

Tank-Safe Flat (TSF) 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	0.21(3)	1.04(15)	0.42(6)	2.07(30)
40	1.5	0.14(2)	0.7(10)	0.28(4)	1.38(20)
50	2	0.14(2)	0.7(10)	0.28(4)	1.38(20)
65	2.5	0.14(2)	0.7(10)	0.28(4)	1.38(20)
80	3	0.14(2)	0.7(10)	0.28(4)	1.38(20)
100	4	0.14(2)	0.7(10)	0.28(4)	1.38(20)
150	6	0.07(1)	0.35(5)	0.14(2)	0.7(10)
200	8	0.07(1)	0.35(5)	0.14(2)	0.7(10)
250	10	0.07(1)	0.35(5)	0.14(2)	0.7(10)
300	12	0.07(1)	0.35(5)	0.14(2)	0.7(10)
350	14	-	-	0.07(1)	0.6(8.7)
400	16	-	-	0.07(1)	0.5(7.25)
450	18	-	-	0.07(1)	0.5(7.25)
500	20	-	-	0.07(1)	0.5(7.25)
600	24	-	-	0.07(1)	0.5(7.25)
700	28	-	-	0.07(1)	0.5(7.25)
800	32	-	-	0.07(1)	0.5(7.25)

Performance Tolerance (Zero Manufacturing Design Range)			
Burst Pressure	Tolerance	Burst Pressure	Tolerance
≤ 0.24 Barg	+/- 0.026 Barg	≤3.5 Psig	+/- 0.375 Psig
>0.24 - ≤ 0.5	+/- 0.053 Barg	>3.5 - ≤7.25	+/- 0.75 Psig
>0.5	+/- 5%	>7.25	+/- 5%

Free Flow Area / Minimum Net Flow Area (MNFA)					
Nominal Bore		No Vac Support (XXX)		Non-Opening Vac Support (NVS)	
mm	inch	mm ²	inch ²	mm ²	inch ²
25	1	448	0.607	270	0.42
40	1.5	1164	1.655	721	1.12
50	2	1908	2.774	1199	1.86
65	2.5	3166	4.678	1912	2.96
80	3	4839	7.216	3412	5.29
100	4	7869	11.81	4736	7.34
150	6	17319	26.246	9253	14.34
200	8	30946	47.19	17182	26.63
250	10	48500	74.22	28084	43.53
300	12	69980	107.4	-	-
350	14	64569	146.5	-	-
400	16	123785	191.9	-	-
450	18	156929	243.2	-	-
500	20	188574	292.3	-	-
600	24	273397	422.6	-	-
700	28	373928	578.9	-	-
800	32	490167	764.77	-	-