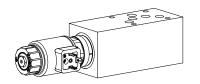
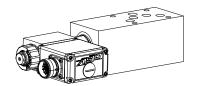


Proportional throttle valve Flange and sandwich construction

NG10 ISO 4401-05

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





DESCRIPTION

Directly operated proportional throttle valve in sandwich construction. Screw-in cartridge M33x2 in accordance with ISO 7789. In sandwich types for A and B line, a by-pass check valve for reversed free flow is incorporated. 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.

TYPE CODE	
	D N P A10 - #
Throttle valve	
Normally closed	
Proportional	
Flange construction F Sandwich construction S	
Sandwich construction S	
International standard interface ISO, NG10	
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: DNPFA10 - A/B - 32 - G24/WD - HB0	
DNPSA10 - P - 63 - G12/ME-A1D1	
Design-Index (Subject to change)	

GENERAL SPECIFICATIONS

Description Proportional throttle valve
Nominal size NG10 acc. to ISO 4401-05
Construction Flange and sandwich
Operations Proportional solenoid

Mounting 4 mounting holes for zyl screws M6 or

double ended screws M6
Threaded connection plates

Multi-flange subplates
Longitudinal stacking system

Weight Depending on the type m = 3,0...6,0 kg

Connection



SCREW-IN CARTRIDGES INSTALLED

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

TypeDesignationData sheet no. Q_{max}^* DNPPM33normally closed2.6-55165 l/minDNPPM33normally closed,

with integrated electronics 2.6-561 65 l/min



REMARK!

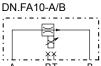
Detailed performance data and additional hydraulic and electric specifications may by drawn from the data sheets of the corresponding installed screw-in cartridge.

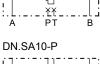


CAUTION!

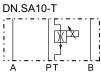
The performace data, especially the "pressure-flow-characteristic., on the data sheets of the screw-in catridges, refer to the screw-in cartridges only. The additional pressure drop of the flange body, resp. sandwich body must be taken into consideration.

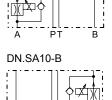
SYMBOLS / DIMENSIONS



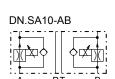




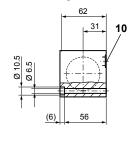


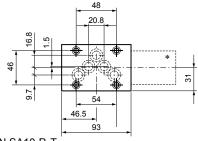


DN.SA10-A

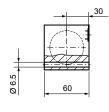


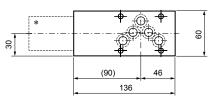
Flange construction DN.FA10-A/B





Sandwich construction DN.SA10-P, T



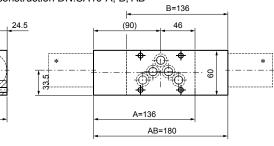


 $\ensuremath{\ast}$ The envelop dimensions of the screw-in cartridge are shown on their corresponding data sheets.

PARTS LIST

Position	Article	Description
10	160.2140	
	400.0400	sandwich construction P, T
	160.2120	O-Ring ID 12,42x1,78 for sandwich construction A, B, AB
	160.2132	O-Ring ID 13,10x2,62 in line with RV

Sandwich construction DN.SA10-A, B, AB



ACCESSORIES

60

Proportional amplifier

Register 1.13

Technical explanation see data sheet 1.0-100

^{*} Can devialte from the values on the data sheets of the screw-in cartridges..