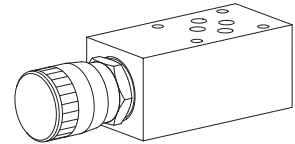


**Throttle valve  
Sandwich construction**

- $Q_{max} = 80$  l/min
- $Q_N = 50$  l/min
- $p_{max} = 350$  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 available for restriction in A, B or AB only. The turning knob is made from aluminium, all other parts, incl. the sandwich plate, are made of steel and phosphatised.

**FUNCTION**

By means of the adjusting 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**

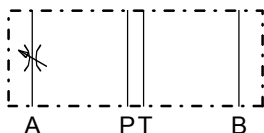
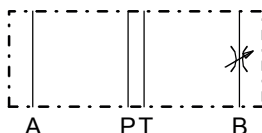
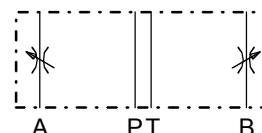
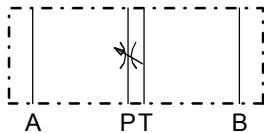
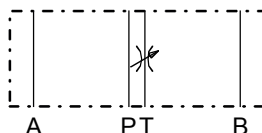
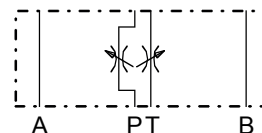
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Throttle valve							
Type list / function							
in A	<input type="checkbox"/> A	in B	<input type="checkbox"/> B				
in A and B	<input type="checkbox"/> AB						
in P	<input type="checkbox"/> P	in T	<input type="checkbox"/> T				
in P and T	<input type="checkbox"/> PT						
Nominal size 6							
Standard	<input type="checkbox"/>						
Precision throttle	<input type="checkbox"/> - FD (A, B or AB only)						
Design-Index (Subject to change)							

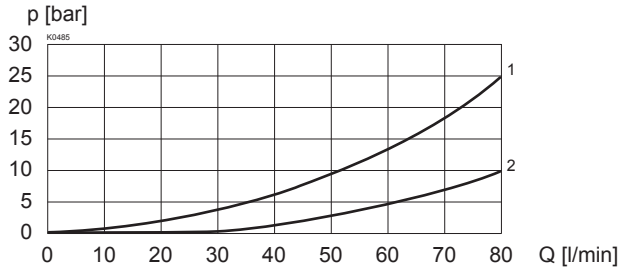
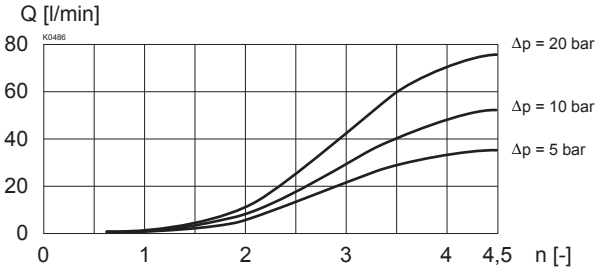
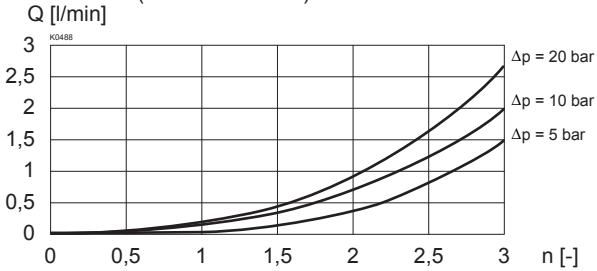
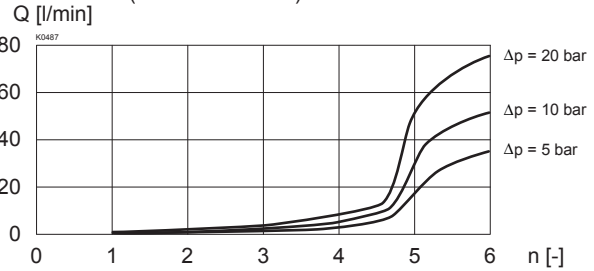
**GENERAL SPECIFICATIONS**

Description	Throttle valve
Nominal size	NG6 acc. to ISO 4401-03
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
Ambient temperature	-20...+50 °C
Mounting position	any
Fastening torque	$M_D = 5,5$ Nm (Quality 8.8)
Weight	$m = 1,9$ kg

**HYDRAULIC SPECIFICATIONS**

Fluid	Mineral oil, other fluid on request
Contamination efficiency	ISO 4406:1999, class 20/18/14...21/19/15 (Required filtration grade $\beta_{10...25} \geq 75$ ) refer to data sheet 1.0-50/2
Viscosity range	12 mm <sup>2</sup> /s...320 mm <sup>2</sup> /s
Fluid temperature	-20...+70 °C
Peak pressure	$p_{max} = 350$ bar
Nominal volume flow rate	$Q_N = 50$ l/min (throttle at A or B) $Q_N$ at 10 bar valve pressure loss
Max. Volume flow	$Q_{max} = 80$ l/min
Leakage volume flow	Almost leak free with closed restrictor

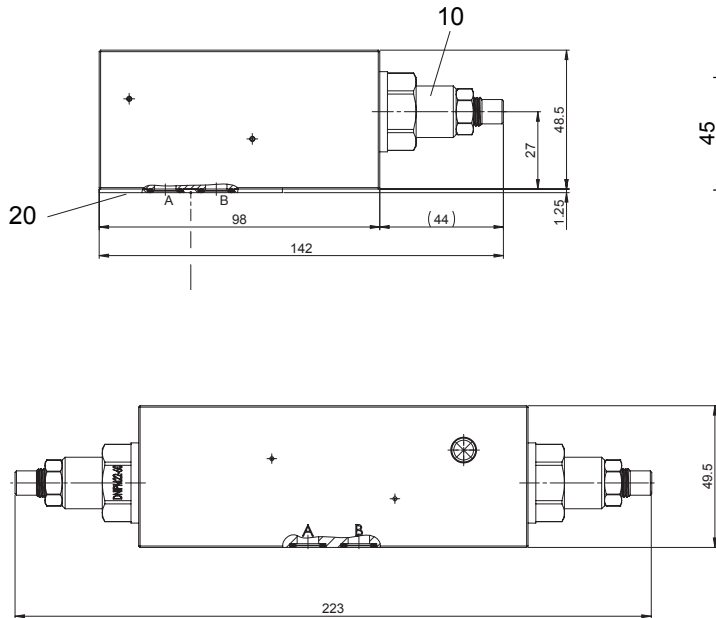
**TYPE LIST / FUNCTION**
**ADRA6**

**ADRB6**

**ADRAB6**

**ADRP6 #1**

**ADRT6 #1**

**ADRPT6 #1**


**CHARACTERISTICS ADRA, B, AB6** Oil viscosity  $\nu = 30 \text{ mm}^2/\text{s}$ 
 $\Delta p = f(Q)$  Pressure drop/volume flow characteristics

 $Q = f(n)$  Volume flow adjustment characteristics

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

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


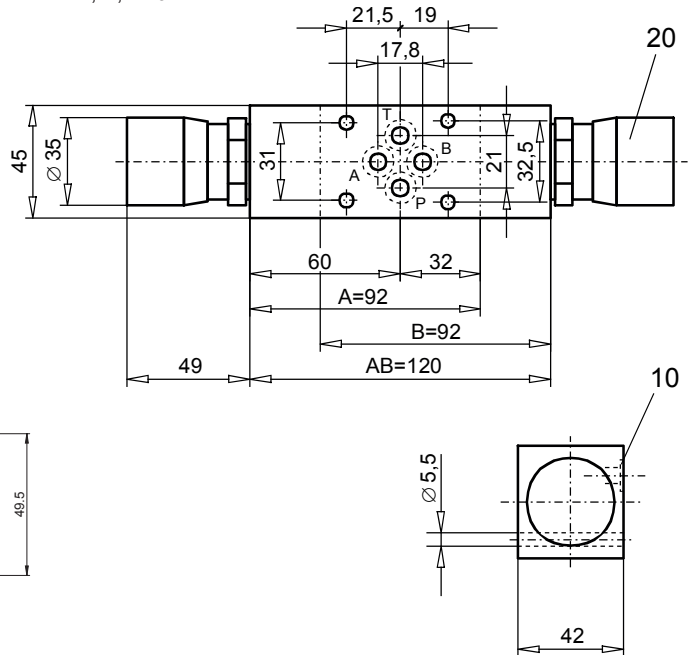
Characteristics ADRP, T and PT can be found on data sheet 2.4-532 (throttle cartridge DNIPM22).

**DIMENSIONS**

ADRP6, ADRT6, ADRPT6



ADRA, B, AB6


**PARTS LIST**

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

**PARTS LIST**

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

Technical explanation see data sheet 1.0-100