

Flat Face Couplings - Technical Data

PLT Range - ISO 16028

PLT1 Standard Range (250/315 Bar) ISO Base 6.3 - 50
 PLT4 Premier Range (350/500 Bar) ISO Base 5 - 25
 PLT6 Ultra High Pressure Range (700 Bar) ISO Base 6.3 - 10
 PLTX Standard Range in Stainless Steel (100/400 Bar) ISO Base 6.3 - 50

The PLK4 range of probes has been designed to offer connection to PLT couplings under residual pressure. A full range of connections are available in BSP, Metric, NPT and UNF thread forms with tube connections from 6 to 30mm tube diameters to DIN 2353. Options include light and heavy thread forms in both short and long (Bulkhead) connections.

Applications

Flat faced couplings are particularly suitable for agriculture, construction and mobile equipment, mining and general industrial use.

Features

Heavy duty construction
 High working pressures and flow rates low pressure drops
 Designed for minimal spillage during connection and disconnection
 Locking sleeve provided with safety system preventing accidental disconnection
 Easy to keep clean.

General Technical Information

Body and Probe - All steel construction, stressed components nitrided or induction hardened
 Finish - Zinc Plated in accordance with EEC directive 2000/53/CE (Chrome 6 free)
 Seals - NBR standard. EPDM, Viton and Neoprene on request. (PLTX Viton as standard)
 Backing Ring - Teflon
 Springs - C98 steel or stainless steel

Contact the sales office for special enquires and further technical information

ISO 16028

Flat Face Couplings - PLT1 Standard Range - Page 142

Standard		Dash		Max. Working Pressure (bar)	Rated Flow (l/m)	Min. Burst Pressure			Fluid Spillage (cc)
Body Size	ISO Base	Size	ø (mm)			Male (bar)	Female (bar)	Coupled (bar)	
1/4	6.3	04	6.1	315	12	1800	1260	1430	0.008
1/2	10	06	8.7	250	23	1640	1000	1610	0.010
3/4	12.5	08	11.2	250	45	1560	1100	1900	0.012
1	19	12	15.5	250	100	1400	1100	1400	0.020
1 1/4	25	16	18	250	189	1300	1000	1400	0.030
1 1/2	40	24	30	250	379	1290	1200	1170	0.050
2	50	32	40	250	757	see PLK4	1000	1000	0.100

Flat Face Couplings - PLTX Stainless Steel Range - Page 143

Standard - Stainless Steel		Dash		Max. Working Pressure (bar)	Rated Flow (l/m)	Min. Burst Pressure			Fluid Spillage (cc)
Body Size	ISO Base	Size	ø (mm)			Male (bar)	Female (bar)	Coupled (bar)	
1/4	6.3	04	6.2	400	12	2610	1660	2320	0.008
1/2	10	06	8.7	250	23	1450	1050	1980	0.010
3/4	12.5	08	11	250	45	1300	1000	1670	0.012
5/8	16	10	12.8	250	74	1200	1000	1500	0.015
1	19	12	15	250	100	1150	1040	1480	0.020
1 1/4	25	16	18	250	189	1000	1000	1000	0.030
1 1/2	40	24	30	150	379	600	600	600	0.050
2	50	32	40	100	757	400	400	400	0.100

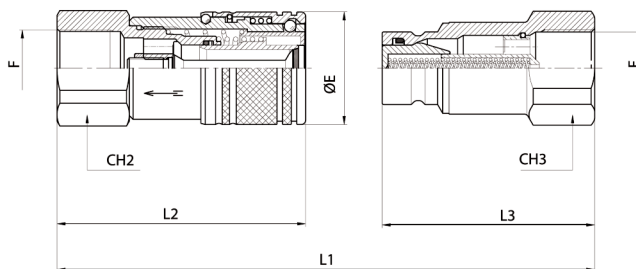
Flat Face Couplings - PLT4 Premier Range - Page 144

Premier		Dash		Max. Working Pressure (bar)	Rated Flow (l/m)	Min. Burst Pressure			Fluid Spillage (cc)
Body Size	ISO Base	Size	ø (mm)			Male (bar)	Female (bar)	Coupled (bar)	
1/8	5	02	4	500	3	2500	2100	2550	0.006
1/4	6.3	04	6.2	400	12	1900	1900	1900	0.008
1/2	10	06	8.7	350	23	1560	1780	1600	0.010
3/4	12.5	08	11	350	45	1700	1590	1770	0.012
5/8	16	10	12.8	350	74	1660	1420	1580	0.015
1	19	12	15	350	100	1600	1470	1840	0.020
1 1/4	25	16	18	350	189	1470	1400	1530	0.030

Contact the sales office for flow and pressure drop characteristics
 For technical advice contact the Bonomi sales office.

Flat Face Couplings - PLT1 Standard Range

ISO 16028



Technical Data

Characteristics

Easy connection and disconnection by pushing the two halves together with one hand only. The locking sleeve is provided with safety-system which makes sure a perfect connection and prevents accidental disconnection.

Dimension 13 (DN13) conforms to HTMA specifications.

All dimensions conform to ISO 16028 standard.

Threads

BSP

NPT on request

Materials

See page 141

Operating and Burst**Pressures**

See table on page 141

Operating Temperature

NBR seals -25°C to +125°C

Special Requests

For assistance, contact our technical office.

Other seals available on request.



See page 145 for Dust Caps

Body Size	ISO Base	Dash Size	Dimensions			Thread Size	Carrier Half Part Number	Probe Half Part Number			
			CH2	CH3	øE						
1/4	6.3	04	22	22	28	101.5	58.5	53.5	1/4	PLT1.0606.002	PLT1.0606.003
1/2	10	06	27	27	32	116	67.5	63.5	3/8	PLT1.1310.002	PLT1.1310.003
1/2	10	06	27	27	32	125	72.5	67.5	1/2	PLT1.1313.002	PLT1.1313.003
3/4	12.5	08	36	36	38	138.5	78.5	72	3/4	PLT1.2019.002	PLT1.2019.003
1	19	12	46	41	48	157.5	94	86	3/4	PLT1.2519.002	PLT1.2519.003
1	19	12	46	41	48	157.5	94	86	1	PLT1.2525.002	PLT1.2525.003
1 1/4	25	16	50	50	55	177	109.5	90	1 1/4	PLT1.3031.002	PLT1.3031.003
1 1/2	40	24	70	70	79	210	118.5	119.5	1 1/2	PLT1.3939.002	PLT1.3939.003
2	50	32	80	70	103	290	147.5	119.5	2	PLT1.5051.112	PLK4.5051.113