



SI 6301 SPRING LOADED SAFETY VALVE

12.41

PN 16

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:

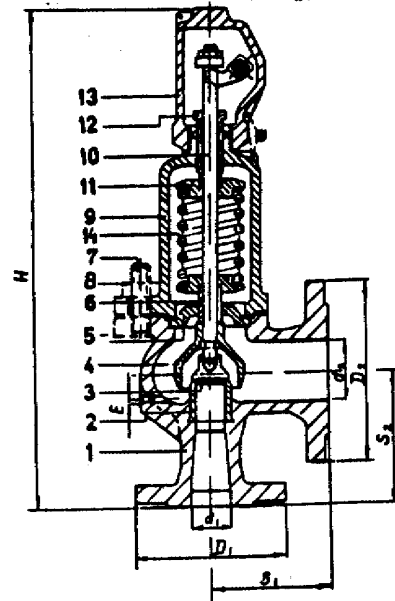
In gas-tight design, for flammable or toxic materials, max. 1.0 MPa or 200°C.

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.



Materials:		
Description	Material quality	
1.	Valve body	GS-C25
2.	Valve seat	X22CrNi17
3.	Valve disc	X22CrNi17
4.	Bell	GTS-35
5.	Guide disc1	X22CrNi17
6.	Thrust bushing	X22CrNi17
7.	Cap screw	Ck35
8.	Screw nut	Ck35
9.	Spring body	GS-C25
10.	Stem	X20Cr13
11.	Spring disc	9SMn28K
12.	Tension screw	X20Cr13
13.	Vent cap	GTS-35
14.	Spring	50CrV4

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 x d ₂	d ₀	F ₀ (mm ²)	D ₁	D ₂	S ₁	S ₂	H	max. MPa	kg
20x32	16	201	105	140	85	95	345	1,6	7,5
25x40	20	314	115	150	95	105	395	1,6	9
32x50	25	491	140	165	100	110	420	1,6	13
40x65	32	804	150	185	115	130	495	1,6	19
50x80	40	1257	165	200	125	145	540	1,6	25
65x100	50	1964	185	220	140	150	660	1,6	37
80x125	63	3117	200	250	155	170	710	1,6	52
100x150	77	4657	220	285	175	180	810	1,6	77
125x200	93	6793	250	340	215	220	860	1,25	90
150x250	110	9563	285	395	225	245	1000	1,0	140

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