

Tank-Safe Domed (TSD) Holderless Solution – Non railcar market

Burst Pressure Range in barg(psig) at 15-30C(59-86F)					
Nominal Bore		Nickel Top Section- Fluoropolymer Seal		Stainless Steel/Inconel Top Section- Fluoropolymer Seal	
mm	inch	min	max	min	max
25	1	1.04 (15)	6.9 (100)	2.1 (30)	13.8 (200)
40	1.5	0.7 (10)	6.9 (100)	1.4 (20)	13.8 (200)
50	2	0.7 (10)	6.9 (100)	1.4 (20)	13.8 (200)
65	2.5	0.7 (10)	6.9 (100)	1.4 (20)	13.8 (200)
80	3	0.7 (10)	5.2 (75)	1.4 (20)	18 (261)
100	4	0.7 (10)	5.2 (75)	1.4 (20)	17 (247)
150	6	0.35 (5)	5.2 (75)	0.7 (10)	13 (189)
200	8	0.35 (5)	5.2 (75)	0.7 (10)	10 (145)
250	10	0.35 (5)	3.45 (50)	0.7 (10)	8.5 (123)
300	12	0.35 (5)	3.45 (50)	0.7 (10)	5.5 (80)
350	14	0.35 (5)	4 (58)	0.7 (10)	5.5 (80)
400	16	0.3 (4.4)	3.8 (55)	0.55 (8)	5.5 (80)
450	18	0.3 (4.4)	3.8 (44)	0.55 (8)	5.5 (80)
500	20	0.3 (4.4)	3.8 (44)	0.55 (8)	5.5 (80)
600	24	0.3 (4.4)	3 (44)	0.5 (7.3)	5.5 (80)
700	28	0.3 (4.4)	2.7 (39)	0.5 (7.3)	4.7 (68)
800	32	0.3 (4.4)	2.5 (36)	0.5 (7.3)	4.3 (62)

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%

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	448	0.607	270	0.42	376	0.58
40	1.5	1164	1.655	721	1.12	1046	1.62
50	2	1908	2.774	1199	1.86	1611	2.49
65	2.5	3166	4.678	1912	2.96	2780	4.30
80	3	4839	7.216	3412	5.29	4359	6.75
100	4	7869	11.81	4736	7.34	7253	11.24
150	6	17319	26.246	9253	14.34	16399	25.41
200	8	30946	47.19	17182	26.63	29711	46.05
250	10	48500	74.22	28084	43.53	46951	72.77
300	12	69980	107.4	-	-	68118	105.6
350	14	64569	146.5	-	-	91863	142.39
400	16	123785	191.9	-	-	120687	187.07
450	18	156929	243.2	-	-	153438	237.83
500	20	188574	292.3	-	-	184745	286.36
600	24	273397	422.6	-	-	268782	416.61
700	28	373928	578.9	-	-	368528	571.22
800	32	490167	764.77	-	-	430083	666.63