Direct Operated Pressure Reducing Valve

Model: DR6DP...5X



05

Component size

• Check valve, optional

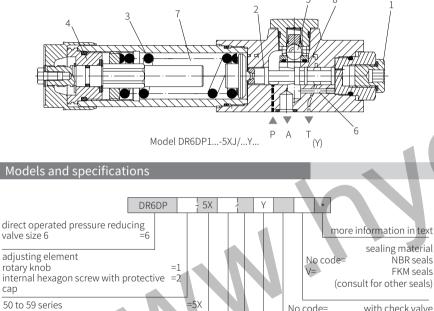
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Function description, sectional drawing

The DR6DP valve is a 3-way direct operated pressure reducing valve and have relief function of the secondary pressure. It is used to reduce the system pressure. The secondary pressure is set via the adjusting element (4). At rest, the valve is normally open, the fluid can flow freely from port P to port A. The pressure at port A acts on the spool face of compression spring(3) via control line (6). When the pressure in port A exceeds the setting value of the compression spring (3), the control spool (2) moves into the control position and the pressure at port A remains constant. The control signal and control oil are supplied internally from port A via the control line (6).

If the pressure at port A continues to increase due to external forces acts on the actuator, the control spool (2) will still move towards the compression spring (3), then the port A is connected to the oil tank via the shoulder (8) at the control spool (2). The sufficient oil flows back to the tank to prevent further pressure increase at port A. The oil in the spring chamber (7) is drained external to the oil tank via port T(Y).

An optional check valve (5) allows the oil to flow freely from port A to port P, and the pressure gauge connection (1) is used for secondary pressure monitoring of the valve.

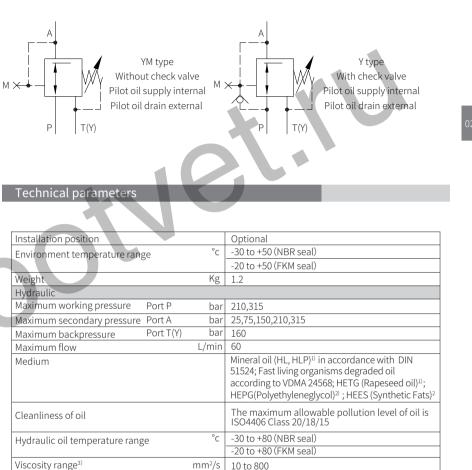


(50 to 59 series: installation and connection size unchanged) Y= maximum secondary pressure 25bar =25 =75 maximum secondary pressure 75bar =150 maximum secondary pressure 150bar =210 maximum secondary pressure 210bar

	No co V=	sealing material le= NBR seals FKM seals (consult for other seals)
No M=	code=	with check valve without check valve

pilot oil supply internal pilot oil drain external

Functional symbols



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.

1) Only with adjusting element "2" and without check valve

maximum secondary pressure 315bar

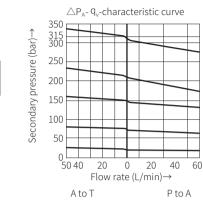
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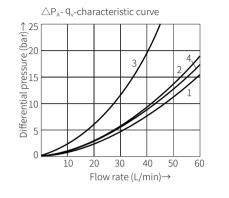
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Characteristic curve

(Measured when using HLP46, $\vartheta_{\rm oil}$ =40°C \pm 5°C)

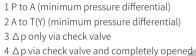




Note:

When the setting pressure is low, the characteristic curve remains within the corresponding pressure level range.

The characteristic curves are valid for an outlet pressure = 0 over the entire flow range!



control cross-section

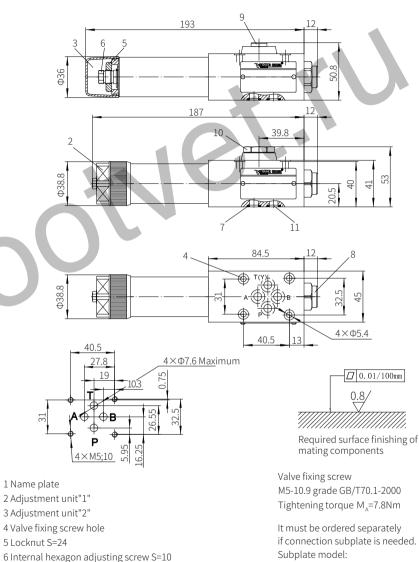
Component size

Model DR6DP...-5XJ/...

7 O ring 9.25x1.78 (for port P, A, B, T)

9 Without check valve 10 With check valve 11 Port B without function

8 Pressure gauge connection G1/4 or M14X1.5, 12 deep



02

Size unit: mm

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G341/01 (G1/4"); G341/02(M14x1.5)

G342/01 (G3/8"); G342/02(M18x1.5)

G502/01 (G1/2"); G502/02(M22x1.5)