

THROTTLE ORIFICE

Motor-controlled with DC motor for remote control Subplate mounting NG 8 - 210 bar up to approx. 40 l/min 165A-DC

Throttle orifice are flow valves in which the volume flow depends on the throttle valve cross section and differential pressure. The control valve can be adjusted by means of orifice to ensure that, as far as possible, the equipment's efficiency by viscosity.

FEATURES

- remote control
- Connecting voltage 12V- / 24V-
- Stroke limits by means of limit switches
- Adjustable control cams
- optional potentiometer of electrical position display
- Fail-safe behaviour: valve keeps the last position in case of a power failure
- No electrical temperature drift
- Floating time approx. 16 sec at 12V, approx. 8 sec. at 24V
- Volume flow signal function: progressive: large control range
- choice (optional) six orifice size
- Mounting surface according to Schiedrum internal standard
- assembly on subplates with pipe connections or control block
- with or without by-pass check valve
- Standard sealing material Buna N / NBR, other materials are possible
- For volume flow control in both flow directions, volume flow rectifier plates type 71 are available





CHARACTERISTICS	
1.General	
Symbol	
Design	Adjustment throttle: Hollow piston with triangular notch, orifice-like Check valve: spring loaded ball seat valve
Weight	2.4 kg
Mounting position	any, preferably vertical
Direction of volume flow	A to B, B to A unthrottled return flow by valves
Ambient temperature range Floating time	with by-pass check valve -25℃ to +50℃ Q _{mind} to Q _{max} approx 16 Sec. at 12V, approx. 8 sec. at 24V
2. Hydraulic characteristics	
Rated pressure / max. pressure max. permissible. Pressure difference A to B Hydraulic fluid	210 bar 100 bar Hydraulic oil according to DIN 51 524 and 51 525 and flame resistant hydraulic fluids of the group HFA, HFB and HFC.
Hydraulic fluid temperature range Range of viscosity max. permitted volume flow via check valve Contamination level / filtering	sealing. -20°C to +60°C 5 - 350 mm ² /sec 30 l/min General permit table class 19/16 according to ISO 4406 or 10 according to NAS 1638 (recommended filter: minimum retaining rate $\beta_{20} \ge 75$)
Orifice size	1; 2; 3; 4; 5; 6
3. Type of actuation	electro motor controllable
3.1. Motor	
Type Rated voltage Current consumption Power consumption pulse duty factor	DC motor 24 V DC / operating voltage range approx. 6 - 24 V DC approx. 0.1A / starting current 0.25 A approx. 2 W 100%
3.2 Potentiometer for position indication	
Type Permissible load Independent linearity Resistance value max. operating voltage	Rotation potentiometer with wire-wrapped resistance element 2 W at 40°C; 0 W at 105°C +/- 1.0 % 1 K Ohm +/- 10% 44 V at 40°C

Circuit diagram



Contact system	single-pole chance over switch
Switching system	surge circuit
Switching capacity	4 A; 250 V
3.4 Protective system	(according to DIN 40 050) IP 54
3.5 Connection type	Plug connection according to DIN 43 651
Cable diameter	79 mm
Wire gauge	0.5 mm ²



Q max

0 V

CHARACTERISTICS

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