

Uniwat®

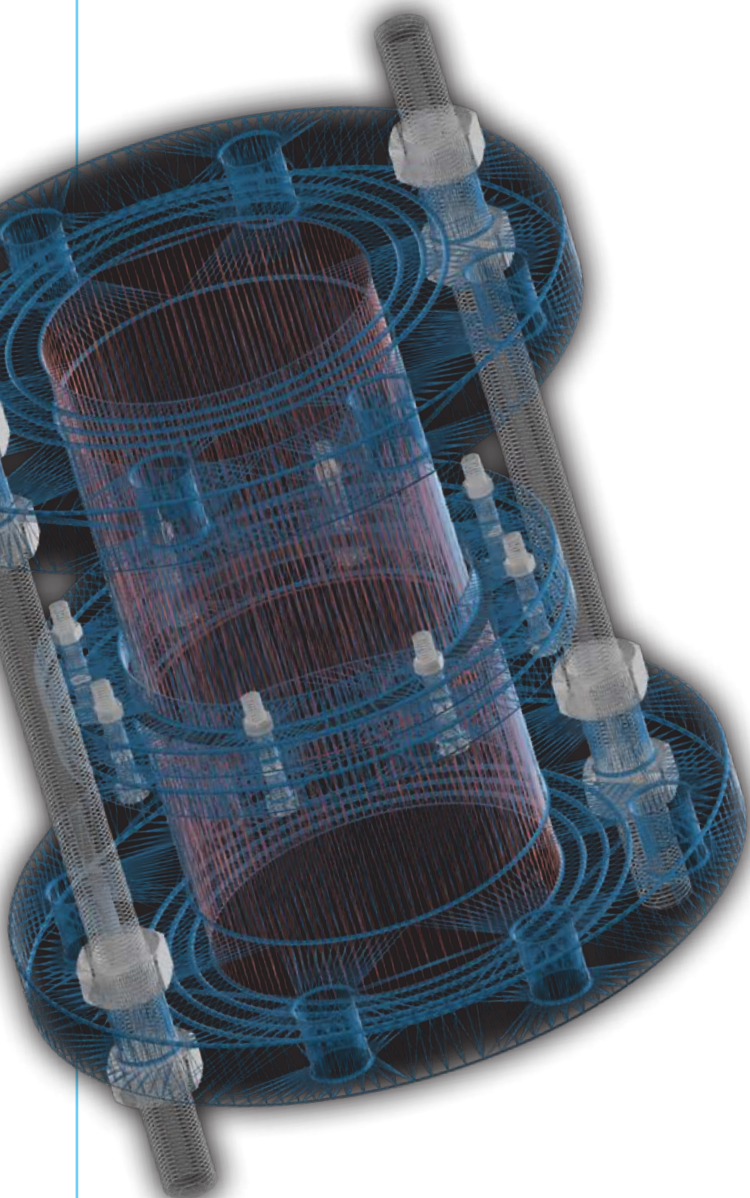


Dismantling joints
www.comeval.es

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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.

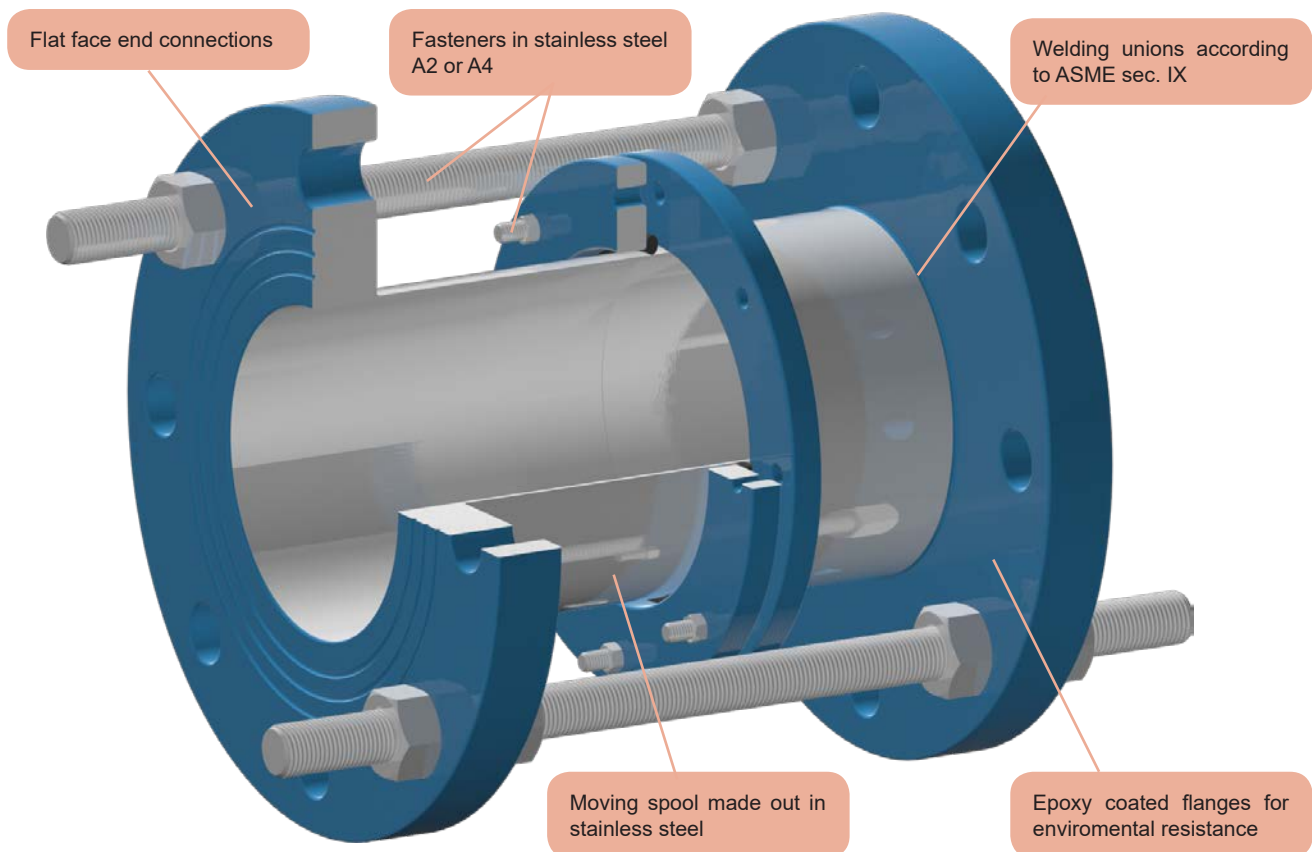


CDTA SERIES CODIFICATION

1-4	FIG	CDTA	Prefabricated telescopic dismantling joints
5	SPOOL MATERIAL	0	AISI304
		1	AISI316
6-7	FLANGES	10	PN10
		16	PN16
		A1	ANSI 150#
		A3	ANSI 300#
12-14	SIZE	040	DN40
		050	DN50
		065	DN65
		080	DN80
		100	DN100
		125	DN125
		150	DN150
		200	DN200

Design Attributes

Telescopic dismantling joints plays a decisive role during installation and provides axial expansion / compression tolerance to protect the installation. Thanks to its adjustable face to face can be easily fit in the pipe line, also valves can be fitted next to the dismantling joint and set then to the exact length required in the installation. The dismantling process is also easily carried out if the section you want to disassemble is next to a dismantling joint.



Main Features

Nominal pressure: PN25
 Flanged to EN 1092-2 type 21/B PN25 / PN16* / PN10
 Spools acc. to ASME sec. VIII div. 1
 *(valves DN65 with 4 holes as accepted variant in standard)
 Non stainless steel exposed areas protected in epoxy coating blue color similar to RAL5015

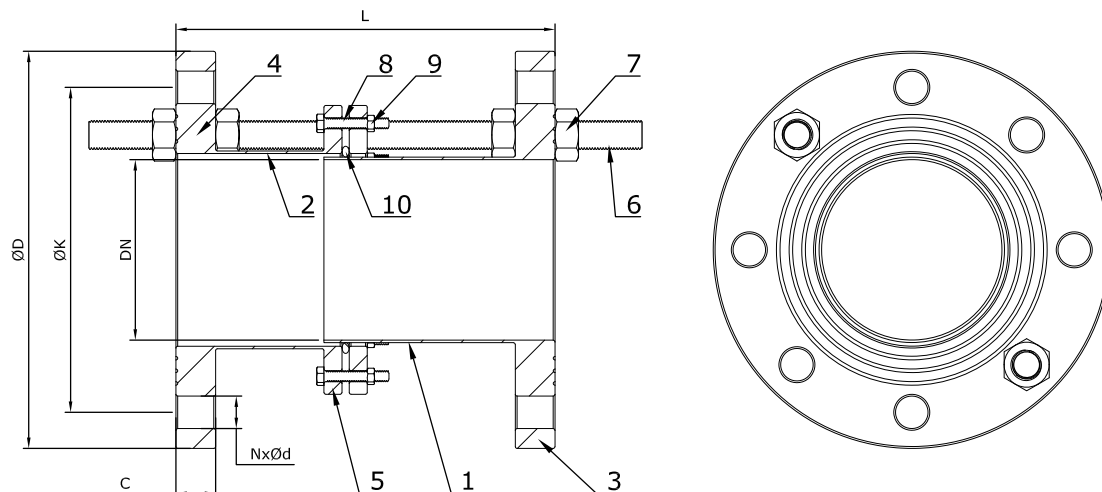
Main Duties / Limits of use

PS: 25 / 16 / 10 bar ; TS: 0/90°C
 Questions referring to chemical resistance, please consult us

Options

Other pressure design please consult us

Main Parts and Materials



Nº	PART	MATERIAL	Option
1-2	SPOOL	St. steel AISI 304	St. steel AISI 316
3-4	CONNECTION FLANGES	Steel S235 JR	Steel S275 JR / St. steel AISI 316
5	MIDDLE FLANGE	Steel S235 JR	St. steel AISI 304 / St. steel AISI 316
6	LIMIT/GUIDING ROD*	A-2 / A-4	8.8 / AISI 304 / AISI 316
7	NUTS	A-2 / A-4	8.8 / AISI 304 / AISI 316
8	STUDS	A-2 / A-4	8.8 / AISI 304 / AISI 316
9	NUTS	A-2 / A-4	8.8 / AISI 304 / AISI 316
10	O-RING	EPDM	

*Number of limit rods depends on nominal pressure and number of bolt's holes (50% of flange's bolt holes for PN25, 25% for PN10/16)

Main Valve Parameters

DN	50	65	80	100	125	150	200	250	300	350	400	450	500
L	180	180	180	180	180	200	230	230	230	250	250	250	300
Tolerance	±30	±30	±30	±30	±30	±30	±40	±40	±40	±40	±40	±50	±50
PN10	ØK	125	145	160	180	210	240	295	350	400	460	515	565
	ØD	165	185	200	220	250	285	340	395	445	505	565	615
	C	18	18	20	20	22	22	24	26	26	28	32	38
	NxØd	4xØ18	4xØ18	8xØ18	8xØ18	8xØ18	8xØ22	8xØ22	12xØ22	12xØ22	16xØ22	16xØ26	20xØ26
	Weight	13	15	21	22	28	37	53	72	81	109	150	206
PN16	ØK	125	145	160	180	210	240	295	355	410	470	525	585
	ØD	165	185	200	220	250	285	340	405	460	520	580	640
	C	18	18	20	20	22	22	24	26	28	32	38	44
	NxØd	4xØ18	4xØ18	8xØ18	8xØ18	8xØ18	8xØ22	12xØ22	12xØ26	12xØ26	16xØ26	16xØ30	20xØ30
	Weight	10	12	14	12	20	24	31	42	53	78	82	95

DN	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800	2000
L	300	330	370	370	400	450	450	450	500	500	500	600	600
Tolerance	±50	±50	±60	±60	±60	±70	±70	±70	±75	±75	±75	±80	±80
PN10	ØK	725	840	950	1050	1160	1270	1380	1490	1590	1700	1820	2230
	ØD	780	895	1015	1115	1230	1330	1455	1575	1675	1785	1915	2325
	C	38	40	44	48	50	50	52	52	52	52	54	66
	NxØd	20xØ30	24xØ30	24xØ33	28xØ33	28xØ36	28xØ39	32xØ39	32xØ42	36xØ42	36xØ42	40xØ48	44xØ48
	Weight	264	329	454	537	674	810	947	1148	1349	1623	1809	2229
PN16	ØK	770	840	950	1050	1170	1280	1390	1490	1590	1710	1820	2230
	ØD	840	910	1025	1125	1255	1370	1485	1585	1685	1820	1930	2345
	C	48	48	48	50	50	50	52	52	52	58	58	66
	NxØd	20xØ36	24xØ36	24xØ39	28xØ39	28xØ42	32xØ42	32xØ48	32xØ48	36xØ48	36xØ56	40xØ56	44xØ56
	Weight	166	210	308	350	412	461	610	675	767	852	955	1132

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
L	200	200	200	220	240	240	280	280	280	320	320	350	350	350
Tolerance	±30	±30	±30	±30	±30	±30	±40	±40	±40	±40	±40	±40	±40	±40
PN25	ØK	125	145	160	190	220	250	310	370	430	490	550	600	770
	ØD	165	185	200	235	270	300	360	425	485	555	620	670	845
	C	20	22	24	24	28	30	30	32	34	38	40	44	44
	NxØd	4xØ18	8xØ18	8xØ18	8xØ22	8xØ26	8xØ26	12xØ26	12xØ30	16xØ30	16xØ33	16xØ36	20xØ36	20xØ36
	Weight	12	14	16	18	24	28	39	52	65	92	102	128	180

Dimensions in mm subject to manufacturing tolerance

Information / restriction of technical rules need to be observed!

Installation, Operating and Maintenance Manual can be downloaded at www.comeval.es

The engineer, designing a system or a plant, is responsible for the selection of the correct valve

Product suitability must be verified, contact manufacturer for information

Options

Universal flange adaptor



Reducer flange



Restrained flange adaptor for PE-HD / PVC pipe



Up to DN400

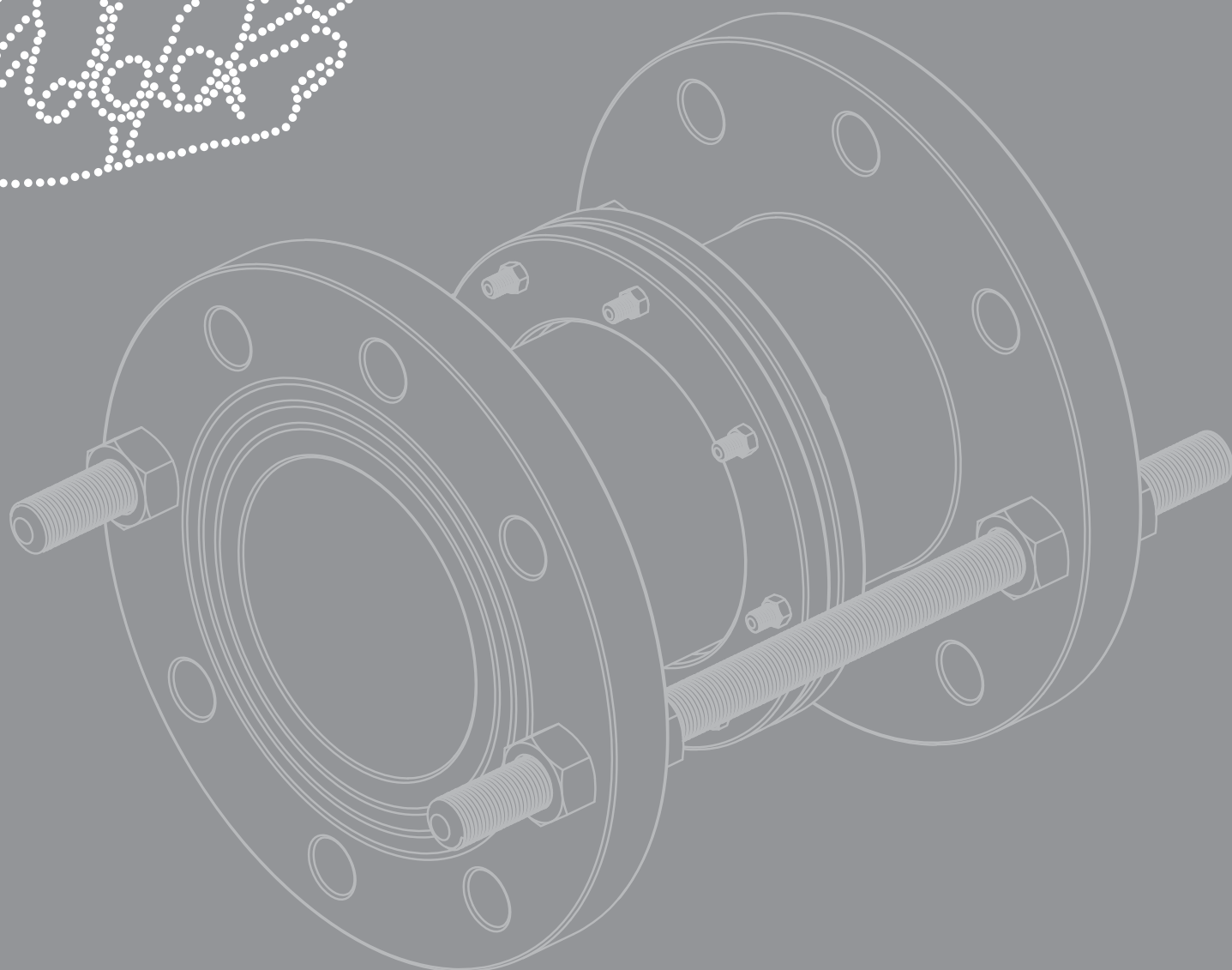


DN400 onwards



Excelling the best

Comeval®



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