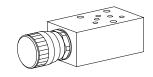


Throttle valve Sandwich construction

- Q_{max} = 20 l/min • Q_{N max} = 15 l/min
- p_{max} = 315 bar

NG4-Mini



DESCRIPTION

Throttle valve sandwich design NG4-Mini with mounting interface acc. to Wandfluh standard. The throttle valve is available in two different variants, namely the standard and the precision throttle (FD). The rotary control is made from aluminium, all other parts, have been phosphated.

FUNCTION

Using the precision thread adjusting spindle, the restriction of the volume flow can be continuously adjusted. With the spindle fully screwed home, the volume flow is zero, and a metallic edge makes a leak-tight closure. The throttle effect is produced by an annular gap which can be varied in size, or by means of a triangular edge. Because of the nature of the design, there is only a small amount of leakage.

APPLICATION

Sandwich type throttle valves can be used anywhere where volume flows have to be infinitely controlled in both directions without taking pressure fluctuations into account. These sandwich valves are ideal for machine tools and also all types of handling operation. Mini-4 throttle valves are used wherever light, extremely compact hydraulic control units are needed.

TYPE CODE

		В	DR _	4	#	
Mounting interface acc. to Wandfluh standard						
Throttle valve						
Type list / function in A A in B B in A and B AB in P P in T T						
in P and T PT Nominal size 4-Mini						
Standard Precision throttle - FD]			_		
Design-Index (Subject to change)						

GENERAL SPECIFICATIONS

Throttle valve Description

NG4-Mini acc. to Wandfluh standard Nominal size

Construction Sandwich

Mounting 3 mounting holes for socket head cap

screws

Connections

M5 or studs M5

Threaded connection plates, Multi-flange

subplates, Longitudinal stacking system

Ambient temperature -20...+50°C

Mounting position any

Fastening torque

M_D= 5,5 Nm (Quality. 8.8) Weight Depending on the type 0,8...0,9 kg

HYDRAULIC SPECIFICATIONS

Mineral oil, other fluid on request Fluid

ISO 4406:1999. Contamination efficiency

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

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

refer to data sheet 1.0-50/2 12 mm²/s...320 mm²/s

Viscosity range -20...+70°C Fluid temperature

 $p_{max} = 315 \text{ bar}$ $Q_{N} = 15 \text{ l/min}$ Peak pressure

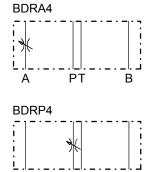
Nominal volume flow rate

 $Q_N^{"}$ at 10 bar valve pressure loss

 $Q_{max} = 20 \text{ l/min}$ Max. Volume flow

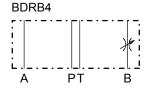
Leakage volume flow Almost leak free with closed restrictor

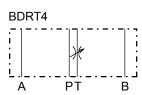
TYPE LIST / FUNCTION

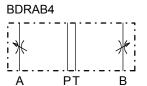


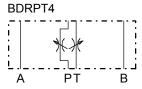
PT

В



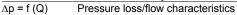


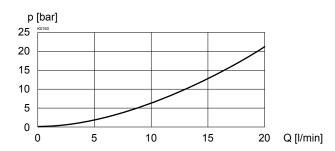


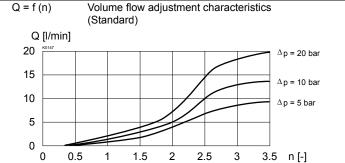


Α

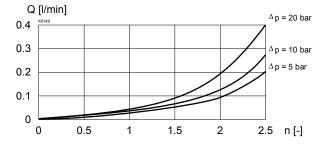




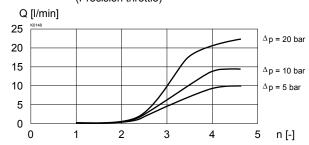




Q = f (n) Volume flow adjustment characteristics (Precision throttle)

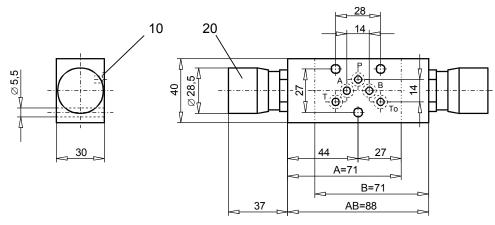


Q = f (n) Volume flow adjustment characteristics (Precision throttle)

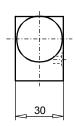


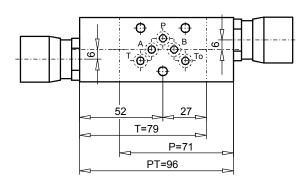
DIMENSIONS

BDRA4, BDRB4 et BDRAB4



BDRP4, BDRT4 et BDRPT4





PARTS LIST

Position	Article	Description
10	160.2052	O-ring ID 5,28 x 1,78 (NBR)
20	114.1204	Turning knob

Technical explanation see data sheet 1.0-100