

Overflow valves

Permanently set and sealed for lower pressure

Benefits:

- compact design,
- in closed, gas-tight version,
- optimized for performance with high Kv values
- adjustable from outside without disassembly and without special tools
- large pressure range with coverable valve,
- used for gaseous and liquid media

Application:

Overflow valves are used to protect pumps against overloading in closed circuits. If the adjustable reaction pressure is exceeded, the valve is opened proportionally to increase the pressure, thereby gradually reducing the power. The overflow valve is designed to be open for a long time. In principle, it must be assumed that the pressure in the system can become greater than the reaction pressure set on the overflow valve.

Safety valves react very differently. They open when the reaction pressure is exceeded at max. 10% almost immediately draining the entire pressure. When the reaction pressure falls below 10-20%, the valve is closed again.

Performance:

The overflow valves can be set under operating conditions with a hexagon socket wrench, without the medium leaving the environment. They are not compensated for counter-pressure.

Materials

Housing: Copper / brass, spring: Stainless steel, seal: FKM (12 to 20 bar: PTFE)

Temperature range:

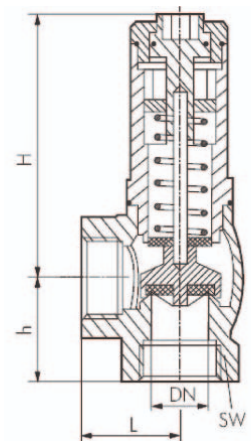
-20 °C to + 200 °C

Media:

Compressed air and other aggressive, non-flammable gases, water and other neutral, non-toxic liquids, mineral oils

Optional:

Housing made of 1.4401 / 1.4408 -ES stainless steel



Article code	Thread	Reaction pressure	kv value	Orifice (DN)
OV3820B	G 3/8"	12 - 20 Bar	1.7 - 0.2 m3/h	10 mm
OV1220B	G 1/2"	12 - 20 Bar	0.4 - 0.6 m3/h	15 mm
OV1225B	G 1/2"	0.5 - 2.5 Bar	4.3 - 5.2 m3/h	15 mm
OV3412B	G 3/4"	2 - 12 Bar	3.7 - 9.3 m3/h	20 mm
OV108B	G 1"	2 - 8 Bar	8.5 - 11.3 m3/h	25 mm