

RELIEF VALVES... TECHNICAL INFORMATION

Safety Relief Valve Slope on Air

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Valve	Inlet	Outlet	Flow Area	Slope
800, 800QR, 800QRW*, 800SS	1/2" MNPT	3/4" FNPT	0.02771	0.42
800D	1/2" FNPT	3/4" FNPT	0.02771	0.42
801, 801SS	1/2" MNPT	3/4" FNPT	0.0487	0.73
801D	1/2" FNPT	3/4" FNPT	0.0487	0.73
801DHC	1/2" FNPT	3/4" FNPT	—	0.781
812	1/2" FNPT	1" FNPT	0.1312	1.339
803, 803QC	1/2" FNPT	3/4" FNPT	0.1312	1.978
813	1/2" FNPT	1" FNPT	0.1312	1.99
804	3/4" FNPT	1" FNPT	0.2821	3.05
804R	3/4" FNPT	1" FNPT	0.452	1.63
814	3/4" FNPT	1 1/4" FNPT	0.2821	3.29
805	1" FNPT	1 1/4" FNPT	0.866	4.09
805R	1" FNPT	1 1/4" FNPT	0.168	2.1
815	1" FNPT	1 1/2" FNPT	0.866	4.09
850D,850A	3/4", 1", or 1 1/4" MNPT	1 1/2" FNPT	0.442	6.17
850RD, 850RA	3/4", 1", or 1 1/4" MNPT	1 1/2" FNPT	—	2.5
851D,851A	3/4", 1", or 1 1/4" MNPT	2" MNPT	0.442	6.17
851D,851A	3/4", 1", or 1 1/4" MNPT	2" MNPT	—	6.17
901D,901A	1 1/4" FNPT	2"FNPT, 3"MNPT	1.2275	15.18
903D,903A	1 1/2" FNPT	2"FNPT, 3"MNPT	1.2275	15.18
CS5602A	1/2" FNPT	3/4" FNPT	0.282	2.32
CS5602B	1/2" FNPT	1" FNPT	—	2.65

Capacity Formula on Air:

$[(\text{Set Pressure} \times 1.1) + 14.7] \times \text{Slope} = \text{S.C.F.M.}$

$\text{S.C.F.M.} \times .0764 = \text{Lbs/Min/Air}$

*Socket Weld instead of NPT