Data Sheet 8.69
Issue D

063-UWB-0285

G412023

Split Grooved-Flange Adaptor
Model 321 PN16

Material Specification

- Body - Ductile Iron, ASTM A536
- Bolts and nuts - Mild steel Zinc Plated, ASTM A183, ISO898

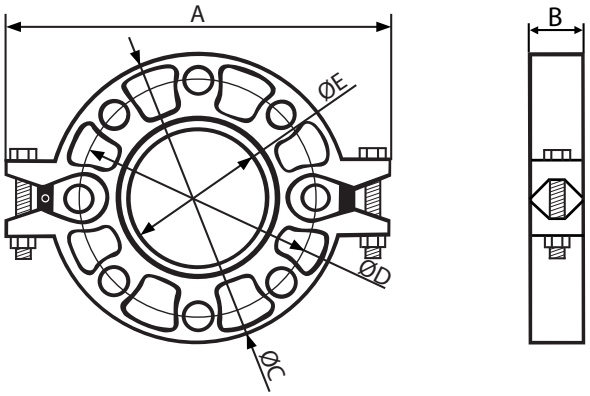
Gasket Specification

- EPDM, ASTM D2000

Temperature range -34°C to +110°C (-30°C to +230°F).
Recommended for hot water service within specified temperature range plus a variety of diluted acids, oil free air and many chemical services. Not recommended for petroleum service.

Finish

- Red painted (RAL 3000)
- Galvanised



Model Number (Red Painted)	Model Number (Galvanised)	Nominal Size mm/in	Pipe O.D mm/in	Max. Working Pressure bar/psi			Dimensions					Bolt Size
				UL	FM / CNBOP	VdS	A mm/in	B mm/in	C mm/in	D mm/in	E m/in	No.-Size mm
RD321P048	RD321P048G	40 1½	48.3 1.900	-	20.7 300	16 232	195 7.68	18.5 0.73	150 5.90	110 4.33	45.4 1.78	2 - M10X50
RD321P060	RD321P060G	50 2	60.3 2.375	20.7 300	20.7 300	16 232	220 8.66	18.5 0.73	165 6.50	125 4.92	57.5 2.26	2 - M10X50
RD321P076	RD321P076G	65 76.1	76.1 3.000	20.7 300	20.7 300	16 232	235 9.25	18.5 0.73	185 7.28	145 5.71	72.7 2.86	2 - M10X50
RD321P089	RD321P089G	80 3	88.9 3.500	20.7 300	20.7 300	16 232	255 10.04	18.5 0.73	195 7.68	160 6.30	85.5 3.37	2 - M10X50
RD321P114	RD321P114G	100 4	114.3 4.500	20.7 300	20.7 300	16 232	279 10.98	18.5 0.73	224 8.82	180 7.09	110.5 4.35	2 - M10X50
RD321P139	RD321P139G	125 5	139.7 5.500	20.7 300	20.7 300	16 232	320 12.60	23 0.91	250 9.84	210 8.27	135.5 5.33	2 - M12X65
RD321P168	RD321P168G	150 6	168.3 6.625	20.7 300	20.7 300	16 232	346 13.62	24 0.94	280 11.00	240 9.95	164.3 6.47	2 - M12X65
RD321P219	RD321P219G	200 8	219.1 8.625	20.7 300	20.7 300	16 232	414.3 16.31	30 1.18	340 13.39	295 11.61	214.9 8.46	2 - 3/8 x 70 2 - M10X70
RD321P272	RD321P272G	250 10	273.0 10.750	15.5 225	20.7 300	16 232	480 18.90	25.5 1.00	405 15.94	355 13.98	268.9 10.59	2 - 3/8 x 70 2 - M10X70

Rapidrop Global Ltd
T: +44 (0) 1733 847 510 F: +44 (0) 1733 553 958
e: rapidrop@rapidrop.com
w: www.rapidrop.com

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Model 321 PN16

1. Pipe Preparation

Check pipe end for proper groove dimensions and to assure that pipe end is free of indentations and projections that would prevent proper sealing.

2. Lubricate Gasket

Check gasket to be sure it's compatible for the intended service. Apply thin lubricant to the outside and sealing lips of the gasket.

3. Gasket Installation

Slip the gasket over pipe end, with the gasket opening side towards "A". Make sure the gasket sealing lip is even with pipe end.

4. Housing Installation

Remove bolts and nuts, place two housings over the gasket, making sure the housing keys fit into the pipe grooves. Re-insert the bolts and hand tighten the nuts.

5. Tighten Nuts

Securely tighten nuts alternatively and equally to the specified bolt torque by using spanner.

6. Connect Mating Flange

Align flange bolt holes with mating flange (or valve) bolt holes. Insert a standard flange bolt through bolt hole and hand tighten a nut. Insert another bolt opposite the first and hand tighten a nut. Continue this until all bolt holes are fitted. Tighten nuts evenly to specified bolt torque, so flange faces remain parallel. Assembly completed.

Caution

Proper torquing of bolts is required to obtain specified performance.

- Over torquing the bolts may result in damage to the bolt and / or casting which could result in pipe joint separation.
- Under torquing the bolts may result in lower pressure retention capabilities, lower bend load capabilities, joint leakage and pipe joint separation. Pipe joint separation may result in significant property damage and serious injury.

Specified Bolt Torque

Bolt Size	Specified Bolt Torque	
	Lbs-Ft.	N.m
M10	30-45	40-60
M12	80-100	110-135

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