Connection : Flange PN 16

APPLICATION AND KINDS OF EXECUTION

 for air, steam and other neutral gases and vapours.
Working temperature: from -10°C up to + 300°C1.
 valves with reduction of disc leap to the value 0,12 of seat diameter "do", applied to water and other neutral liquids.
Working temperature: from -10°C up to + 300°C 1.

Valves are produced in the following executions:

Si 6301	- in execution P - normal; G - gas-tight; WM - for marine conditions
Si 6301C	 in execution P – normal; G – gas-tight

LIST OF APPLIED MATERIALS

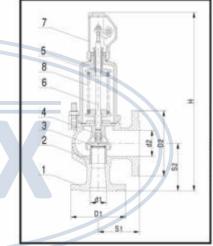
Position No	Name of detail	Material
1	Body	EN-GJL-250
2	Seat	X39CrMo17-1
3	Disc	X39CrMo17-1
4	Bell	EN-GJS-400-15
5	Cap	EN-GJL-250
6	Stem	X20Cr13 1)
7	Hood	EN-GJS-400-15
8	Spring	51CrV4 2)

1) For marine execution (WM) stem made of: X17CrNi16-2

²⁾ Springs with wire diameter up to Φ 6 of patent wire BI, Max. working temperature is 250°C.



VME



OVERALL DIMENSIONS

Size DN	Seat		Inlet flange	Outlet flange	Length of construction		Height of construction	Dehydration	Opening pressure		Mass ca.
	Passage	Section	PN 16	6 PN 10							
d ₁ x d ₂	de	A	Dt	Dg	Si	S ₂	н	E	min	max.	A
01 X 02	mm	mm			mm		202	cal	bar		~
20 x 32	16	201	105	140	85	95	345	G%	0,45	16	7,5
25 x 40	20	314	115	150	95	105	395	G¼	0,45	16	9,0
32 x 50	25	491	140	165	100	110	420	G1/4	0,45	16	13,0
40 x 65	32	804	150	185	115	130	495	G1/4	0,45	16	19,0
50 x 80	40	1257	165	200	125	145	550	G¼	0,45	16	25,0
65 x 100	50	1964	185	220	140	150	660	G%	0,45	16	37,0
80 x 125	63	3117	200	250	155	170	710	G%	0,45	16	52,0
100 x 150	77	4657	220	285	175	180	810	G%	0,45	16	77.0
125 x 200	93	6793	250	340	215	220	860	G%	0,45	12,5	90,0
150 x 250	110	9503	285	395	225	245	1000	G%	0.45	10	140.0

¹ For steam boilers valid are restrictions according to WUDT-UC-WO-M - it is 10 bar and 200°C.

Specification is subject to change without prior notice



TECHNICAL DATA

Discharge coefficients

Type of valve	DN	Valves in execution						
		with reduction of leap (of leap (Si 630	6301C)		
		For vapours and gases α		For liquids α_e			For vapours and gases α	
1999, and 1999, and 19	226623	$b_1 = 0.1 bar$ (p $\leq 1 bar$) or	b ₁ = 10%	b ₁ = 10%		- av sasson		
		b₁= 10% 1 < p ≤ 1,4 bar	p > 1,4 bar	p≤6 bar	p > 6 bar	b ₁ = 25%	b1=10%	
Si 6301 Si 6301C	20 x 32 to 150 x 250	0,72	0,78	0,01	0,28	0,28	0,36	

Pressure ranges.

DN	Pressure ranges [bar]	
20 x 32	0.450,68; 0,661; 0.951,4; 1,31,9; 1,82,6; 2,53,6; 3,55; 4,86,3; 68; 7,510; 9,512,5; 1216	
25 x 40	0,450,68; 0,661; 0,951,4; 1,31,9; 1,82,6; 2,53,6; 3,55; 4,86,3; 68; 7,510; 9,512,5; 1216	
32 x 50	0,450,68; 0,661; 0,951,4; 1,31,9; 1,82,6; 2,53,6; 3,55; 4,86,3; 68; 7,510; 9,512,5; 1216	
40 x 65	0.450.68; 0.661; 0.951,4; 1,31,9; 1,82,6; 2,53,6; 3,55; 4,86,3; 68; 7,510; 9,512,5; 1216	
50 x 80	0.450.68; 0.661; 0.951,4; 1.31,9; 1.82,6; 2.53,6; 3.55; 4.86,3; 68; 7.510; 9.512,5; 1216	
65 x 100	0.450.68: 0.661; 0.951,4; 1.31,9; 1.82,6; 2.53,6; 3.55; 4.86,3; 68; 7.510; 9.512,5; 1216	
80 x 125	0.450.68; 0.661; 0.951.4; 1.31.9; 1.82.6; 2.53.6; 3.55; 4.86.3; 68; 7.510; 9.512.5; 1216	
100 x 150	0.450.68; 0.661; 0.951,4; 1.31,9; 1.82,6; 2.53,6; 3.55; 4.86,3; 68; 7.510; 9.512,5; 1216	
125 x 200	0.450.68: 0.661; 0.951.4; 1.31.9; 1.82.6; 2.53.6; 3.55; 4.86.3; 68; 7.510; 9.512.5;	
150 x 250	0.450.68; 0.661; 0.951,4; 1.31,9; 1.82,6; 2.53,6; 3.55; 4.86,3; 68; 7.510;	

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

NOTES!

 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
	or special order after co-ordination with manufacturer.

