

Pressure Reducing Valve

Technical specification



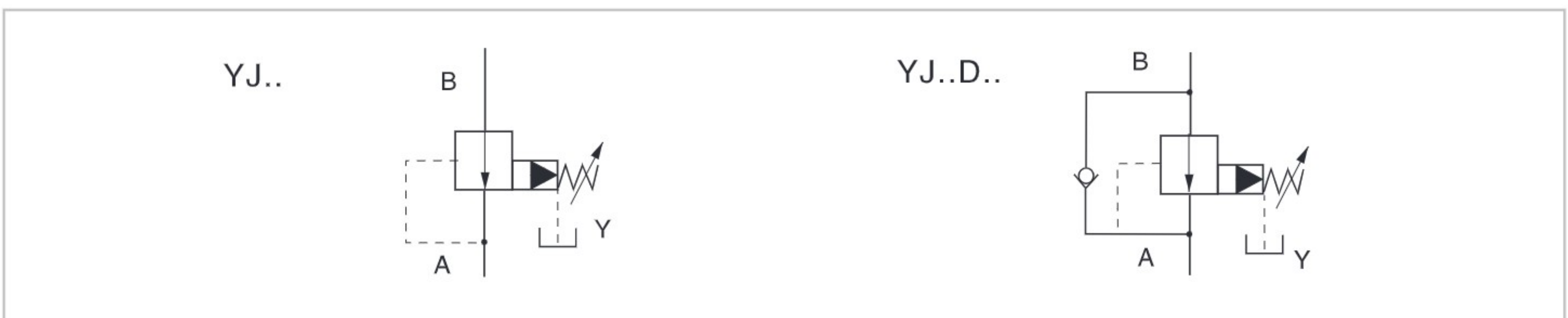
Specification	03	06
Max. working pressure (MPa)	31.5	
Max. Flow (L/min)	150	300
Working fluid	Mineral oil; phosphate-ester	
Fluid temp. (°C)	-20~70	
Viscosity (mm ² /s)	12~380	
Working pressure (MPa)	5	10 20 31.5
Cleanliness	The maximum allowable cleanliness of the oil should be according to 9th degree of Standard NAS1638. It is suggested that the minimum filter rating should be $\beta_{10} \geq 75$.	

The YJ pilot-operated reducing valve is controlled by the pilot and mainly used to reduce the pressure of a certain loop in the hydraulic system. It is suitable for hydraulic systems with a large flow rate.

Model description

<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 5 to 5MPa 10 to 10MPa 20 to 20MPa</p>	<p>YJ * - * - * * - * Y / * * 5X *</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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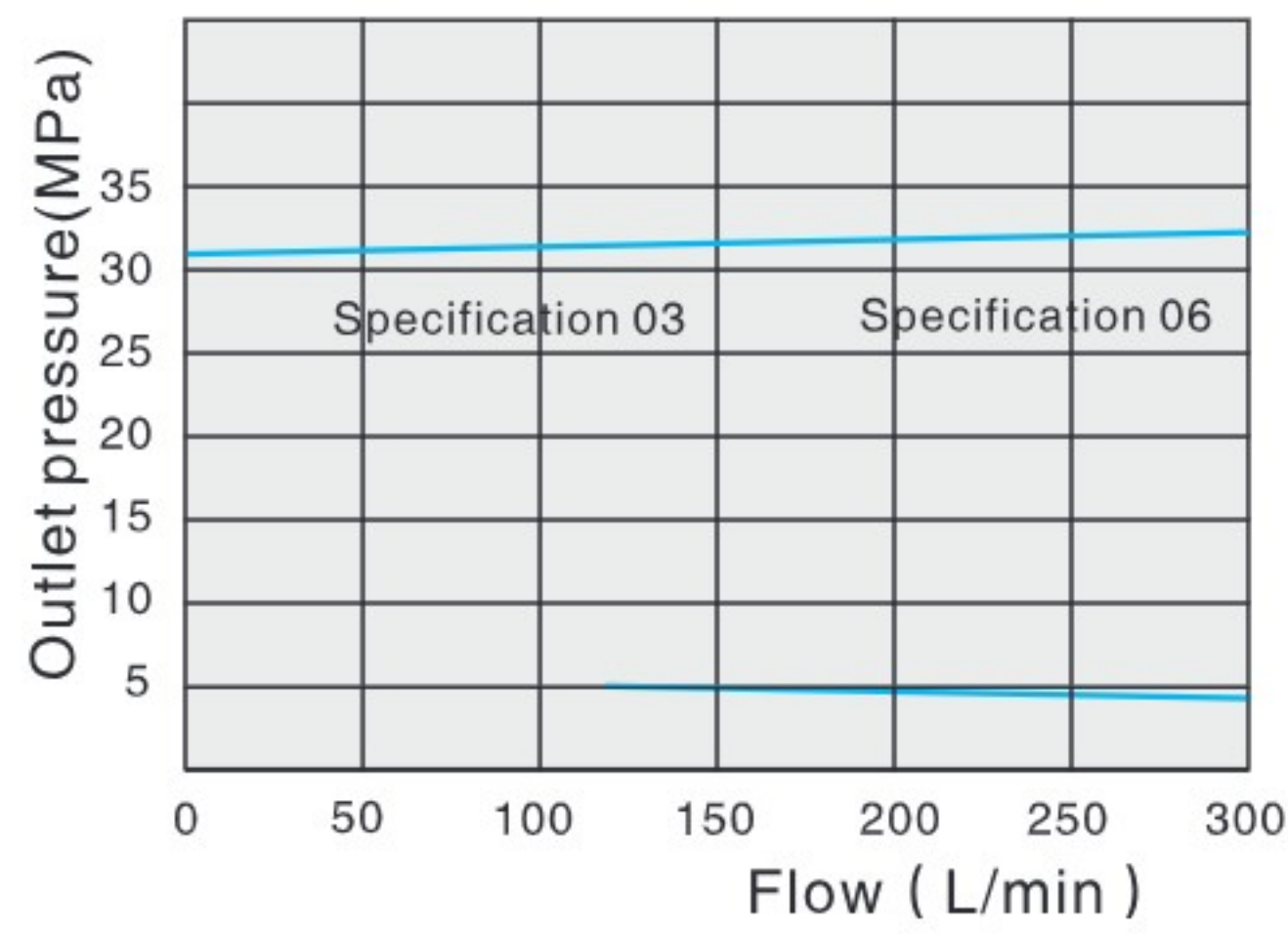
Code symbol



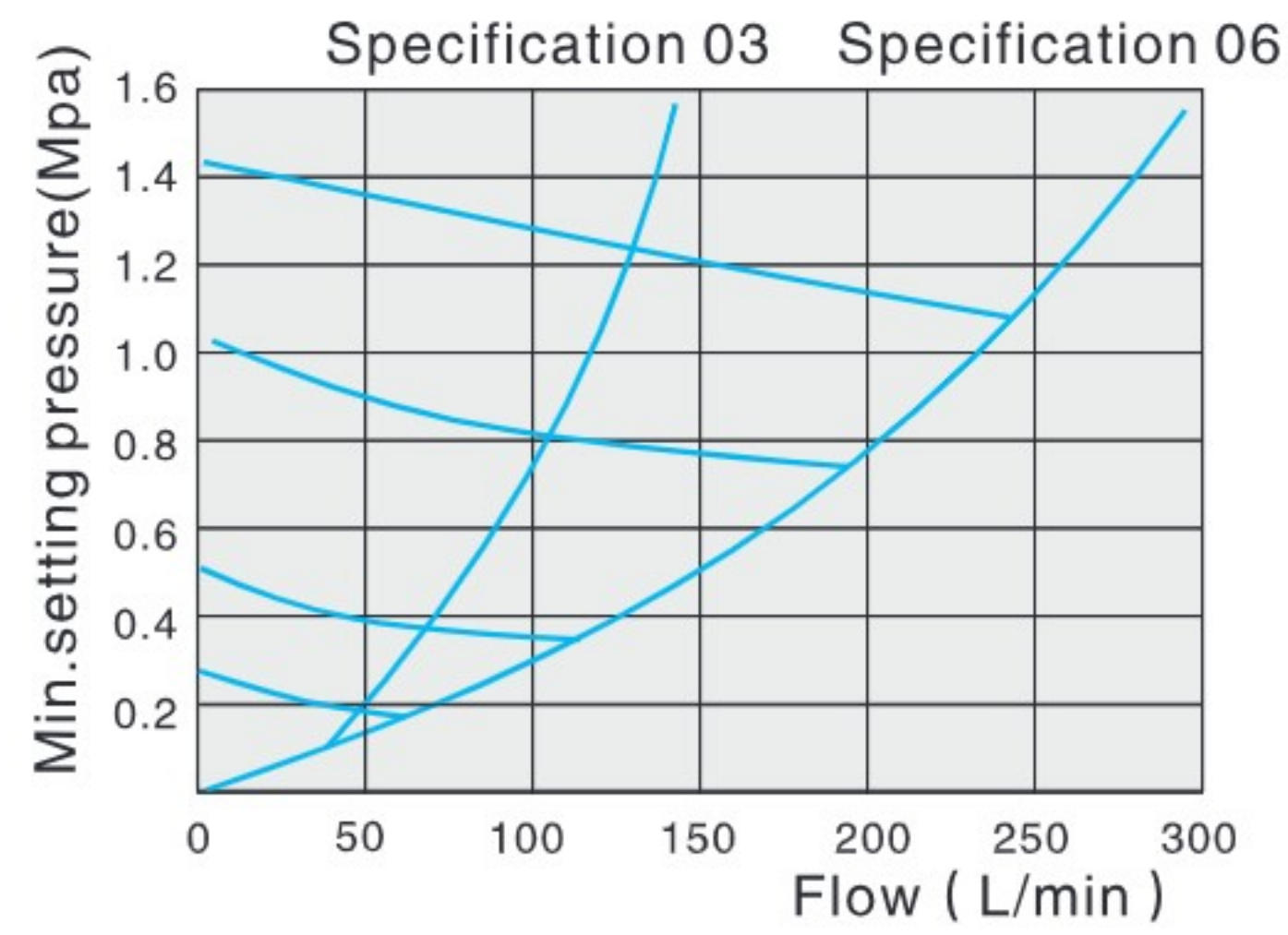
Pressure Reducing Valve

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

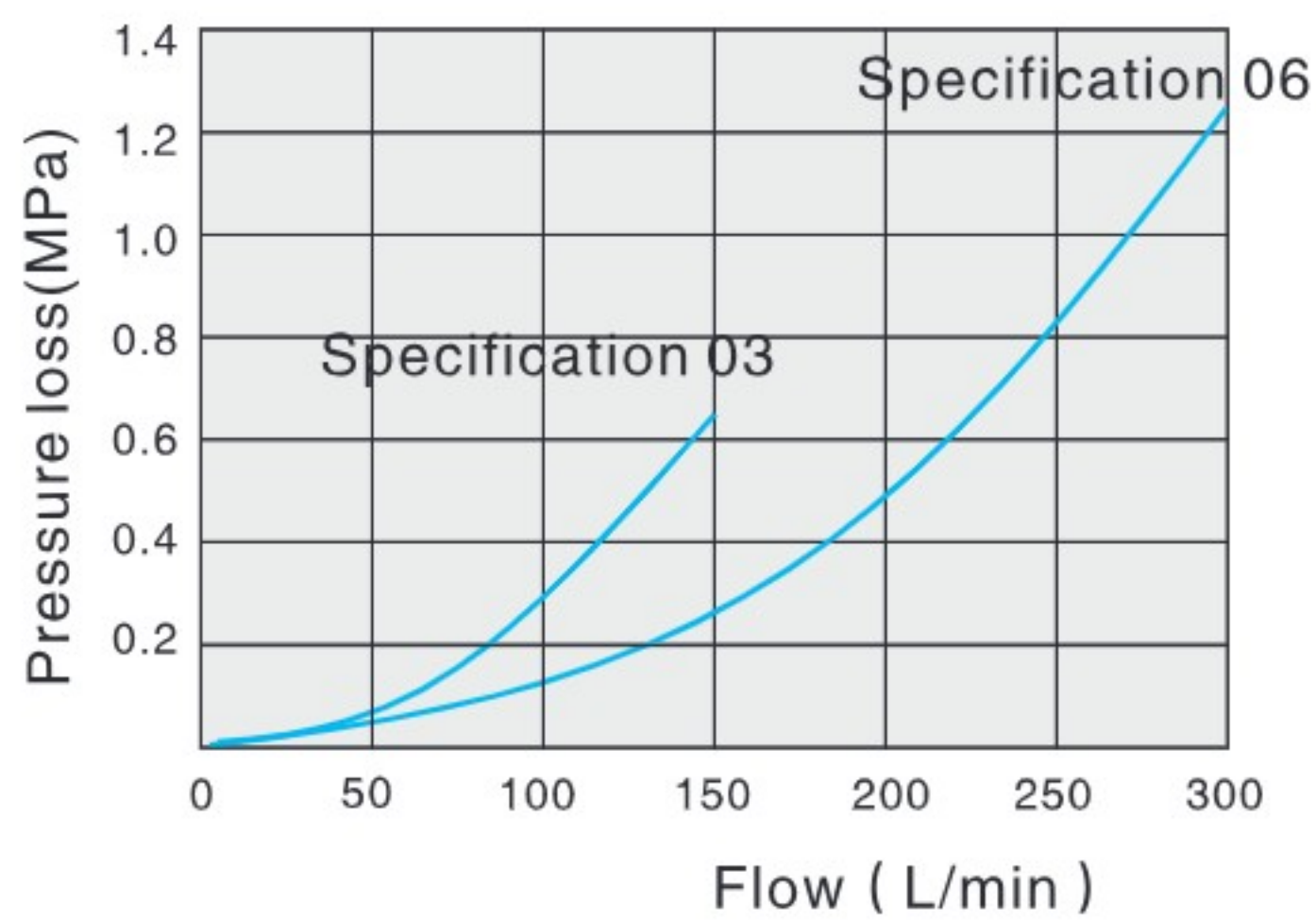
Inlet pressure in relation to the flow



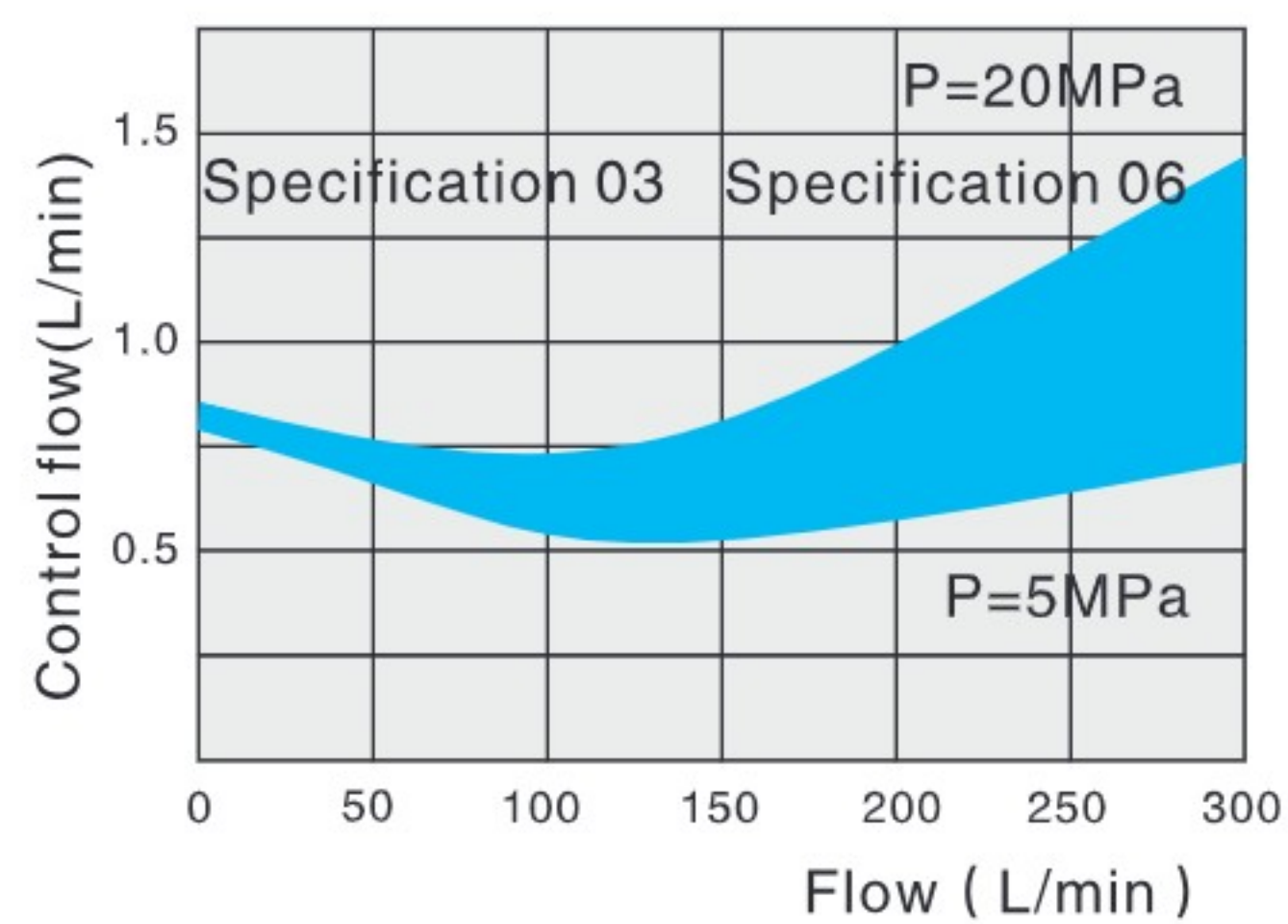
Minimum settable pressure in relation to the flow (A→B)
(=bypass pressure version "...X...")



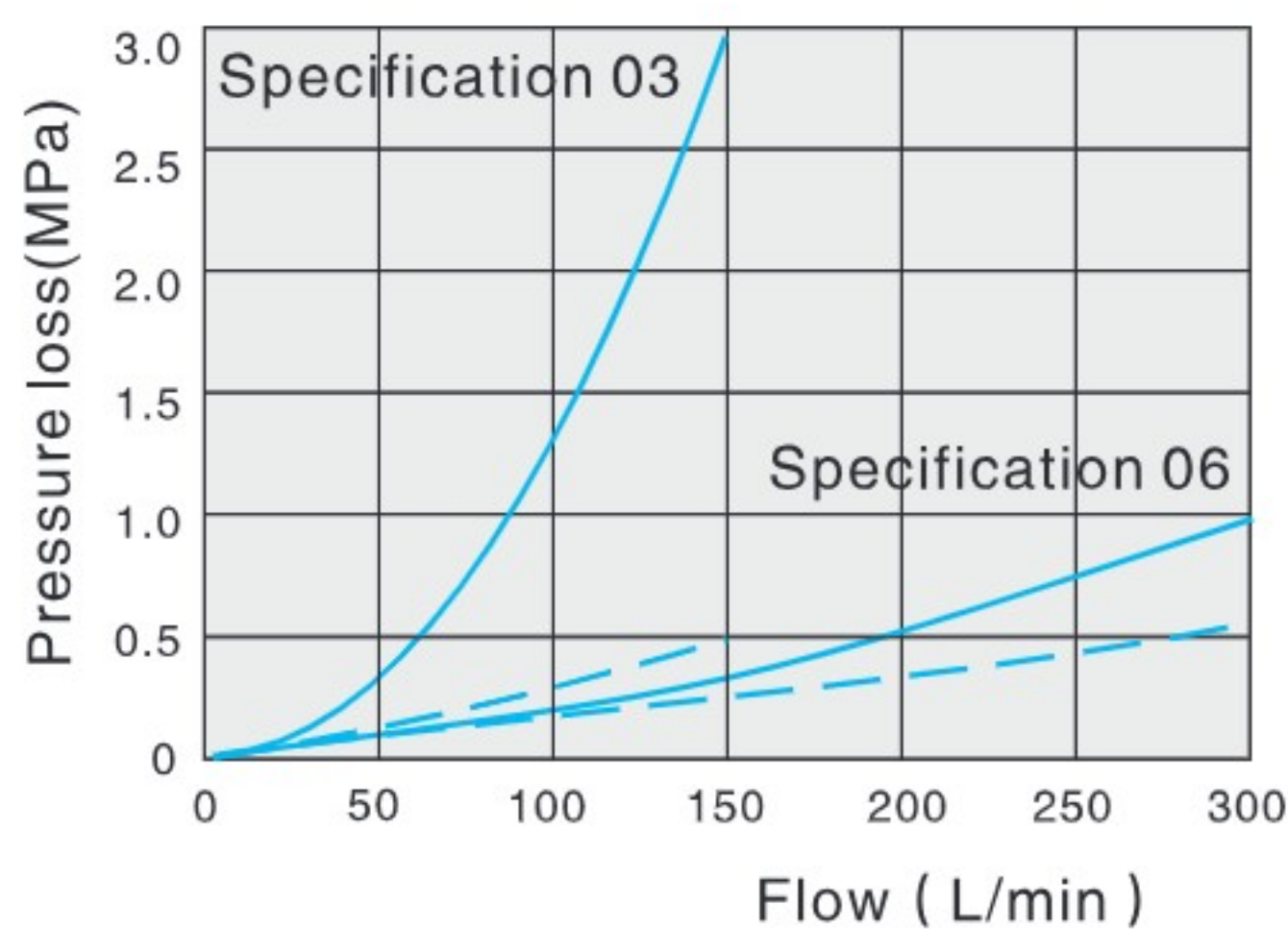
Inlet pressure in relation to the flow



Inlet pressure in relation to the flow



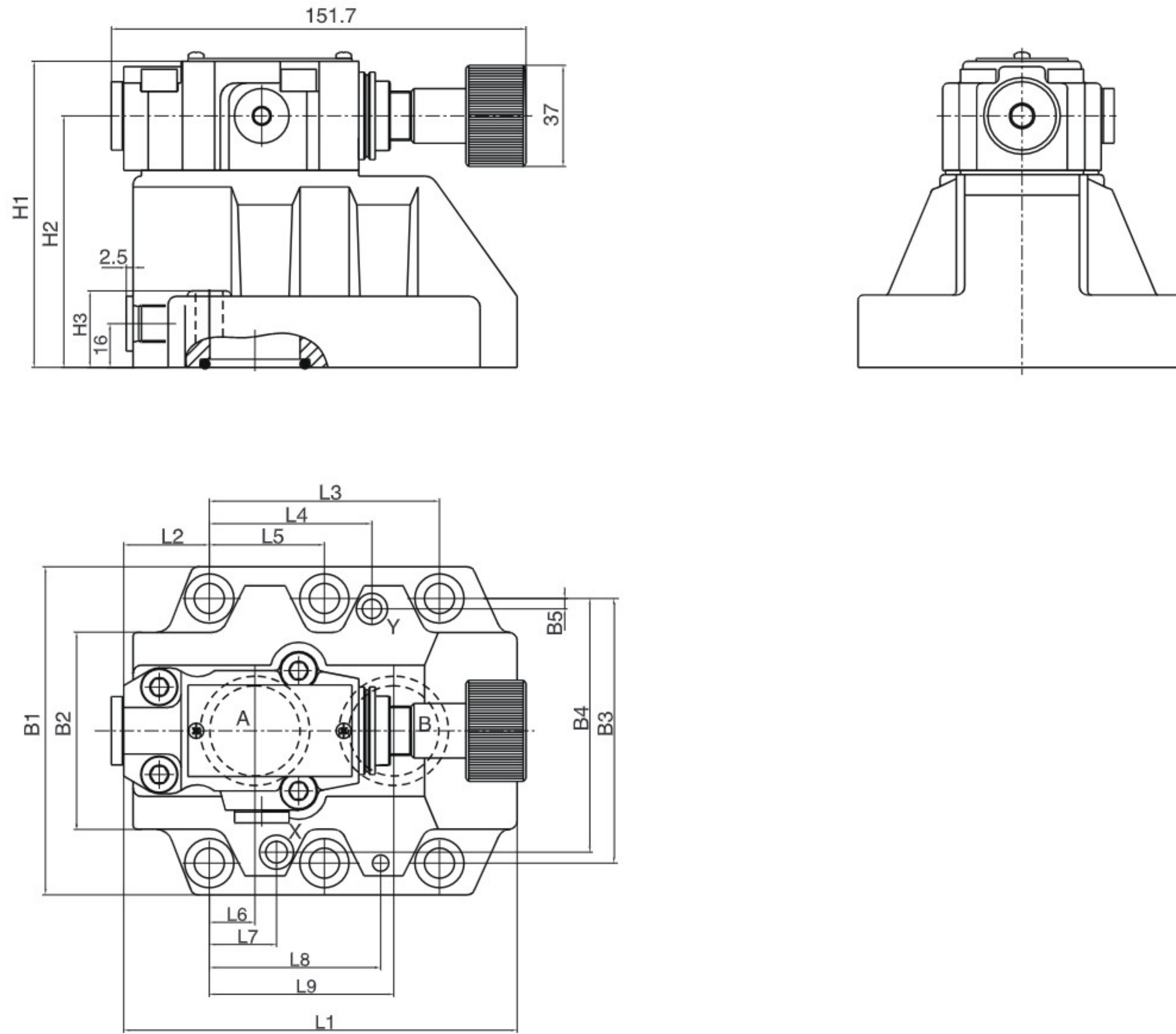
The curve Δ P-Q pass through the check valve



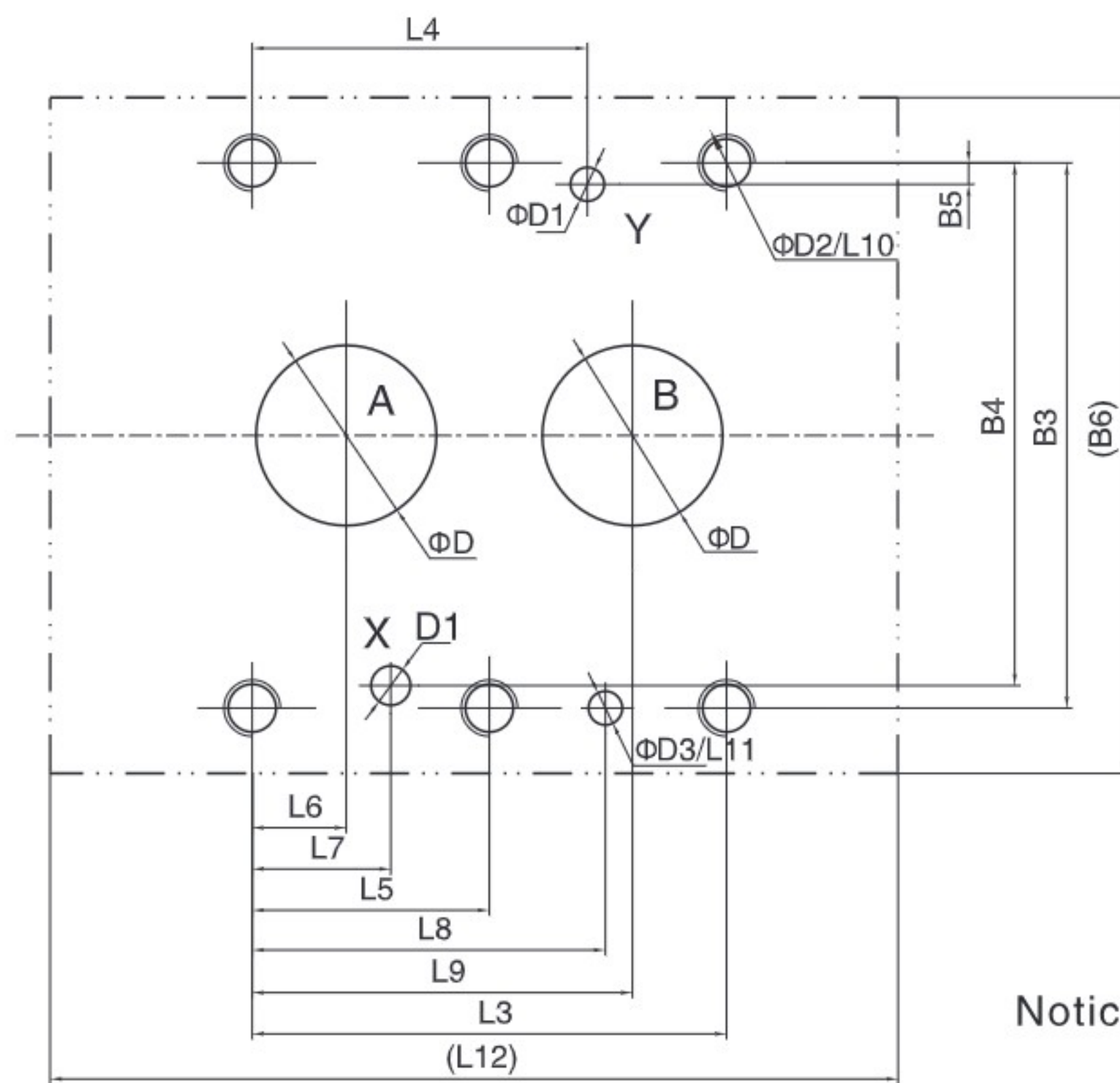
- The flow resistance through the check valve, when the main valve is closed
- - - The flow friction through the check valve, when the main valve is open

Pressure Reducing Valve

External dimensions



Subplate mounting size



Specification	Mounting screw	Tighten torque
YJ-03	4-M10x50-10.9	75Nm
YJ-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
YJ-03	96	35.5	42.9	21.5	-	7.2	21.5	31.5	35.8	23	6	98	85	50	66.7	58.8	7.9	87	112	92	28	12	6	M10	7
YJ-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