

**Type K89**

DN 15  
PN 63 - 630

**Relief Valve**  
**Membrane Rupture Insurance Devices**  
Butt-Welded

**Data Sheet**

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## Content

Application .....	3
Technical description .....	3
Accessories.....	3
Connection.....	3
Operating and maintenance .....	3
Operating data .....	3
Operation .....	3
Directives and standards .....	3
The increase of the pressure in central cavity of the valve , depending on volume fraction of water and temperature changes .	4
Materials of main parts .....	4
Advantages of construction.....	5

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### Application

- Protection of the central cavity of the valve against overpressure
- **Fluids**  
Water, steam and non-aggressive working fluids
- **Industry**  
Power plants, chemical and industry appliances

### Technical description

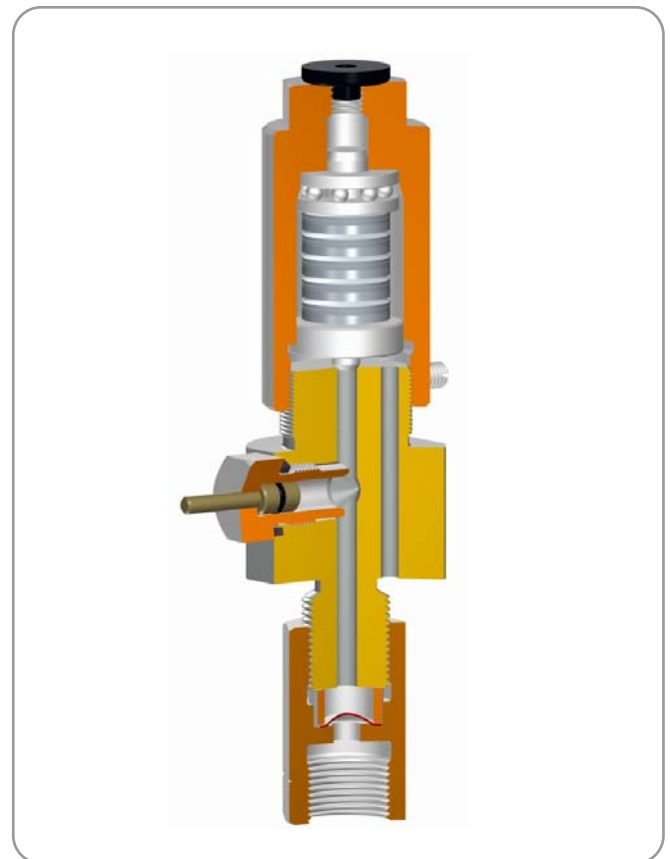
- Body made of stainless steel
- Protected by bursting disc
- Blow off by the part with disc springs
- Membrane rupture indicator

### Accessories

- Condensing pipe
- Shut-off valve with the locking device
- Coupling components with seal

### Connection

- Butt-welded according to ČSN EN 12627, ČSN 131075, DIN 2559
- Other upon request



### Operating and maintenance

- AK 9908.89 – Technical description and instructions to operating, maintenance and repair of the relief valve

### Operating data

- Seals up to 1,1 operating pressure  $P_p$ , blows off at 1,3  $P_p$

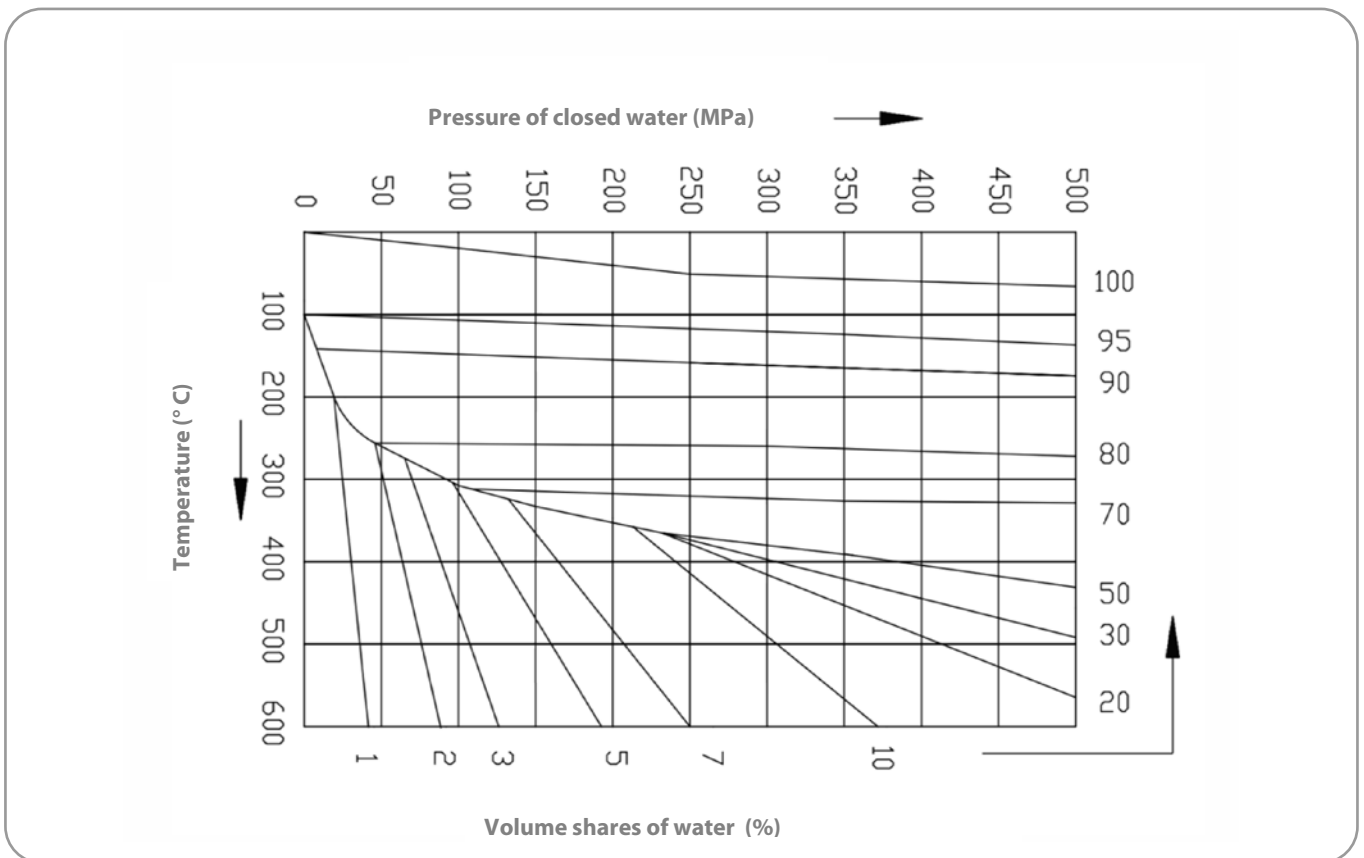
### Operation

- Self-acting

### Directives and standards

Directive / standard	Name
97/23/ES	Directive of European Parliament
ČSN EN 19	Industrial valves – marking of the metal valves
ČSN EN 1503-1	Valves – Materials for bodies, covers with holes and covers – Part 1
ČSN EN 10204	Types of documents of controls
ČSN EN 12266-1	Industrial valves – Testing of valves – Part 1: Pressure testing
ČSN EN 12516-2	Industrial valves – Strength design of the casing – Part 2: The calculation method for the steel casing of the valve
ČSN EN ISO 4126-2	Safety device with a bursting disc
DIN 2093	Disc mats

**The increase of the pressure in central cavity of the valve , depending on volume fraction of water and temperature changes**

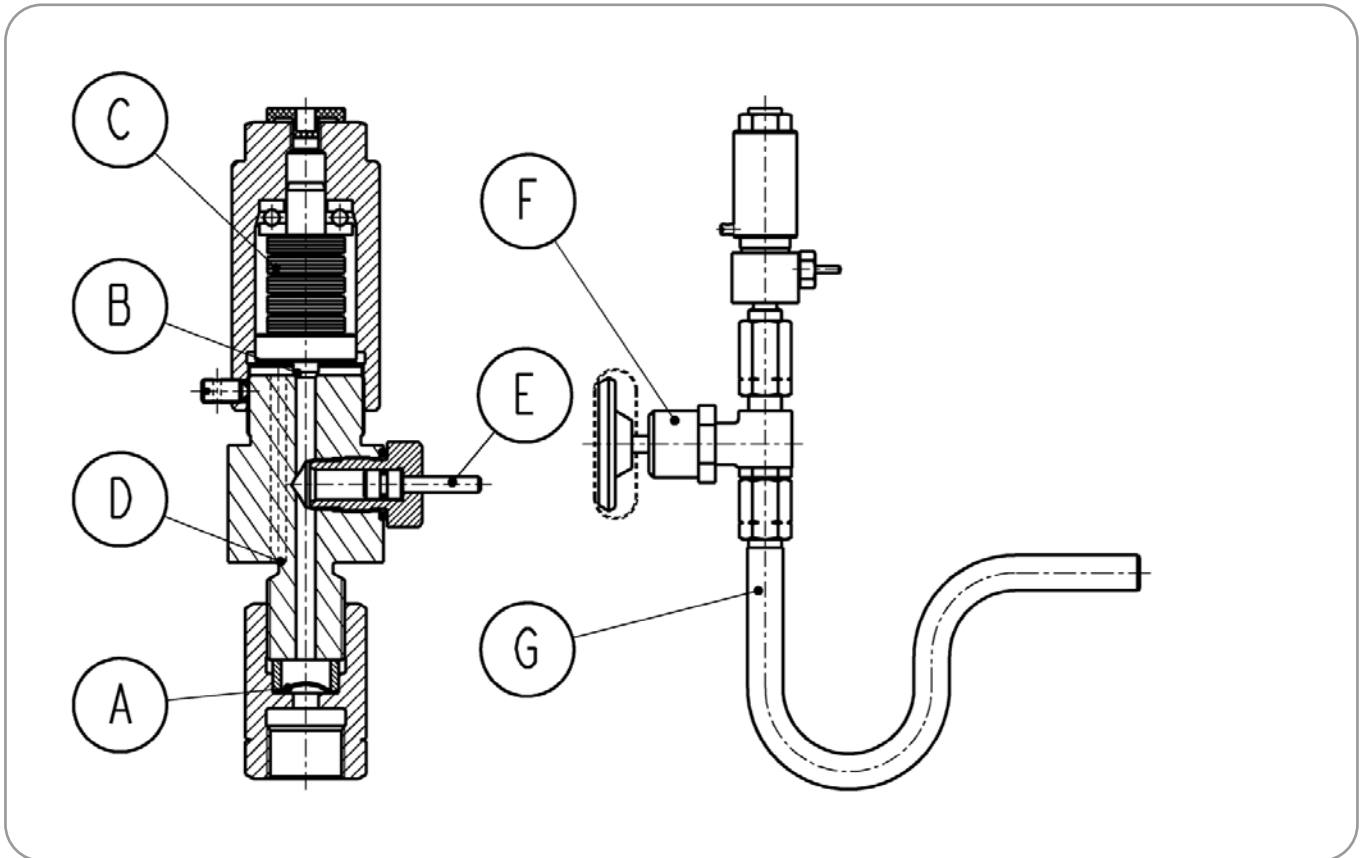


**Materials of main parts**

Name	Material			
Body of the secured valve	11416, P250GH	15128	X10CrMoVNb9-1	08X18H10T
	13CrMo4-5	10CrMo910		X6CrNiTi18-10
	15NiCuMoNb5-6-4	11CrMo9-10		
	16Mo3 (15Mo3)	14MoV6-3		
Condensing loop	16Mo3	11CrMo9-10	X10CrMoVNb9-1	08X18H10T
				X6CrNiTi18-10
Body K89	08X18H10T, X6CrNiTi18-10			
Shut-off valve	AN 137517 – A – PN 630			
Sealing	424005			
Bursting disc	NI			
Disc spring	DIN 2093			
Sealing ring	DIN 7603			
Indicator	08X18H10T, X6CrNiTi18-10			
Sealing ring	17027			
„O” ring	Rubber			

Note: Spare parts – bursting disc – 2 pcs. with delivery

**Advantages of construction**



<b>A</b>	<b>Bursting device:</b> Reliable valve protection against overpressure
<b>B</b>	<b>Closing seat of the blow off part:</b> Blow-off and closing of the flow after bursting of the bursting disc
<b>C</b>	<b>Disc springs:</b> Ensure closing
<b>D</b>	<b>Drain:</b> Safe removal of the working fluid
<b>E</b>	<b>Bursting signalization:</b> Information for operating staff and control centre
<b>F</b>	<b>Globe valve with locking device:</b> Prevents manipulation during operation, closes during changing of bursting disc
<b>G</b>	<b>Condensing pipe:</b> Lowers temperature of medium, allows position outside the isolation of the valve

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