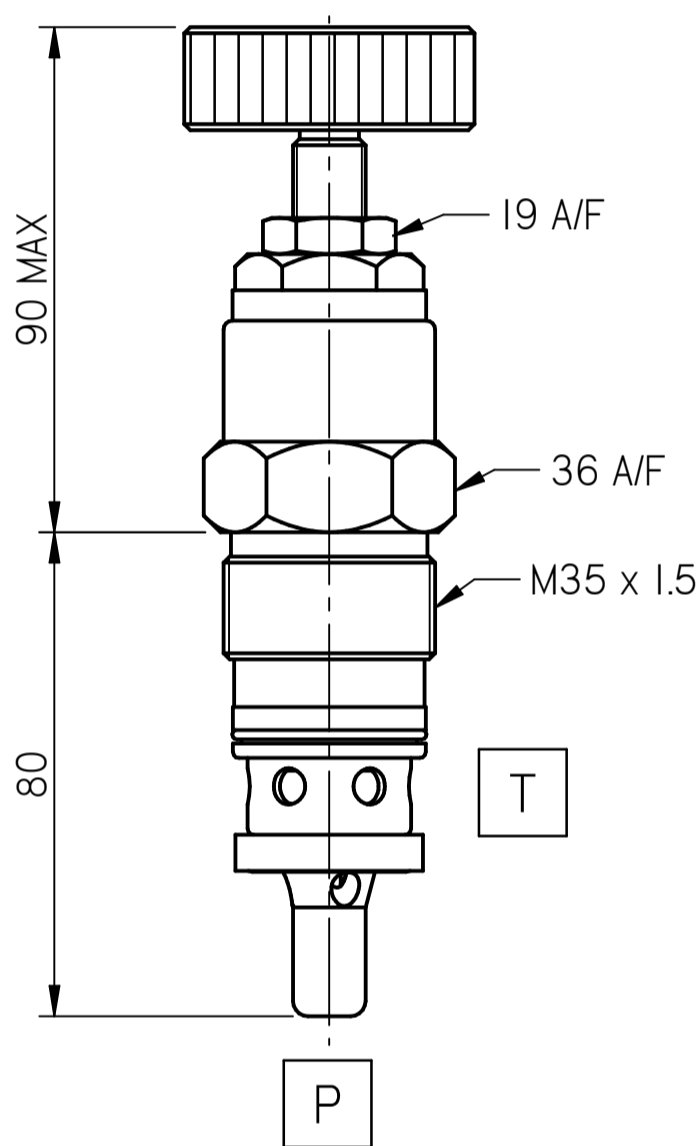
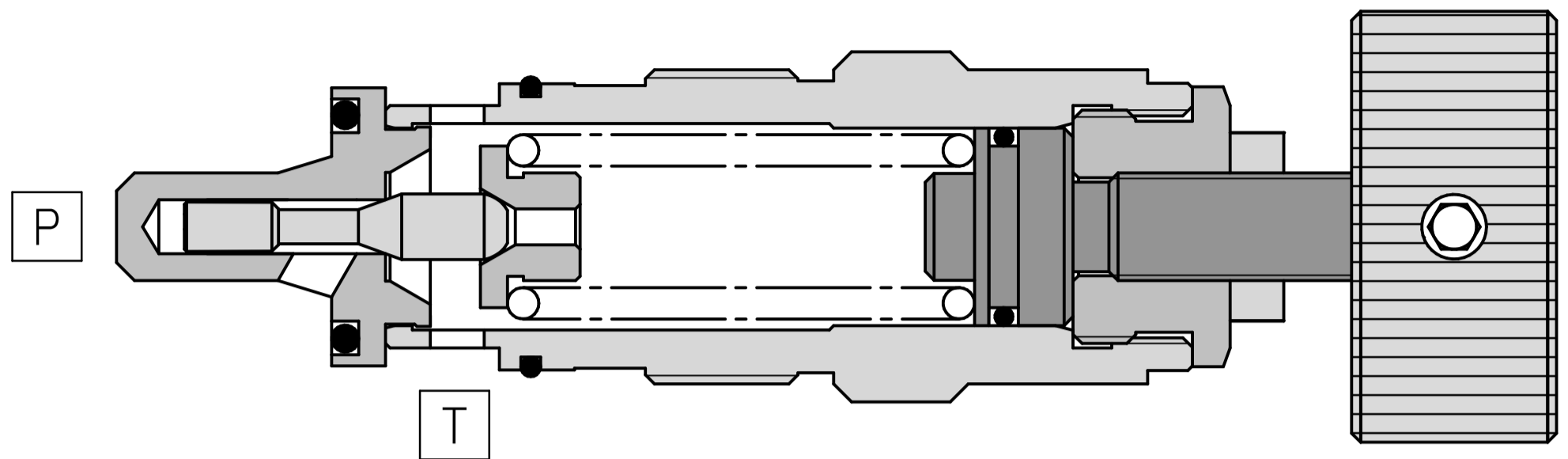
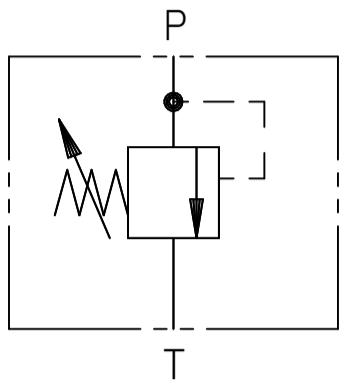


FLUID POWER SYMBOL



Application

Pressure Relief valves are used to limit the pressure in the system as set on the valve. Direct Relief Valves are applicable in systems where quick pressure release is of prime concern for safety. This is an economical solution for systems having small flows. The valve is a zero leak valve due to the metal sealing of the poppet on the seat. The DR10 can also be used for pilot systems.

Operation

As with all direct acting pressure relief valves, when the pressure at the inlet (P) exceeds the spring force set by the adjuster, the poppet moves back, opening the inlet (I) to outlet (T). This

relieves the pressure to tank. The dampening buffer on the nose of the valve dampens the vibrations caused by pressure variations on the valve. This gives it a smooth opening and closing characteristic with minimum chatter.

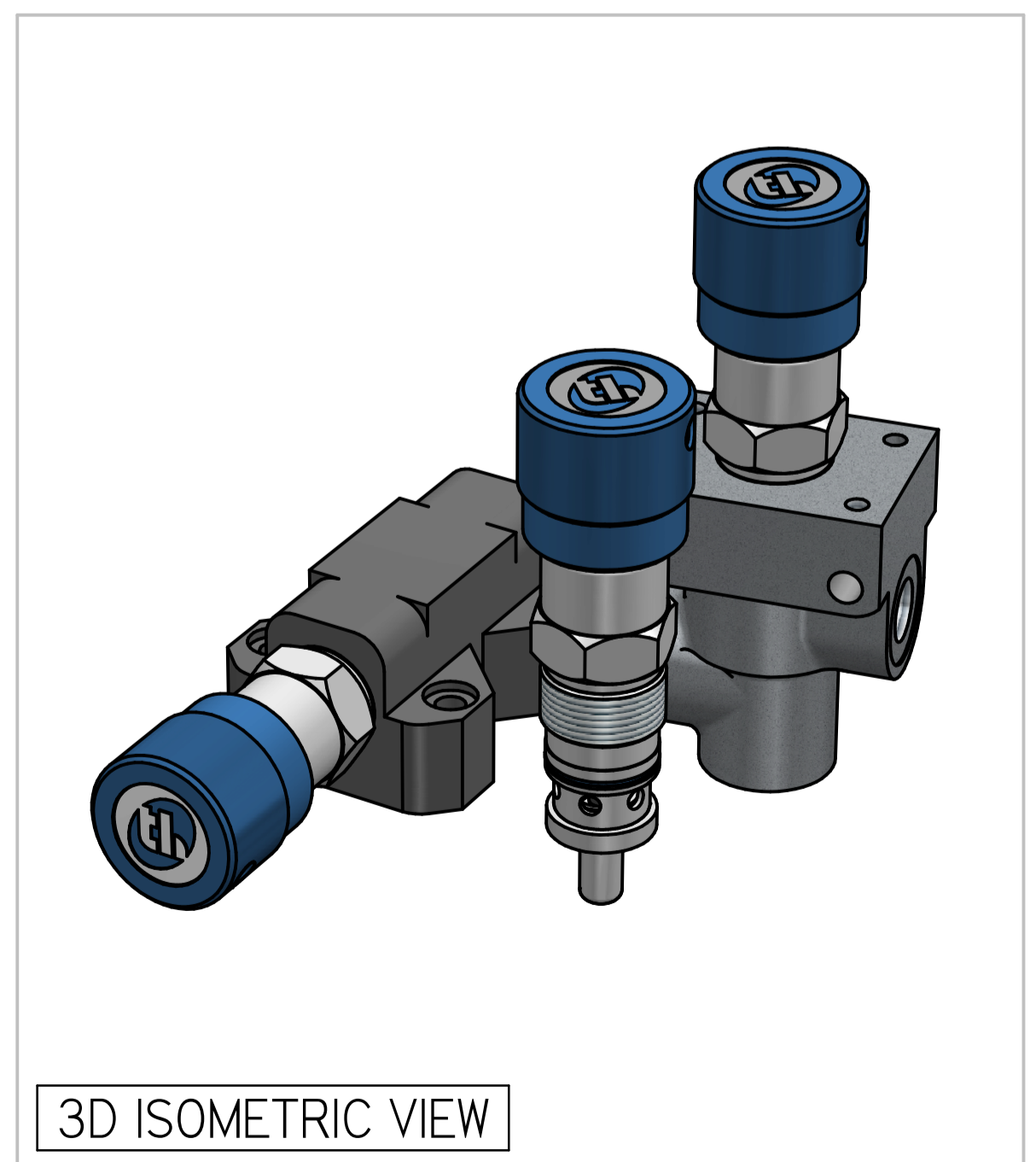
Features

Matched ground and hardened working parts give a long and trouble-free life. Consistent stable operation providing low pressure over ride even with increasing flows. Cartridge type construction gives maximum flexibility in mounting.

Specifications

Figures based on: Oil Temp = 40°C Viscosity = 40 cSt

Rated Flow	60 lpm
Max Pressure	350 bar
Cartridge Material	Working parts : Hardened, ground steel External surfaces : Zinc plated
Weight (Cartridge only)	DR10: 0.540 kg
Cavity Number	CDR10 (Refer Cavities Section)
Manifold Material	SG Iron (upto 350 bar)
Torque into Cavity	60 Nm
Mounting	Line/Subplate
Seal Kit Number	SKDR10 (Nitrile) SKDR10V (Viton®)
Filtration Level	BS5540/4 Class 18/13 (25µ nominal)
Operating Temp	-20°C to +90°C (Standard Seals)
Leakage	Less than 0.3 millilitres/min (5 dpm)
Viscosity Range	5 to 500 cSt



3D ISOMETRIC VIEW

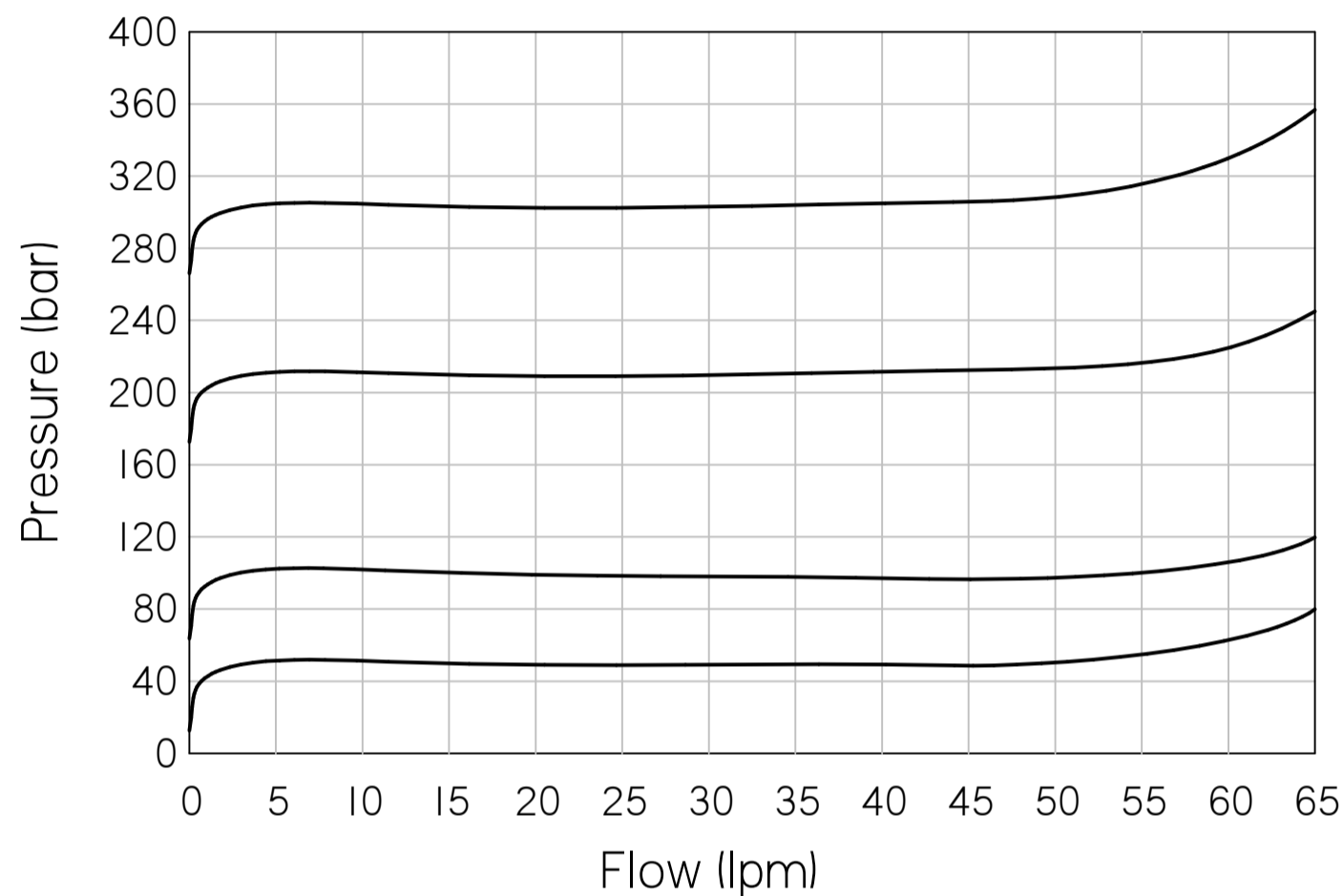
Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

TO ORDER

DR10 K 4W 20

BASIC CODE	DR10: LINE MOUNTING	DRG10: SUBPLATE MOUNTING	ADJUSTMENT	K: KNOB	P: CAP	PORT SIZE	4W: 1/2 BSP PORTS	OMIT FOR CARTRIDGE AND SUBPLATE	PRESSURE RANGE	05: 5 to 50 bar	10: 10 to 100 bar	20: 20 to 200 bar	30: 30 to 350 bar
------------	---------------------	--------------------------	------------	---------	--------	-----------	-------------------	---------------------------------	----------------	-----------------	-------------------	-------------------	-------------------

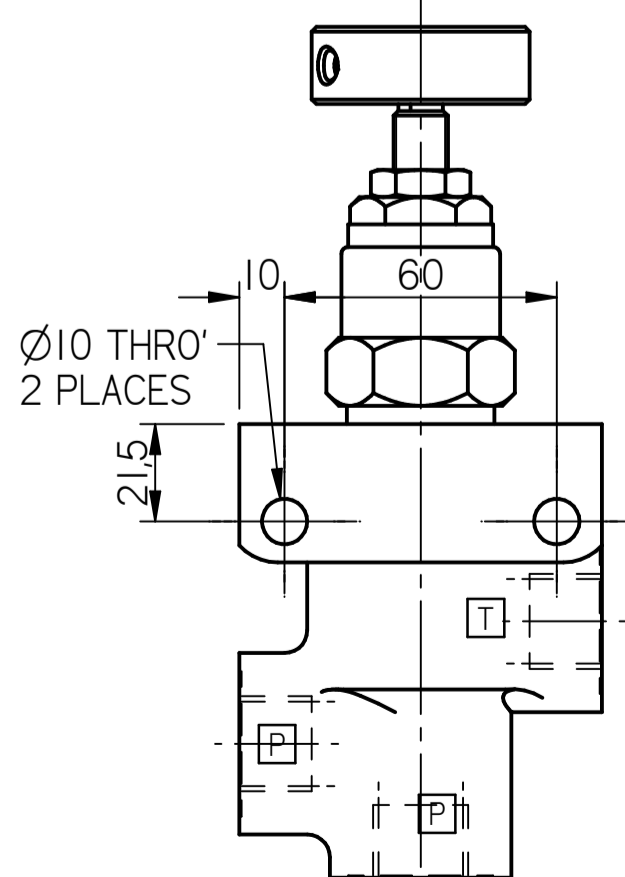
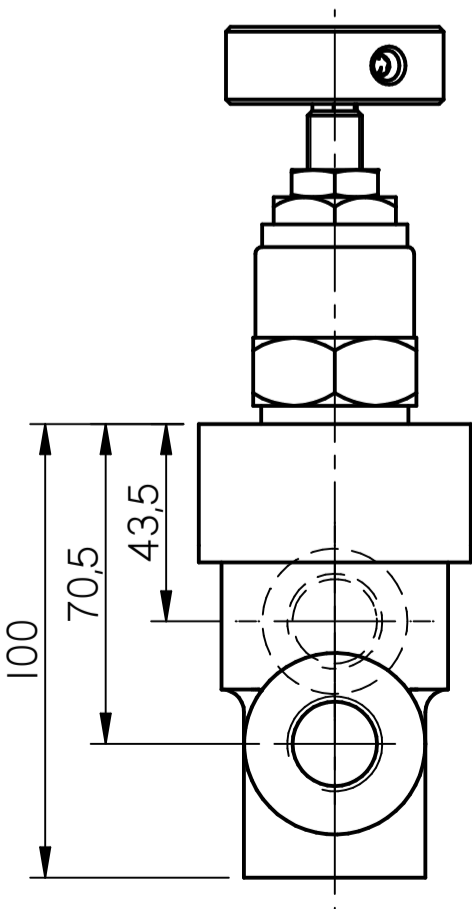
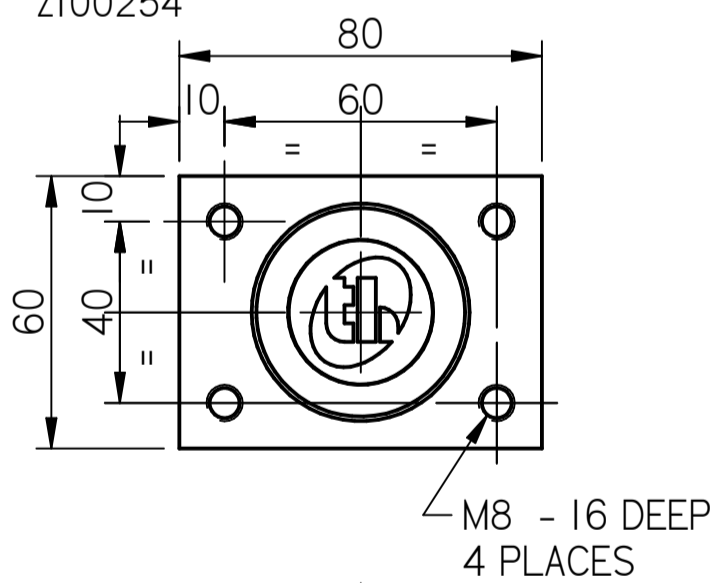
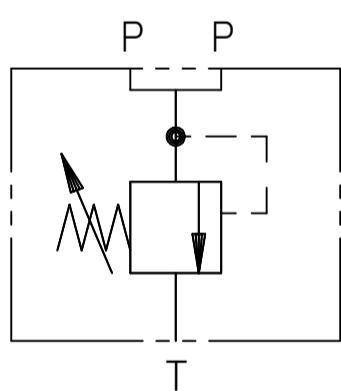
PRESSURE CHARACTERISTICS



COMPLETE VALVE 1/2" BSP PORTS

BASIC CODE: DR10 4W

ONLY Body Part Numbers (BSP)
Aluminium SG Iron
- - 1/2" Z100254



COMPLETE VALVE SUBPLATE MOUNTING

BASIC CODE: DRG10

ONLY Body Part Numbers
Aluminium SG Iron
- - NG10 Z10036

