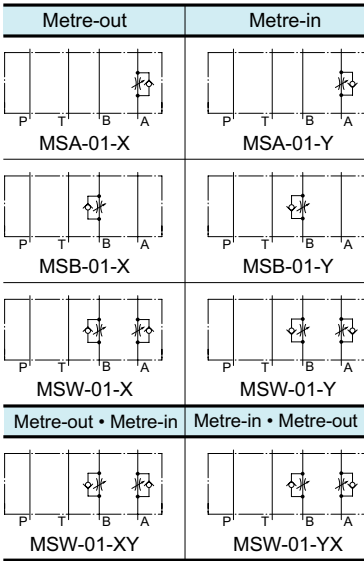


Graphic Symbols



CETOP3 Throttle & Check Valves

For "A" Line: MSA-01--50**
For "B" Line: MSB-01--50**
For "A&B" Line: MSW-01--50**

Specifications

Model Numbers	Direction of Flow **	Max. Op. Pressure MPa (PSI)	Max. Flow L/min	Weight
MSA-01-**-50		31.5 (4570)	60★	1.3kg
MSB-01-**-50	See table below	31.5 (4570)	60★	1.3kg
MSW-01-**-50		31.5 (4570)	60★	1.5kg

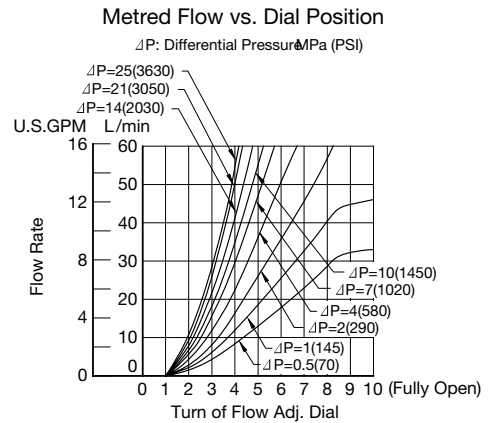
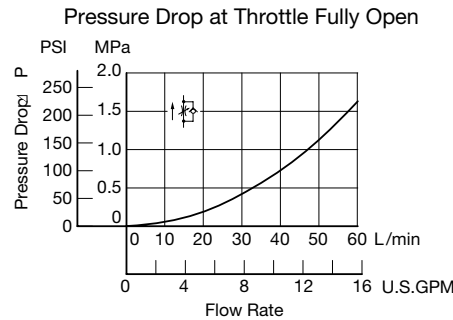
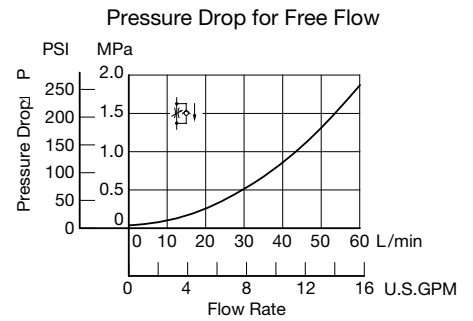
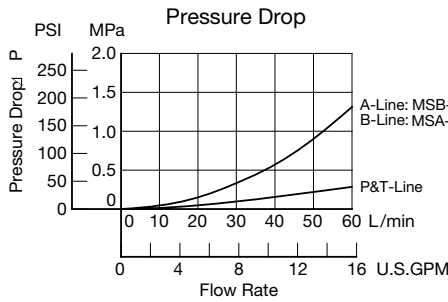
★ At the low differential pressure, maximum flow is limited. See "Pressure Drop at Throttle Fully Open" of the next page.

Instructions

To make flow rate adjustment, loosen locking screw for the dial and turn the flow adjustment dial clockwise or anti-clockwise. For a decrease of flow, turn the dial clockwise. Be sure to re-tighten the locking screw firmly after the adjustment of the flow rate.

Typical Performance Characteristics

Hydraulic Fluid: Viscosity 35 mm²/s (164 SSU), Specific Gravity 0.850



Model Number Designation

MSW	-01	-X	-Y	-50	*
Series Number	Valve Size	Direction of Flow ("A" Line)	Direction of Flow ("B" Line)	Design Number	Design Standard
MSA: Throttle and Check Valve for A-Line	01	X: Metre-out Y: Metre-in	-	50	
MSB: Throttle and Check Valve for B-Line	01	-	X: Metre-out Y: Metre-in	50	
MSW: Throttle and Check Valve for A&B-Line	01	X: Metre-out Y: Metre-in	X: Metre-out Y: Metre-in	50	Refer to ★

★ Design Standards: None ... Japanese Standard "JIS" and European Design Standard 90 ... N. American Design Standard

Special Seals - On Request