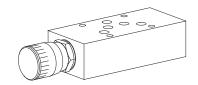


Throttle valve Sandwich construction

- Q_{max} = 100 l/min • Q_N = 60 l/min • p_{max} = 350 bar

NG10 ISO 4401-05



DESCRIPTION

Throttle valve sandwich type NG10 with interface acc. to ISO 4401-05. The turning knob is made from aluminium, the sandwich plate made of steel is zinc-nickel coated.

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. The valve flow is bidirectional. 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.

TYPE CODE	
	A DR 10 #
International standard interface ISO	
Throttle valve	
Type list / function in A A in B B in A and B AB in P P	
Nominal size 10	
Standard	
Design-Index (Subject to change)	

GENERAL SPECIFICATIONS

Description Throttle valve

Nominal size NG10 acc. to ISO 4401-05 Construction Sandwich construction

4 mounting holes for socket head cap screws Mounting

M6 or studs screws M6

Connections Threaded connection plates, Multi-flange subplates, Longitudinal stacking system

Ambient temperature -20...+50°C

Mounting position any

 $M_D = 9.5 \text{ Nm (Quality. 8.8)}$ Fastening torque

m = 2,1 kgWeight

HYDRAULIC SPECIFICATIONS

Mineral oil, other fluid on request

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

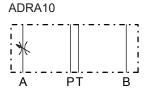
Viscosity range -20...+70°C Fluid temperature $p_{max} = 350 \text{ bar}$ Peak pressure $Q_N = 60 \text{ l/min}$ Nominal volume flow rate

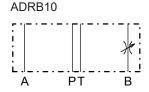
 Q_N^{α} at 10 bar valve pressure loss

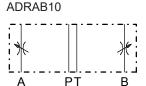
 $Q_{max} = 100 \text{ l/min}$ Max. Volume flow

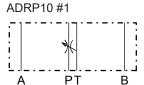
Leakage volume flow Almost leak free with closed restrictor

TYPE LIST / FUNCTION









Wandfluh AG Postfach CH-3714 Frutigen Tel. +41 33 672 72 72 Fax +41 33 672 72 12 E-mail: sales@wandfluh.com Internet: www.wandfluh.com

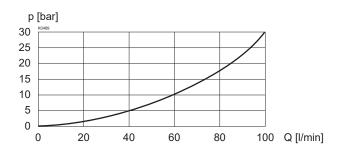
Illustrations not obligatory Data subject to change

Data sheet no. 2.4-770E 1/2 Edition 21 31

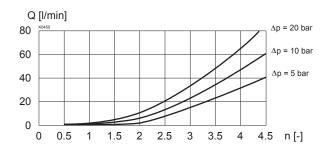


CHARACTERISTICS Oil viscosity $\upsilon = 30 \text{ mm}^2/\text{s}$

 $\Delta p = f(Q)$ Pressure loss/flow characteristics Restriction in A, B



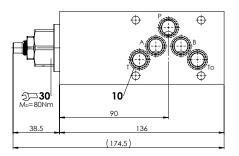
Q = f (n) Volume flow adjustment characteristics (Standard ADRA, B, AB)

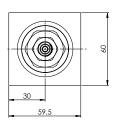


Caracteristics ADRPT10 can be found on data sheet 2.4-552 (throttle cartridge DNIPM33).

DIMENSIONS

ADRP10 #1





ADRA, B, AB10 54 48 20,8 40 50 20 66 A=137,7 B=137,7 AB=132 10

PARTS LIST

Position	Article	Description
30	623.8009	DNIPM33
10	160.2140	O-ring ID 14,00 x 1,78 (NBR)

PARTS LIST

Position	Article	Description
10	160.2140	O-ring ID 14,00 x 1,78 (NBR)
20	114.1201	Turning knob
40	049.2222	Bounded seal ID 22.7 x 30 x 2
50	238.5201	Plug DIN 908 M 22 x 1,5

Technical explanation see data sheet 1.0-100

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