



SI 2501 SPRING LOADED SAFETY VALVE

12.40

1. Application

The safety valve must prevent impermissible overpressure. Installation in a system with water and other neutral liquids, air, steam and other neutral, compressible materials.

Working temperature:

From -10°C- to 250°C.

Working pressure:

In gas-tight design, for flammable or toxic materials, max. 1.0 MPa or 200°C.

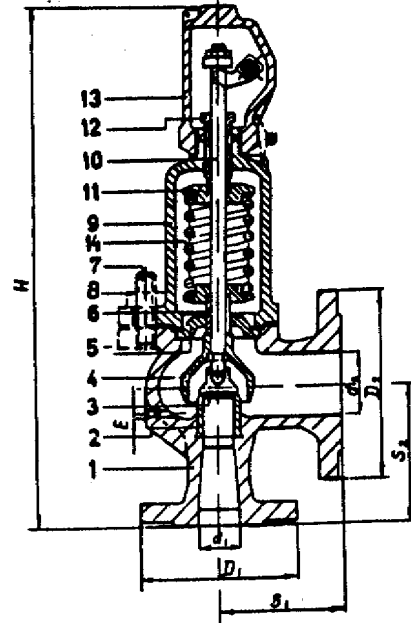
For steam boilers, it can only be used up to 1.0 MPa.

In the case of using the safety valve for other, not mentioned material, it is necessary to ask about the possibility of installation.

2. Installation and operation

Housing design ensuring favorable flow, induction-hardened, wear-proof and corrosion-resistant sealing surface at the valve seat and valve disc. Stainless spindle guide at the valve stem, spring with protection against rusting, design without non-ferrous metal parts. Exact pressure, full valve disc lift within 10% pressure increase. Blow-off without swinging, tight closing within 10% pressure drop for compressible material and within 20% pressure drop for liquids and below the pressure.

PN 16



Materials:		
Description		Material quality
1.	Valve body	GG-25
2.	Valve seat	X22CrNi17
3.	Valve disc	X22CrNi17
4.	Bell	GTS-35
5.	Guide disc ¹	X22CrNi17
6.	Thrust bushing	X22CrNi17
7.	Cap screw	St50
8.	Screw nut	St50
9.	Spring body	GG-25
10.	Valve stem	X20Cr13
11.	Spring disc	9SMn28K
12.	Tension screw	X20Cr13
13.	Ventilation cap ²	GTS-35
14.	Spring ³	50CrV4

1 Guide Disc above DN 80 G-X6CrNi189
 2 Ventilation cap above DN 150 flanged
 3 Spring ϕ under 6 mm standard spring steel
 max. temperature 250°C

Technical parameters:

Max. run-off pressure according to the table.
 Flanges for PN 10/16.

Normal spring adjustment pressure ranges in MPa:

0,045 - 0,068
0,066 - 0,1
0,095 - 0,14
0,13 - 0,19
0,18 - 0,26
0,25 - 0,36
0,35 - 0,5
0,48 - 0,63
0,6 - 0,8
0,75 - 1,0
0,95 - 1,25
1,2 - 1,6

$d_1 \times d_2$	d_0	F_0	D_1	D_2	S_1	S_2	H	max. MPa	kg
20x20	12	113	105	105	95	95	335	1,6	6
25x25	16	201	115	115	100	100	350	1,6	8
32x32	20	314	140	140	105	105	390	1,6	10
40x40	25	491	150	150	115	115	420	1,6	12
50x50	32	804	165	165	125	125	495	1,6	20
65x65	40	1257	185	185	145	145	550	1,6	25
80x80	50	1964	200	200	155	155	655	1,6	36
100x100	63	3117	220	220	175	175	705	1,6	47
125x125	77	4657	250	250	200	200	810	1,6	74
150x150	93	6793	285	285	225	225	850	1,6	100
200x200	110	9563	340	340	225	225	930	1,6	140

M/V-IfG

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