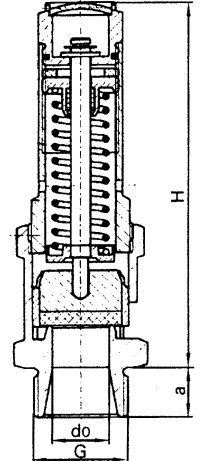


High-pressure type with high blow-off rate.

For compressed air and non-toxic, non-flammable gases, cannot be used for liquids due to free blow-off, not suitable for steam.

These valves are TÜV approved and have a TÜV type test number TÜV-SV.1090. D/G.

Operating pressure	0.2 - 26 bar
Operating temperature	-40 °C to 200 °C
Housing	Brass
Pressure spring	C steel
Sealant	FPM



Safety valve, high pressure type

Type No.	Thread	Set pressure bar	a/f mm	H mm	A mm	do mm
229.01	G 1/2	0.5 - 25.0	27	93.0	14.0	12.0
229.02	G 3/4	0.5 - 22.0	32	110.0	16.0	15.0
229.03	G 1	0.5 - 26.0	41	132.0	18.0	20.0
229.04	G 1 1/4	0.5 - 22.0	50	152.0	20.0	25.0
229.05	G 1 1/2	0.5 - 16.0	55	178.0	22.0	32.0
229.06	G 2	0.5 - 12.0	70	203.0	25.0	40.0

This product must be installed and operated in accordance with the installation and operating instructions, safety information and any relevant regulations and standards!



Medium:

Air in m³/h at 0°C and 1013.25 mbar

Air in SCFM at 60°F (15.6°C) and 14.7 psia (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.

Discharge capacities							
Set pressure in bar (g)	Thread	1/2	3/4	1	1 1/4	1 1/2	2
	d0 (mm)	12.0	15.0	20.0	25.0	32.0	40.0
	A0 (mm ²)	113.1	176.7	314.2	490.9	804.2	1256.6
	Medium	Air in m ³ /h					
0.2		49	78	128	194	317	436
0.5		83	133	211	309	518	712
1.0		124	196	309	489	776	1085
2.0		201	317	485	752	1215	1760
3.0		276	432	675	1026	1634	2442
4.0		347	542	847	1288	2051	3065
5.0		418	654	1022	1553	2473	3696
6.0		489	764	1194	1815	2890	4320
7.0		560	874	1367	2077	3308	4944
8.0		632	988	1544	2347	3737	5585
9.0		703	1098	1717	2610	4156	6211
10.0		775	1212	1894	2879	4584	6851
11.0		846	1322	2068	3142	5003	7478
12.0		917	1433	2241	3406	5423	8105
14.0		1059	1655	2588	3933	6263	-
16.0		1201	1877	2935	4460	7102	-
18.0		1343	2099	3282	4988	-	-
20.0		1500	2343	3664	5567	-	-
22.0		1643	2567	4014	6100	-	-
25.0		1858	2903	4539	-	-	-
26.0		-	3015	4714	-	-	-
28.0		-	3239	5064	-	-	-
30.8		-	3496	5466	-	-	-

Discharge capacities							
Set pressure in psig	Thread	1/2	3/4	1	1 1/4	1 1/2	2
	d0 (inch)	0.472	0.591	0.787	0.984	1.260	1.575
	A0 (in ²)	0.175	0.274	0.487	0.761	1.247	1.948
	Medium	Air in SCFM					
15	85	134	222	332	540	811	
20	98	155	256	383	622	935	
30	124	196	324	484	787	1183	
40	152	241	399	596	969	1456	
50	181	286	483	707	1150	1729	
60	209	331	548	819	1332	2001	
70	238	376	623	931	1513	2274	
80	266	421	697	1042	1695	2547	
90	294	466	772	1154	1876	2820	
100	323	511	847	1266	2059	3083	
110	351	556	921	1377	2239	3365	
120	380	601	996	1489	2421	3638	
130	408	647	1071	1601	2602	3911	
140	437	692	1145	1712	2784	4184	
150	465	737	1220	1824	2965	4457	
160	494	782	1295	1936	3141	4729	
170	522	827	1370	2047	3328	5002	
180	551	872	1444	2159	3510	-	
190	579	917	1519	2271	3691	-	
200	608	962	1594	2382	3873	-	
210	636	1007	1668	2494	4054	-	
220	665	1052	1743	2606	4236	-	
230	693	1098	1818	2717	4417	-	
240	722	1143	1892	2829	-	-	
250	750	1188	1967	2940	-	-	
260	779	1233	2042	3052	-	-	
270	807	1278	2116	3164	-	-	
280	836	1323	2191	3275	-	-	
290	864	1368	2266	3384	-	-	
300	893	1413	2341	3499	-	-	
315	936	1481	2453	3666	-	-	
330	978	1549	2565	-	-	-	
350	1035	1639	2714	-	-	-	
360	1064	1684	2789	-	-	-	
375	-	1752	2901	-	-	-	
400	-	1864	3087	-	-	-	
425	-	1977	3274	-	-	-	
435	-	2022	3349	-	-	-	

Special versions:

- Discharge holes with protection cap
(working temperature: -30 °C / -22 °F (243K) up to 130 °C / 266 °F (403K))
- Stainless steel spring- material 1.4571
- External parts nickel plated

Certificates acc. to DIN EN 10204 (available at an additional cost):

- 2.1 Declaration of compliance with the order
- 2.2 Not available
- 3.1 Inspection certificate - adjustment certificate
- 3.1 Inspection certificate - material certificate
- 3.1 Inspection certificate - material and adjustment certificate
- 3.2 Inspection certificate. Examination by TÜV - set pressure and material without specifying the batch