

Pressure Control Valves UV 6.2

Back Pressure Valves

Surge Relief Valve (Peak Load)



Technical Data

Connection DN	100 - 400
Nominal Pressure PN	16 - 100
Set Pressure	up to 100 bar
K _{vs} -Value	190 - 3100 m ³ /h
C _v -Value	220 - 3565 US gal/min
Temperature	130 °C
Medium	liquids

Description

The pressure surge relief valve UV 6.2 is used to relieve pipeline systems of pressure surges by providing a secondary outlet.

The valve is controlled by its own medium and requires no energy input to operate. The UV 6.2 is available in the pilot operated or the spring-loaded version. Pilot operation allows variable response pressures during operation

The principal components of the valve are the body including piston guide which houses the piston/valve cone/spring assembly, and the valve seat which is bolted to the inlet side of the valve body by means of a flange. Piston guide and valve cone have threaded bores which can take a blanking plug, nozzle or bypass valve depending on the application.

In application "A" the valve cone is closed by a blanking plug, whilst the piston guide is open. In this case the spring chamber is subject to the outlet pressure. During normal operation the valve is kept closed by the spring pressure. As soon as the inlet pressure exceeds the operating pressure determined by the spring, the valve cone opens and allows the fluid to flow to the outlet side. The valve closes again when the inlet pressure falls below the operating pressure.

In application "B" the piston guide is closed by a plug and a nozzle is mounted in the cone. The result is that the inlet pressure acts on the back of the cone and reinforces the spring pressure.
In application "C" the piston guide is fitted with a bypass valve which allows the fluid to drain to the outlet side as the valve cone opens.

The relief or operating pressure is set at the factory. It can be altered by adding/replacing the spring shims.
The pressure has always been indicated as overpressure.
We reserve the right to alter technical specifications without notice.

These valves are no shut-off elements ensuring a tight closing of the valve. In accordance with the VDI/VDE guideline 2174 a leakage rate of 0.05 percent of the constant volume flow is permitted for the valve in closed position.

Special designs on request.
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Materials		
Temperature	80°C	130°C
Body	steel-/CrNiMo-steel welded	
Internals	CrNiMo-steel	CrNiMo-steel
Valve Seal	NBR	EPDM
Piston Seal	PTFE	PTFE
Piston Guide	PTFE	PTFE
Pressure Spring	CrNi-steel	CrNi-steel

Dimensions [mm]						
size	nominal diameter DN					
	100	150	200	250	300	400
A	on request					
ø B	on request					
C	on request					

Weights [kg]						
nominal pressure	nominal diameter DN					
	100	150	200	250	300	400
PN 16	on request					
PN 25	on request					

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Dimensional Drawing

