

Pressure reducing valve, direct operated

RE 26570

Edition: 2018-03 Replaces: 2018-02





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- ► Component series 4X
- ► Maximum operating pressure 350 bar
- ► Maximum flow 50 I/min

Features

► Sandwich plate valve

- ► Porting pattern according to ISO 4401-03-02-0-05 (with or without locating hole)
- ▶ 4 pressure ratings
- ▶ 4 adjustment types, optionally:
 - Rotary knob
 - Bushing with hexagon and protective cap
 - Lockable rotary knob with scale
 - Rotary knob with scale
- ▶ Pressure reduction in channel A, B or channel P
- ► Check valve, optional (version "A" only)
- ► Corrosion-protected design

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Technical data

(For applications outside these parameters, please consult us!)

general		
Weight	kg	ca. 1.2
Installation position		any
Ambient temperature range	°C	-30 +80 (NBR seals) -20 +80 (FKM seals)
MTTF _d values according to EN ISO 13849	Years	150 1200 (for more information see data sheet 08012)

hydraulic			
Maximum operating pressure	▶ Input		
	- Versions "B", "P"	bar	350
	- Versions "A"	bar	315
Maximum secondary pressure	► Output	bar	25; 75; 150; 210; 315 ¹⁾
Maximum counter pressure	► Port T(Y)	bar	160
Maximum flow		l/min	50
Hydraulic fluid			see table below
Hydraulic fluid temperature range °C		−30 +80 (NBR seals)	
			−20 +80 (FKM seals)
Viscosity range mm ² /s		10 800	
Maximum admissible degree of contamination of the hydraulic fluid, cleanliness class according to ISO 4406 (c)		Class 20/18/15 ²⁾	

Hydraulic fluid		Classification	Suitable	Standards	Data sheet
			sealing materials		
Mineral oils		HL, HLP, HLPD	NBR, FKM	DIN 51524	90220
Bio-degradable ³⁾	► Insoluble in water	HETG	FKM	100 15200	
		HEES	FKM	ISO 15380	90221
	► Soluble in water	HEPG	FKM	ISO 15380	5380
Flame-resistant	► Water-free	HFDU (glycol base)	FKM		
		HFDU (ester base) 3)	FKM	ISO 12922	90222
		HFDR ³⁾	FKM		
	► Containing water ³⁾	HFC (Fuchs Hydrotherm 46M, Petrofer Ultra Safe 620)	NBR	ISO 12922	90223

Important information on hydraulic fluids:

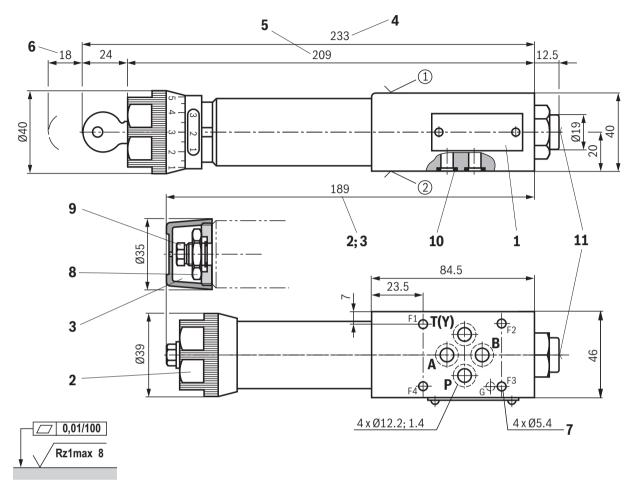
- ► For further information and data on the use of other hydraulic fluids, please refer to the data sheets above or contact us.
- ► There may be limitations regarding the technical valve data (temperature, pressure range, life cycle, maintenance intervals, etc.).
- ► The ignition temperature of the hydraulic fluid used must be 50 K higher than the maximum surface temperature.

► Flame-resistant – containing water:

- Maximum pressure differential 210 bar, otherwise, increased cavitation erosion
- Life cycle as compared to operation with mineral oil HL, HLP $30 \dots 100\%$
- Maximum hydraulic fluid temperature 60 °C

- 1) Only with version "B" and "P"
- 2) The cleanliness classes specified for the components must be adhered to in hydraulic systems. Effective filtration prevents faults and simultaneously increases the life cycle of the components.
 - For the selection of filters, see www.boschrexroth.com/filter.
- 3) In connection with the corrosion-protected version "J3", small amounts of dissolved zinc may get into the hydraulic system.

Dimensions: Version "B" and "P" (dimensions in mm)



Required surface quality of the valve contact surface

- ① component side Porting pattern according to ISO 4401-03-02-0-05 (with or without locating hole); (with locating hole Ø3 x 5 mm deep)
- ② plate side Porting pattern according to ISO 4401-03-02-0-05 (with or without locating hole); (with locating hole for locking pin ISO 8752-3x8-St; version "/60")
 - 1 Name plate
 - 2 Adjustment type "1"
 - 3 Adjustment type "2"
 - 4 Adjustment type "3"
 - **5** Adjustment type "7"
 - 6 Space required to remove the key
 - 7 Valve mounting bores
 - 8 Lock nut SW24
 - 9 Hexagon, wrench size 10
- 10 Identical seal rings for ports A, B, P, T(Y)
- **11** Pressure gauge connection G1/4; 12 deep; internal hexagon SW6

Valve mounting screws (separate order)
4 hexagon socket head cap screws ISO 4762 - M5 - 10.9

M Notes:

- ► Length and tightening torque of the valve mounting screws must be calculated according to the components mounted under and over the sandwich plate valve.
- ▶ The dimensions are nominal dimensions which are subject to tolerances.