

Discharge capacities

Medium:

Air in m³/h at 0°C and 1013.25 mbar

Air in SCFM at 0°C and 1013.25 mbar

The capacity indicated below is for a fully opened valve.

d₀ - orifice

A₀ - flow area

Calculation of discharge capacity acc. to AD2000-Merkblatt A2 / DIN EN ISO 4126-1 resp. ASME Code Sec. VIII.
The Safety Valve is marked with the lower capacity of both calculations.

Set pressure in bar (ü)	GW		1/2	3/4	1	1-1/4	1-1/2	Set pressure in psig	GW		1/2	3/4	1	1-1/4	1-1/2
	d ₀ (mm)	A ₀ (mm ²)	7,0	10,5	15,0	23,0			d ₀ (inch)	rated slope	0,276	0,414	0,591	0,907	
	38,48	86,6	176,63	415,27					0,862	1,517	2,769	7,55			
	Air in m ³ /h								Air in SCFM						
2,0			-	-	-		564	50			60	102	180		524
2,9				144	253		737	60			70	118	208		607
3,0			-	148	260		757	70			79	134	236		690
3,3			94	159	279		815	80			89	150	265		772
4,0			109	185	326		950	90			98	167	294		855
5,0			132	223	392		1143	100			107	183	322		938
6,0			153	260	458		1336	110			117	199	350		1021
7,0			176	298	524		1529	120			126	215	379		1104
8,0			197	336	590		1721	130			136	231	407		1187
9,0			220	373	657		1914	140			145	248	435		1269
10,0			241	411	723		2107	150			155	264	464		1352
12,0			286	486	855		2493	175			179	304	535		1559
14,0			330	561	988		2879	200			202	345	606		1766
16,0			374	637	1120		3265	225			226	384	677		1973
18,0			418	712	1252		3651	250			250	425	748		2180
20,0			463	787	1385		4037	275			273	465	818		2386
22,0			507	862	1517		4423	300			297	506	889		2593
24,0			551	938	1650		4809	325			321	546	961		2800
26,0			595	1013	1782		5195	350			345	586	1032		3007
28,0			639	1088	1914		5581	375			368	627	1103		3214
30,0			684	1163	2047		5967	400			392	667	1174		3421
32,0			728	1239	2179		6353	425			416	707	1244		3628
34,0			772	1314	2311		6739	450			439	748	1315		3835
36,0			816	1389	2444		7125	475			463	788	1386		4042
38,0			860	1464	2576		7511	500			487	828	1457		4249
40,0			905	1540	2709		7897	525			510	869	1529		4456
42,0			949	1615	2841		8282	550			534	909	1600		4662
44,0			993	1690	2973		8668	575			558	950	1670		4869
46,0			1037	1765	3106		9054	625			605	1030	1812		5283
48,0			1082	1841	3238		9440	675			653	1111	1954		5697
50,0			1126	1916	3370		9826	725			700	1192	2096		6111

Dimensions in mm