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

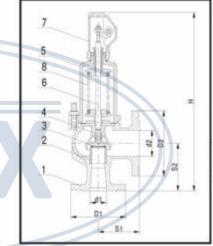
| Position No | Name of detail | Material |
|----------------|-------------------|---------------|
| 1 | Body | EN-GJL-250 |
| 2 | Seat | X39CrMo17-1 |
| 3 | Disc | X39CrMo17-1 |
| 4 | Bell | EN-GJS-400-15 |
| 5 | Cap | EN-GJL-250 |
| 6 | Stem | X20Cr13 1) |
| 7 | Hood | EN-GJS-400-15 |
| 8 | Spring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

