

3.21

Pressure sequence valve direct operated

Type DZ6DP...L5X

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



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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

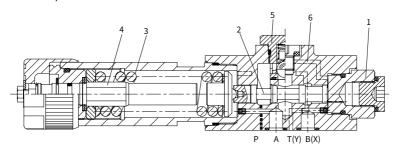
Function and configuration

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).

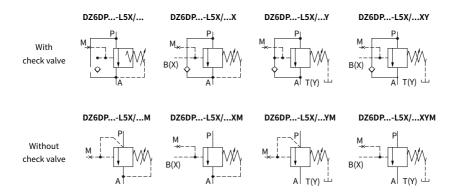
The spring (3) holds the control spool (2) in the neutral position, the valve is blocked. The pressure in channel P is acting at the end surface of the control spool (2) opposite the spring (3) via the control line (6). If the pressure in channel P reaches the setting value of the spring(3), the control 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/...

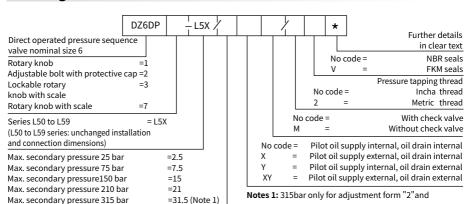


Symbols



without check valve.

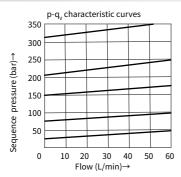
Ordering code



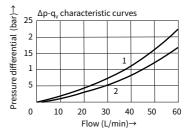
Technical data

			T	
Fluid			Mineral oil suitable for NBR and FKM seal	
Fiuld			Phosphate ester for FKM seal	
Fluid temperature range °C		°C	-30 to +80 (NBR seal)	
		C	-20 to +80 (FKM seal)	
Viscosity range		mm²/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 \pm 5°C, using HLP46)

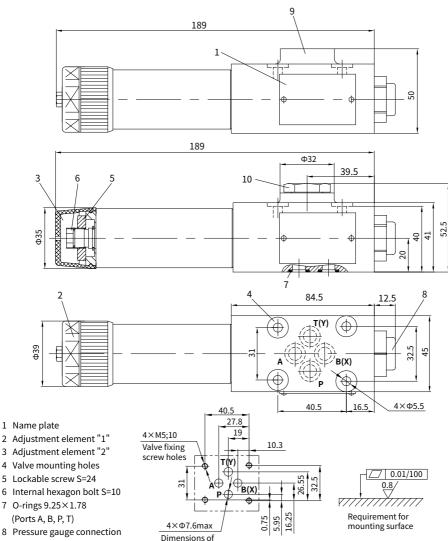


1. Δp-qV characteristic curves A to P via check valve 2. Δp-qV characteristic curves P to A



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

Unit dimensions (Dimensions in mm)



- 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

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)

fixing underside



3.22

Pressure sequence valve direct operated

Type DZ10DP...L4X

Size(NG)10 Up to 210 bar Up to 80 L/min

Unit dimensions



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Features

- Direct-acting structure
- Mounting face meeting requirements for DIN24340 A and ISO4401
- 4 pressure ranges
- 2 adjustment forms Knob
 - · Knob

04

- · Adjusting screw with protective cover
- Connector with pressure gauge
- Selectable one-way valve

Function and configuration

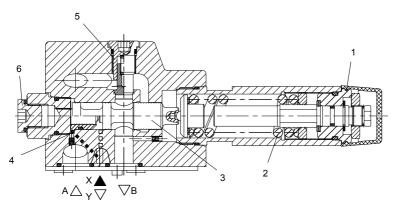
DZ10DP sequence valve is direct-acting valvelt is for sequence switching related with secondary loop and pressure. Set sequence pressure through adjusting elements (1).

Compression spring (2) holds valve element (3) in initial position and the valve is closed. Pressure of Port A enters the valve element end through control route (4), of which the produced force acting on the valve element (3) on the opposite side of spring (2).

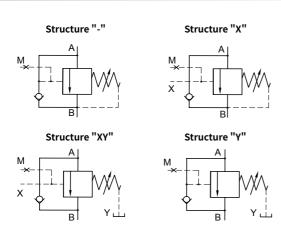
When the pressure reaches the set valve of spring (2), valve element (3) is pushed to connect port A and B; systems connected with oil port B is connected in sequence while the pressure of port A will not drop; control signal is acquired from port A via control route (4) or acquired from the outside via port X.

According to the valve purpose, leaked oil can return from the outside of port Y or the inside of port B.

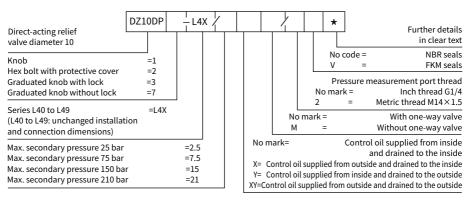
Type: DR10DP1-L4X/...Y



Symbols



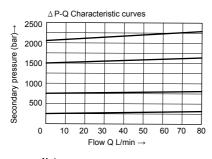
Ordering code



Technical data

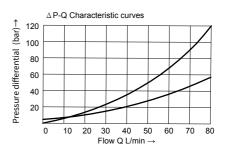
Fluid			Mineral oil suitable for NBR and FKM seal
Fluid			Phosphate ester for FKM seal
Fluid temperature range °C		°C	-30 to +80 (NBR seal)
		C	-20 to +80 (FKM seal)
Viscosity range mm ² /S		mm²/S	10 to 800
Degree of contamination			Maximum permissible degree of fluid contamination: Class 9. NAS 1638 or 20/18/15, ISO4406
Max operation	oil port P, A, B(X)	bar	210
pressure	Oil port T(Y)	bar	160
Max sequence pressure set (adjustable) with port B bar		bar	25; 75; 150; 210
Max flow L/min		L/min	80
Weight kg		kg	About 3

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



Note:

This work curve is effective to the relief function in case of outlet pressure = 0 within the overall range.

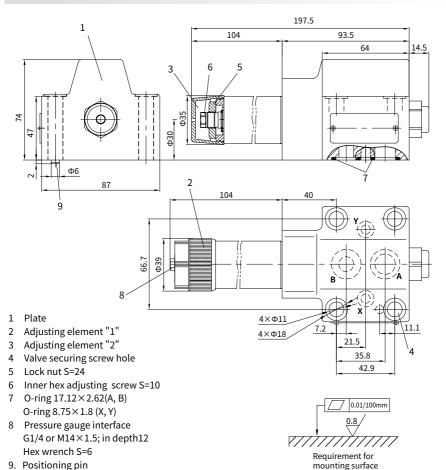


ΔP-Q- characteristic curve, flowing via one-way valve B to A.

ΔP-Q characteristic curve, A to B

Unit dimensions

(Dimensions in mm)



It must be ordered separately, if connection plate is need

Type: G460/01(G3/8); G46101(G1/2)

Valve securing screw:

M10×60 as per GB/T70.1- class 10.9 Socket head cap screw Tightening torque M_A=75Nm