

# 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

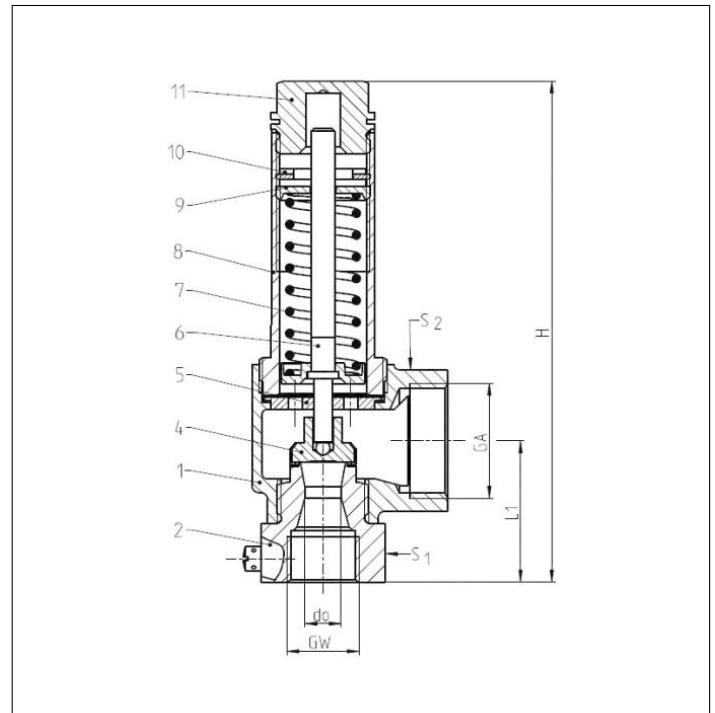


### Applications:

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



Type 06387	Technical data	
Nominal size	<b>GW</b>	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	$\alpha_w$	0.67

Dimensions in mm.

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### Discharge capacities

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

Medium:

**Air** in m<sup>3</sup>/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
	$d_0$ (mm)	10.5
	$A_0$ (mm <sup>2</sup> )	86.6
	Medium	<b>Air</b>
0.2		25
0.5		48
1.0		75
1.5		100
2.0		124
3.0		171
4.0		214
5.0		259
6.0		302
7.0		346
8.0		391
9.0		434
10.0		479
12.0		567
14.0		655
16.0		742
18.0		830
20.0		927
22.0		1015
24.0		1104
25.0		1148
26.0		-
28.0		-
30.0		-
32.0		-
34.0		-
36.0		-
38.0		-
40.0		-