

## Product Specifications

### Type 06801



Type 06801

## HEROSE Safety Valve Type 06801

**Stainless steel bellow sealed Safety Valves, angle type, PN40**

Type tested TÜV-SV.1105. Steam / Gas / Liquids

Orifice  $d_0 = 12.5$  mm TÜV-SV.1105. Only Steam / Gas

### Specification highlights

- Standard safety valve
- Metal to metal seated
- Bellow sealed
- Cleaned and degreased for oxygen service
- Closed bonnet
- Cap
- Part No. 06801.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. 06801.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. 06801.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. 06801.X.6000:  
Inlet: male thread NPT acc. to ANSI B 1.20.1  
Outlet: female thread NPT acc. to ANSI B 1.20.1

### Certifications & Quality standards

- TÜV-SV.1105.  
Type tested Steam / Gas / Liquids
- ISO 228/1  
Inlet: male thread type G  
Outlet: female thread type G (BSPP)
- ISO 7/1  
Inlet: male thread type R (BSPT)
- ANSI B 1.20.1  
Inlet: male thread NPT  
Outlet: female thread NPT
- Discharge capacity  
Calculation of flow rate acc. to AD2000-Merkblatt /  
DIN EN ISO 4126-1



- 2014/68/EU (PED)  
Standard marking acc. to Pressure  
Equipment Directive.

### Applications & branches

#Pressure Vessels	#Gas Cylinders	#Food
#Medical	#Compressed Air	#Steam
#Chemical	#General Industry	#Pharma

### Working temperature

-270°C / -454°F (3K) up to +225°C / +437°F (498K)

### Max. pressure | 06801

Maximum allowed back pressure: 15% of set pressure,  
pressure-temperature must be observed

### Options

Maximum allowed back pressure: 15% of set pressure,  
pressure-temperature must be observed

- Female inlet
- Lever

# Product Specifications

## Type 06801



Type 06801  
with bellow seal

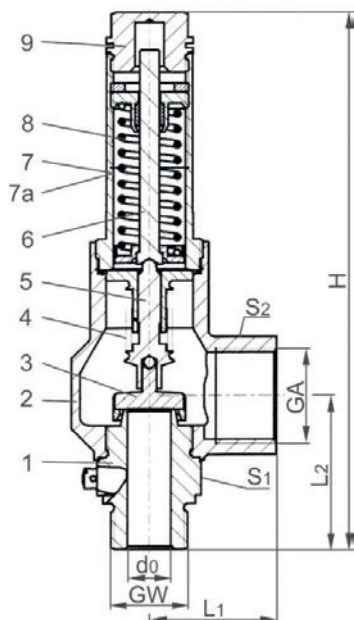
### Materials

Provided as safety device for protection against excessive pressure in stationary and moveable gas cylinders and pressure vessels. Approved for non-inflammable and inflammable vapours, gases and fluids.

### Essentials

- ! For nominal size GW 3/4,  $d_0 = 15.0$  mm the back pressure reduces the blow off performance of the safety valve (see diagram 06801-3/4).
- ! Valves are delivered at a set pressure, therefore when ordering please confirm set pressure.

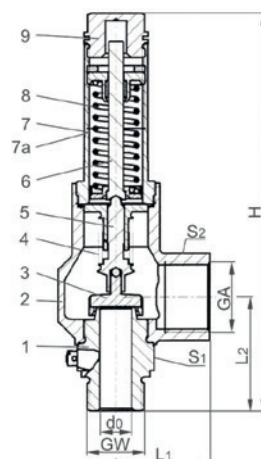
Type 06801



	Materials	DIN EN	ASME/ASTM
1	Inlet body	1.4571	A 276 Grade 316Ti
2	Outlet body	1.4308	A 351 CF8
3	Disc	1.4541	A 276 Grade 32
4	Bellow	1.4571	A 276 Grade 316Ti
5	Bellow stem	1.4571	A 276 Grade 316Ti
6	Stem	CW453K	B 103 UNS C52100
7	Bonnet	1.4301	A 276 Grade 304
8	Spring	1.4571	A 276 Grade 316Ti
9	Cap	1.4301	A 276 Grade 304

# Product Specifications

## Type 06801



### How to compose your order code?

Select from the table below: *Type number* ① + . (dot) + *Size number* ② + . (dot) + *Sealing Connection Type* ③  
 (For example: 06801.1204.0000)

\*HEROSE made a preselection in material use, based on the Orifice and Nominal size of the inlet and outlet of the safety valves.

Type 06801	Type number ①	Size number ②			
Dimension code	06801	1204	1506	2010	2310
Connection Type ③	Connection	Set pressure range (bar)			
Type 0000	male G - female G	3-25	3-25	3-25	3-25
Type 2000	male R - female G	3-25	3-25	3-25	3-25
Type 5000	male ANSI - female G	3-25	3-25	3-25	3-25
Type 6000	male ANSI - female ANSI	3-25	3-25	3-25	3-25
<b>Technical data</b>					
Orifice	d <sub>0</sub> in mm	12.5	15	20	23
Nominal size (inlet)	GW	1/2	3/4	1	1
Outlet	GA	1/2	3/4	1	1
Height	H in mm	186	190	205	255
Length	L <sub>1</sub> in mm	44	44	51	56
Length	L <sub>2</sub> in mm	52	54	63	65
Wrench size across flats	S <sub>1</sub> in mm	36	36	41	50
Wrench size across flats	S <sub>2</sub> in mm	41	41	50	55
Weight	ca. kg	1.03	1.05	1.70	2.45
Coeff. of discharge fluids	aw	-	0.39	0.45	0.48
Coeff. of discharge vapours / gases	aw	0.60	0.50	0.60	0.66

# Product Specifications

## Type 06801

### Discharge capacities

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

The capacity indicated below is for a fully opened valve.

### Medium

Saturated steam in kg/h

Air in m<sup>3</sup>/h at 0°C and 1013,25 mbar

Water in kg/h at 20°C

GW	1/2	3/4	1	1	1/2	3/4	1	1	3/4	1	1	
d <sub>0</sub> in mm	12.5	15.0	20.0	23.0	12.5	15.0	20.0	23.0	15.0	20.0	23.0	
A <sub>0</sub> in mm <sup>2</sup>	122.7	176.7	314.2	415.5	122.7	176.7	314.2	415.5	176.7	314.2	415.5	
Set pressure in bar (g)												
3.0	216	260	555	807	169	203	433	630	5557	13075	18445	
4.0	272	326	696	1013	211	253	540	786	6417	15098	21298	
5.0	328	393	839	1221	252	303	647	942	7174	16880	23812	
6.0	383	460	981	1428	294	353	753	1096	7859	18491	26085	
7.0	438	526	1123	1634	335	402	859	1249	8489	19973	28175	
8.0	495	594	1269	1846	376	452	964	1403	9075	21352	30120	
9.0	551	661	1411	2053	417	501	1069	1555	9625	22647	31947	
10.0	608	729	1556	2265	458	550	1174	1708	10146	23872	33676	
12.0	719	863	1842	2679	540	648	1384	2013	11114	26150	36890	
14.0	830	997	2127	3094	622	746	1592	2317	12005	28246	39846	
16.0	942	1130	2412	3509	703	844	1802	2621	12834	30196	42597	
18.0	1053	1264	2697	3924	785	942	2010	2924	13612	32028	45181	
20.0	1176	1411	3011	4380	866	1040	2219	3228	14348	33760	47625	
22.0	1288	1546	3298	4799	948	1137	2427	3531	15049	35408	49949	
25.0	1457	1748	3730	5427	1070	1284	2739	3985	16042	37745	53246	

# Product Specifications

## Type 06801

Diagram 06801-3/4

