Safety Valves
Type 06216, Type 06217

Safety Valves, brass,
type tested TÜV-SV.1090 D/G

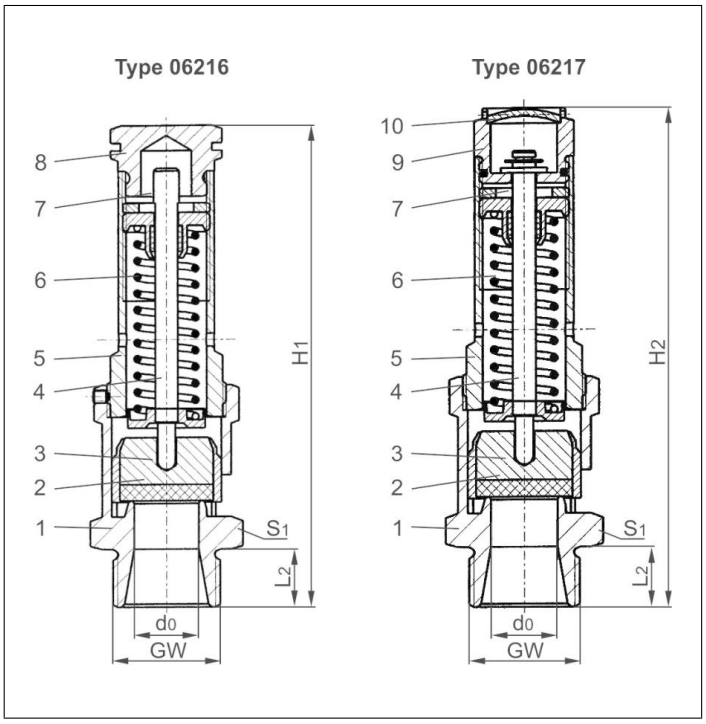
Standard safety valve
with FPM valve seal, open bonnet, with discharge holes
Inlet: male thread type G (BSPP) acc. to ISO 228/1

Part No. 06216.X.0000
Part No. 06217.X.0000
with lifting device

Available options - on request only:
· discharge holes with protection cap
· stainless steel spring - material 1.4571
· external parts nickel plated

Applications:
Provided as safety device for protection against excessive pressure in stationary and moveable gas cylinders and pressure vessels. Approved for air and similar gases.
Working temperature: -40°C / -40°F (233K) up to +200°C / +392°F (473K), suitable for horizontal installation

Materials	DIN EN	ASME Code Case 1750-20
1 Body	CW617N	EN 12165
2 Valve seal	FPM (Viton-GLT)	
3 Disc	CW614N	EN 12164
4 Stem	CW614N	EN 12164
5 Bonnet	CW614N	EN 12164
6 Spring	1.1200	A 576 Grade 1045
7 Stem guide	PTFE	
8 Cap	CW614N	EN 12164
9 Lifting device	CW614N	EN 12164
10 Closing cap	CW507L	B 30 UNS C26800



Essential: Valves are delivered at a set pressure, therefore when ordering please confirm set pressure, medium and temperature.

Standard marking acc. to Pressure Equipment Directive 97/23/EC (PED).

Marking acc. to ASME Code Section VIII.

Type 06216, Type 06217	Technical data						
Nominal size	**GW**	**1/2**	**3/4**	**1**	**1-1/4**	**1-1/2**	**2**
Orifice	d_0	12	15	20	25	32	40
Dimension code	.X.	0400	0600	1000	1200	1400	2000
Set pressure range	bar	0.2-25	0.2-30	0.2-30	0.2-22	0.2-16	0.2-12
Height	H_1	103	122	149	169	198	224
Height	H_2	107	126	150	172	200	228
Length	L_2	14	16	18	20	22	25
Wrench size across flats	S_1	27	32	41	50	55	70
Weight	ca. kg	0.25	0.41	0.72	1.23	1.73	3.09
Coeff. of discharge from 3.0 bar	α_w	0.83	0.83	0.73	0.71	0.69	0.66

Dimensions in mm.

Safety Valves
Type 06216, Type 06217

Discharge capacities
Calculation of mass flow acc. to AD2000-Merkblatt A2

Medium:
Air in m^3/h at 0°C and 1013.25 mbar

The capacity indicated below is for a fully opened valve.

d_0 - orifice
A_0 - flow area

Set pressure in bar (g)	GW	1/2	3/4	1	1-1/4	1-1/2	2
	d_0(mm)	12.0	15.0	20.0	25.0	32.0	40.0
	A_0(mm^2)	113.1	176.7	314.2	490.9	804.3	1256.6
	Medium	**Air**					
0.2		49	78	128	193	317	436
0.5		83	133	210	308	517	711
1.0		123	195	307	459	775	1085
2.0		200	317	495	752	1214	1760
3.0		276	431	675	1026	1633	2442
4.0		346	542	847	1287	2050	3064
5.0		418	653	1021	1552	2472	3695
6.0		488	763	1194	1815	2890	4319
7.0		559	874	1367	2077	3307	4943
8.0		632	987	1544	2346	3736	5584
9.0		702	1098	1717	2609	4155	6210
10.0		775	1211	1894	2878	4583	6850
11.0		846	1322	2067	3142	5003	7478
12.0		917	1433	2241	3405	5423	8105
14.0		1059	1655	2588	3933	6262	-
16.0		1201	1877	2935	4460	7102	-
18.0		1343	2099	3281	4987	-	-
20.0		1499	2343	3663	5567	-	-
22.0		1642	2567	4013	6099	-	-
24.0		1786	2791	4364	-	-	-
25.0		1857	2903	4539	-	-	-
26.0		-	3015	4714	-	-	-
28.0		-	3238	5064	-	-	-
30.0		-	3495	5465	-	-	-