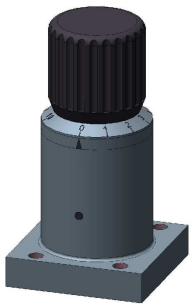
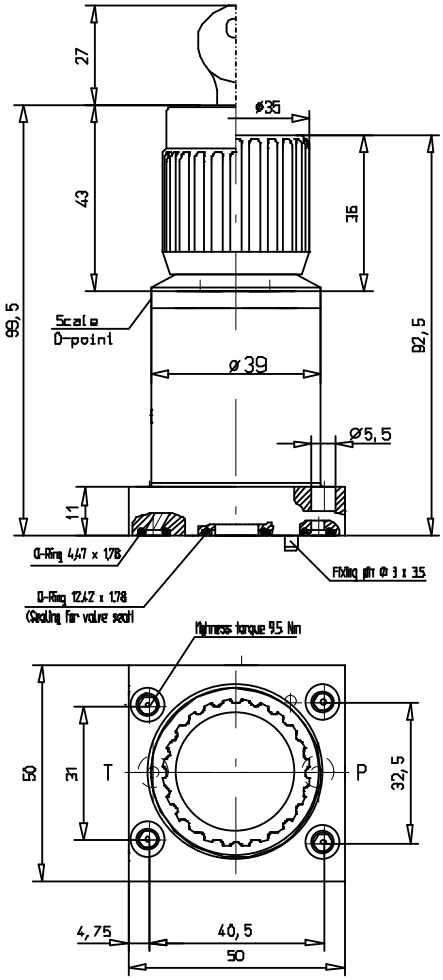
PRESSURE RELIEF VALVE
(remote controllable)
manual control – Plate configuration (NG 3)
directly operated - 315 bar – 0.5 l/min

Type 604

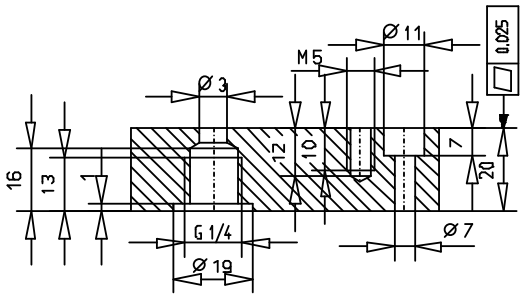
This pressure relief valve limits a continuous variable pressure in the inlet stream.

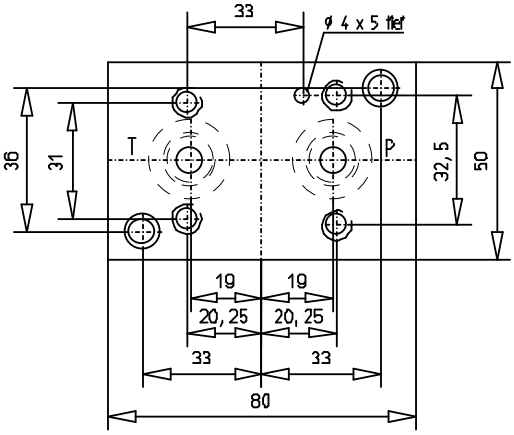


FEATURES
- scaled control knob
- control knob can be locked optionally - VW-locking E 10
- 5 setting pressure ranges
- Standard sealing material Viton (FKM)
- assembly on connection plates with pipe joints or control block



connection plates





ORDER INFORMATION
The scope of delivery includes the 0-rings for sealing the connecting holes and 4 fixing screws M 5 x 18 DIN 912 - 10.9 and for code „s“ one safety key.

Name

Pressure relief valve	604	D	S	315	M

Type
Series code letter
Actuation: control knob without lock = **without Code**
Control knob with lock = **S**
rated setting pressure in bar: **35; 70; 140; 210; 315**
supplementary data for special models

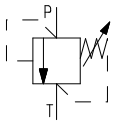
ACCESSORY

connection plates Order-No.: **44-604-10022**

CHARACTERISTICS

1. General

Symbol



Design	single stage; seat valve, valve via mechanical frictional resistance alive
Masse	valve 0.6 kg, connection plate 0.5 kg
Mounting position	any
Direction of volume flow	P to T
Ambient temperature	-25℃ to +80℃

2. Hydraulic Characteristic

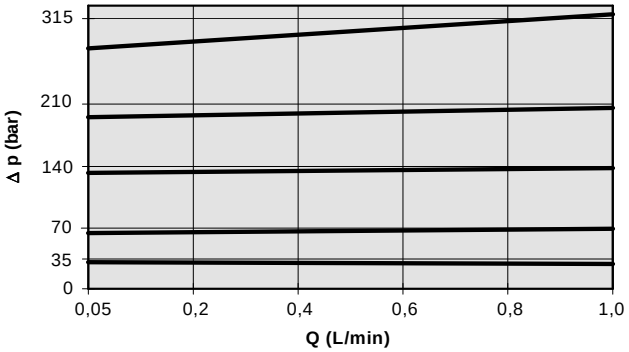
Rated pressure / max. pressure	connection P = 315 bar connection T = 70 bar
setting pressure range	5 - 35 bar; 5 - 70 bar; 5 - 140 bar; 5 - 210 bar; 5 - 315 bar
rated volume flow range	up to 0.5 l/min
pressure volume flow operation	see fig. 1
hydraulic fluid	Hydraulic oil according to DIN 51 524 (1,2)
hydraulic fluid temperature range	-20℃ to +70℃
viscosity range	5 - 350 mm^2/sec.
Contamination level/Filtering	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

manual via control knob

Controlling torque	approx. 40 Ncm
Setting angle	325°

Pressure flow signal function
Δp-Q-characteristic
Fig. 1 shows the volume flow dependency at the different adjusted rated pressure.



Description of the Valve

1. valve
This valve is single stage (direct controlled); it's a cone seat valve. The valve cone gets alive via mechanical frictional resistance. The scaled control knob adjusted the pressure
The valve has two connections, **P** and **T** for inlet and outlet stream.

2. Materials
The valve parts are made of structural steel, the housing is bronzed. All wear parts are hardened. The control knob is made of aluminium with a plastic core and the lock cylinder is made of steel (bronzed), of aluminium and the lock is made of brass.

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.