



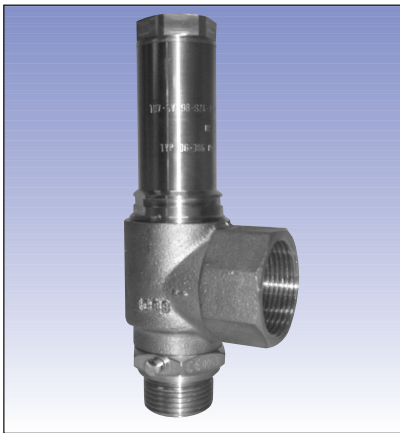
# PRESSURE SYSTEMS PTY LTD

Herose Safety Valves

Part No. 06-388/418

**Part No. 06-388**  
Without lifting device

**Part No. 06-418**  
With lifting device



## Herose Cryogenic Safety Valves

### Full lift safety valves, male x female thread, gun metal type tested

Stainless steel closed bonnet, stainless steel inlet body, graphite filled PTFE disc, male inlet thread, female outlet thread, available cleaned for oxygen service.

### Applications

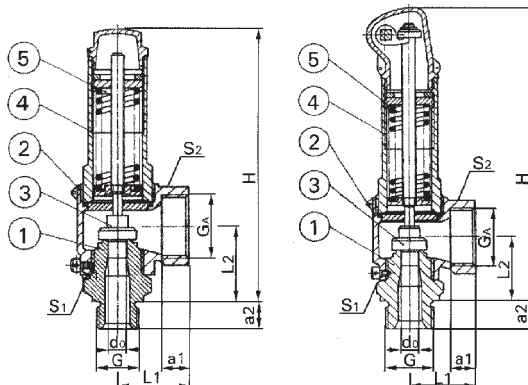
Provided as safety device for protection against excessive pressure in stationary and moveable gas cylinders. Permitted for cryogenic gases such as argon, carbon dioxide, air, oxygen, nitrogen etc. Working temperature -196°C up to +185°C.

### Type test approval identification

TUV.SV.780 D/G Permit Number: 11 D 92

### Materials

Part	Material No.	
1. Inlet	1.4301	X 5 Cr Ni 18-10
2. Outlet	2.1096.01	G-Cu Sn 5 Zn Pb
3. Disc	1.4541	X 6 Cr Ni Ti 18-10
4. Bonnet	1.4305	X 8 Cr Ni S 18-9
5. Spring	1.4571	X 6 Cr Ni Mo Ti 17-12-2



## Dimensions and Weights

Part Number		06-388		06-418	
Nominal Size	G	1/2	3/4	1/2	3/4
Seat diameter	d0	10.5	10.5	10.5	10.5
Dimension code	.X.	1004	1006	1004	1006
Set pressure range	Bar	5-40	5-40	5-40	5-40
Outlet	Ga	G 1	G 1	G 1	G 1
Height	H	140	140	165	165
Length	a1	14	14	14	14
Length	a2	14	16	14	16
Length	L1	36	36	36	36
Length	L2	33	35	33	35
A/F	S1	30	32	30	32
A/F	S2	41	41	41	41
Weight	Kg	0.73	0.75	0.85	0.85

Valves are delivered pre-set, therefore when ordering please confirm set pressure, medium, temperature and any other relevant details.

## Discharge Capacities for Safety Valves

Calculation of mass flow according to AD-Merkblatt A2

Medium:

A = Air at 0°C (32F) and 1013.25 mbar absolute (m<sup>3</sup>/h)

B = Saturated Steam in kg/h.

The capacity stated below is for a fully opened valve

d<sub>0</sub> – Seat diameter

A<sub>0</sub> – Flow area

Set Pressure In bar	Medium	A	A	B	B
	G	1/2	3/4	1/2	3/4
	Do (mm)	10.5	10.5	10.5	10.5
	Ao (mm)	86.6	86.6	86.6	86.6
5.0		229	229	176	176
6.0		267	267	205	205
7.0		305	305	234	234
8.0		344	344	262	262
9.0		382	382	291	291
10.0		421	421	319	319
12.0		497	497	-	-
14.0		574	574	-	-
16.0		651	651	-	-
18.0		728	728	-	-
20.0		804	804	-	-
22.0		881	881	-	-
25.0		996	996	-	-
27.0		1073	1073	-	-
30.0		1188	1188	-	-
32.0		1265	1265	-	-
35.0		1380	1380	-	-
37.0		1457	1457	-	-
40.0		1572	1572	-	-