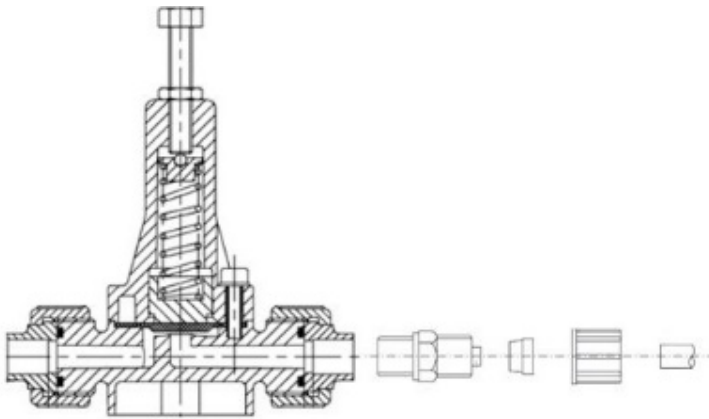


TECHNICAL CHARACTERISTICS



- Pressure setting range 0.5 to 10 bar
- Diaphragm controlled pressure relief valve
- Simple design, reliable function
- Particularly suitable for oscillating pumps
- Constant, frictionless and low vibration control behavior
- High reproducibility of the set pressure
- Simple pressure setting possible at any time, even during operation.
- Silicone free
- Pressure presetting
- Sealed
- NSF certification

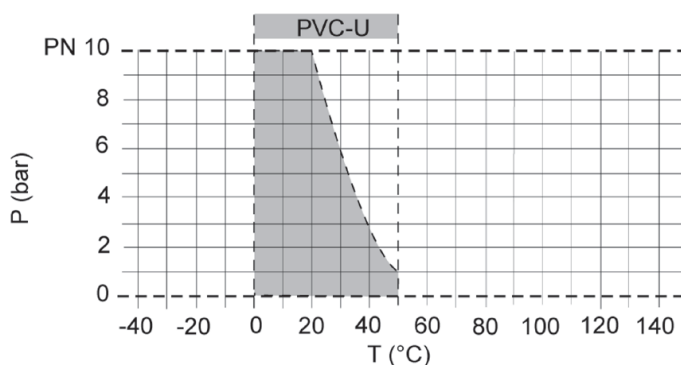
APPLICATION

The pressure relief valve which is directly controlled by the medium, is used in technical processing plants for keeping preset working pressures constant on the primary side.

The pressure relief valve can also be used as an overflow valve to prevent pressure peaks. In this case, the pressure relief valve is fitted in a bypass line.

Pressure relief valves are not safety valves in the sense of the pressure vessel directive.

Pressure/temperature diagram



Description:

P Operating pressure

T Temperature

The pressure/temperature limits of the materials are valid for the stated nominal pressures and a service life of 25 years. These values are guide values for flow medium types which do not negatively impact the physical and chemical characteristics of the valve material.

It may be necessary to take diminution factors into consideration.

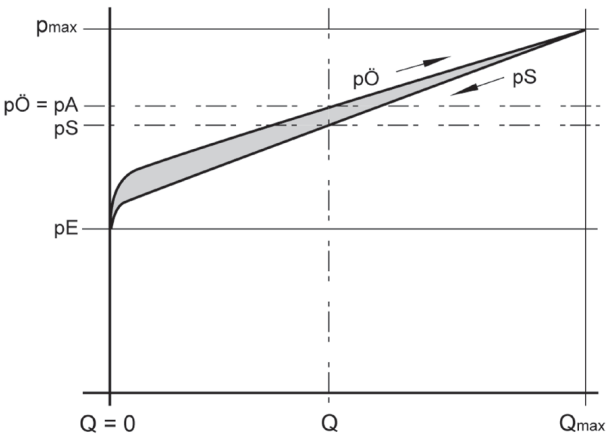
The operating life of the wear parts depends on the conditions of use

ACCESSORIES

PVC BACKPRESSURE VALVE - Solenoid Pumps

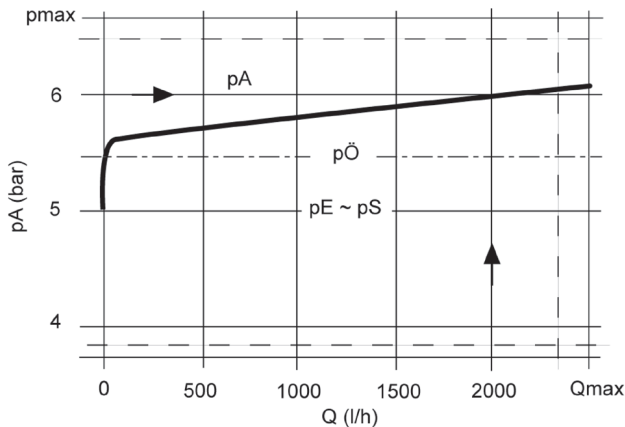


Operating behavior



	Description
P_{max}	Maximum Pressure
p_A	Working pressure
p_E	Set pressure
$p_A - p_E$	Flow-dependent pressure increase
p_O	Opening pressure
p_S	Closing pressure
$p_O - p_S$	Hysteresis
Q	Q Flow
Q_{max}	Maximum flow

Characteristic curve, design example



	Description
p_{max}	Maximum pressure
p_A	Working pressure
p_E	Set pressure
p_O	Opening pressure
p_S	Closing pressure
Q	Flow
Q_{max}	Maximum flow

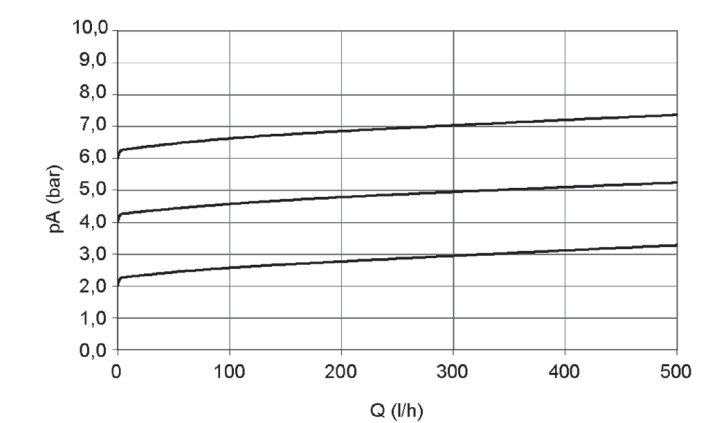
- The valve is set tight at 5 bar.
- A flow of approx. 2000 l/h is reached at a pressure increase of 1 bar.
- According to the curve, this results in the following values:
- Set pressure p_E : 5 bar
 - working pressure p_A : 6 bar
 - opening pressure p_O : 5.5 bar
 - closing pressure p_S : 5 bar

ACCESSORIES

PVC BACKPRESSURE VALVE - Solenoid Pumps

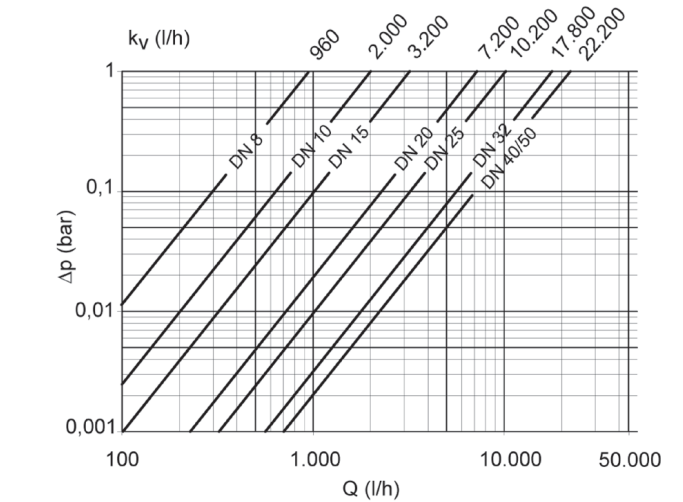


Characteristic curve pressure setting range
DN8



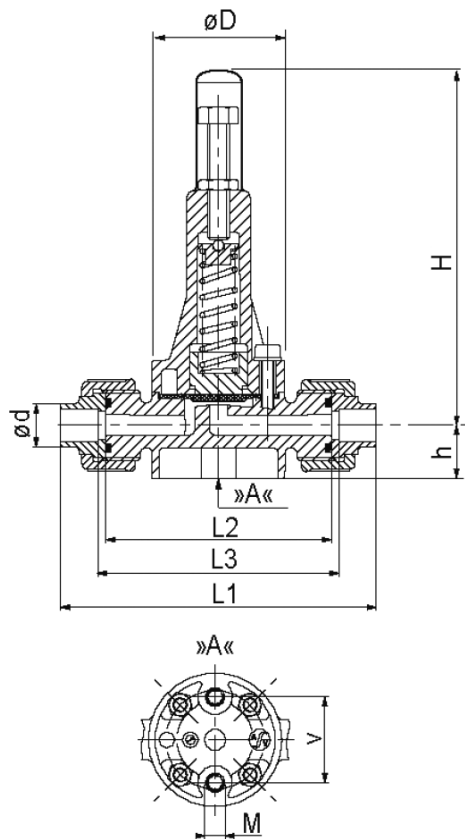
	Description
pA	Working pressure
Q	Flow

Pressure loss curve
(standard values for H2O, 20 °C)



	Description
Δp	Pressure loss
Q	Flow

Connection socket



d [mm]	12
DN [mm]	8
DN [inch]	1/4
H	134
H	20
L ₁	119
L ₂	85
L ₃	91
M	M5
N	50
v	32