

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)	7,0	10,5	15,0	23,0			d ₀ (inch)	0,276	0414	0,591	0,907	
	A ₀ (mm ²)	38,48	86,6	176,63	415,27			rated slope	0,862	1,517	2,769	7,55	
Medium	Air in m ³ /h						Medium	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