

**APPLICATION AND KINDS OF EXECUTION**

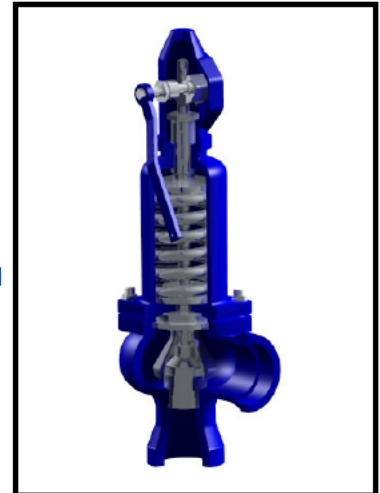
Si 2502.01.11A - for water, air, steam and other neutral liquids, gases and vapours.  
Working temperature: from -40°C up to +120°C.  
Applications for temperature under -10°C – valid are restrictions according to AD-2000 Merkblatt W10.

Application of this type valves is recommended, if demand:

- quiet work of valve,
- raised tightness of closure,
- protection of disc sealing surface in front of stone settling (if the factor is industrial and drinking water) as well as against any small mechanical dirt.

Valves are produced in the following executions:

Si 2502.01.11A - in execution P – normal, G – gas-tight; WM – for marine conditions

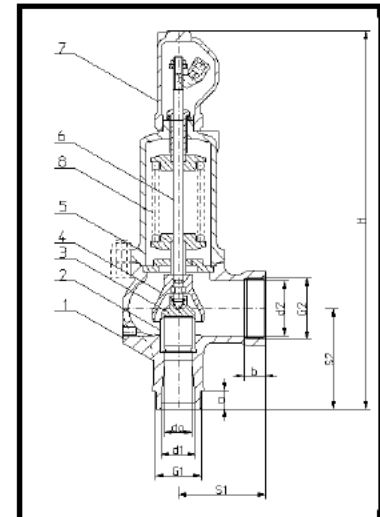


**LIST OF APPLIED MATERIALS**

Position No	Name of detail	Material
1	Body	GP240GH
2	Seat	X39CrMo17-1
3	Disc	X6CrNiTi18-10/EPDM or /NBR
4	Bell	EN-GJS-400-15
5	Bonnet	EN-GJS-400-15 / GP240GH
6	Spindle <sup>1)</sup>	X20Cr13
7	Lifting Cap	EN-GJS-400-15
8	Spring <sup>2)</sup>	51CrV4

<sup>1)</sup> For marine execution (WM) stem made of: X17CrNi16-2

<sup>2)</sup> Springs with wire diameter up to  $\Phi$  6, of patent wire BI.



**OVERALL DIMENSIONS**

Size DN	Seat		Inlet flange PN 40	Outlet flange PN 10	Length of construction		Height of construction H	Opening pressure		Mass ca. kg
	Passage	Section			G <sub>1</sub> external	G <sub>2</sub> internal		S <sub>1</sub>	S <sub>2</sub>	
d <sub>1</sub> x d <sub>2</sub>	d <sub>o</sub> mm	A mm <sup>2</sup>	cal		mm		bar			
20 x 20	12	113	3/4	3/4	95	95	335	1,0	40	6,5
25 x 25	16	201	1	1	100	100	350	1,0	40	8,0
32 x 32	20	314	1 1/4	1 1/4	105	105	390	1,0	40	11,0
40 x 40	25	491	2	1 1/2	115	115	420	1,0	40	12,5
50 x 50	32	804	2 1/4	2	125	125	495	1,0	40	20,0

**TECHNICAL DATA**

**Discharge coefficients**

Type of valve	DN	For vapours and gases $\alpha$		For liquids $\alpha_c$	
		b <sub>1</sub> = 10%	b <sub>1</sub> = 10%	b <sub>1</sub> = 25%	
				p < 1,2 bar	p ≥ 1,2 bar
Si 2502.01.11A	20 x 20 to 50 x 50	0,25	0,006	0,065	0,25

## Pressure ranges.

DN	Pressure ranges [bar]
20 x 20	1,0...1,4; 1,3...1,9; 1,8...2,6; 2,5...3,6; 3,5...5,0; 4,8...6,3; 6,0...8,0; 7,5...10; 9,5...12,5; 12...16; 15...20; 18...25; 23...32; 30...40;
25 x 25	1,0...1,4; 1,3...1,9; 1,8...2,6; 2,5...3,6; 3,5...5,0; 4,8...6,3; 6,0...8,0; 7,5...10; 9,5...12,5; 12...16; 15...20; 18...25; 23...32; 30...40;
32 x 32	1,0...1,4; 1,3...1,9; 1,8...2,6; 2,5...3,6; 3,5...5,0; 4,8...6,3; 6,0...8,0; 7,5...10; 9,5...12,5; 12...16; 15...20; 18...25; 23...32; 30...40;
40 x 40	1,0...1,4; 1,3...1,9; 1,8...2,6; 2,5...3,6; 3,5...5,0; 4,8...6,3; 6,0...8,0; 7,5...10; 9,5...12,5; 12...16; 15...20; 18...25; 23...32; 30...40;
50 x 50	1,0...1,4; 1,3...1,9; 1,8...2,6; 2,5...3,6; 3,5...5,0; 4,8...6,3; 6,0...8,0; 7,5...10; 9,5...12,5; 12...16; 15...20; 18...25; 23...32; 30...40;

If the required opening pressure appears in two neighbouring pressure ranges, one should to apply valve with spring of higher pressure range.

## NOTES!

1. If condensate accumulates, in the lowest point of blow-out installation should be foreseen dehydration. The dehydration in valve's body is made only on special request of the client. In case of liquids, the blow-out installation should be inclined
2. The valve should be assembled in vertical position.

## ORDERING

The order should specify: name and catalogue number of the valve, DN, opening pressure or range of pressures, working temperature and kind of medium. **Because of variety of objective norms, it is advisable to give the norms according to which should be executed the connected flanges of valve.**

Onto client's wish we can deliver counter flanges together with connection elements and gaskets

For special order are produced valves with inductive proximity detector which signals moment of operation.

### Basic data of detector:

Working range [ mm ]	3 (M8); 6 (M12); 10 (M18)
Supply tension [ V ]	10 ÷ 30 DC
Protection grade	IP67 (M8); IP68 (M12 and M18)
Working temperature	-25 ÷ +70°C
Standard length of cable [mm]	2000

The other executions of detector for special order after co-ordination with manufacturer.

Onto client's wish are used detectors working in range of temperature: -25 ÷ +230°C.

