

## PRESSURE REDUCING VALVE



### Technical Specification

Specification	03	06
Maximum working pressure (Bar)	315	
Max. Flow (L/min)	150	300
Working fluid	Mineral oil; phosphate-ester	
Fluid temp. (°C)	-20~70	
Viscosity (mm <sup>2</sup> /s)	12~380	
Working press (MPa)	50	100 200 315
Cleanliness	The maximum allowable cleanliness of the oil should be according to 9th degree of Standard NAS 1638. It is suggested that the minimum filter rating should be $\beta_{10} \geq 75$ .	

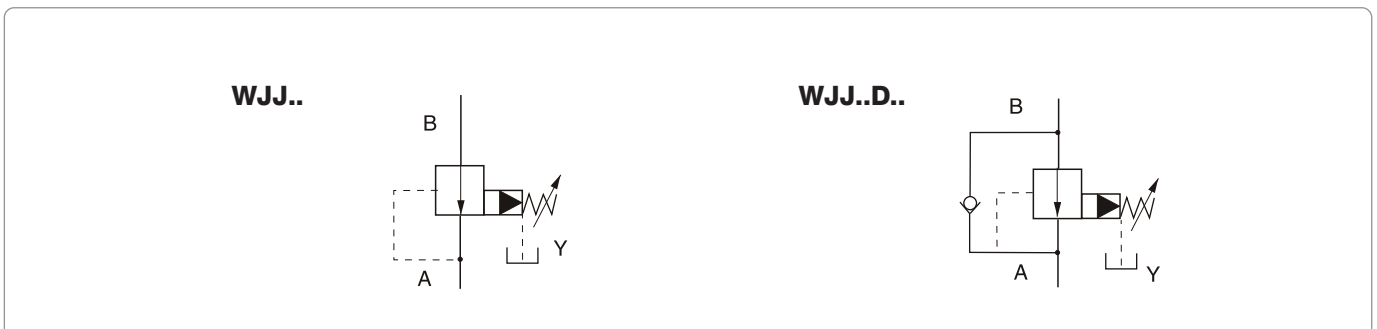
The WJJ pilot-operated reducing valve is controlled by the pilot and mainly used to reduce the pressure of a certain loop in the hydraulic system. With plate or pipe mounting options, it is suitable for hydraulic systems with a large flow rate.

### Model Description

**WJJ \* - \* - \* \* - \* Y / \* \* 50 \***

<p>Pressure Reducing Valve</p> <p>Pilot operated valve Omit : Pilot operated without main cartridge (not marked diameter) C : Pilot operated with main cartridge (marked diameter)</p> <p>Specification 03 : DN10 06 : DN20</p> <p>Omit : Subplate type connection</p> <p>Working press 50 : to 50 Bar 100 : to 100 Bar 200 : to 200 Bar 315 : to 315 Bar</p>	<p>Remarks</p> <p>Serial number</p> <p>Seal material Omit : NBR Seals V : FPM Seals</p> <p>Pilot operated drainage port thread Omit : G1/4" M : M14X1.5</p> <p>1 Rotary knob 2 Sleeve with hexagon and protective cap</p> <p>Omit : Without check valve D : With check valve</p>
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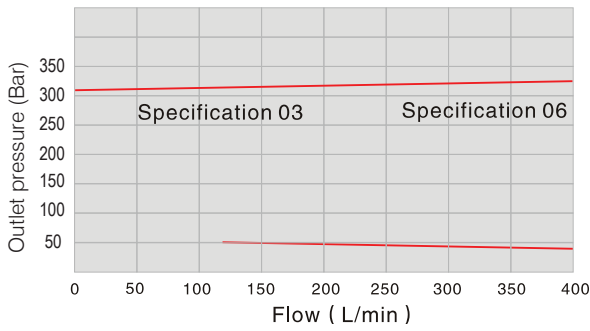
### Code Symbol



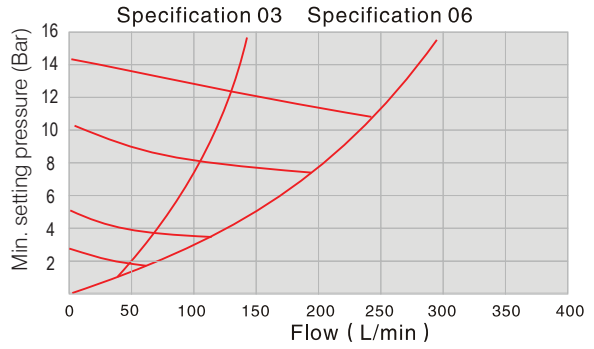
**PRESSURE REDUCING VALVE**

Performance Curve ( Test condition: Test under  $v=41\text{mm}^2/\text{s}$  and  $t=50^\circ\text{C}$  )

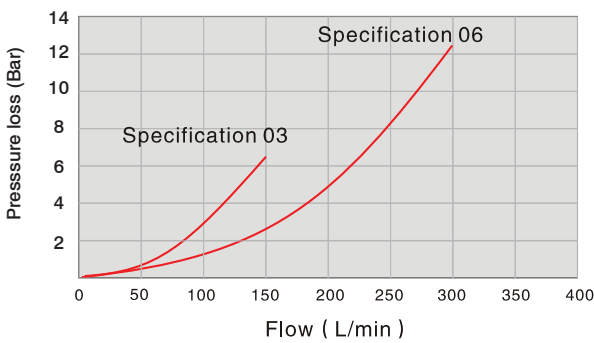
Inlet pressure in relation to the flow



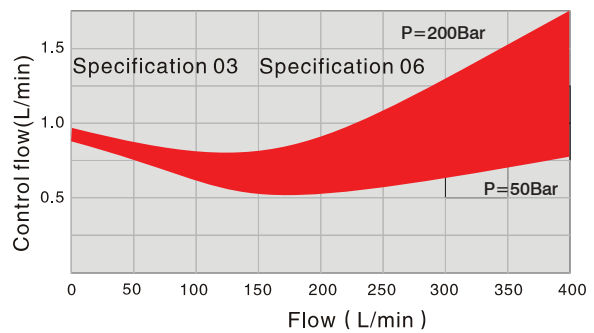
Minimum settable pressure in relation to the flow (A→B) (=bypass pressure version "...X...")



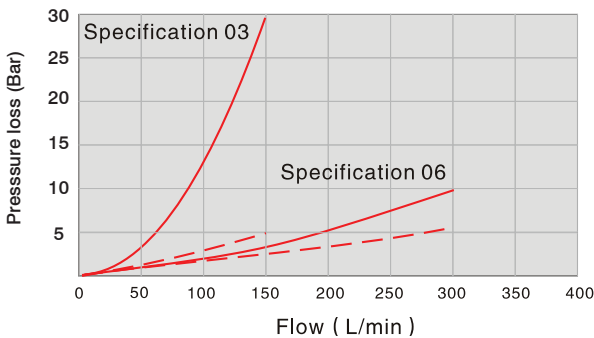
Inlet pressure in relation to the flow



Inlet pressure in relation to the flow



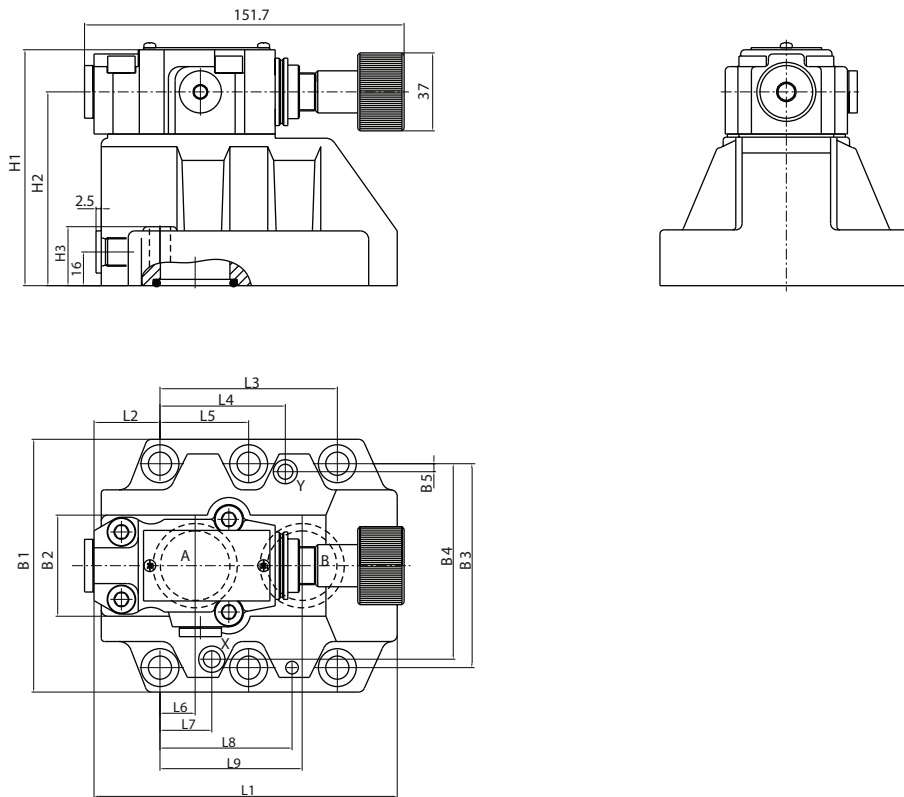
The curve  $\Delta$  P-Q pass through the check valve



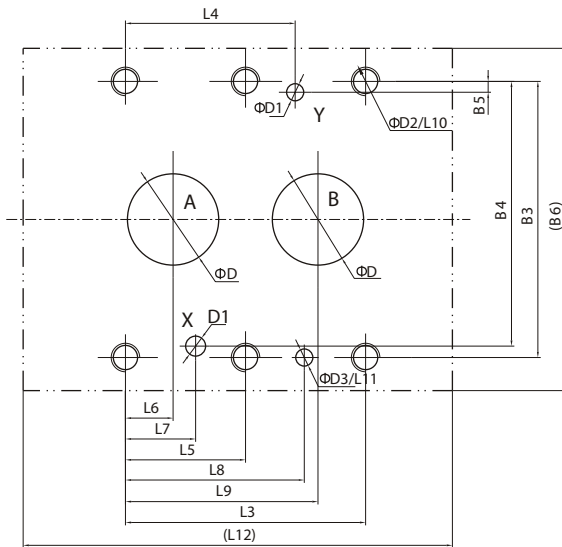
- The flow resistance through the check valve, when the main valve is closed
- - - The flow friction through the check valve, when the main valve is open

**PRESSURE REDUCING VALVE**

**External Dimensions**



**Subplate Mounting Size**



Specification	Mounting screw	Tighten torque
WJJ-03	4-M10X50-10.9	75Nm
WJJ-06	4-M10X60-10.9	75Nm

Notice : The surface, connecting with the valve, should be Ra0.8 roughness, and 0.01/100mm flatness.

Model	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	B1	B2	B3	B4	B5	B6	H1	H2	H3	D	D1	D2	D3
WJJ-03	96	35.5	42.9	21.5	-	7.2	21.5	31.5	35.8	23	6	98	85	80	66.7	58.8	7.9	87	112	92	28	12	6	M10	7
WJJ-06	116	37.5	60.3	39.7	-	11.1	20.6	44.5	49.2	24	6	118	102	59.5	79.4	73	6.4	104	122	102	38	25	6	M10	7