



PRESSURE SYSTEMS PTY LTD

Herose Safety Valves

Part No. 06-205

Herose Safety Valves Full lift safety valves, male thread, brass type-tested



Open bonnet, free blow off with soft seal, Spring loaded, with lifting device, with male thread

Applications

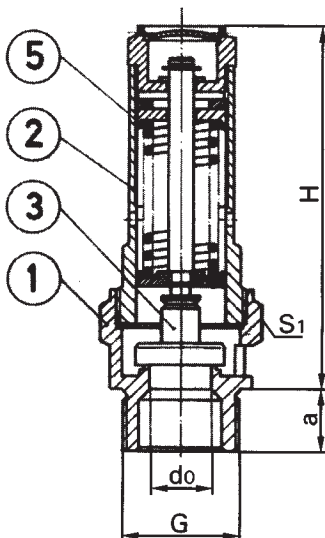
Provided as safety device for protection against excessive pressures in pressure vessels. Suitable for compressed air and similar non-inflammable, non-toxic gases up to 120°C.

Type test approval identification

R^{1/4}" and R^{3/8}" - TUV.SV.80-651.7.D/G-0.68.p
As full lift safety valve
R^{1/2}" to R2" - TUV.SV.84-746-do-D/G.aw.p
As standard safety valve

Type tested pressure range

R^{1/4}" and R^{3/8}" 0.2 up to 25.0 bar
R^{1/2}" 0.2 up to 20.0 bar
R^{3/4}" and R1" 0.2 up to 18.0 bar
R1^{1/4}" to R2" 0.2 up to 16.0 bar



Important

These valves are only delivered preset. Please state set pressure, type of medium and operating temperature when ordering.

Dimensions and Weights

Nom. Size	R	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Seat - Ø	do	7	7	12	15	18	20	24	28
Length	i	10	10	12	15	18	20	22	24
Height	H	60	60	76	90	110	125	140	160
Colla - Ø	D2	20	20	27	32	41	48	55	69
Hexagon	S1	20	20	27	32	41	48	55	70
Hexagon	S2	14	14	19	24	30	36	41	50
Weight	Ca.kg	0.07	0.07	0.17	0.27	0.48	0.75	1.09	1.83

Dimensions in mm.

Male thread: Witworth pipe thread as per DIN 259.

Discharge Capacities for Safety Valves

Calculation of mass flow acc.

Medium:

Air at 0°C and 1013,25 mbar absolute (m³/h)

The capacity indicated below is for a fully opened valve.

d₀ – Seat diameter

A₀ – Flow area

Set Pressure in bar	G d ₀ (mm) A ₀ (mm ²)	1/4"	3/8"	1/2"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
		7 38,48	7 38,48	7 38,48	12 113,1	15 176,7	18 254,5	20 314,2	24 452,4	28" 615,8
0.2		11	11	11	30	60	86	106	153	200
0.5		19	19	19	47	94	135	167	240	321
1.0		30	30	30	70	142	204	252	362	484
1.5		40	40	40	92	191	285	340	490	656
2.0		48	48	48	113	239	344	425	611	819
2.5		56	56	56	136	280	403	497	716	975
3.0		68	68	68	156	326	470	580	835	1136
4.0		85	85	85	195	409	590	728	1048	1427
5.0		102	102	102	235	493	710	876	1262	1717
6.0		120	120	120	275	576	830	1025	1475	2008
7.0		137	137	137	315	660	950	1173	1689	2299
8.0		154	154	154	355	743	1070	1321	1902	2589
9.0		171	171	171	395	826	1190	1469	2116	2880
10.0		189	189	189	434	910	1310	1618	2329	3170
12.0		223	223	223	514	1077	1551	1914	2756	3752
14.0		258	258	258	594	1243	1791	2211	3183	4333
16.0		293	293	293	673	1410	2031	2507	3610	4914
18.0		327	327	327	753	–	2271	–	–	–
20.0		362	362	362	833	–	–	–	–	–
22.0		396	396	396	912	–	–	–	–	–
25.0		448	448	448	–	–	–	–	–	–