

Pressure relief cartridge

- ◆ direct operated
- ◆ $p_{max} = 350$ bar
- ◆ $p_{Nmax} = 350$ bar
- ◆ $Q_{max} = 30$ l/min

DESCRIPTION

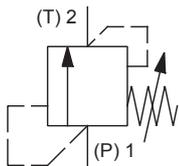
Direct operated poppet type pressure relief valve in screw-in cartridge construction for cavity according to Wandfluh standard. The valve is closed in the neutral position. If the pressure in P (1) exceeds the adjusted value of the valve, the excessive pressure is drained to T (2). The back pressure at T (2) is added to the adjusted value. T (2) can be charged up to the maximum. Hardened precision parts ensure virtually leakage-free closing. Rapid switching with low hysteresis and excellent stability over the whole flow range.

TYPE CODE

| | | | | | | | |
|----------------------------------|---------|----------------------------------|--|--------------|----------------------|---|----------------------|
| Pressure relief valve | | | | B E S PU08 - | <input type="text"/> | # | <input type="text"/> |
| Direct operated, leakage-free | | | | | | | |
| Type of adjustment | key | | | | | | |
| Screw-in cartridge 3/4"-16 UNF | | | | | | | |
| Nominal pressure range p_N | 60 bar | <input type="text" value="60"/> | | | | | |
| | 135 bar | <input type="text" value="135"/> | | | | | |
| | 220 bar | <input type="text" value="220"/> | | | | | |
| | 350 bar | <input type="text" value="350"/> | | | | | |
| Design index (subject to change) | | | | | | | |

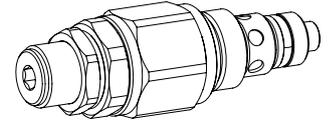
2.1-523

SYMBOL



GENERAL SPECIFICATIONS

| | |
|---------------------|--|
| Designation | Pressure relief valve |
| Construction | Direct operated seat tight |
| Mounting | Screw-in cartridge type |
| Nominal size | 3/4"-16 UNF according to Wandfluh standard |
| Actuation | Manually |
| Ambient temperature | -30...+110 °C |
| Weight | 0,145 kg key adjustment |
| MTTFd | 150 years |

3/4"-16 UNF
Wandfluh standard


APPLICATION

These valves are used for limiting the operating pressure in the hydraulic system. Can be used in double pressure relief switches. For machining the cartridge cavity in steel and aluminum blocks, cavity tools are available (hire or purchase). Please refer to the data sheets in register 2.13.

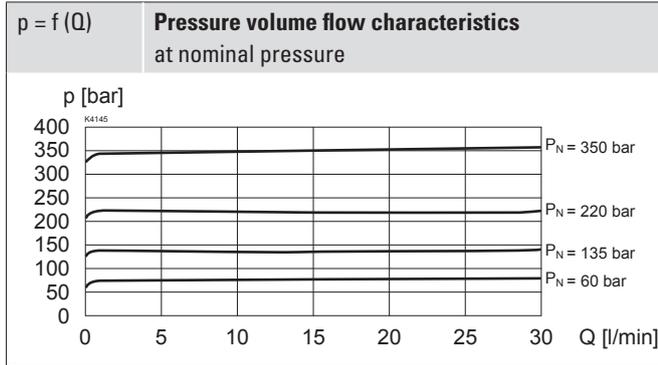
HYDRAULIC SPECIFICATIONS

| | |
|--------------------------|--|
| Working pressure | $p_{max} = 350$ bar |
| Tank pressure | $p_{Tmax} = 350$ bar |
| Nominal pressure range | $p_N = 60$ bar, 135 bar, 220 bar, 350 bar |
| Minimum pressure | P_N 60 bar = 15 bar P_N 135 bar = 25 bar P_N 220 bar = 50 bar P_N 350 bar = 120 bar |
| Volume flow range | $Q = 0,1 \dots 30$ l/min |
| Leakage volume flow | Leakage free 0,25 cc / min |
| Fluid | Mineral oil, other fluid on request |
| Viscosity range | 7,4 mm ² /s...420 mm ² /s |
| Temperature range | -20...+70 °C |
| fluid | |
| Contamination efficiency | Class 18 / 16 / 13 |
| Filtration | Required filtration grade β 10...16 ≥ 75 , see data sheet 1.0-50 |

ACTUATION

| | |
|------------------|-----------------------------|
| Actuation | S = lockable key adjustment |
| Actuation angle | 2520 ° (7 rotations) |
| Actuation stroke | 7 mm |

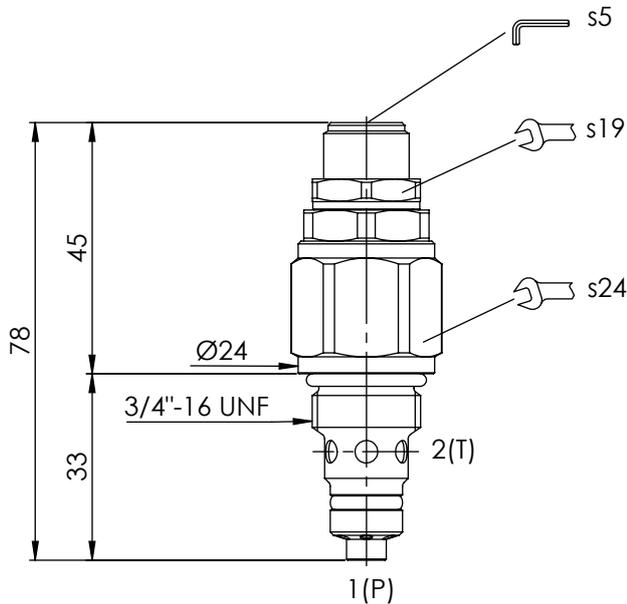
PERFORMANCE SPECIFICATIONS

 Oil viscosity $\nu = 30 \text{ mm}^2/\text{s}$


SURFACE TREATMENT

♦ The external parts of the cartridge body are zinc coated

DIMENSIONS

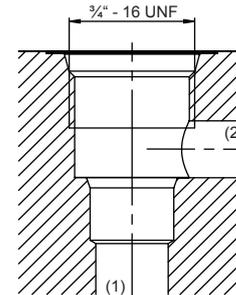


HYDRAULIC CONNECTION

Cavity drawing according to Wandfluh standard

Note!


For detailed cavity drawing and cavity tools see data sheet 2.13-1043


Attention! The nose of the cartridge protrudes 4 mm


INSTALLATION NOTES

| | |
|-------------------|---|
| Mounting type | Screw-in cartridge 3/4" - 16 UNF |
| Mounting position | Any, preferably horizontal |
| Tightening torque | $M_D = 40 - 45 \text{ Nm}$ Screw-in cartridge |

SEALING MATERIAL

NBR as standard