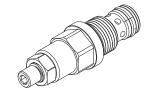


Throttle valve Screw-in cartridge

• Q_{N max} = 30 l/min • Q_{max} = 40 l/min • p_{max} = 350 bar

M18x1,5 ISO 7789



DESCRIPTION

• p_{max}

Manually adjustable, M18x1,5 screw-in cartridge throttle valve in accordance with cavity ISO 7789. The cartridge body made of steel is galvanized and therefore rust-protected.

FUNCTION

A fine tread on the adjustable throttle reveals an annular gap. The adjusted throttle crosssection 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 bidirectional.

APPLICATION

Throttle valves can be used anywhere where volume flows can be infinitely controlled in both directions without taking pressure fluctuations into account. Stepped tools are available for making the receptacle bores in steel and aluminium (hire or purchase). Please refer to the data sheets in register 2.13.

TYPE CODE								
		DN	ı	PM18	-	30	#	
Throttle valve								
Type of adjustment								
Screw-in cartridge M18x1,5								
Nominal volume flow rate Q _N	30 l/min							
Design-Index (Subject to change)								

GENERAL SPECIFICATIONS

Throttle valve Description Construction

Screw-in cartridge for cavity acc. to ISO 7789

Screw-in thread M18x1,5 Mounting

Ambient temperature -20...+50°C Mounting position any

 $M_{D} = 30 \text{ Nm}$ Fastening torque Weight m = 0,11 kg

Volume flow direction $1 \leftrightarrow 2$

HYDRAULIC SPECIFICATIONS

Mineral oil, other fluid on request Fluid

Contamination efficiency ISO 4406:1999,

class 20/18/14...21/19/15

Required filtration grade (ß 10...25 ≥ 75)

(refer to data sheet 1.0-50/2)

Viscosity range 12mm²/s...320mm²/s

Fluid temperature -20...+70°C Peak pressure

 $p_{\text{max}} = 350 \text{ bar}$ $Q_{\text{N}} = 30 \text{ l/min}$ Nominal volume flow rates

Q_N at 10 bar valve pressure loss

Max. volume flow Q_{max}= 40 l/min

Leakage volume flow Almost leak free with closed restrictor

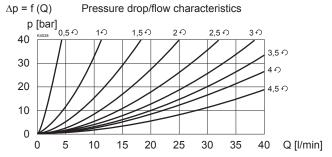
SYMBOL

MECHANICAL ACTUATION

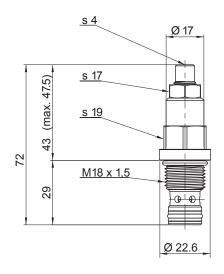
Screw adjustment with fork wrench and Allen key Control storke S_h = 4.5 mm = 1620° / 4,5 turns Control angle and



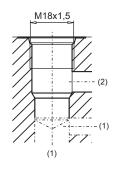
CHARACTERISTICS Oil viscosity u = 30 mm²/s



DIMENSIONS



Cavity drawing according to ISO 7789–18–01–0–98



For detailed cavity drawing and cavity tools see data sheet 2.13-1002.

ACCESSORIES

Line mount body

Data sheet 2.9-205