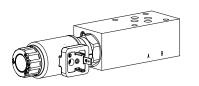


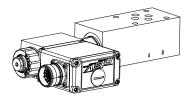
## Proportional throttle valve Flange and sandwich construction

# NG6

- · Direct operated, not pressure compensated
- $p_{max} = 350 \text{ bar}$







#### **DESCRIPTION**

TVDE 00DE

Directly operated proportional throttle valve in sandwich construction. Screw-in cartridge M22x1,5 in accordance with ISO 7789. In sandwich types for A and B line, a by-pass check valve for reversed free flow is in-corporated. Three flow ranges are available. The volume flow is adjusted by a proportional solenoid (VDE standard 0580). The flange body is painted, the sandwich plates are phosphatised.

#### **FUNCTION**

The force controlled proportional solenoid running in the fluid acts directly on the control spool which opens or closes the triangular shaped throttling notches in the cartridge body. The throttle opening, and therefore the flow volume, changes proportionally to the current absorption of the proportional solenoid. When the solenoid is without current, the control spool is held in the closed position by a spring.

To control the valve proportional amplifiers are available from Wandfluh (see register 1.13).

#### **APPLICATION**

Proportional throttle valves are suitable for precise feed control systems. An extremely sensitive opening and closing response allows a smooth control of movements in stationary or mobile installations, e.g. machine tools, public vehicles.

TIPE CODE	
	D N P A06 - #
Throttle valve	
Normally closed	
Proportional	
Flange construction  Sandwich construction  S	
Sandwich construction S	
International standard interface ISO, NG6	
Type list / Function	
Flange construction Sandwich construction	
$A \rightarrow B$ $A/B$ in P P in A A	
in T In B B	
in A and B AB	
Nominal volume flow level, nominal voltage, etc. of the built-in screw-in cartridge	
Examples: DNPFA06 - A/B - 10 - G24/WD - HB0	
DNPSA06 - P - 25 - G12/ME-A1D1	
Design-Index (Subject to change)	

## **GENERAL SPECIFICATIONS**

Description Proportional throttle valve NG6 acc. to ISO 4401-03 Nominal size Construction Flange and sandwich Operations Proportional solenoid

Mounting 4 mounting holes for. cyl. screws M5 or

double ended screws M5 Threaded connection plates Multi-flange subplates

Longitudinal stacking system

Weight Depending on the type m = 1,05...1,65 kg

Connection



### **SCREW-IN CARTRIDGES INSTALLED**

The following screw-in cartridges are used in either the flange body or the sandwich body:

**Data sheet no. Q**<sub>max</sub>\* 2.6-531 32 l/min Designation Туре DNPPM22 normally closed DNPPM22-../ME normally closed,

with integrated electronics



#### REMARK!

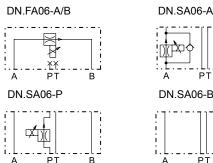
Detailed performance data and additional hydraulic and electric specifications may by drawn from the data sheets of the corresponding installed screw-in cartridge.

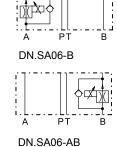


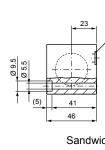
## **CAUTION!**

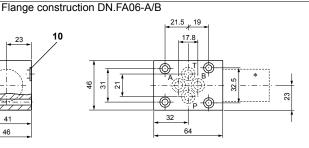
The performace data, especially the "pressure-flow-characteristic,, on the data sheets of the screw-in catridges, refer to the screw-in cartridges only. The additional pressure drop of the flange body, resp. sandwich body must be taken into consideration.

#### **SYMBOLS / DIMENSIONS**

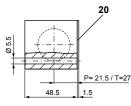


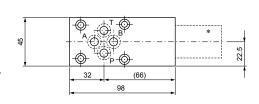




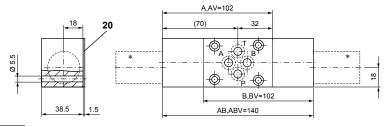


Sandwich construction DN.SA06-P, T





## Sandwich construction DN.SA06-A, B, AB



## **PARTS LIST**

DN.SA06-T

Position	Article	Description
10	160.2093	O-ring ID 9,25x1,78
20	173.3650	Sealing plate ADB6

<sup>\*</sup> The envelop dimensions of the screw-in cartridge are shown on their corresponding data sheets.

## **ACCESSORIES**

Proportional amplifier

Technical explanation see data sheet 1.0-100

Register 1.13

<sup>2.6-541</sup> 32 l/min

<sup>\*</sup> Can deviate from the values on the data sheets of the screw-in cartridges.