Mobile

Hydraulics



RE 25408/01.05 1/6

# Pressure relief valve, directly operated

# Type DB6D

Nominal size 6 Unit series 1X Maximum working pressure 315 bar Maximum flow rate 60 l/min

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## **Features**

- For subplate mounting

- 3 pressure setting elements, choice of:
- Sleeve with hexagon socket
- Rotary knob, lockable, with scale
- Rotary knob with scale

## Ordering data and scope of delivery



<sup>1)</sup> 2H key included in scope of delivery

## Preferred types (available at short notice)

Туре	Material No.	Setting	Symbols
DB6DPW2-1X/80V	0 811 105 215		
DB6DPW2-1X/160V	0 811 105 216		
DB6DPW2-1X/315V	0 811 105 217		
DB6DPW7-1X/80V	0 811 105 218	RACO	M×∳-
DB6DPW7-1X/160V	0 811 105 219		
DB6DPW7-1X/315V	0 811 105 220		
DB6DPW3-1X/80V	0 811 105 221	RACO	
DB6DPW3-1X/160V	0 811 105 222		
DB6DPW3-1X/315V	0 811 105 223		Horizontal
DB6DPBW2-1X/80VW65	0 811 105 224		
DB6DPBW2-1X/160VW65	0 811 105 225		
DB6DPBW2-1X/315VW65	0 811 105 226		
DB6DPBW7-1X/80VW65	0 811 105 227	$\Box$	
DB6DPBW7-1X/160VW65	0 811 105 228		
DB6DPBW7-1X/315VW65	0 811 105 229	A A A A A A A A A A A A A A A A A A A	
DB6DPBW3-1X/80VW65	0 811 105 230	0	
DB6DPBW3-1X/160VW65	0 811 105 231		
DB6DPBW3-1X/315VW65	0 811 105 232		Vertical

### Function, sectional diagram

#### General

Type DB 6 D pressure valves are directly operated pressure relief valves.

They are used to limit the system pressure.

Pressure relief valves essentially consist of the main valve (1) with main piston insert (2) and the pressure setting element (3).

The pressure arising in the P-duct acts on the main piston (2). If the pressure in the P-duct exceeds the value set at the spring (5), the poppet (4) opens towards the spring (5) and the main piston (2) can then move against the spring. This causes pressure fluid to flow from duct P to T via the metering notch (6).



#### **Technical data**

#### General

Valve function			Pressure relief valve, directly operated
Type of mounting			Subplate, mounting hole configuration NG6, ISO 6264
Mounting position			Optional
Ambient temperature range		°C	-25+50
Weight	Horizontal	kg	1.4
	Vertical	kg	1.1

#### Hydraulic

-		
Pressure fluid		Mineral oil (HL, HLP) to DIN 51524, rapidly biodegradable pressure fluids to VDMA 24568 (also see RE 90221), HETG (rapeseed oil), HEPG (polyglycols), HEES (synthetic ester), other pressure fluids available on request
Maximum permissible degree of contamination of pressure fluid Purity class to ISO 4406 (c)		Class 20/18/15 <sup>1)</sup>
Pressure fluid temperature range	°C	-25+80
Seals		FPM (Viton <sup>®</sup> Dupont)
Viscosity range	mm²/s	10500
Max. setting pressure	bar	80, 160 or 315
Max. working pressure	bar	315
Max. flow rate	l/min	60

<sup>1)</sup> The purity classes stated for the components must be complied with in hydraulic systems.

Effective filtration prevents problems and also extends the service life of components.

For a selection of filters, see catalog sections RE 50070, RE 50076 and RE 50081.

# Characteristic curves ( $v = 35 \text{ mm}^2/\text{s}$ )

#### Horizontal setting

Vertical setting

















## Unit dimensions (nominal dimensions in mm)



#### Unit dimensions (nominal dimensions in mm)



#### Bosch Rexroth AG

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