### Direct Operated Pressure Sequence Valve Model: DZ10DP...4X



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### Function description, sectional drawing

The DZ10DP valve is direct operated sequence valve, it is used for sequence switching of the secondary circuit pressure. The sequence pressure is setting via the adjusting element (1).

The compression spring (2) holds the spool(3) in initial position, the valve is closed. The pressure in port A passes into the spool area via control line (4) to form a force which acts on the spool (3) opposite the compression spring (2). When the pressure reaches the setting value of the spring (2), the spool (3) is moved to connect port A and B. The systems connected with port B is sequenced while the pressure in port A will not drop. The control signal is obtained from port A via control line (4) or internally via port X. Based on the valve application, the leakage oil can return externally via port Y or internally via port B.

# Notice!

For internal drainage, the set opening pressure increases the pressure in port B. The fluid oil can flow freely from port B to port A via installing check valve. Pressure gauge connection (6) is used to monitor the set sequential pressure.



#### Functional symbols



### Technical parameters

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	Overview					
	Installation position		optional			
	Environment temperature range	°C	-30 to +50 (NBR seal)			
			–20 to +50 (FKM seal)			
	Weight	Kg	About 1.2			

Hydraulic				
Maximum working pressure port P, A, B(X) bar		to 210		
port T(Y)	bar	to 160		
Max. sequencing pressure (adjustable)	bar	to 25; to 75; to 150; to 210		
Max. flow	L/min	to 80		
Medium		Mineral oil (HL, HLP) <sup>10</sup> in accordance with DIN 51524; Fast living organisms degraded oil according to VDMA 24568; HETG (Rapeseed oil) <sup>10</sup> ; HEPG(Polyethyleneglycol) <sup>20</sup> ; HEES (Synthetic Fats) <sup>2</sup>		
Hydraulic oil temperature range	°C	-30 to +80 (NBR seal)		
	°C	-20 to +80 (FKM seal)		
Viscosity range	mm²/s	10 to 800		
Cleanliness of oil <sup>3)</sup>		The maximum allowable pollution level of oil is ISO4406 Class 20/18/15		

1) For NBR seal and FKM seal.

2) Only for FKM seal.

3) The oil must meet the cleanliness degree requested by the components in the hydraulic system. Effective oil filtration can prevent failure and increase the service life of the components.

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### Characteristic curve

(Measured when using HLP46,  $\vartheta_{al}$ =40°C ± 5°C)



The characteristic curve is valid for an outlet pressure =0 over the entire flow range!



 $\bigtriangleup p\text{-}q_v$  -characteristic curve, B to A via check valve  $\triangle p - q_v$ -characteristic curve, A to B

73.5

Model DZ10DP...-4XJ/...



Size unit: mm

NNN