

Pilot operated pressure reducing valve in flange or sandwich const-

ruction. The valve reduces the input pressure to an adjustable output

pressure. Through the integrated pressure relief function, exceeding

the reduced pressure as a result of external forces is avoided. The

pressure reducing valve controls the pressure in the consumer port.

Through increasing the spring tension, the pressure in the consumer

port rises. The valve operates practically independently of the input pressure. Pressure increase in the consumer port to above the adjusted value, e.g. through an active consumer, is avoided by discharging excess oil to the tank. A bypass non-return valve plate for the free flow from A to P can be ordered separately for the flange execution.

## **Pressure reducing valve**

#### Flange- or Sandwich construction

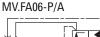
- pilot operated
- ◆ p<sub>max</sub> = 400 bar
- $p_{N \text{ red max}} = 350 \text{ bar}$   $\Omega_{max} = 80 \text{ l/min}$

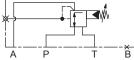
DESCRIPTION

#### **APPLICATION**

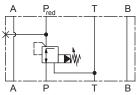
Pressure reducing valves are used to maintain the pressure in a consumer constant independent of pressure fluctuations on the supply side. In the case of several consumers, the pressure of the specific consumers can be individually adjusted by the pressure reducing valve. The integrated pressure relief makes an additional pressure relief valve in the consumer line superfluous.

#### **SYMBOL** Flange execution

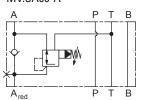




Sandwich execution MV.SA06-P

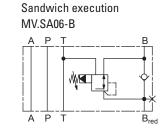


Sandwich execution MV.SA06-A



## **GENERAL SPECIFICATIONS**

Designation	Pressure reducing valve
Construction	Pilot operated
Mounting	Flange- or Sandwich construction
Nominal size	NG6 according to ISO 4401-03
Actuation	Manually
Ambient temperature	-25+70 °C (NBR) -20+70 °C (FKM)
Weight	1,85 kg (Flange construction) 1,62 kg (Sandwich P) 2,00 kg (Sandwich A and B)
MTTFd	150 years

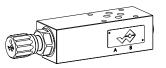


ACTUATION	V
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Actuation	Adjustment spindle M8 x 1
Execution	S = blockable key adjustment
	D = blockable knob adjustment
	Optionally:
	K = lockable adjustment
	G = star handle adjustment
	ightarrow see Data sheet 2.0-50
Actuation angle	$\alpha_{\rm b}$ = 1800 ° (5 rotations)
Actuation stroke	$S_{b} = 5 \text{ mm}$

#### www.wandfluh.com Illustrations are not binding Data subject to change 1/3 Edition: 24 09 2.2-640E

NG6 ISO 4401-03





## **TYPE CODE**

						ΜV	_ A0	ĵ-∟	L	 #	
Pressure reducing valve											
Pilot operated											
Type of adjustment	Key Control knob Cover	S D A									
Flange construction Sandwich construction		F									
International standard interfa	ace ISO, NG6										
Type list / Function	flange construct P → A	ion P / A	ch constru	iction P A B							
Nominal pressure range p <sub>N</sub>	63 bar 160 bar 350 bar	63 160 350									
Sealing material	NBR FKM (Viton)	D1									
Design index (subject to cha	nge)										

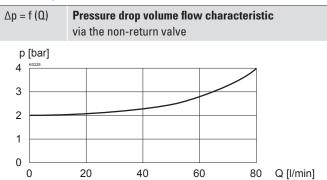
2.2-640

## **HYDRAULIC SPECIFICATIONS**

Working pressure	p <sub>max</sub> = 400 bar
Nominal pressure range	p <sub>N red</sub> = 63 bar, 160 bar, 350 bar
Opening pressure	p <sub>ö</sub> = 2 bar over non-return valve
Volume flow range	Q = 080 l/min
Fluid	Mineral oil, other fluid on request
Viscosity range	12 mm²/s320 mm²/s
Temperature range fluid	-25+70 °C (NBR) -20+70 °C (FKM)
Contamination efficiency	Class 18 / 16 / 13
Filtration	Required filtration grade ß 1016 ≥ 75, see data sheet 1.0-50

## **PERFORMANCE SPECIFICATIONS**

Oil viscosity  $\upsilon = 30 \text{ mm}^2/\text{s}$ 





Detailed performance specifications as well as further hydraulic specifications can be found on the data sheet of the pressure reducing cartridge installed.



The performance data especially the "pressure-flowcharacteristic, 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 conside-

#### **VALVES INSTALLED**

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

Article	Description	Data sheet
		no.
MV.PM22	Pilot operated pressure reducing cartridge	2.2-530
Attention!	* Kann gegenüber dem Wert auf dem Datenblatt der Schraubpatrone abweichen.	

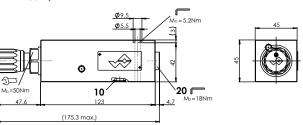
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ration.

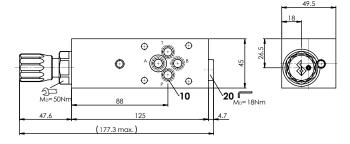


#### **DIMENSIONS**

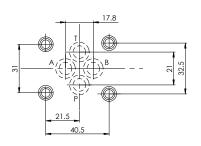




Sandwich execution MVDSA06-A MVDSA06-B (cartridge on B-side)



## **HYDRAULIC CONNECTION**

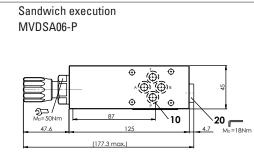


#### **ACCESSORIES**

Adjustment types for screw-in cartridges	Data sheet 2.0-50
Threaded subplates	Data sheet 2.9-05
Multi-station subplates	Data sheet 2.9-45
Horizontal mounting blocks	Data sheet 2.9-85
Technical explanations	Data sheet 1.0-100
Filtration	Data sheet 1.0-50

#### **INSTALLATION NOTES**

Mounting type	Flange or sandwich mounting 4 fixing holes for socket head screws or studs M5
Mounting position	Any, preferably horizontal
Tightening torque	Fixing screws M <sub>p</sub> = 5,2 Nm (quality 8.8, zinc coated) Screw-in cartridge M <sub>p</sub> = 60 Nm





Type of adjustment MVSSA06 Type of adjustment MVASA06





Note!

\* The exterior dimensions or the cartridges can be obtained from the corresponding data sheets.

# **PARTS LIST**

Position	Article	Description
20	238.2406	Screw plug VSTI G1/4"-ED
-	251.2410	Seal kit MV.SA06
-	251.2418	Seal kit MV.SA06 D1
10	0-Ring	<b>Seal kit consisting of</b> ID 9,25 x 1,78

251.2411 Seal kit MVSPM22 251.2417 Seal kit MVSPM22 D1

#### **SURFACE TREATMENT**

• The flange body is painted with a two component paint

• The sandwich bodies are zinc-nickel coated

#### **SEALING MATERIAL**

NBR or FKM (Viton) as standard, choice in the type code

## **STANDARDS**

Mounting interface	ISO 4401-03
Contamination	ISO 4406
efficiency	

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