

Safety Valves

Type 06386



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

Standard safety valve (0.2 - 25.0/40.0 bar)

Metal to metal seated, closed bonnet

"cleaned and degreased for oxygen service"

Part No. 06386.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. 06386.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. 06386.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. 06386.X.6000

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

Available options - on request only:

- external parts nickel plated
- with installed elbow at the outlet



Applications:

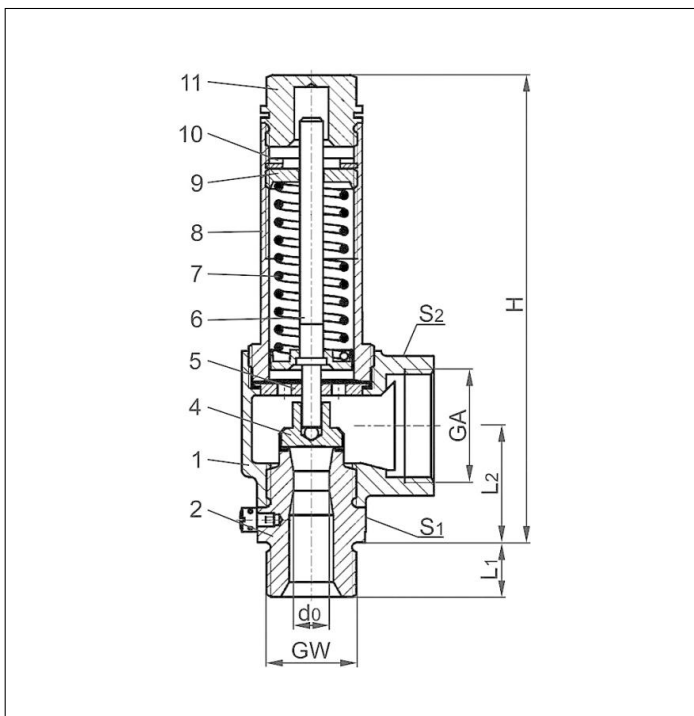
Provided as safety device for protection against excessive pressure in stationary and moveable gas cylinders and pressure vessels. Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.

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

Materials	DIN EN	ASME/ASTM
1 Outlet body	CC491K	B 62 UNS C83600
2 Inlet body	1.4301	A 276 Grade 304
4 Disc	1.4541	A 276 Grade 321
5 Guide plate	CW453K	B 103 UNS C52100
6 Stem	CW453K	B 103 UNS C52100
7 Spring	1.4571	A 313 Grade 316Ti
8 Bonnet	1.4308	A 351 CF 8
9 Spring clamp	CW614N	B 283 UNS C38500
10 Thread ring	CW614N	B 283 UNS C38500
11 Cap	CW614N	B 283 UNS C38500

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 06386	Technical data			
Nominal size	GW	1/2	3/4	1
Orifice	d ₀	10.5	10.5	14.0
Dimension code	.X.	1004	1006	1410
Set pressure range	bar	0.2-25.0	0.2-25.0	0.2-40.0
Outlet	GA	1	1	1-1/4
Height	H	140	140	157
Length	L ₁	14	16	18
Length	L ₂	36	36	42
Wrench size across flats	S ₁	30	30	41
Wrench size across flats	S ₂	41	41	50
Weight	ca. kg	0.75	0.78	1.24
Coeff. of discharge from 3.0 bar	α _w	0.67	0.67	0.67

Dimensions in mm.

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Safety Valves

Type 06388

HEROSE



Cryogenic Safety Valve, angle type, bronze, 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. 06388.X.0040

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

Part No. 06388.X.2040

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

Part No. 06388.X.5040

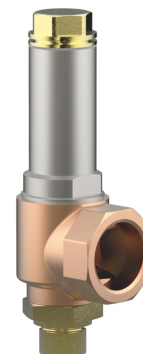
Inlet: male thread NPT acc. to ANSI B 1.20.1, Outlet: female thread type G (BSPP) acc. to ISO 228/1

Part No. 06388.X.6040

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

Available options - on request only:

- external parts nickel plated · with installed elbow at the outlet
- with additional drain hole at the outlet (1)



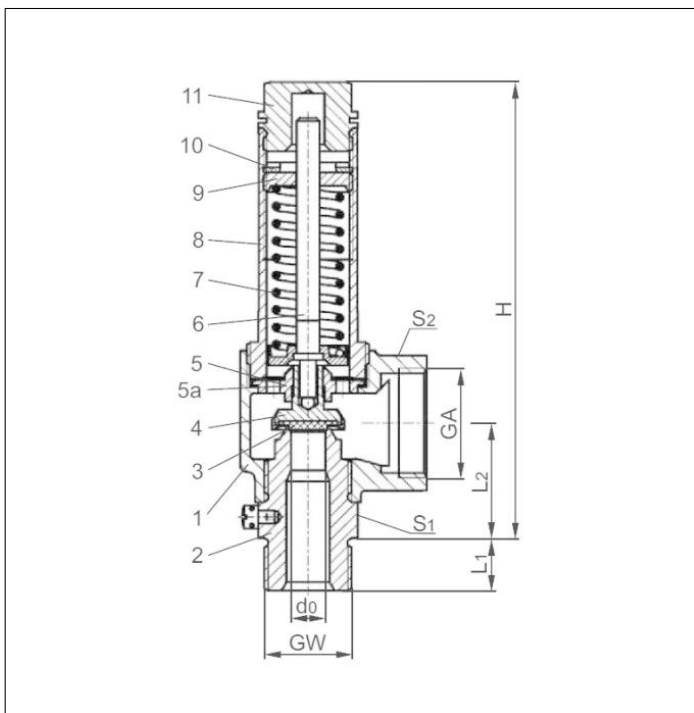
Applications:

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 $+185^{\circ}\text{C}$ / $+365^{\circ}\text{F}$ (458K), suitable for horizontal installation

Materials	DIN EN	ASME/ASTM
1 Outlet body	CC491K	B 62 UNS C83600
2 Inlet body	CW614N	B 455 UNS C38500
3 Valve seal	PTFE / Carbon filled (25%)	
4 Disc	CC493K	SB 505 UNS C93200
5 Guide plate	CC493K	SB 505 UNS C93200
5a Guide plate from GW 1	CC453K	SB 103 UNS C52100
6 Stem	CW453K	SB 103 UNS C52100
7 Spring	1.4571	A 313 Grade 316Ti
8 Bonnet	1.4308	A 351 CF 8
9 Spring clamp	CW614N	B 455 UNS C38500
10 Thread ring	CW614N	B 455 UNS C38500
11 Cap	CW614N	B 455 UNS C38500

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 06388	Technical data								
Nominal size	GW	1/2	3/4	1/2	3/4	1	1-1/4	1-1/2	2
Orifice	d_0	7.0	7.0	10.5	10.5	15.0	23.0	23.0	23.0
Dimension code	.X.	0704	0706	1004	1006	1510	2312	2314	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
Outlet	GA	1	1	1	1	1-1/4	2	2	2
Height	H	140	140	140	140	157	218	218	216
Length	L_1	14	16	14	16	18	20	20	25
Length	L_2	36	36	36	36	42	56	56	54
Wrench size across flats	S_1	30	30	30	30	41	55	55	65
Wrench size across flats	S_2	41	41	41	41	50	70	70	70
Weight	ca. kg	0.78	0.80	0.76	0.79	1.27	3.05	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
Coefficient of discharge	rated slope	0.862	0.862	1.517	1.517	2.769	7.55	7.55	7.55

Dimensions in mm.

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Safety Valves

Type 06388



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
	d ₀ (mm)	7.0	10.5	15.0	23.0
	A ₀ (mm ²)	38.48	86.6	176.63	415.27
	Medium	Air in m ³ /h			
2.0	-	-	-	-	563
2.9	-	-	143	252	737
3.0	-	-	147	259	756
3.3	93	158	279	814	
4.0	108	185	325	949	
5.0	130	222	391	1142	
6.0	153	260	458	1335	
7.0	174	298	524	1528	
8.0	196	335	590	1721	
9.0	219	373	656	1914	
10.0	241	410	722	2107	
12.0	285	486	855	2493	
14.0	330	561	987	2879	
16.0	373	636	1119	3265	
18.0	418	711	1252	3651	
20.0	461	787	1384	4037	
22.0	507	862	1517	4422	
24.0	550	937	1649	4808	
26.0	595	1012	1781	5194	
28.0	638	1088	1914	5580	
30.0	683	1163	2046	5966	
32.0	727	1238	2178	6352	
34.0	772	1313	2311	6738	
36.0	815	1389	2443	7124	
38.0	860	1464	2576	7510	
40.0	904	1539	2708	7896	
42.0	949	1614	2840	8282	
44.0	992	1690	2973	8668	
46.0	1037	1765	3105	9054	
48.0	1081	1840	3238	9440	
50.0	1126	1915	3370	9825	

Set pressure in psig	GW	1/2 & 3/4	1/2 & 3/4	1	1-1/4, 1-1/2 & 2
	d ₀ (inch)	0.276	0.414	0.591	0.907
	A ₀ (in ²)	0.060	0.134	0.274	0.644
	Medium	Air in SCFM			
50	-	60	102	180	524
60	-	70	118	208	607
70	-	79	134	236	690
80	-	89	150	265	772
90	-	98	167	294	855
100	-	107	183	322	938
110	-	117	199	350	1021
120	-	126	215	379	1103
130	-	136	231	407	1186
140	-	145	248	435	1269
150	-	155	264	464	1352
175	-	179	304	535	1558
200	-	202	344	606	1766
225	-	226	384	677	1972
250	-	250	425	748	2179
275	-	273	465	818	2386
300	-	297	506	889	2593
325	-	321	546	960	2800
350	-	345	586	1031	3007
375	-	368	626	1102	3213
400	-	392	667	1173	3420
425	-	416	707	1244	3627
450	-	439	748	1315	3834
475	-	463	788	1386	4041
500	-	487	828	1457	4248
525	-	510	869	1528	4455
550	-	534	909	1599	4662
575	-	558	949	1670	4868
625	-	605	1030	1812	5282
675	-	653	1111	1954	5696
725	-	700	1191	2096	6109

Safety Valves

Type 06388

HEROSE



Cryogenic Safety Valve, angle type, bronze, 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. 06388.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. 06388.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. 06388.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. 06388.X.6000

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

Available options - on request only:

- external parts nickel plated · with installed elbow at the outlet
- with additional drain hole at the outlet (1)



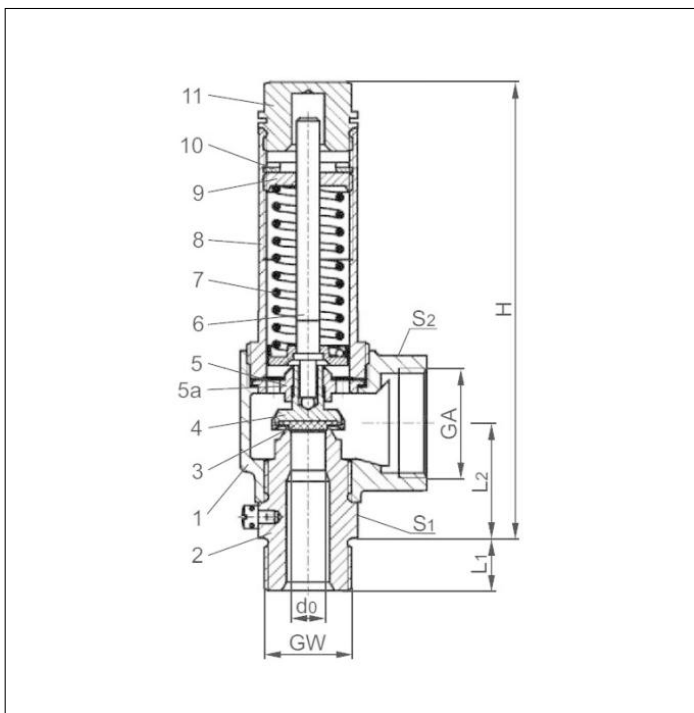
Applications:

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 $+185^{\circ}\text{C}$ / $+365^{\circ}\text{F}$ (458K), suitable for horizontal installation

Materials	DIN EN	ASME/ASTM
1 Outlet body	CC491K	B 62 UNS C83600
2 Inlet body	1.4301	SA 479 Grade 304
3 Valve seal	PTFE / Carbon filled (25%)	
4 Disc	CC493K	SB 505 UNS C93200
5 Guide plate	CC493K	SB 505 UNS C93200
5a Guide plate from GW 1	CC453K	SB 103 UNS C52100
6 Stem	CW453K	SB 103 UNS C52100
7 Spring	1.4571	A 313 Grade 316Ti
8 Bonnet	1.4308	A 351 CF 8
9 Spring clamp	CW614N	B 455 UNS C38500
10 Thread ring	CW614N	B 455 UNS C38500
11 Cap	CW614N	B 455 UNS C38500

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 06388	Technical data								
Nominal size	GW	1/2	3/4	1/2	3/4	1	1-1/4	1-1/2	2
Orifice	d_0	7.0	7.0	10.5	10.5	15.0	23.0	23.0	23.0
Dimension code	.X.	0704	0706	1004	1006	1510	2312	2314	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
Outlet	GA	1	1	1	1	1-1/4	2	2	2
Height	H	140	140	140	140	157	218	218	216
Length	L_1	14	16	14	16	18	20	20	25
Length	L_2	36	36	36	36	42	56	56	54
Wrench size across flats	S_1	30	30	30	30	41	55	55	65
Wrench size across flats	S_2	41	41	41	41	50	70	70	70
Weight	ca. kg	0.78	0.80	0.76	0.79	1.27	3.05	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
Coefficient of discharge	rated slope	0.862	0.862	1.517	1.517	2.769	7.55	7.55	7.55

Dimensions in mm.

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Safety Valves

Type 06388



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
	d ₀ (mm)	7.0	10.5	15.0	23.0
	A ₀ (mm ²)	38.48	86.6	176.63	415.27
	Medium	Air in m ³ /h			
2.0	-	-	-	-	563
2.9	-	-	143	252	737
3.0	-	-	147	259	756
3.3	93	158	279	814	
4.0	108	185	325	949	
5.0	130	222	391	1142	
6.0	153	260	458	1335	
7.0	174	298	524	1528	
8.0	196	335	590	1721	
9.0	219	373	656	1914	
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12.0	285	486	855	2493	
14.0	330	561	987	2879	
16.0	373	636	1119	3265	
18.0	418	711	1252	3651	
20.0	461	787	1384	4037	
22.0	507	862	1517	4422	
24.0	550	937	1649	4808	
26.0	595	1012	1781	5194	
28.0	638	1088	1914	5580	
30.0	683	1163	2046	5966	
32.0	727	1238	2178	6352	
34.0	772	1313	2311	6738	
36.0	815	1389	2443	7124	
38.0	860	1464	2576	7510	
40.0	904	1539	2708	7896	
42.0	949	1614	2840	8282	
44.0	992	1690	2973	8668	
46.0	1037	1765	3105	9054	
48.0	1081	1840	3238	9440	
50.0	1126	1915	3370	9825	

Set pressure in psig	GW	1/2 & 3/4	1/2 & 3/4	1	1-1/4, 1-1/2 & 2
	d ₀ (inch)	0.276	0.414	0.591	0.907
	A ₀ (in ²)	0.060	0.134	0.274	0.644
	Medium	Air in SCFM			
50	-	60	102	180	524
60	-	70	118	208	607
70	-	79	134	236	690
80	-	89	150	265	772
90	-	98	167	294	855
100	-	107	183	322	938
110	-	117	199	350	1021
120	-	126	215	379	1103
130	-	136	231	407	1186
140	-	145	248	435	1269
150	-	155	264	464	1352
175	-	179	304	535	1558
200	-	202	344	606	1766
225	-	226	384	677	1972
250	-	250	425	748	2179
275	-	273	465	818	2386
300	-	297	506	889	2593
325	-	321	546	960	2800
350	-	345	586	1031	3007
375	-	368	626	1102	3213
400	-	392	667	1173	3420
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Safety Valves

Type 06387



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

Standard safety valve (0.2 - 25.0 bar)

Metal to metal seated, closed bonnet

"cleaned and degreased for oxygen service"

Part No. 06387.X.0000

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

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

Available options - on request only:

- external parts nickel plated · with installed elbow at the outlet



Applications:

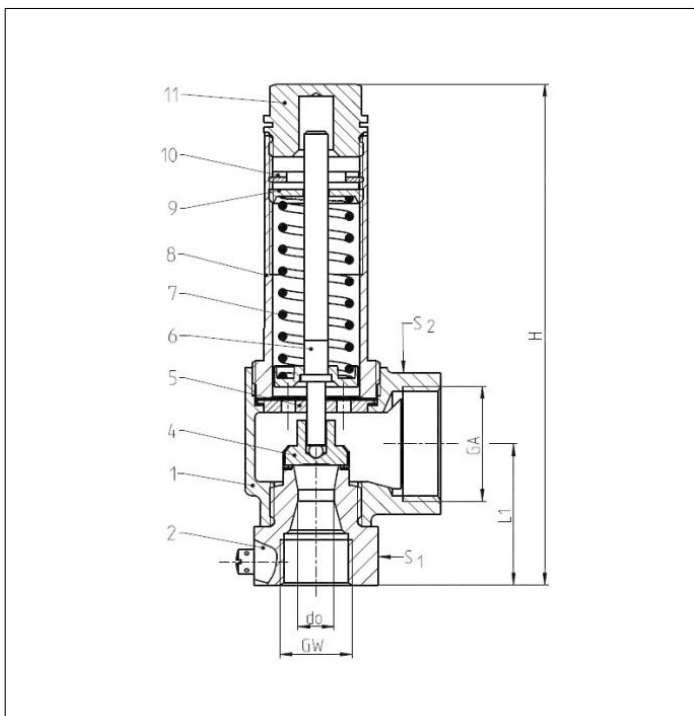
Provided as safety device for protection against excessive pressure in stationary and moveable gas cylinders and pressure vessels. Approved for air gases, vapours and cryogenic liquefied gases incl. LNG.

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

Materials	DIN EN	ASME/ASTM
1 Outlet body	CC491K	B 62 UNS C83600
2 Inlet body	1.4301	A 276 Grade 304
4 Disc	1.4541	A 276 Grade 321
5 Guide plate	CW453K	B 103 UNS C52100
6 Stem	CW453K	B 103 UNS C52100
7 Spring	1.4571	A 313 Grade 316Ti
8 Bonnet	1.4308	A 351 CF 8
9 Spring clamp	CW614N	B 283 UNS C38500
10 Thread ring	CW614N	B 283 UNS C38500
11 Cap	CW614N	B 283 UNS C38500

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 06387	Technical data	
Nominal size	GW	1/2
Orifice	d ₀	10.5
Dimension code	.X.	1004
Set pressure range	bar	0.2-25.0
Outlet	GA	1
Height	H	144
Length	L ₁	41
Wrench size across flats	S ₁	36
Wrench size across flats	S ₂	41
Weight	ca. kg	0.78
Coeff. of discharge from 3.0 bar	α _w	0.67

Dimensions in mm.

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Safety Valves

Type 06387



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
	d ₀ (mm)	10.5
	A ₀ (mm ²)	86.6
	Medium	Air
0.2		25
0.5		48
1.0		74
1.5		99
2.0		124
3.0		170
4.0		214
5.0		258
6.0		302
7.0		345
8.0		390
9.0		434
10.0		479
12.0		566
14.0		654
16.0		742
18.0		830
20.0		926
22.0		1015
24.0		1103
25.0		1148
26.0		-
28.0		-
30.0		-
32.0		-
34.0		-
36.0		-
38.0		-
40.0		-

Overflow Valves

Type 06386



Cryogenic Overflow Valves, angle type, bronze, PN40, not type tested

with adjusting device, 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. 06386.X.9005 (0.5 up to 1.5 bar)

Part No. 06386.X.9003 (1.0 up to 4.0 bar)

Part No. 06386.X.9001 (3.0 up to 8.0 bar)

Part No. 06386.X.9002 (7.0 up to 17.0 bar)

Part No. 06386.X.9004 (16.0 up to 21.0 bar)

Part No. 06386.X.9007 (21.0 up to 28.0 bar)

Part No. 06386.X.9006 (28.0 up to 36.0 bar)

Available options - on request only:

· other spring ranges acc. to customer specification



Applications:

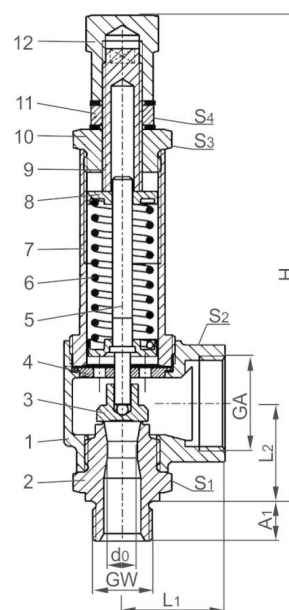
Provided as overflow valve for protection against excessive pressure in pipe systems and pressure vessels, which are not subject to approval.

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

Materials	DIN EN	ASTM
1 Outlet body	CC491K	B 62 UNS C83600
2 Inlet body	1.4301	A 276 Grade 304
3 Disc	1.4541	A 276 Grade 321
4 Guide plate	CW453K	B 103 UNS C52100
5 Stem	CW453K	B 103 UNS C52100
6 Spring	1.4571	A 313 Grade 316Ti
7 Bonnet	1.4305	A 314 Grade 303
8 Spring clamp	CW614N	B 283 UNS C38500
9 Adjusting screw	CW614N	B 283 UNS C38500
10 Plug	CW614N	B 283 UNS C38500
11 Nut	CW614N	B 283 UNS C38500
12 Closing cap	CW614N	B 283 UNS C38500

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 06386	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	171	171
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
Wrench size across flats	S ₃	30	30
Wrench size across flats	S ₄	22	22
Weight	ca. kg	0.78	0.81

Dimensions in mm.

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Overflow Valves

Type 06386



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 06386



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	1
	d ₀ (mm)	10.5	14.0
	A ₀ (mm ²)	86.6	153.9
	Medium	Air	
0.2		25	49
0.5		48	87
1.0		74	135
1.5		99	175
2.0		123	217
3.0		170	303
4.0		214	381
5.0		258	459
6.0		302	537
7.0		345	614
8.0		390	694
9.0		434	772
10.0		479	851
12.0		566	1007
14.0		654	1163
16.0		742	1319
18.0		830	1475
20.0		926	1647
22.0		1015	1805
24.0		1103	1962
25.0		1148	2041
26.0		-	2120
28.0		-	2277
30.0		-	2458
32.0		-	2617
34.0		-	2776
36.0		-	2934
38.0		-	3093
40.0		-	3280