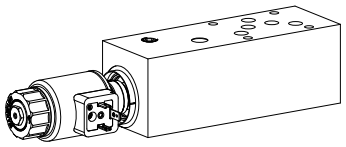
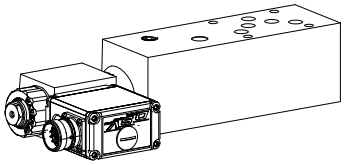
Proportional 3-way flow control valve
Flange- and sandwich construction
- **Direct operated, pressure compensated**
- **p_{max} = 350 bar**

NG10
ISO 4401-05





DESCRIPTION
Direct operated, pressure compensated proportional flow control valve in flange- and sandwich construction. Proportional flow control screw-in cartridges M33x2 acc. to ISO 7789 are installed. The flange body is painted, the sandwich plates are phosphatised.

FUNCTION
The 3-way flow control valve is designed to keep the oil flow to any actuator constant irrespectiv of the load.

APPLICATION
Proportional 3-way flow control valves are used where the supply volume flow has to be kept constant even when the load fluctuates. Depending on the application, a distinction is made between restricting the forward flow or the return flow.

TYPE CODE

Q D P ☐ A10 - ☐ - ☐ # ☐

Flow control valve

3-way

Proportional

Flange construction F
Sandwich construction S

International mounting interface ISO, NG10

Type list / Function

Flange construction A → B [A/B]
Sandwich construction in P [P]

Nominal volume flow level, nominal voltage, etc. of the built-in screw-in cartridge

Examples: QDPFA10 - A/B - [32 - G12/WD - HBO]
QDPSA10 - P - [63 - G24/ME-P1]

Design-Index (Subject to change)

GENERAL SPECIFICATIONS

Description	Proportional 3-way flow control valve	
Nominal size	NG10 acc. to ISO 4401-05	
Construction	Flange- and sandwich construction	
Operations	Proportional solenoid	
Mounting	4 holes for socket cap screws M6 or studs screws M6	
Connection	Threaded connection plates Multi-flange subplate Longitudinal stacking system	
Weight (without screw-in cartridge)	• Flange type • Sandwich type	m = 2,40 kg m = 3,75 kg

SCREW-IN CARTRIDGES INSTALLED

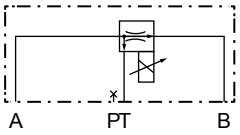
The following screw-in cartridges are used in either the flange body or the sandwich body:

Type	*Description*	*Data sheet no.*	Qmax*
QDPPM33	3-way-construction	2.6-666	100 l/min
QDPPM33-../ME	3-way-construction, with integrated electronics	2.6-668	100 l/min

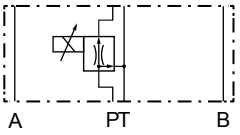
* Can deviate from the values on the data sheets of the screw-in cartridges.

TYPE CHARTS

QD.FA10-A/B



QD.SA10-P

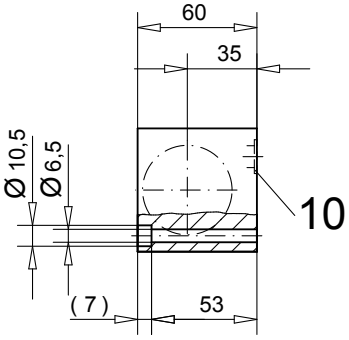


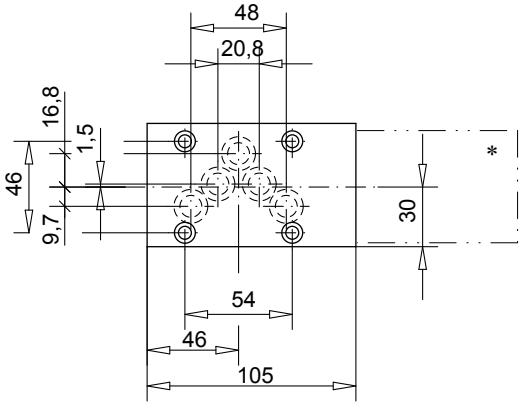
REMARK!
Detailed performance data and additional hydraulic and electric specifications may by drawn from the data sheets of the corresponding installed screw-in cartridge.

CAUTION!
The performace data especially the **„pressure-flow-characteristic„** on the data sheets of the screw-in catridges refere to the screw-in cartridges only. The additional pressure drop of the flange body respectivly sandwich body must be taken into consideration.

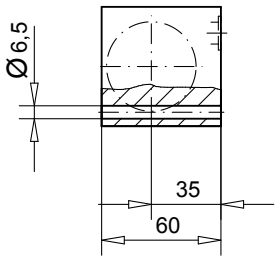
DIMENSIONS

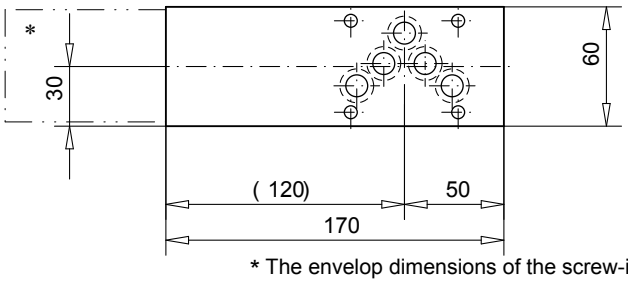
Flange construction QD.FA10-A/B





Sandwich construction QD.SA10-P





***** The envelop dimensions of the screw-in cartridge are shown on their corresponding data sheets.

PARTS LIST

Position	Article	Description
10	160.2140	O-ring ID 14,00x1,78

ACCESSORIES

Proportional amplifier register 1.13

Technical explanation see data sheet 1.0-100