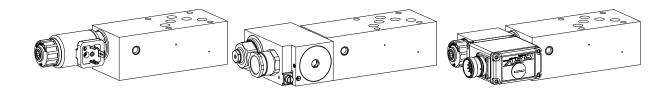


Proportional pressure reducing valve Flange and sandwich construction

NG10 ISO 4401-05

• p_{max}= 400 bar



DESCRIPTION

Pilot operated proportional pressure reducing valves NG10. Flange and sandwich construction according to ISO 4401-05 with 4 ports. Incorporated are proportional pressure reducing cartridges size M22x1,5 according to ISO 7789. The steel bodies for flange constructions are painted with a two component painting and the bodies for sandwich constructions are phosphatized.

FUNCTION

By adjusting the electric current to the proportional solenoid the pressure in the controlled port will be changed proportionally to the solenoid current. A pressure rise in the controlled port above the adjusted value, caused e.g. by an active oil consumer, will be prevented by reliefing excessive flow to the tank line T. This proportional pressure reducing valves are adjustable very sensitivly. To control the valve proportional amplifiers are available from Wandfluh (see register 1.13).

APPLICATION

The valves have their applications in hydraulic systems in which the pressure in a consumer has to remain constant at the adjusted value independently of pressure fluctuations on the supply side. The facility for remote control and signal processing from process control systems enable economical solutions to problems with repeatable sequences.

TYPE CODE A10 -# Pressure reducing valve 2nd and 3rd digit position of the designation od the built-in cartridge Flange construction Sandwich construction S International standard interface ISO, NG10 Type list / Function sandwich construction flange construction P/A in P $P \rightarrow A$ in A Α in B Nominal pressure range, nominal voltage, etc., of the built-in cartridge Design-Index (Subject to change)

Examples: MVPFA10-P/A-100-G24/WD-D1

MVBSA10-A- 200-G12 / L15 / IN MQPSA10-B- 350-G24 / MEA1 - HB0

GENERAL SPECIFICATIONS

Description Pilot operated proportional

pressure reducing valve

Nominal size NG10 according to ISO 4401-05

Constructions Flange or sandwich
Operations Proportional solenoid

Mounting 4 fixing holes for socket head cap screws

M6 or studs M6

Connections Threaded connection plates

Multi-flange subplates Longitudinal stacking system

Weight: • Flange type m = 1,80 kg(without screw-in cartridge) • Sandwich type m = 2,72 kg

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. **2.3-860E** 1/2 Edition 14 04



SCREW-IN CARTRIDGES INSTALLED

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

Туре	Designation	Data sheet no.	Q_{max}^*
MVPPM22	pilot operated	2.3-629	60 l/min
MQPPM22	pilot operated from connection P	2.3-641	40 l/min
MVBPM22	pilot operated, explosion proof Ex d	2.3-635	60 l/min
MVVPM22	pilot operated, with integrated electronics	2.3-632	60 l/min
MQVPM22	pilot operated from connection P,	2.3-643	40 l/min
	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.



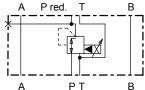
CAUTION!

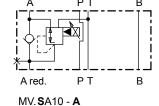
The performace data especially the "pressureflow-characteristic,, on the data sheets of the screw-in catridges refere to the screw-in cartridges only. The additional press-ure drop of the flange body respectivly sandwich body must be taken into consideration.

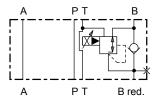
TYPE LIST / FUNCTION

Flange construction:

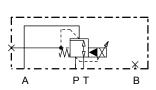
Sandwich construction:



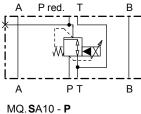




MV. FA10-P/A



MV. SA10 - P



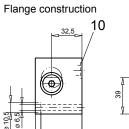
MV. SA10 - B РΤ B red.

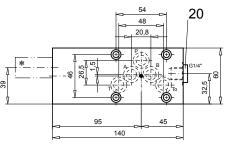
MQ. **S**A10 - **A**

A red

MQ. SA10 - B

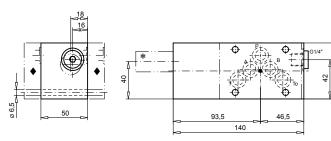
MQ.FA10-P/A **DIMENSIONS**



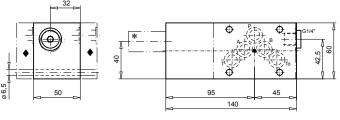


Sandwich construction in A or B

В



Sandwich construction in P



For sandwich red. pressure in B cartridge is located on B-side.

PARTS LIST

Position	Article	Description
10	160.2140	O-ring ID 14,00 x 1,78 (NBR)
20	238.2406	Plug VSTI G1/4"-ED

- The envelop dimensions of the screw-in cartridge are shown on their corresponding data sheets.
- Distance plate ADP10/... must be ordered separatly.

ACCESSORIES

Proportional amplifier	register 1.13
Distance plate ADP10/29,5 (29,5 mm)	art. no. 173.4456

Technical explanation see data sheet 1.0-100

^{*} Can deviate from the values on the data sheets of the scew-in cartridges. ** Do not use anymore for new applications.