Conventional Domed (CD)

Burst Pressure Range in barg(psig) at 20C(68F)									
Standard Materials									
Nominal Bore		Stainless Steel		Aluminium		Nickel/Monel		Inconel	
mm	inch	min	max	min	max	min	max	min	max
15	0.5	40(580)	1400(20305	4(58)	60(870)	20(290)	1000(14504)	70(870)	1400 (20305)
25	1	20(290)	650(9428)	2(29)	30(435)	10(145)	500(7252)	35(508)	650 (9428)
40	1.5	20(290)	600(8702)	1.6(23)	20(290)	8(116)	400(5801)	25(363)	600 (8702)
50	2	17(247)	200(2900)	1.5(22)	15(218)	6(87)	200(2900)	20(290)	200 (2900)
65	2.5	16(232)	200(2900)	1.5(22)	14(203)	6(87)	200(2900)	18(261)	200 (2900)
80	3	15(218)	200(2900)	1.5(22)	12(174)	5(73)	200(2900)	15(218)	200 (2900)
100	4	15(218)	200(2900)	1.2(17)	10(145)	5(73)	150(2176)	15(218)	200 (2900)
150	6	12(174)	160(2320)	1(14.5)	8(116)	4(58)	100(1450)	15(218)	160 (2320)
200	8	10(145)	120(1740)	0.8(11.6)	7(102)	4(58)	80(1160)	12(174)	120 (1740)
250	10	8(116)	100(1450)	0.7(10.2)	6(87)	4(58)	70(1015)	10(145)	100 (1450)
300	12	6.5(94)	80(1160)	0.6(8.7)	5(73)	4(58)	60(870)	8(116)	80 (1160)
350	14	6.5(94)	70(1015)	0.5(7.3)	4(58)	4(58)	50(725)	8(116)	70 (1015)
400	16	6.5(94)	60(870)	0.5(7.3)	3(44)	4(58)	50(725)	7(101)	60 (870)
450	18	6(87)	55(797)	0.5(7.3)	2(29)	4(58)	45(653)	7(102)	55 (797)
500	20	5.5(80)	50(725)	0.5(7.3)	2(29)	4(58)	40(580)	6(87)	50 (725)
600	24	5(73)	40(580)	1(14.5)	2(29)	3(44)	30(435)	5(73)	40 (580)
700	28	4(58)	35(509)	1(14.5)	1.5(22)	2.5(36)	24(348)	4(58)	35 (509)
800	32	3(44)	30(435)	1(14.5)	1.2(17)	2(29)	20(290)	3(44)	30 (435)

Performance Tolerance (Zero Manufacturing Design Range)			
Burst Pressure	**Tolerance**	**Burst Pressure**	**Tolerance**
≤2 Barg	+/- 0.1 Barg	≤29 Psig	+/- 1.45 Psig
>2 Barg	+/- 5%	>29 Psig	+/- 5%

NOTE: with an aluminium disc the above performance tolerances are increased by 5%

Free Flow Area / Minimum Net Flow Area (MNFA)							
Nominal Bore		No Vac Support (XXX)		Non-Opening Vac Support (NVS)		Opening Vac-Support (OVS)	
mm	inch	mm^2	$inch^2$	mm^2	$inch^2$	mm^2	$inch^2$
25	1	507	0.79	383	0.59	415	0.65
40	1.5	1257	1.96	905	1.41	962	1.5
50	2	2027	3.16	1493	2.33	1590	2.48
65	2.5	3318	5.14	2155	3.36	2922	4.56
80	3	5027	7.79	3598	5.61	4536	7.07
100	4	8107	12.57	5110	7.97	6362	9.92
150	6	17671	27.56	11187	17.44	15394	24.01
200	8	31416	48.9	19220	29.98	28353	44.22
250	10	49087	76.56	31915	49.78	45239	70.56
300	12	70686	110.24	-	-	66052	103.02
350	14	96211	150.05	-	-	90792	141.6
400	16	125664	195.99	-	-	119459	186.31
450	18	159043	248.05	-	-	152053	237.15
500	20	196350	306.2	-	-	188574	28.97
600	24	282743	440.98	-	-	264208	412.07
700	28	-	-	-	-	-	-
800	32	-	-	-	-	-	-