

Safety Valves

Type 06011 - gastight



Cryogenic Safety Valves, angle type, stainless steel, PN63, type tested TÜV-SV.1048. S/G/L

Standard safety valve,
complete with carbon filled PTFE valve seal, closed bonnet, gastight
Outlet: female thread Rc 3/8 acc. to ISO 7/1
"cleaned and degreased for oxygen service"

Part No. 06011.X.0000

Inlet: male thread type R (BSPT) acc. to ISO 7/1

Part No. 06011.X.2000

Inlet: male thread type G (BSPP) acc. to ISO 228/1

Part No. 06011.X.5000

Inlet: male thread NPT acc. to ANSI B 1.20.1

Available options - on request only:

- with installed elbow at the outlet



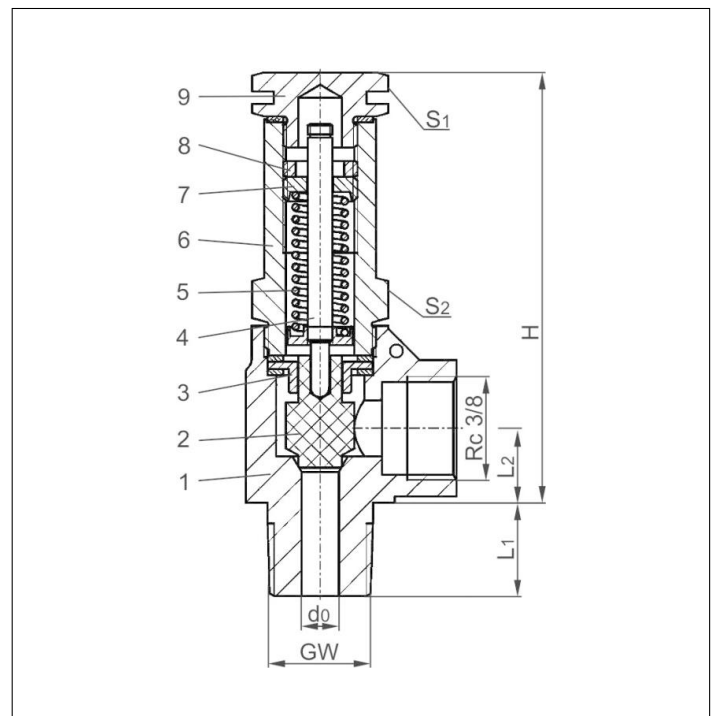
Applications:

Provided as safety device for protection against thermal expansion in pipeworks and parts of facilities.
Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.
Working temperature: -196°C / -321°F (77K) up to +65°C / +149°F (338K), suitable for horizontal installation

Materials	DIN EN	ASME/ASTM
1 Body	1.4408	A 351 CF8M
2 Disc	PTFE / Carbon filled (25%)	
3 Guide plate	1.4301	A 276 Grade 304
4 Stem	1.4301	A 276 Grade 304
5 Spring	1.4571	A 313 Grade 316Ti
6 Bonnet	1.4301	A 276 Grade 304
7 Spring clamp	1.4305	A 276 Grade 303
8 Thread ring	1.4305	A 276 Grade 303
9 Cap	1.4301	A 276 Grade 304

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).



Type 06011	Technical data			
Nominal size	GW	1/4	3/8	1/2
Orifice	d ₀	6.0	6.0	6.0
Dimension code	.X.	0200	0300	0400
Set pressure range	bar	5.0-55.0	5.0-55.0	5.0-55.0
Height	H	70	70	70
Length	L ₁	13	15	17
Length	L ₂	13	13	13
Wrench size across flats	S ₁	19	19	19
Wrench size across flats	S ₂	19	19	19
Weight	ca. kg	0.18	0.195	0.21
Coefficient of discharge	α _w	0.09	0.09	0.09

Dimensions in mm.

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Safety Valves

Type 06383



Cryogenic Safety Valves, angle type, stainless steel, PN50, type tested TÜV-SV.780. S/G

Full lift safety valve, orifice $d_0=23\text{mm}$ standard safety valve,
with carbon filled PTFE valve seal, closed bonnet
"cleaned and degreased for oxygen service"

Part No. 06383.X.0000

Inlet: male thread type G (BSPP) acc. to ISO 228/1, Outlet: female thread type G (BSPP) acc. to ISO 228/1

Part No. 06383.X.2000

Inlet: male thread type R (BSPT) acc. to ISO 7/1, Outlet: female thread type G (BSPP) acc. to ISO 228/1

Part No. 06383.X.5000

Inlet: male thread NPT acc. to ANSI B 1.20.1, Outlet: female thread type G (BSPP) acc. to ISO 228/1

Part No. 06383.X.6000

Inlet: male thread NPT acc. to ANSI B 1.20.1, Outlet: female thread NPT acc. to ANSI B 1.20.1



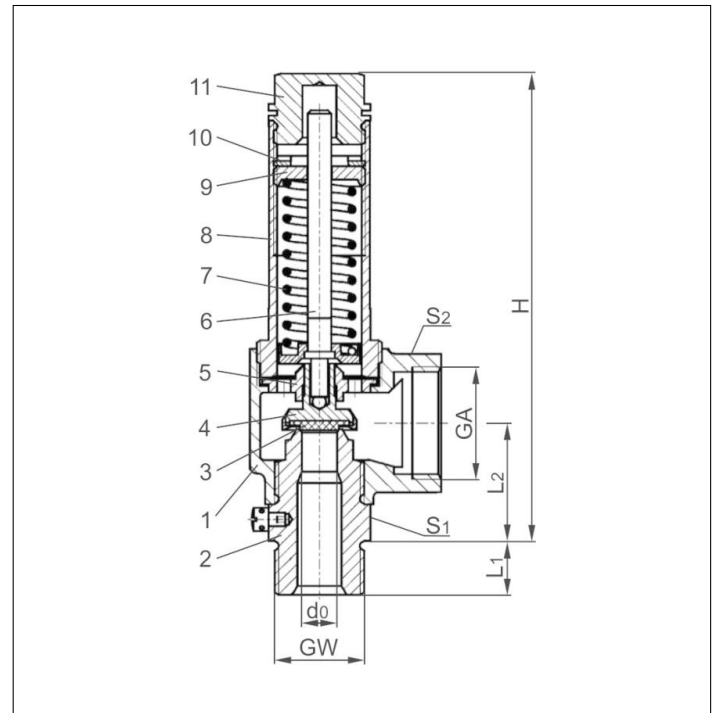
Applications:

Provided as safety device for protection against excessive pressure in stationary and moveable gas cylinders and pressure vessels. Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.
Working temperature: $-196^\circ\text{C} / -321^\circ\text{F} (77\text{K})$ up to $+185^\circ\text{C} / +365^\circ\text{F} (458\text{K})$, suitable for horizontal installation

Materials	DIN EN	ASME/ASTM
1 Outlet body	1.4308	A 351 CF8
2 Inlet body	1.4301	A 479 Grade 304
3 Valve seal	PTFE / Carbon filled (25%)	
4 Disc	1.4301	A 479 Grade 304
5 Guide plate	1.4301	A 479 Grade 304
6 Stem	1.4301	A 479 Grade 304
7 Spring	1.4571	A 313 Grade 316Ti
8 Bonnet	1.4308	A 351 CF8
9 Spring clamp	1.4301	A 479 Grade 304
10 Thread ring	1.4301	A 479 Grade 304
11 Cap	1.4301	A 479 Grade 304

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) and ASME Code Section VIII.



Type 06383	Technical data									
	Nominal size	GW	1/2	3/4	1	1-1/4	1-1/2	2	2	2
Orifice	d_0	7.0	7.0	10.5	10.5	15.0	23.0	23.0	23.0	23.0
Dimension code	.X.	0704	0706	1004	1006	1510	2312	2314	2320	2320
Set pressure range	bar	3.3-50.0	3.3-50.0	2.9-50.0	2.9-50.0	2.9-50.0	2.0-50.0	2.0-50.0	2.0-50.0	2.0-50.0
Outlet	GA	1	1	1	1	1-1/4	2	2	2	2
Height	H	140	140	140	140	157	218	218	218	216
Length	L_1	14	16	14	16	18	20	20	20	25
Length	L_2	36	36	36	36	42	56	56	56	54
Wrench size across flats	S_1	30	30	30	30	41	55	55	55	65
Wrench size across flats	S_2	41	41	41	41	50	70	70	70	70
Weight	ca. kg	0.78	0.80	0.76	0.79	1.27	3.05	3.10	3.10	3.30
Coefficient of discharge	α_w	0.82	0.82	0.58	0.58	0.5	0.62	0.62	0.62	0.62
Coefficient of discharge	rated slope	0.862	0.862	1.517	1.517	2.769	7.55	7.55	7.55	7.55

Dimensions in mm.

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Safety Valves

Type 06383

HEROSE



Discharge capacities

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.

The safety valve is marked with the lower capacity of both calculations.

Set pressure in bar (g)	GW	1/2 & 3/4	1/2 & 3/4	1	1-1/4, 1-1/2 & 2	Set pressure in psig	GW	1/2 & 3/4	1/2 & 3/4	1	1-1/4, 1-1/2 & 2
	d ₀ (mm)	7.0	10.5	15.0	23.0		d ₀ (inch)	0.276	0.414	0.591	0.907
	A ₀ (mm ²)	38.48	86.6	176.63	415.27		A ₀ (in ²)	0.060	0.134	0.274	0.644
Medium	Air in m ³ /h					Medium	Air in SCFM				
2.0	-	-	-	-	563	50	60	102	180	524	
2.9	-	143	252	737	60	70	118	208	607		
3.0	-	147	259	756	70	79	134	236	690		
3.3	93	158	279	814	80	89	150	265	772		
4.0	108	185	325	949	90	98	167	294	855		
5.0	130	222	391	1142	100	107	183	322	938		
6.0	153	260	458	1335	110	117	199	350	1021		
7.0	174	298	524	1528	120	126	215	379	1103		
8.0	196	335	590	1721	130	136	231	407	1186		
9.0	219	373	656	1914	140	145	248	435	1269		
10.0	241	410	722	2107	150	155	264	464	1352		
12.0	285	486	855	2493	175	179	304	535	1558		
14.0	330	561	987	2879	200	202	344	606	1766		
16.0	373	636	1119	3265	225	226	384	677	1972		
18.0	418	711	1252	3651	250	250	425	748	2179		
20.0	461	787	1384	4037	275	273	465	818	2386		
22.0	507	862	1517	4422	300	297	506	889	2593		
24.0	550	937	1649	4808	325	321	546	960	2800		
26.0	595	1012	1781	5194	350	345	586	1031	3007		
28.0	638	1088	1914	5580	375	368	626	1102	3213		
30.0	683	1163	2046	5966	400	392	667	1173	3420		
32.0	727	1238	2178	6352	425	416	707	1244	3627		
34.0	772	1313	2311	6738	450	439	748	1315	3834		
36.0	815	1389	2443	7124	475	463	788	1386	4041		
38.0	860	1464	2576	7510	500	487	828	1457	4248		
40.0	904	1539	2708	7896	525	510	869	1528	4455		
42.0	949	1614	2840	8282	550	534	909	1599	4662		
44.0	992	1690	2973	8668	575	558	949	1670	4868		
46.0	1037	1765	3105	9054	625	605	1030	1812	5282		
48.0	1081	1840	3238	9440	675	653	1111	1954	5696		
50.0	1126	1915	3370	9825	725	700	1191	2096	6109		

Safety Valves

Type 06381



Cryogenic Safety Valves, angle type, stainless steel, PN40, type tested TÜV-SV.780. S/G

Standard safety valve

Metal to metal seated, closed bonnet

"cleaned and degreased for oxygen service"

Part No. 06381.X.0000

Inlet: male thread type G (BSPP) acc. to ISO 228/1, Outlet: female thread type G (BSPP) acc. to ISO 228/1

Part No. 06381.X.2000

Inlet: male thread type R (BSPT) acc. to ISO 7/1, Outlet: female thread type G (BSPP) acc. to ISO 228/1

Part No. 06381.X.5000

Inlet: male thread NPT acc. to ANSI B 1.20.1, Outlet: female thread type G (BSPP) acc. to ISO 228/1

Part No. 06381.X.6000

Inlet: male thread NPT acc. to ANSI B 1.20.1, Outlet: female thread NPT acc. to ANSI B 1.20.1



Applications:

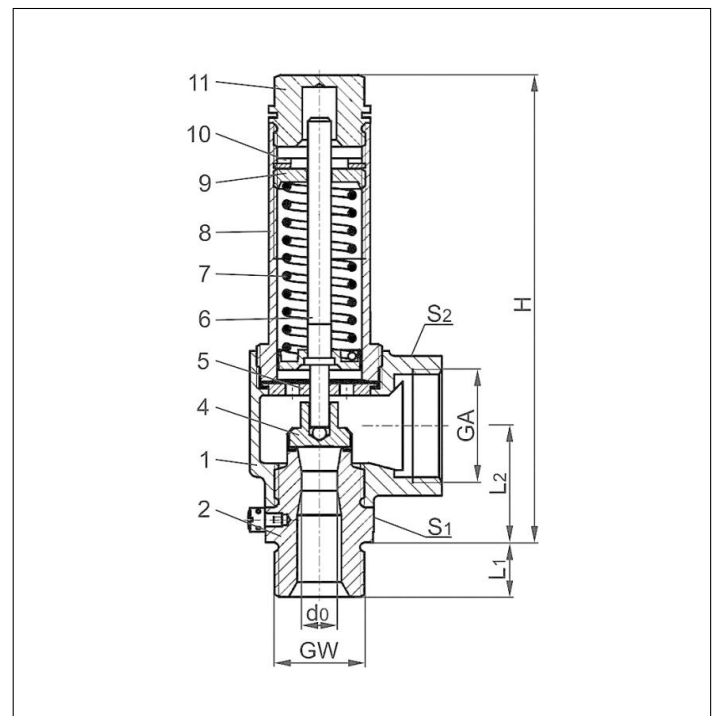
Provided as safety device for protection against excessive pressure in stationary and moveable gas cylinders and pressure vessels. Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.

Working temperature: -196°C / -321°F (77K) up to +185°C / +365°F (458K)

Materials	DIN EN	ASME/ASTM
1 Outlet body	1.4308	A 351 CF8
2 Inlet body	1.4301	A 276 Grade 304
4 Disc	1.4541	A 276 Grade 321
5 Guide plate	1.4301	A 276 Grade 304
6 Stem	1.4301	A 276 Grade 304
7 Spring	1.4571	A 313 Grade 316Ti
8 Bonnet	1.4308	A 351 CF8
9 Spring clamp	1.4301	A 276 Grade 304
10 Thread ring	1.4301	A 276 Grade 304
11 Cap	1.4301	A 276 Grade 304

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).



Type 06381	Technical data		
Nominal size	GW	1/2	3/4
Orifice	d ₀	10.5	10.5
Dimension code	.X.	1004	1006
Set pressure range	bar	0.2-25.0	0.2-25.0
Outlet	GA	1	1
Height	H	140	140
Length	L ₁	14	16
Length	L ₂	36	36
Wrench size across flats	S ₁	30	30
Wrench size across flats	S ₂	41	41
Weight	ca. kg	0.75	0.78
Coeff. of discharge from 3.0 bar	α _w	0.67	0.67

Dimensions in mm.

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Safety Valves

Type 06381



Discharge capacities

Calculation of flow rate acc. to AD2000-Merkblatt A2 / DIN EN ISO 4126-1

Medium:

Air in m³/h at 0°C and 1013.25 mbar

The capacity indicated below is for a fully opened valve.

d₀ - orifice

A₀ - flow area

Set pressure in bar (g)	GW	1/2	3/4
	d ₀ (mm)	10.5	10.5
	A ₀ (mm ²)	86.6	86.6
	Medium	Air	
0.2		25	25
0.5		48	48
1.0		74	74
1.5		99	99
2.0		123	123
3.0		170	170
4.0		214	214
5.0		258	258
6.0		302	302
7.0		345	345
8.0		390	390
9.0		434	434
10.0		479	479
12.0		566	566
14.0		654	654
16.0		742	742
18.0		830	830
20.0		926	926
22.0		1015	1015
24.0		1103	1103
25.0		1148	1148
26.0		-	-
28.0		-	-
30.0		-	-
32.0		-	-
34.0		-	-
36.0		-	-
38.0		-	-
40.0		-	-

Overflow Valves

Type 06381



Cryogenic Safety Valves, angle type, stainless steel, PN40, not type tested

metal to metal seated, closed bonnet,

Inlet: male thread type G (BSPP) acc. to ISO 228/1

Outlet: female thread type G (BSPP) acc. to ISO 228/1

"cleaned and degreased for oxygen service"

Part No. 06381.X.9005 (0.5 up to 1.5 bar)

Part No. 06381.X.9003 (1.0 up to 4.0 bar)

Part No. 06381.X.9001 (3.0 up to 8.0 bar)

Part No. 06381.X.9002 (7.0 up to 17.0 bar)

Part No. 06381.X.9004 (16.0 up to 21.0 bar)

Part No. 06381.X.9007 (21.0 up to 28.0 bar)

Part No. 06381.X.9006 (28.0 up to 36.0 bar)

Available options - on request only:

· other spring ranges acc. to customer specification



Applications:

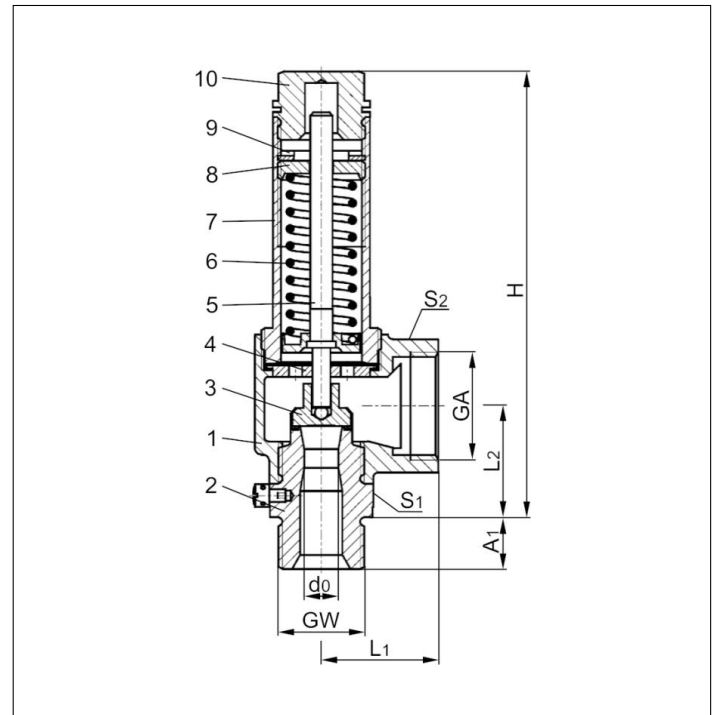
Provided as overflow valve for protection against excessive pressure in pipe systems and pressure vessels, which are not subject to approval.

Working temperature: -196°C / -321°F (77K) up to +185°C / +365°F (458K)

Materials	DIN EN	ASTM
1 Outlet body	1.4308	A 351 CF8
2 Inlet body	1.4301	A 276 Grade 304
3 Disc	1.4541	A 276 Grade 321
4 Guide plate	1.4301	A 276 Grade 304
5 Stem	1.4571	A 276 Grade 316Ti
6 Spring	1.4571	A 313 Grade 316Ti
7 Bonnet	1.4308	A 351 CF 8
8 Spring Clamp	1.4301	A 276 Grade 304
9 Adjusting screw	1.4571	A 276 Grade 316Ti
10 Cap	1.4301	A 276 Grade 304

Important: Adjusting ranges of springs are marked with a label on the bonnet.

Not to use as equipment with safety function acc. to Pressure Equipment Directive 97/23/EC (PED) (No CE marking).



Type 06381	Technical data		
Nominal size	GW	1/2	3/4
Orifice	d ₀	10.5	10.5
Dimension code	.X.	1004	1006
Outlet	GA	1	1
Height	H	139	139
Length	L ₁	36	36
Length	L ₂	34	34
Length	A ₁	14	16
Wrench size across flats	S ₁	30	32
Wrench size across flats	S ₂	41	41
Weight	ca. kg	0.77	0.79

Overflow Valves

Type 06381



Discharge capacities

Calculation of flow rate acc. to AD2000-Merkblatt A2 / DIN EN ISO 4126-1

Medium:

Air in m³/h at 0°C and 1013.25 mbar

The capacity indicated below is for 10% pressure increase.

d₀ - orifice

A₀ - flow area

Set pressure in bar (g)	GW	1/2 & 3/4						
	d ₀ (mm)	10.5						
	A ₀ (mm ²)	86.6						
	Medium	Air						
Pressure range in bar	0.5 - 1.5	1.0 - 4.0	3.0 - 8.0	7.0 - 17.0	16.0 - 21.0	21.0 - 28.0	28.0 - 36.0	
0.5	8	-	-	-	-	-	-	
1.0	11	6	-	-	-	-	-	
1.5	14	9	-	-	-	-	-	
2.0	-	12	-	-	-	-	-	
3.0	-	21	10	-	-	-	-	
4.0	-	32	25	-	-	-	-	
5.0	-	-	48	-	-	-	-	
6.0	-	-	76	-	-	-	-	
7.0	-	-	107	82	-	-	-	
8.0	-	-	144	104	-	-	-	
9.0	-	-	-	128	-	-	-	
10.0	-	-	-	155	-	-	-	
11.0	-	-	-	177	-	-	-	
12.0	-	-	-	217	-	-	-	
13.0	-	-	-	248	-	-	-	
14.0	-	-	-	280	-	-	-	
15.0	-	-	-	319	-	-	-	
16.0	-	-	-	361	186	-	-	
17.0	-	-	-	409	220	-	-	
18.0	-	-	-	-	263	-	-	
19.0	-	-	-	-	304	-	-	
20.0	-	-	-	-	339	-	-	
21.0	-	-	-	-	383	227	-	
22.0	-	-	-	-	-	244	-	
24.0	-	-	-	-	-	278	-	
25.0	-	-	-	-	-	296	-	
26.0	-	-	-	-	-	314	-	
28.0	-	-	-	-	-	353	431	
30.0	-	-	-	-	-	-	461	
32.0	-	-	-	-	-	-	491	
34.0	-	-	-	-	-	-	521	
35.0	-	-	-	-	-	-	536	
36.0	-	-	-	-	-	-	583	

GW	1/2 & 3/4
Part No. spring	Pressure range of springs in bar
55345.0114.1767	0.5 - 1.5
55345.0263.0767	1.0 - 4.0
55345.0118.1767	3.0 - 8.0
55345.0119.1767	7.0 - 17.0
55345.0120.1767	16.0 - 21.0
55345.0233.0767	21.0 - 28.0
55345.0237.0767	28.0 - 36.0

Safety Valves

Type 06012, Type 06016



Cryogenic Safety Valves, angle type, stainless steel, PN63, type tested TÜV-SV.1048. S/G

Standard safety valve, with carbon filled PTFE valve seal, open bonnet

Outlet: female thread Rc 3/8 acc. to ISO 7/1, "cleaned and degreased for oxygen service"

Type 06012: Closed bonnet drainage hole in the locking screw

Type 06016: drainage hole in the bonnet

Part No. 06012.X.0000:

Part No. 06016.X.0000 (with lifting device)

Inlet: male thread type R (BSPT) acc. to ISO 7/1

Part No. 06012.X.2000

Part No. 06016.X.2000 (with lifting device)

Inlet: male thread type G (BSPP) acc. to ISO 228/1

Part No. 06012.X.5000

Part No. 06016.X.5000 (with lifting device)

Inlet: male thread NPT acc. to ANSI B 1.20.1

Available options - on request only:

- with installed elbow at the outlet



Applications:

Provided as safety device for protection against thermal expansion in pipeworks and parts of facilities.

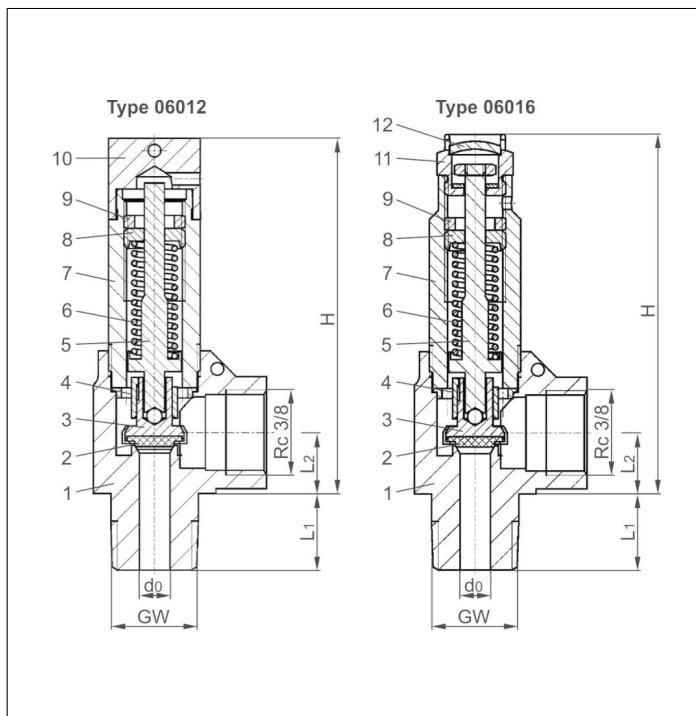
Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.

Working temperature: -196°C / -321°F (77K) up to +150°C / +302°F (423K), suitable for horizontal installation

Materials	DIN EN	ASME/ASTM
1 Body	1.4408	A 351 CF8M
2 Valve seal	PTFE / Carbon filled (25%)	
3 Disc	1.4301	A 276 Grade 304
4 Guide plate	1.4301	A 276 Grade 304
5 Stem	1.4301	A 276 Grade 304
6 Spring	1.4571	A 313 Grade 316Ti
7 Bonnet	1.4301	A 276 Grade 304
8 Spring clamp	1.4305	A 276 Grade 303
9 Thread ring	1.4305	A 276 Grade 303
10 Cap	1.4301	A 276 Grade 304
11 Lifting device	1.4305	A 276 Grade 303
12 Closing cap	1.4305	A 276 Grade 303

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).



Technical data	Type 06012			Type 06016			
	GW	1/4	3/8	1/2	1/4	3/8	1/2
Nominal size	GW	1/4	3/8	1/2	1/4	3/8	1/2
Orifice	d ₀	6.0	6.0	6.0	6.0	6.0	6.0
Dimension code	.X.	0200	0300	0400	0200	0300	0400
Set pressure range	bar	1.0-55.0	1.0-55.0	1.0-55.0	1.0-55.0	1.0-55.0	1.0-55.0
Height	H	70	70	70	72	72	72
Length	L ₁	13	15	17	13	15	17
Length	L ₂	13	13	13	13	13	13
Weight	ca. kg	0.185	0.20	0.22	0.18	0.195	0.21
Coeff. of discharge from 3.0 bar	α _w	0.42	0.42	0.42	0.42	0.42	0.42

Dimensions in mm.

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Safety Valves

Type 06012, Type 06016



Discharge capacities

Calculation of flow rate acc. to AD2000-Merkblatt A2 / DIN EN ISO 4126-1

Medium:

Air in m³/h at 0°C and 1013.25 mbar

The capacity indicated below is for a fully opened valve.

d₀ - orifice

A₀ - flow area

Set pressure in bar (g)	GW	1/4. 3/8 & 1/2
	d ₀ (mm)	6.0
	A ₀ (mm ²)	28.3
	Medium	Air
1.0		15.5
2.0		26.0
3.0		35.0
4.0		43.9
5.0		52.9
6.0		61.8
7.0		70.8
8.0		80.0
9.0		88.9
10.0		98.1
12.0		116.1
14.0		134.0
16.0		152.0
18.0		169.9
20.0		189.7
22.0		207.8
24.0		226.0
26.0		244.1
28.0		262.2
30.0		283.0
32.0		301.3
34.0		319.6
36.0		337.9
38.0		356.2
40.0		377.8
42.0		396.2
44.0		414.7
46.0		433.2
48.0		451.6
50.0		474.1
52.0		492.7
54.0		511.3
55.0		520.6

Safety Valves

Type 06012 - gastight



Cryogenic Safety Valves, angle type, stainless steel, PN63, type tested TÜV-SV.1048. S/G

Standard Safety Valve,
gastight, closed bonnet

with carbon filled PTFE valve seal

Outlet: female thread Rc 3/8 acc. to ISO 7/1

"cleaned and degreased for oxygen service"

Part No. 06012.X.0020

Inlet: male thread type R (BSPT) acc. to ISO 7/1

Part No. 06012.X.2020

Inlet: male thread type G (BSPP) acc. to ISO 228/1

Part No. 06012.X.5020

Inlet: male thread NPT acc. to ANSI B 1.20.1

Available options - on request only:

- with installed elbow at the outlet



Applications:

Provided as safety device for protection against thermal expansion in pipeworks and parts of facilities.

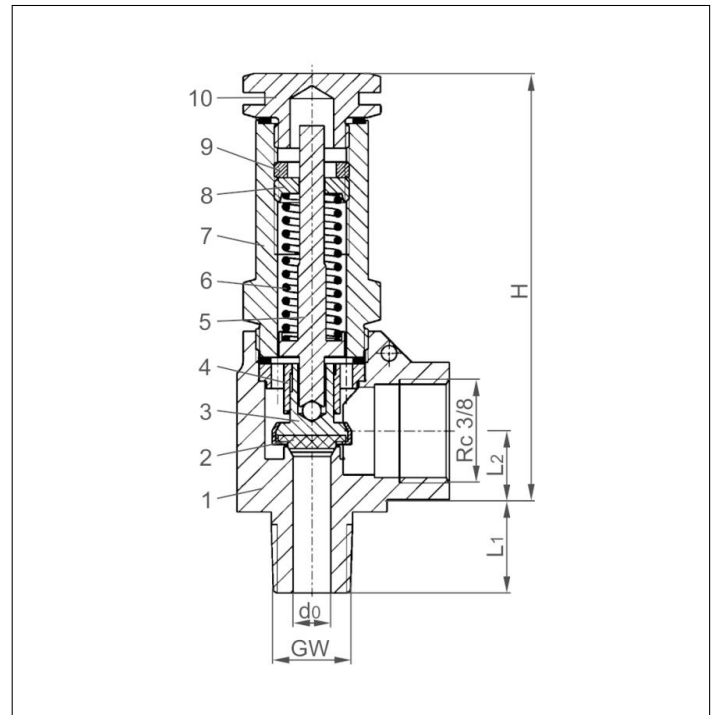
Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.

Working temperature: -196°C / -321°F (77K) up to +150°C / +302°F (423K), suitable for horizontal installation

Materials	DIN EN	ASME/ASTM
1 Body	1.4408	A 351 CF8M
2 Valve seal	PTFE / Carbon filled (25%)	
3 Disc	1.4301	A 276 Grade 304
4 Guide plate	1.4301	A 276 Grade 304
5 Stem	1.4301	A 276 Grade 304
6 Spring	1.4571	A 313 Grade 316Ti
7 Bonnet	1.4301	A 276 Grade 304
8 Spring clamp	1.4305	A 276 Grade 303
9 Thread ring	1.4305	A 276 Grade 303
10 Cap	1.4301	A 276 Grade 304

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).



Type 06002	Technical data			
Nominal size	GW	1/4	3/8	1/2
Orifice	d ₀	6.0	6.0	6.0
Dimension code	.X.	0200	0300	0400
Set pressure range	bar	1.0-55.0	1.0-55.0	1.0-55.0
Height	H	70	70	70
Length	L ₁	13	15	17
Length	L ₂	13	13	13
Weight	ca. kg	0.18	0.20	0.22
Coefficient of discharge	α _w	0.34	0.34	0.34

Dimensions in mm.

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Safety Valves

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Discharge capacities

Calculation of flow rate acc. to AD2000-Merkblatt A2 / DIN EN ISO 4126-1

Medium:

Air in m³/h at 0°C and 1013.25 mbar

The capacity indicated below is for a fully opened valve.

d₀ - orifice

A₀ - flow area

Set pressure in bar (g)	GW	1/4, 3/8 & 1/2
	d ₀ (mm)	6.0
	A ₀ (mm ²)	28.3
	Medium	Air
1.0		12.0
2.0		20.0
3.0		28.0
4.0		35.0
5.0		42.0
6.0		50.0
7.0		57.0
8.0		64.0
9.0		71.0
10.0		79.0
12.0		93.0
14.0		108.0
16.0		123.0
18.0		137.0
20.0		153.0
22.0		168.0
24.0		182.0
26.0		197.0
28.0		212.0
30.0		229.0
32.0		243.0
34.0		258.0
36.0		273.0
38.0		288.0
40.0		305.0
42.0		320.0
44.0		335.0
46.0		350.0
48.0		365.0
50.0		383.0
52.0		398.0
54.0		413.0
55.0		421.0

Safety Valves

Type 06011 - gastight



Discharge capacities

Calculation of flow rate acc. to AD2000-Merkblatt A2 / DIN EN ISO 4126-1

Medium:

Air in m³/h at 0°C and 1013.25 mbar

Water in kg/h

The capacity indicated below is for a fully opened valve.

d₀ - orifice

A₀ - flow area

Set pressure in bar (g)	GW	1/4. 3/8 & 1/2	1/4. 3/8 & 1/2
	d ₀ (mm)	6.0	6.0
	A ₀ (mm ²)	28.3	28.3
	Medium	Air	Water
5.0		11.3	303
6.0		13.3	332
7.0		15.2	359
8.0		17.1	384
9.0		19.1	407
10.0		21.0	429
12.0		24.9	470
14.0		28.7	508
16.0		32.6	543
18.0		36.4	576
20.0		40.7	607
22.0		44.5	637
24.0		48.4	665
26.0		52.3	692
28.0		56.2	719
30.0		60.6	744
32.0		64.6	768
34.0		68.5	792
36.0		72.4	815
38.0		76.3	837
40.0		80.9	859
42.0		84.9	880
44.0		88.9	901
46.0		92.8	921
48.0		96.8	941
50.0		101.6	960
52.0		105.6	979
54.0		109.6	998
55.0		111.6	1007