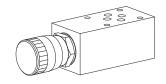


# Throttle valve Sandwich construction

- Q<sub>max</sub> = 80 l/min
- Q<sub>N</sub> = 50 l/min
   p<sub>max</sub> = 350 bar

# NG6 ISO 4401-03



### **DESCRIPTION**

Throttle valve in sandwich construction NG6 with interface according to ISO 4401-03. The throttle valve is available in two different variants, the standard and the precision throttle (FD). The FD execution is availble for restriction in A, B or AB only. The turning knob is made from aluminium, the sandwich plate made of steel is zinc-nickel coated.

#### **FUNCTION**

By means of the adusting spindle (fine thread), the restriction of the volume flow can be continuously adjusted. With the spindle fully screwed in, the volume flow is zero, and a metallic edge seals leakfree. The throttle effect is produced by an annular gap which can be varied in size, or by means of a triangular edge. The flow through of throttle valves is possible in both directions. The precision throttle (FD) has an even finer resolution in the lowest volume flow range.

Due to the type of construction, there is a very low leakage.

#### **APPLICATION**

Sandwich construction throttle valves are used where volume flows can be continuously adjusted in both flow directions without consideration of the pressure fluctuations. These sandwich valves are perfectly suitable for machine tools as well as all types of handling operation.

#### **TYPE CODE**

	A DR 6#	
International standard interface Is	SO	
Throttle valve		
Type list / function in A		
Nominal size 6		
Standard Precision throttle	FD (A, B or AB only)	
Design-Index (Subject to change)		

# **GENERAL SPECIFICATIONS**

Description Throttle valve

NG6 acc. to ISO 4401-03 Nominal size Construction Sandwich construction

Mounting 4 fixing holes for socket cap screws

M5 or studs screws M5

Connections Threaded connection plates, Multi-flange

subplates, Longitudinal stacking system

-20...+50°C Ambient temperature

Mounting position any

M<sub>D</sub>= 5,5 Nm (Quality 8.8) Fastening torque

m = 1.9 kgWeight

# **HYDRAULIC SPECIFICATIONS**

Viscosity range

Mineral oil, other fluid on request

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 12 mm<sup>2</sup>/s...320 mm<sup>2</sup>/s

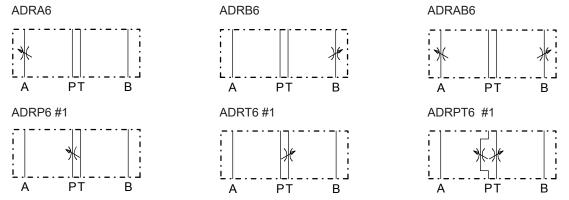
Fluid temperature -20...+70°C Peak pressure

 $p_{max} = 350 \text{ bar}$   $Q_N = 50 \text{ l/min (throttle at A or B)}$ Nominal volume flow rate Q<sub>N</sub> at 10 bar valve pressure loss

 $Q_{max} = 80 \text{ l/min}$ Max. Volume flow

Leakage volume flow Almost leak free with closed restrictor

#### **TYPE LIST / FUNCTION**



Wandfluh AG Postfach CH-3714 Frutigen

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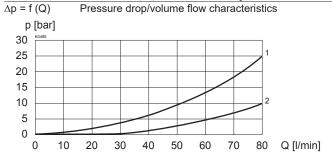
sales@wandfluh.com E-mail: Internet: www.wandfluh.com

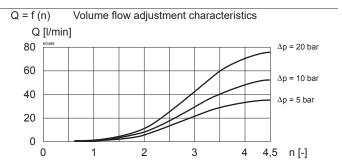
Illustrations not obligatory Data subject to change

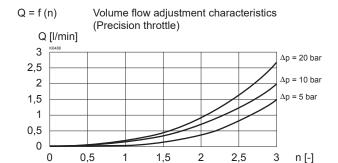
Data sheet no. 2.4-750E 1/2 Edition 21 31

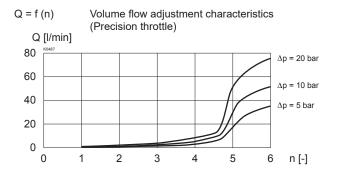


# **CHARACTERISTICS** ADRA, B, AB6 Oil viscosity $v = 30 \text{ mm}^2/\text{s}$



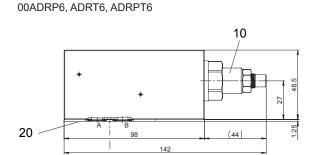


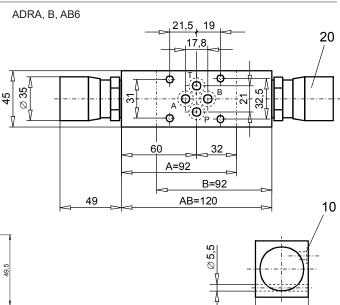




Caracteristics ADRP, T and PT can be found on data sheet 2.4-532 (throttle cartridge DNIPM22).

### **DIMENSIONS**







### **PARTS LIST**

Position	Article	Description
10	623.3002	DNIPM22-60
20	173.3650	ADB6 Sealing plate

Technical explanation see data sheet 1.0-100

### **PARTS LIST**

Position	Article	Description
20	114.1201	Turning knob
30	160.2093	O-ring ID 9,25 x 1,78

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