

## COMPACT DISMANTLING JOINT

DN100 to DN2400 RESTRAINED

WSA: PA 2056



NEW PATENTED\* COMPACT DISMANTLING JOINT



COMPACT DISMANTLING JOINT INSTALLED

### FEATURES

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Steel Mains' new and improved unique patented\* Compact Dismantling Joint features the following benefits over existing designs:

- Reduced mass for easy handling
- 100% restrained - External flange bolts "sandwich" the Compact Dismantling Joint
- Significantly reduced length requirements
- Easy installation and removal for servicing pipeline components
- Angular misalignment tolerance
- Integrated effective sealing system activated by compression
- Suitable for high pressure applications

### DESCRIPTION

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Steel Mains' Compact Dismantling Joint design is highly advanced with upgraded features. The length of the joint is now shorter compared to previous designs, enabled by the Integrated Seal Design and reduced thickness of the Sealing Flanges. The joint can now be safely installed in tight and constricted locations or where space is at a premium.

The complete assembly is sandwiched in compression between the Pipe Flange and the Pipeline Component making it one of the easiest dismantling joints to install and remove, saving time and money.

## COMPACT DISMANTLING JOINT

DN100 to DN2400 RESTRAINED

### SPECIFICATIONS

Materials & Standards	
<b>Flange Drilling</b>	AS 4087, AS 4331, AS2129, EN1092, ASME B16.47/ASME B16.5 AWWA C207 or to customer specification *
<b>Steel</b>	Grade 250 Steel (min) to AS1594
<b>Compression Bolts</b>	316 Stainless steel grade A4 property class 70 to ISO 3506-1
<b>Nuts</b>	AS1112.1 Class A4-70
<b>Coating</b>	Fusion Bonded Epoxy coating to AS/NZS 4158
<b>Sealing</b>	EPDM Rubber to AS1646



### TECHNICAL DATA

**Size Range** 100 to 2400mm

**Rated Pressures** PN16 and PN35

**Temperature Range** -40° to 70° C

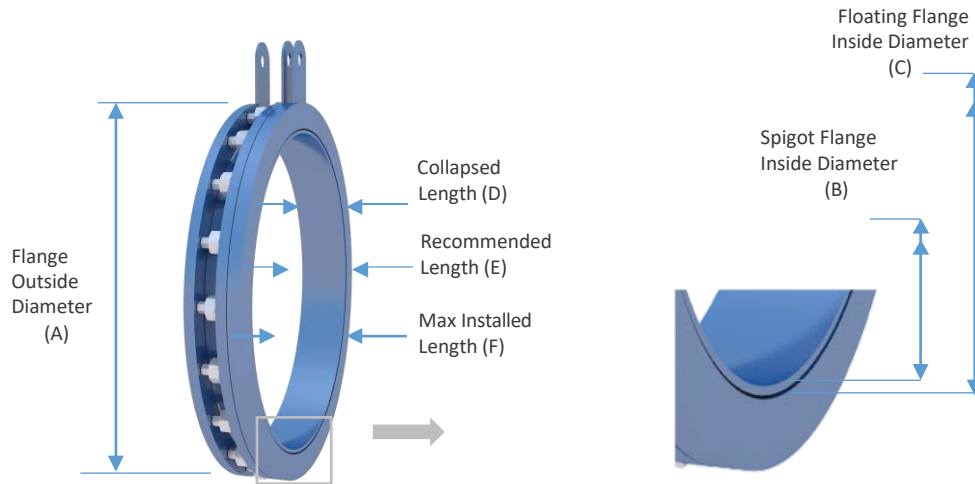
**Standards** AS1579 – Arc-welded steel pipes and fittings for water and waste water

**Certifications** Certified to AS/NZS 4020 – Suitable for contact with drinking water

\* For bespoke sizes and pressures please contact your local Steel Mains Regional Sales Office

## COMPACT DISMANTLING JOINT

DN100 to DN1200 RESTRAINED (PN16)

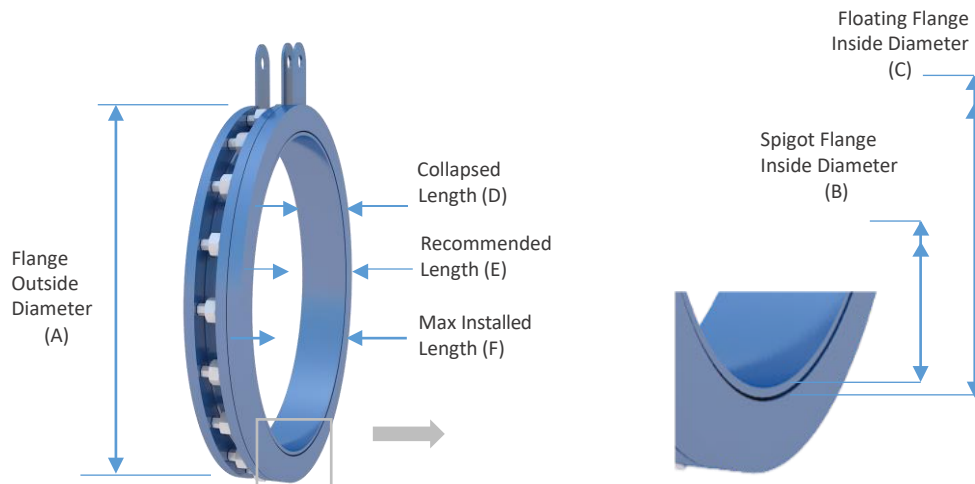


Flange Standard: AS4087 PN16

Size	Flange Outside Diameter (A)	Spigot Flange I.D. (Bore) (B)	Floating Flange I.D. (C)	Collapsed Length (D)	Recommended Installed Length (E)	Maximum Installed Length (F)	Weight (kg)
DN100	160	92	104	80	92	100	6.1
DN150	217	140	152	80	92	100	10
DN200	274	193	209	80	92	100	13.2
DN225	306	222	238	80	92	100	16
DN250	334	229	247	85	97	105	21
DN300	384	289	308	85	97	105	23
DN350	444	334	352	100	112	120	35
DN375	469	363	380	100	112	120	37
DN400	495	390	408	100	112	120	38
DN450	558	441	459	100	112	120	47
DN500	615	488	510	100	112	120	58
DN600	726	590	612	112	132	142	87
DN700	815	687	713	112	132	142	96
DN750	894	750	776	120	140	150	119
DN800	948	789	815	120	140	150	141
DN900	1056	890	916	120	140	150	165
DN1000	1139	992	1018	120	140	150	161
DN1200	1374	1176	1202	120	140	150	252

## COMPACT DISMANTLING JOINT

DN100 to DN1200 RESTRAINED (PN35)

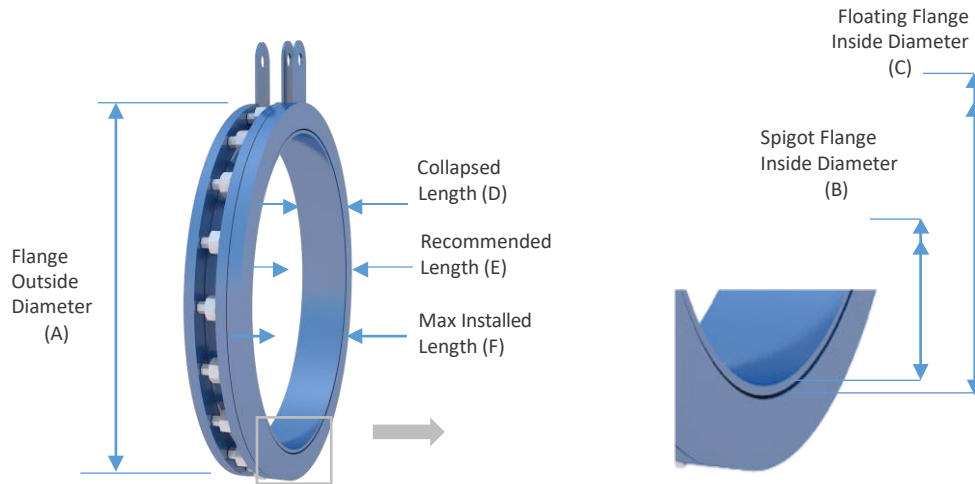


Flange Standard: AS4087 PN35

Size	Flange Outside Diameter (A)	Spigot Flange I.D. (Bore) (B)	Floating Flange I.D. (C)	Collapsed Length (D)	Recommended Installed Length (E)	Maximum Installed Length (F)	Weight (kg)
<b>DN100</b>	173	85	101	80	92	100	9
<b>DN150</b>	238	136	152	85	97	105	15
<b>DN200</b>	302	198	214	85	97	105	20
<b>DN225</b>	330	220	238	100	112	120	26
<b>DN250</b>	355	250	268	100	112	120	27
<b>DN300</b>	412	302	320	100	112	120	34
<b>DN350</b>	465	347	365	112	132	142	48
<b>DN375</b>	491	371	389	112	132	142	52
<b>DN400</b>	522	386	408	112	132	142	63
<b>DN450</b>	577	445	467	120	140	150	71
<b>DN500</b>	640	488	510	120	140	150	88
<b>DN600</b>	745	590	612	120	140	150	110
<b>DN700</b>	821	679	705	120	140	150	114
<b>DN750</b>	904	750	776	120	140	150	135
<b>DN800</b>	948	804	830	120	140	150	135
<b>DN900</b>	1066	906	940	130	150	160	181
<b>DN1000</b>	1155	1000	1030	130	150	160	191
<b>DN1200</b>	1399	1212	1254	130	150	160	284

## COMPACT DISMANTLING JOINT

DN1400 to DN1800 RESTRAINED



### Flange Standard: AS2129 TABLE D

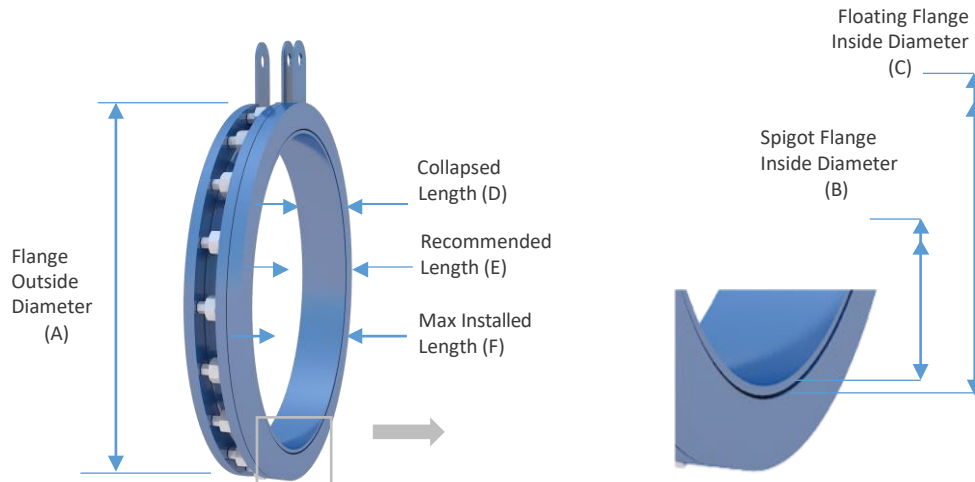
Size	Flange Outside Diameter (A)	Spigot Flange I.D. (Bore) (B)	Floating Flange I.D. (C)	Collapsed Length (D)	Recommended Installed Length (E)	Maximum Installed Length (F)	Weight (kg)
<b>DN1400</b>	1579	1400	1430	130	150	160	292
<b>DN1600</b>	1786	1600	1630	150	170	190	422
<b>DN1800</b>	1977	1800	1832	155	175	195	468

### Flange Standard: AS4331.1/EN1092.1 PN16

Size	Flange Outside Diameter (A)	Spigot Flange I.D. (Bore) (B)	Floating Flange I.D. (C)	Collapsed Length (D)	Recommended Installed Length (E)	Maximum Installed Length (F)	Weight (kg)
<b>DN1400</b>	1542	1360	1386	140	160	170	323
<b>DN1600</b>	1765	1556	1586	170	195	210	538
<b>DN1800</b>	1965	1760	1784	170	195	210	594

## COMPACT DISMANTLING JOINT

DN1400 to DN1800 RESTRAINED



Flange Standard: AS4331.1/EN1092.1 PN16

Size	Flange Outside Diameter (A)	Spigot Flange I.D. (Bore) (B)	Floating Flange I.D. (C)	Collapsed Length (D)	Recommended Installed Length (E)	Maximum Installed Length (F)	Weight (kg)
<b>DN100</b>	159	87	99.5	80	92	100	7
<b>DN150</b>	215	119	135.5	88	100	108	13
<b>DN200</b>	270	174	190.5	88	100	108	17
<b>DN250</b>	326	216	234	100	112	120	26
<b>DN300</b>	381	271	289	100	112	120	30
<b>DN350</b>	441	331	349	100	112	120	36
<b>DN400</b>	492	369	391	112	132	142	55

Flange Standard: AS4331.1/EN1092.1 PN25

Size	Flange Outside Diameter (A)	Spigot Flange I.D. (Bore) (B)	Floating Flange I.D. (C)	Collapsed Length (D)	Recommended Installed Length (E)	Maximum Installed Length (F)	Weight (kg)
<b>DN100</b>	165	69	85	88	100	108	9
<b>DN150</b>	221	115	131	100	112	120	16
<b>DN200</b>	281	171	187	100	112	120	22
<b>DN250</b>	337	214	236	112	132	142	36
<b>DN300</b>	397	273	395	112	132	142	44
<b>DN350</b>	454	323	345	120	140	150	55
<b>DN400</b>	511	373	395	120	140	150	67

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