Service

Pressure sequence valve, direct operated

RE 26076/04.07 Replaces: 02.03

K 4297-9

1/6

Type DZ 6 DP

Nominal size 6 Series 5X Maximum operating pressure 315 bar Maximum flow 60 l/min

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Symbols	2	bore), (ordering code/60)
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Unit dimensions	5	 4 adjustment elements, optional: Rotary knob Set screw with hexagon and protective cap Lockable rotary knob with scale

- Lockable rotary knob with scale
- Check valve, optional

Informationen zu lieferbaren Ersatzteilen: www.boschrexroth.com/spc

Order code

DZ 6 D	P	-5X/				*	
Pressure sequence valve NG6, direct							Further details in clear text
operated						No code = $/60^{3}$ =	without locating pin hole with locating pin hole
Rotary knob	= 1						Seal material
Set screw with hexagon and protective cap Lockable rotary knob with scale ¹⁾ Rotary knob with scale	= 2 = 3 = 7				No co V =	ode =	NBR seals FKM seals (other seals on request)
Series 50 to 59 (50 to 59: unchanged installation and connectsions)	= t	5X en-			Т	he compatibi fluid f	Attention! lity of the seals and pressure has to be taken into account!
Max. sequence pressure 25 bar Max. sequence pressure 75 bar		= 25 = 75		No c M =	ode =		with check valve without check valve
Max. sequence pressure 150 bar Max. sequence pressure 210 bar Max. sequence pressure 315 bar		= 150 = 210 = 315 ²⁾	No c	ode =	= Extern	Internal pile	ot oil supply, internal leakage oil drain
¹⁾ H-key with Material No. R900008158			Y =	- 1	Interna	al pilot oil sup al pilot oil sup	ply, external leakage oil drain ply, external leakage oil drain

¹⁾ H-key with Material No. **R900008158** is included within the scope of supply.

- $^{2)}$ Only with adjustment element "2" and without check value $% ^{2)}$
- ³⁾ Locating pin ISO 8752-3x8-St, Material No. R900005694 (separate order)

Standard types

Туре	Material number
DZ 6 DP2-5X/25Y	R900403077
DZ 6 DP2-5X/75Y	R900481060
DZ 6 DP2-5X/150Y	R900481061
DZ 6 DP2-5X/210Y	R900481062
DZ 6 DP2-5X/315YM	R900513984

Preferred types and standard components are highlighted in the RPS (Standard Price list).

Symbols



Function, section

The valve type DZ 6 DP is a direct operated pressure sequence valve. It is used for the pressure dependent connection of a second system. The setting of the sequence pressure is via the adjustment element (4).

The compression spring (3) holds the control spool (2) in its initial position, the valve is closed. The pressure in port P is applied to the piston area of the control spool (2) via the control line (6) at the opposite side to the spring (3).

When the pressure in port P reaches the set value of the spring (3), then the control spool (2) is moved to the left and the connection P to A is opened. The system connected to port A is connected without a pressure decrease occuring in port P.

The control signal originates internally via the control line (6) from port P or externally via port B (X).

Depending on the use of the valve the leakage oil drain is externally via port T (Y) or internally via A.

Attention!

With **internal** leakage oil drain the **set** opening pressure **in-creases** by the pressure present in port "A".

For the free return of the pressure fluid from port A to port P a check valve (5) may optionally be installed.

A pressure gauge port (1) enables the monitoring of the sequence pressure set at the valve.





Technical data (for applications outside these parameters, please consult us!)

General

Woight ka	Approx 1.0
vveight kg	Approx. 1.2
Installation	Optional
Ambient temperature range °C	-30 to +80 (NBR seals) -20 to +80 (FKM seals)

Hydraulic

115 60 5; 75; 150; 210; 315
60 5; 75; 150; 210; 315
25; 75; 150; 210; 315
0
Aineral oil (HL, HLP) to DIN 51524 ¹⁾ ; Fast bio-degradable ressure fluids to VDMA 24568 (also see RE 90221); HETG rape seed oil) ¹⁾ ; HEPG (polyglycols) ²⁾ ; HEES (synthetic ester) ²⁾ ; other pressure fluids on request
30 to +80 (NBR seals) 20 to +80 (FKM seals)
0 to 800

¹⁾ Suitable for NBR and FKM sesals

²⁾ **Only** suitable for FKM seals

³⁾ The cleanliness class stated for the components must be adhered too in hydraulic systems. Effective filtration prevents faults from occurring and at the same time increases the component service life. For the selection of filters see catalogue sheets RE 50070,

RE 50076, RE 50081, RE 50086, RE 50087 and RE 50088.

Characteristic curves (measured with HLP46, $\vartheta_{oil} = 40 \text{ °C} \pm 5 \text{ °C}$)







1 via check valve, flow from A to P



Unit dimensions (dirmensions in mm)



- 1 Name plate
- 2 Adjustment element "1"
- 3 Adjustment element "2"
- 4 Adjustment element "3"
- 5 Adjustment element "7"
- 6 Space required to remove the key
- 7 Valve fixing holes
- 8 Locknut 24A/F
- 9 Hexagon 10A/F
- **10** Same seal rings for ports A, B(X), P, T(Y)
- **11** Pressure gauge connection G1/4; 12 deep; internal hexagon 6A/F
- 12 Without check valve
- **13** With check valve

 14 Connection location to DIN 24340 Form A (without locating bore), or ISO 4401-03-02-0-05 (with locating bore for locating pin ISO 8752-3x8-St, Material No. R900005694, order separately)

Subplates to data sheet RE 45052 (order separately)

(without locating bore) G 341/01 (G1/4) G 342/01 (G3/8) G 502/01 (G1/2) (with locating bore) G 341/60 (G1/4) G 342/60 (G3/8) G 502/60 (G1/2) Valve fixing screws (order separately) 4 socket head cap screws (SHCS) ISO 4762 - M5 x 50 - 10.9-flZn-240h-L friction coefficient $\mu_{total} = 0.09$ bis 0.14, tightening torque $M_T = 7$ Nm \pm 10%, material number R913000064

Pipe thread (G..) to ISO 228/1

Notes

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