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Pressure sequence valve direct operated

Type DZ6DP...L5X

Size 6
up to 315 bar
up to 60 L/min

Contents

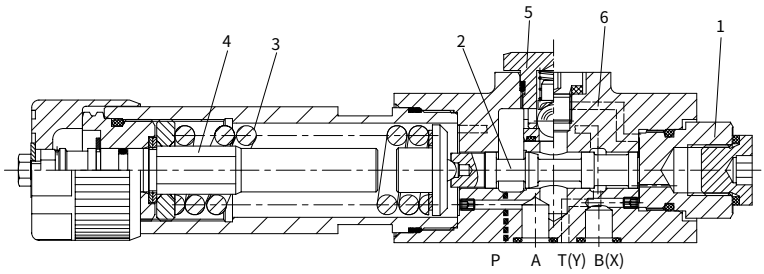
Features

- Direct operated
- Porting pattern to DIN 24 340, form A and ISO 4401
- 5 pressure ratings
- 2 adjustment elements:
  • Rotary knob
  • Adjustable bolt with protective cap
- Pressure gauge connection
- Check valve, optional

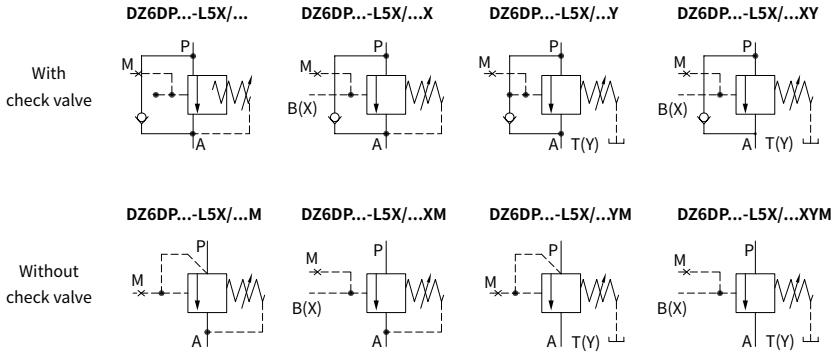
Function and configuration

The valve type DZ6DP is a direct operated pressure sequence valve. It is used for the switching over for pressure dependent connection of a secondary system. The sequence pressure is setting via the adjusting element(4).
The spring (3) holds the control spool (2) in the neutral position, the valve is blocked. The pressure in channel P is acting at the end surface of the control spool (2) opposite the spring (3) via the control line (6). If the pressure in channel P reaches the setting value of the spring(3), the control spool (2) is moved to the left and the connection P to A is opened. In this case, fluid flows from channel P to A without pressure drop in channel P.
The control signal is adopted internally via the control line (6) from channel 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.

Type DZ6DP1-L5X/...



Symbols



Ordering code

DZ6DP | – L5X / | | / | | ★

Direct operated pressure sequence valve nominal size 6

Rotary knob =1
Adjustable bolt with protective cap =2

Series L50 to L59 = L5X
(L50 to L59 series: unchanged installation and connection dimensions)

Max. secondary pressure 25 bar =2.5
Max. secondary pressure 75 bar =7.5
Max. secondary pressure150 bar =15
Max. secondary pressure 210 bar =21
Max. secondary pressure 315 bar =31.5 (Note 1)

Further details in clear text

No code = NBR seals
V = FKM seals

Pressure tapping thread
No code = Incha thread
2 = Metric thread

No code = With check valve
M = Without check valve

No code = Pilot oil supply internal, oil drain internal
X = Pilot oil supply external, oil drain internal
Y = Pilot oil supply internal, oil drain external
XY = Pilot oil supply external, oil drain external

Notes 1: 315bar only for adjustment form "2"and without check valve .

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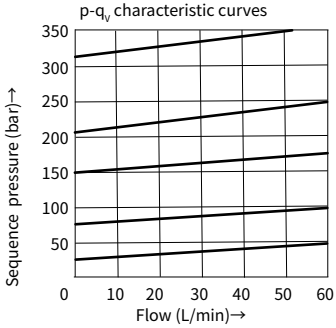
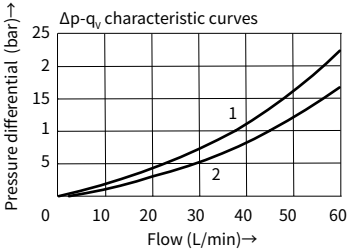
Technical data

Fluid			Mineral oil suitable for NBR and FKM seal
			Phosphate ester for FKM seal
Fluid temperature range		°C	-30 to +80 (NBR seal)
			-20 to +80 (FKM seal)
Viscosity range		mm^2/s	10 to 800
Degree of contamination			Maximum permissible degree of fluid contamination: Class 9. NAS 1638 or 20/18/15 , ISO4406
Max. operating pressure	Port P, A, B(X)	bar	315
	Port T(Y)	bar	160
Max. adjustable sequence pressure		bar	25; 75; 150; 210; 315
Max. flow-rate		L/min	60
Weight		kg	Approx. 1.6

Characteristic curves (Measured at ϑ_{oil} =40°C ±5°C , using HLP46)



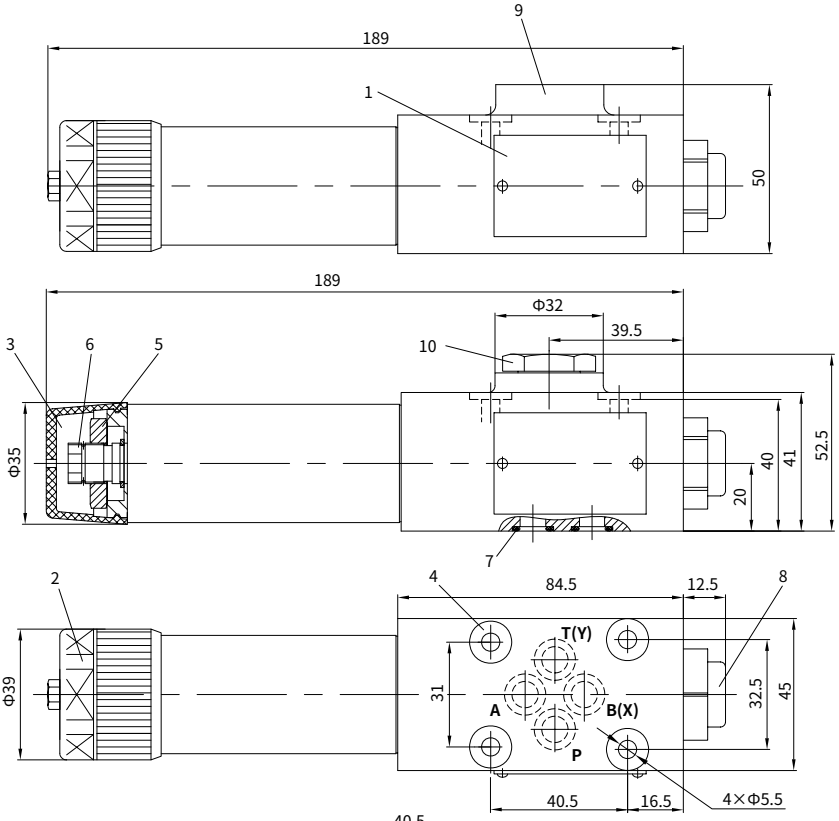
1. Δp-qV characteristic curves A to P via check valve
2. Δp-qV characteristic curves P to A



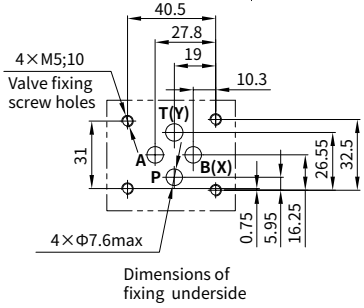
The characteristic curves are valid for output pressure = zero in the complete flow range.

Unit dimensions

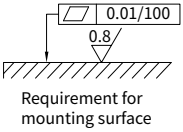
(Dimensions in mm)



1 Name plate
2 Adjustment element "1"
3 Adjustment element "2"
4 Valve mounting holes
5 Lockable screw S=24
6 Internal hexagon bolt S=10
7 O-rings 9.25×1.78
(Ports A, B, P, T)
8 Pressure gauge connection
G1/4 or M14×1.5, 12 deep
Hexagon wrench S=6
9 Without check valve
10 With check valve



Dimensions of
fixing underside



Requirement for
mounting surface

Valve mounting screws:
GB/T 70.1- M5×50-10.9 internal hexagon screw
Tightening torque M_A =8.9Nm

It must be ordered separately,
if connection plate is need
Type: G341/01(G1/4), G341/02 (M14×1.5)
G342/01(G3/8), G342/02 (M18×1.5)
G502/01(G1/2), G502/02 (M22×1.5)