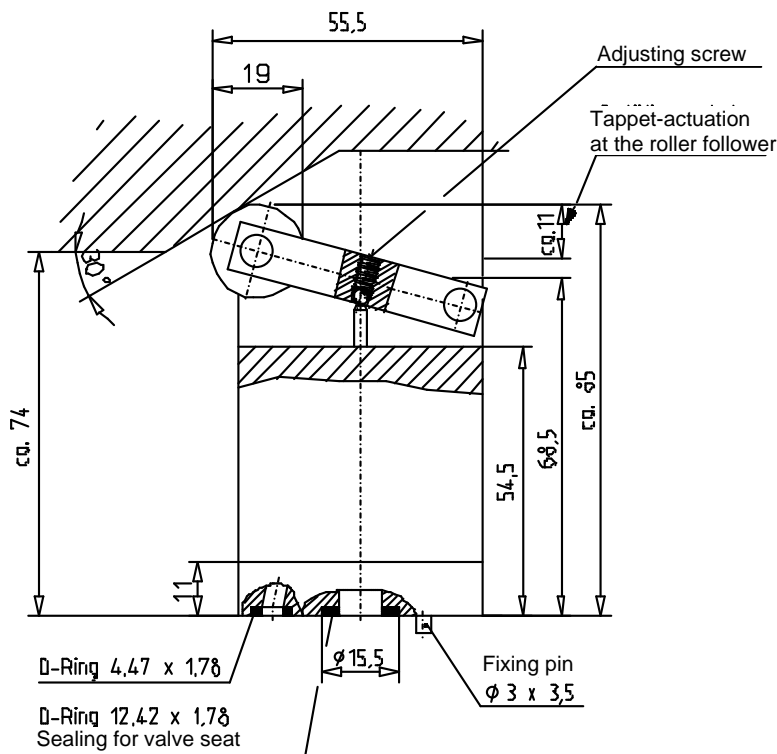


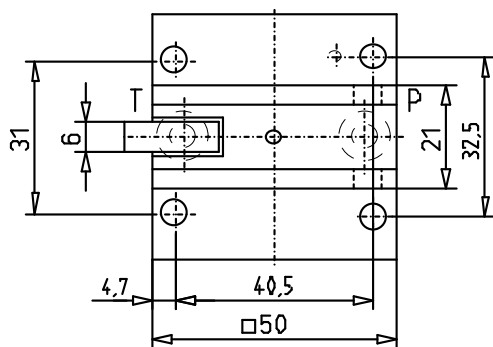
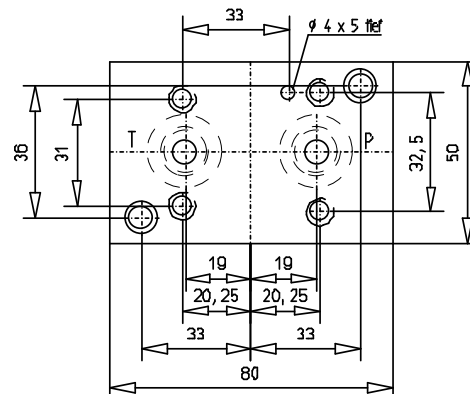
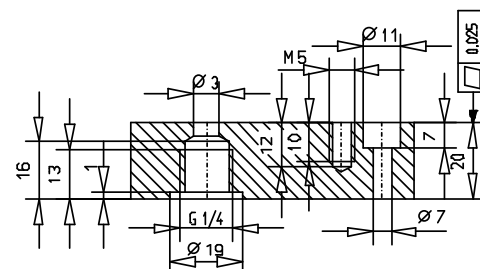
Pressure relief valve limits a continuous variable pressure in the inlet stream.

FEATURES

- Tappet-actuation via roller follower
- Valve neutral position: minimum rated pressure
- 5 setting pressure ranges
- Standard sealing material Viton (FKM)
- Assembly on connection plates with pipe joints



Connecting plate



Name

Pressure relief valve

634

C

315

M

Type

Series code letter

Rated adjustment pressure in bar: 70; 140; 210; 315

Supplementary data for special models

ACCESSORY

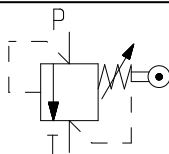
connecting plate

Order- No. 44 - 604 - 10022

CHARACTERISTICS

1. General

Symbol



Design one stage; cone – seat valve, undamped
 Weight valve 0.6 kg, connecting plate 0.5 kg
 Mounting position any
 Direction of volume flow P to T
 Ambient temperature range -25°C to +90°C

2. Hydraulic Characteristic

Rated pressure / max pressure connection P = 315 bar
 connection T = 70 bar
 Setting pressure range 5 - 35 bar; 5 - 140 bar; 5 - 210 bar; 5 - 315 bar
 Rated volume flow range up to 0.5 l/min
 Max permitted volume flow 1 l/min
 Pressure-volume flow-function see fig. 1
 Hydraulic fluid Hydraulic oil according to DIN 51 524 (1,2)
 Hydraulic fluid temperature range -20°C to +70°C
 Range of viscosity 5 - 350 mm²/sec
 Contamination level/Filtering general permitted table class 19/16 according to ISO 4406 or 10 according to NAS 1638 (recommended filter: minimum retaining rate $\beta_{20} \geq 75$)

3. Type of actuation

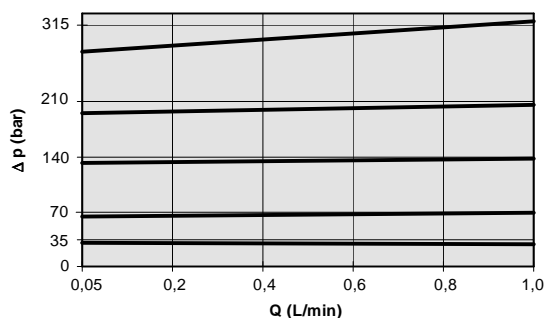
mechanical via Tappet and roller follower
 Adjusting force approx. 15...35 N; according to pressure stage; connection T pressure less
 Adjusting hub approx. 11 mm

Pressure-Volume flow-function

Δp -Q-characteristic

Fig. 1 shows the volume flow dependency at the different adjustment pressure rates.

Fig.1



Description of the valve

1. Valve

The valve consists of one stage (directly operated); it's a cone seat valve. The opening hub of the cone valve is limited by stroke limitation. The pressure adjustment is stroke-dependent via the roller follower, this translate the way of the pusher in 2:1.
 The valve has two connections, **P** and **T** for inlet and outlet flow.

2. Materials

The valve is made of engineering steel. The valve house and the top are bronzed, all wear parts are hardened.

For applications in excess of the given specification, please contact Schiedrum.

All specified parameters are partially based on long user's experience and partly on measurements made in laboratories. The data are typical of the valve and can deviate in series. All measurements were carried out on a test stand with an oil viscosity of 36mm²/sec and a filter mesh of < 10 µm. All data given here should be used as description of the product only and they are not to understand as warranty in the sense of law.