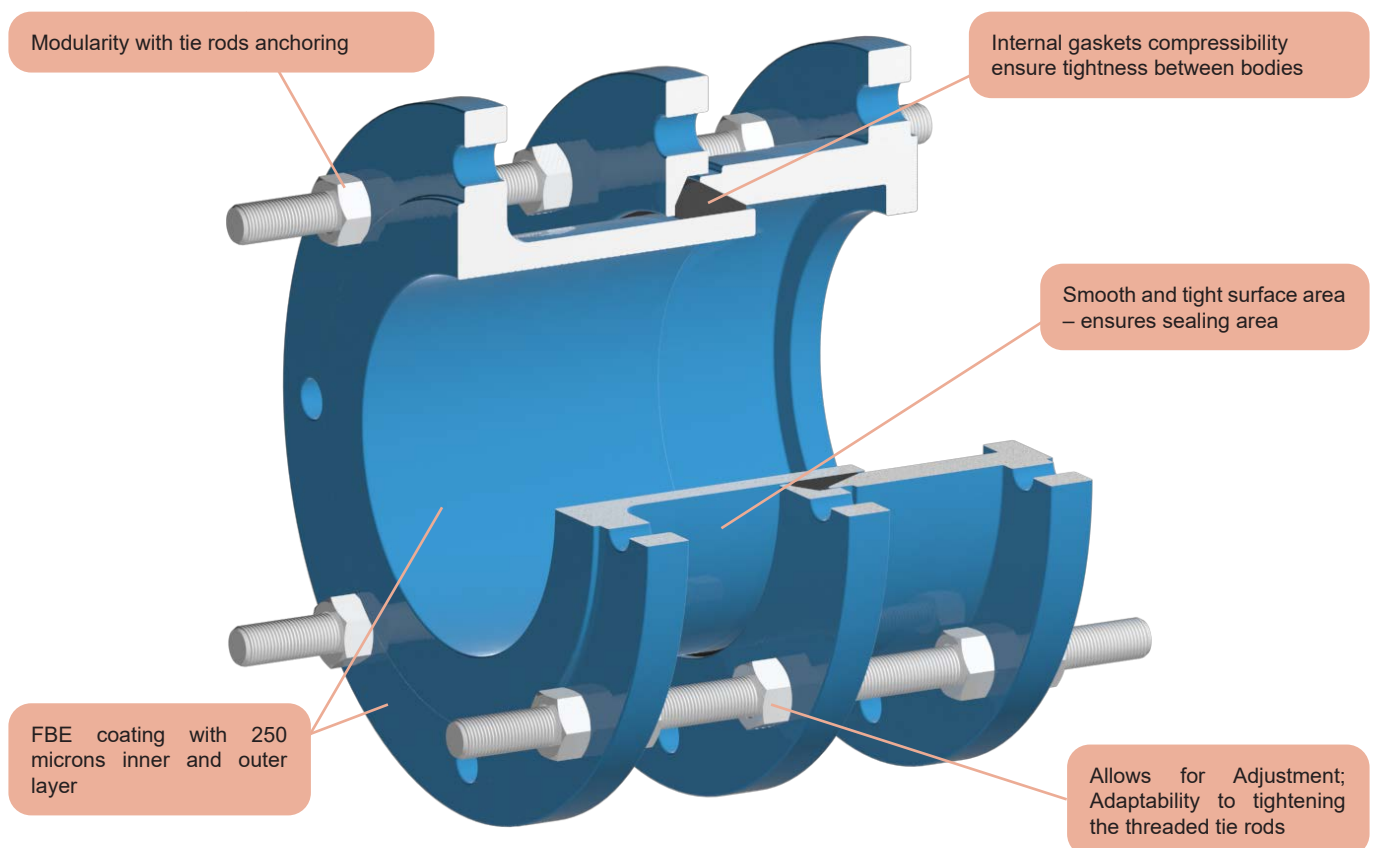
Design Attributes

The Uniwat® Series ID Dismantling Joints are double flanged fittings that accommodate to axial adjustment and can be locked at the required length with tie bars, also part of our supply. 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.

They are easy to install, as the installation is 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 and the tie bars acting as flange jointing bolts the process is speeded up but still offers a secure, rigid, fully end load resistant system with a pressure-rating equal to that of the flange.

These dismantling joints series can be arranged in two different lengths to meet the required installation length and allowing longer axial movements.

Our Series ID are ideally designed for water works installations and are coated with FBE (WRAS compliant).



Main Features

Design: EN545

Flanged to EN 1092-2 type 21/B PN25 / PN16* / PN10; Flanged to ANSI B16.5 Class 125 / 150 / 250

*(valves DN65 with 4 holes as accepted variant in standard)

Non stainless steel exposed areas protected in epoxy coating blue color similar to RAL5015

Main Duties / Limits of use

PS: 40 / 25 / 20 / 16 / 10 bar

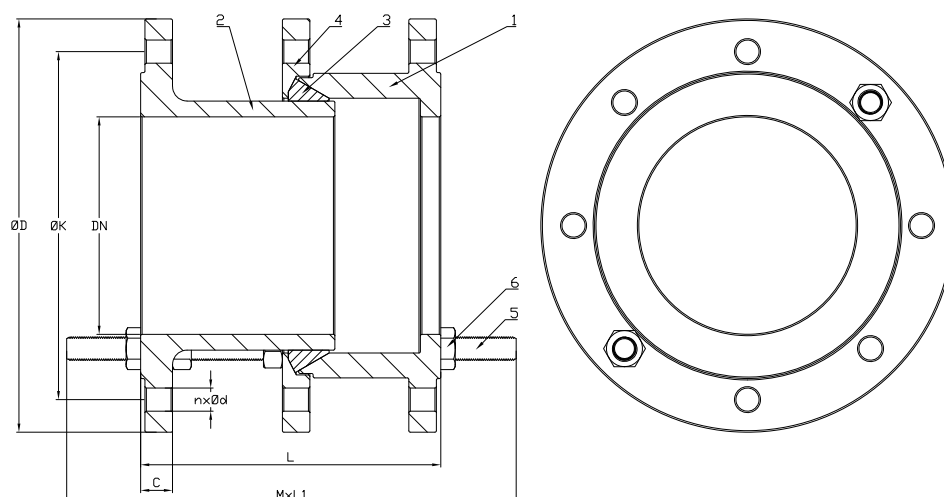
TS: -10/120°C (EPDM gasket) / -10°C/82°C (NBR gasket)

Questions referring to chemical resistance, please consult us

Options

Other pressure design please consult us

Main Parts and Materials



Nº	PART	MATERIAL
1-2	BODIES	Ductile Iron EN JS1050
3	GASKET	EPDM
4	MIDDLE FLANGE	Ductile Iron EN JS1050
5	LIMIT/GUIDING ROD	Dacromet steel 4.8
6	NUTS	Dacromet steel 4.8

Main Valve Parameters

DN	40	50	60	65	80	100	125	150	200	250
L	185	190	190	190	200	200	200	200	220	230
Tolerance	±25	±25	±25	±25	±25	±25	±25	±25	±25	±25
PN10	D	145	165	175	185	200	220	250	285	339
	K	110	125	135	145	160	180	210	240	295
	nxØd	4x19	4x19	4x19	4x19	8x19	8x19	8x19	8x23	8x23
	MxL1	M16x310	M16x340	M16x340	M16x340	M16x340	M16x340	M16x340	M20x350	M20x350
	Weight	8.8	9.9	11.0	11.5	16.0	19.0	20.9	29.5	35.4
PN16	D	145	165	175	185	200	220	250	285	339
	K	110	125	135	145	160	180	210	240	295
	nxØd	4x19	4x19	4x19	4x19	8x19	8x19	8x19	8x23	12x23
	MxL1	M16x310	M16x340	M16x340	M16x340	M16x340	M16x340	M16x340	M20x350	M20x350
	Weight	8.8	9.9	11.0	11.5	16.0	19.0	20.9	29.5	39.0
PN25	D	145	165	175	185	200	235	270	300	360
	K	110	125	135	145	160	190	220	250	310
	nxØd	4x19	4x19	4x19	4x19	8x19	8x23	8x28	8x28	12x28
	MxL1	M16x310	M16x340	M16x340	M16x340	M16x340	M20x400	M24x400	M24x400	M24x410
	Weight	8.8	9.9	11.0	11.5	16.0	23.5	35.0	37.2	54.2

DN	300	350	400	450	500	600	700	800	900	1000
L	240	240	250	270	280	300	300	320	320	330
Tolerance	±25	±25	±25	±25	±25	±25	±25	±25	±25	±25
PN10	D	454	505	562	615	667	777	893	1012	1127
	K	400	460	515	565	620	725	840	950	1050
	nxØd	12x23	16x23	16x28	20x28	20x28	20x31	24x31	24x34	28x34
	MxL1	M20x390	M20x400	M24x420	M24x440	M24x440	M27x460	M27x480	M30x500	M30x500
	Weight	64.5	80.0	94.0	122.0	128.5	177.5	240.5	301.5	394.5
PN16	D	454	518	579	640	715	838	910	1024	1125
	K	410	470	525	585	650	770	840	950	1050
	nxØd	12x28	16x28	16x31	20x31	20x34	20x37	24x37	24x40	28x40
	MxL1	M24x410	M24x410	M27x430	M27x450	M30x460	M33x500	M33x500	-	M36x530
	Weight	72.0	92.5	119.7	148.0	195.0	265.0	292.5	377.5	470.0
PN25	D	485	555	620	670	730	845	960	1085	1185
	K	430	490	550	600	660	770	875	990	1090
	nxØd	16x31	16x34	16x37	20x37	20x37	20x40	24x43	24x49	28x49
	MxL1	M27x460	-	M33x490	-	M33x520	M36x560	-	M45x590	-
	Weight	141.0	-	168.5	-	232.5	337.5	-	590.0	-

Dimensions in mm subject to manufacturing tolerance / Weight in Kg.

Main Valve Parameters

DN	1100	1200	1400	1500	1600	1800	2000
L	-	360	390	410	430	420	440
Tolerance	±25	±25	±25	±25	±25	-	-
PN10	D	-	1455	1675	1785	1915	2325
	K	-	1380	1590	1700	1820	2020
	nxØd	-	32x40	36x43	36x43	40x49	-
	MxL1	-	M36x580	M39x640	M39x680	M45x750	M45x44
	Weight	-	639.5	1113.7	1341.5	1465.5	-
PN16	D	1349	1483	1685	1820	1930	2130
	K	1270	1390	1590	1710	1820	2020
	nxØd	32x45	32x49	36x49	36x56	40x56	-
	MxL1	M39x570	M45x620	M45x640	M52x700	M52x780	M52x44
	Weight	769.4	911.0	-	-	1650.5	-

DN	1100	1200	1400	1500	1600	1800	2000
L	350	360	390	-	440	530	580
Tolerance	±25	±25	±25	-	±25	±50	±50
PN25	D	1420	1530	1755	-	1975	2425
	K	1310	1420	1640	-	1860	2300
	nxØd	32x56	32x56	36x62	-	40x62	-
	MxL1	-	M52x680	-	-	-	-
	Weight	-	-	-	-	-	-

Dimensions in mm subject to manufacturing tolerance / Weight in Kg.

Options

Universal flange adaptor



Reducer flange



Restrained flange adaptor for PE-HD / PVC pipe



Up to DN400



DN400 onwards



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