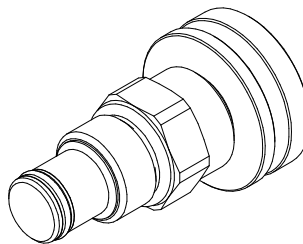
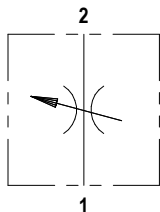




TVC 10

FLUID POWER SYMBOL



APPLICATION

Throttle valves can be used where volume flows must be infinitely controlled in both directions without taking pressure fluctuations into account. The screwed cartridge design is ideal for installing in manifold blocks or in CETOP sandwich plates.

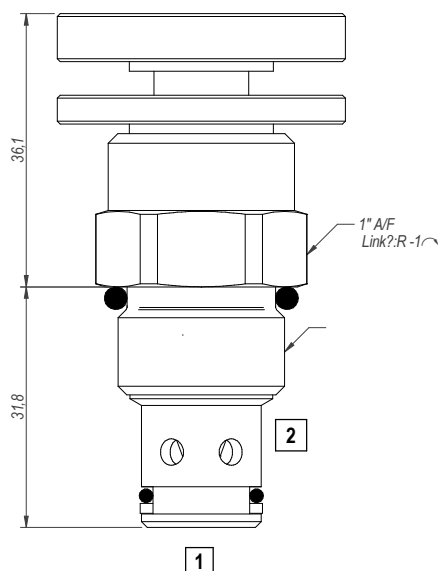
OPERATION

A fine tread on the adjustable throttle reveals an annular gap. The adjusted throttle cross-section produces a pressure drop which determines the volume flow. The volume flow is zero when the throttle is screwed in (the metal sealing edge seals completely). The valve flow is controlled bidirectionally.

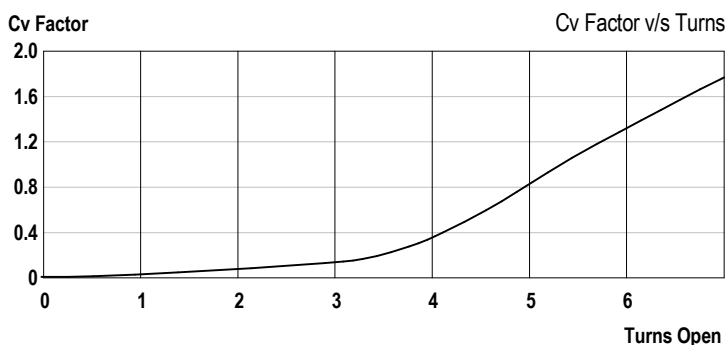
FEATURES

Hardened and ground spindles with machined and hardened seats give excellent flow characteristics with zero leakage. Installation is quick and easy due to the simplicity of the cavities.

DIMENSIONS



CHARACTERISTICS. Figures Based on: Oil Temp = 40°C, Viscosity = 40 cSt



General Specifications

Description	flow control valve
Construction	screw-in cartridge construction for cavity
Mounting	7/8" - 14 UNF screw thread for cartridge Threaded ports for housings.
Installation Position	any
Tightening Torque	50 Nm
Ambient Temp.	-40°C to 70°C
Cartridge Material	Working parts: Hardened, ground steel External surfaces: Zinc plated
Manifold Material	Aluminium or SG Iron
Cavity Number	SAE10-2 (Refer Cavities Section)
Weight	TVC 10 * N: 0.14 kg

Hydraulic Specifications

Hydraulic Fluid	Mineral oils. Contact sales office for other fluids.
Max. Pressure	350 bar
Rated Flow	60 lpm
Max. Contamination Level	BS5540/4 Class 18/16/13 (25µ nominal)
Viscosity Range	5 to 500 cSt
Leakage Flow	Less than 0.3 ml/min (5 dpm)
Hydraulic Fluid Temp.	-40°C to +90°C (Standard Seals)
Mounting	Line/Subplate
Peak Pressure	400 bar
Max. Flow	80 lpm
Seal Kit Number	SKTVC10 (Nitrile)

ORDERING CODE

TCV10 P N #F10	
BASIC CODE TVC 10 - Standard Body	DESIGN NUMBER FXX: 10-19 No change in external dimensions
ADJUSTMENT K: Knob Adjustment	SEAL KIT N: Nitrile

Blank Page