

CETOP 3 MANUAL LEVER VALVES

Technical Specification

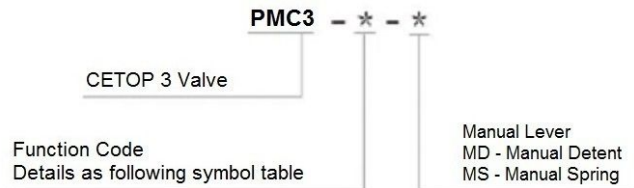


Specification		CETOP 3	CETOP 5
Working pressure (MPa)	Oil ports P,A,B	31.5	31.5
	Oil ports T	10	10
Max. Flow (L/min)		60	100
Working fluid		Mineral oil; phosphate-ester	
Fluid temp. (°C)		-20~70	
Viscosity (mm ² /s)		2.8~100	
Working voltage (V)	DC	12	24
	AC	110V/50Hz	220V/50Hz
Max. Switch frequency (T/h)		15000 (DC)	7200 (AC)
Insulation grade		IP65	
Weight (kg)		About 1.4	About 3.3
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 $\beta_{10} \geq 75$.		

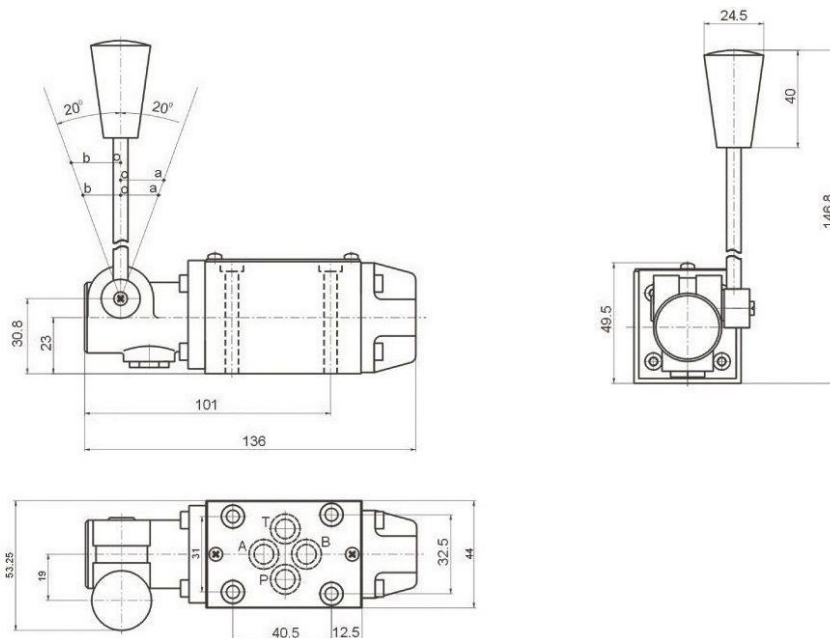
Code Symbol

	MD - Manual Detent	MS - Manual Spring
E		
H		
J		
G		
D		

Model Description



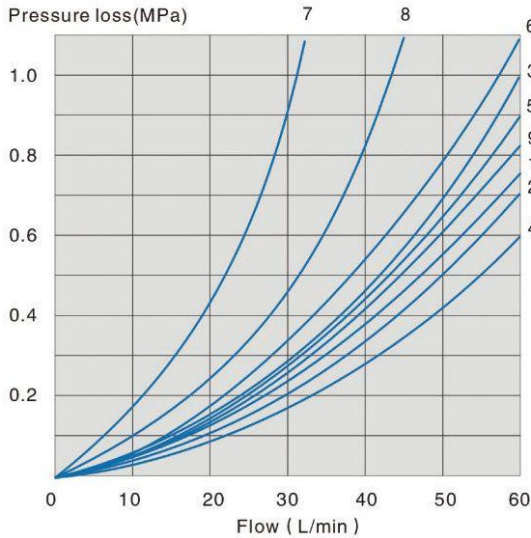
External Dimensions



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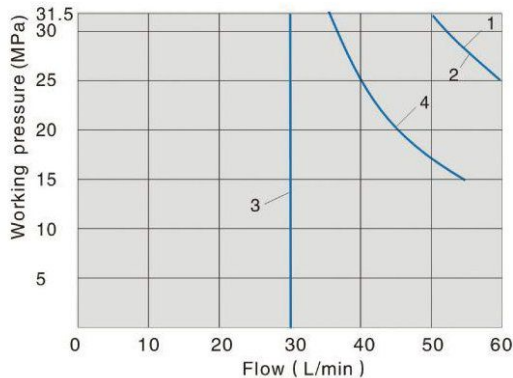
Specification Performance curve (Measured at $v=41\text{mm}^2/\text{s}$ and $t=50^\circ\text{C}$)



Function code	Direction			
	P→A	P→B	A→T	B→T
D	5	5	3	3
E	3	3	1	1
H	2	4	2	2
J	1	1	2	1
G	6	6	9	9

Specification Working limits (The working limits for directional valves have determined by using solenoids at their operating temperature, 10% under voltage and with no pre-loading of the tank)

As the plug, the switch function of the valve is determined by the filter. In order to reach the largest flow as shown, we suggest to use full-flow filter $20\ \mu\text{m}$. Every force on the valve can also affect the flow. With regard to the four-way valve, the normal flow data as shown is get from the regular use of two directions of the flow (e.g. P to A, and simultaneous return flow from B to T). See tables. If only one flow direction is needed, for example: When a four port valve which is closed up port A or port B, used as a three-way valve, the Maximum flow may be very small in the serious condition.



DC	
Curve	Symbol
1	E H
	J G
	D