



DB...K...type Cartridge Pilot Relief Valve

DB...K...4XJ...type



Max. Working Pressure: 315 bar Max. Flow: 60 L/min (size6) 100 L/min (size10)



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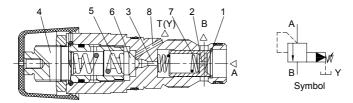
02

- Cartridge valve4 pressure ratings
- 4 adjustment elements:
- · Rotary knob
- Adjustable bolt with protective cap
- · Lockable rotary knob with scale
- · Rotary knob with scale

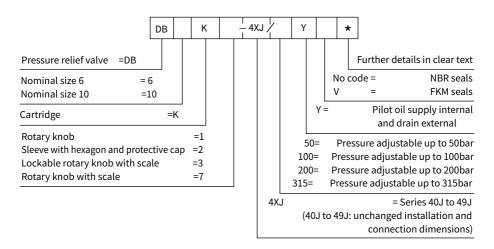
Function and configuration

DB..K.. type valve is a pilot operated pressure relief valves for installation in manifolds. It is used to limit the pressure in a hydraulic system. The system pressure is set via adjustment element (4). At static position, the valves are closed. Pressure in port A acts on the spool (1). Pressure fluid flows through orifice (2) to the spring loaded side of the spool (1) and through orifice (3) to the pilot poppet (6). If the pressure in port A rises beyond the value setting at spring (5), the pilot poppet (6)opens. Fluid can flow from the spring loaded side of spool (1), orifice (3), and channel (8) into port T(Y). The pressure drop moves spool (1) to open the connection from A to B, while the setting pressure at spring (5) is maintained. Pilot oil returns from the two spring chambers via port T(Y) externally.

Type DB10K2-4XJ/Y...



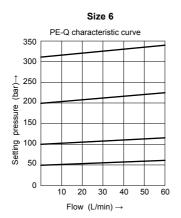
Specification

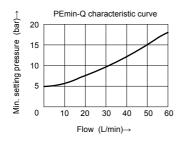


Technical data

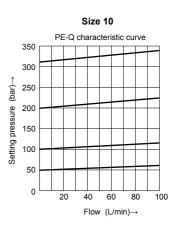
Size		6	10
Fluid		Mineral oil suitable for NBR and FKM seal	
		Phosphate ester for FKM seal	
Fluid temperature range	°C	-30 to +80 (NBR seal)	
		-20 to +80 (FKM seal)	
Viscosity range	mm²/s	10 to 800	
Dograp of contamination		Maximum permissible degree of fluid contamination:	
Degree of contamination		Class 9. NAS 1638 or 20/18/15, ISO4406	
Max.operating pressure	bar	315	
Max.setting pressure	bar	50; 100; 200; 315	
Max. flow-rate	L/min	to 60	to 100
Weight	kg	Approx. 0.22	Approx. 0.3

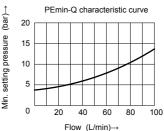
Characteristic curves (Measured at t=40°C ±5°C, using HLP46)



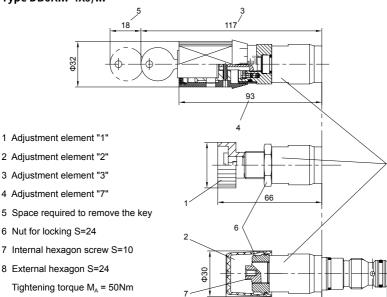


The curves are measured at zero back pressure.





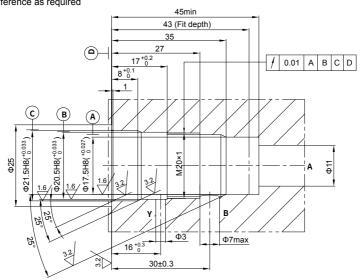
·Type DB6K...-4XJ/...



60

42.5

9 Port B arranged around circumference as required



Unit dimensions

·Type DB10K..-4XJ/...

