

# CETOP5 Throttle & Check Valves

**For "A" Line: MSA-03-\*\*-50**  
**For "B" Line: MSB-03-\*\*-50**  
**For "A&B" Line: MSW-03-\*\*-50**

## Specifications

Model Numbers	Direction of Flow	Max. Operating Pressure MPa (PSI)	Max. Flow L/min	Weight
MSA-03-**-50	X = Metre-out Y = Metre-in	31.5 (4570)	120 (31.7)	3.5kg
MSB-03-**-50		31.5 (4570)	120 (31.7)	3.5kg
MSW-03-**-50		31.5 (4570)	120 (31.7)	3.5kg

## Instructions

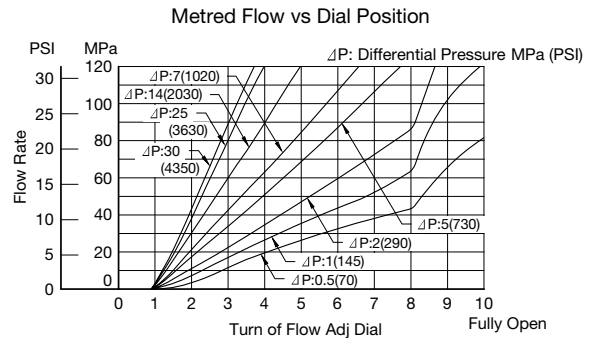
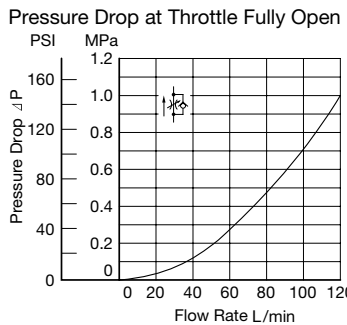
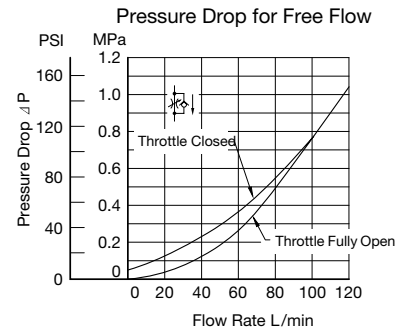
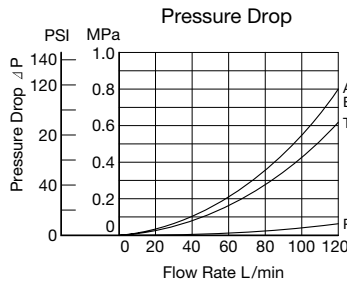
To make flow rate adjustment, loosen locking screw for the dial and turn the flow adjustment dial clockwise or anti-clockwise. For a decrease of flow, turn the dial clockwise. Be sure to re-tighten the locking screw firmly after the adjustment of the flow rate.

## Typical Performance Characteristics

Hydraulic Fluid: Viscosity 35 mm<sup>2</sup>/s (164 SSU), Specific Gravity 0.850

Model No.	Graphic Symbols	Detailed Graphic Symbols
	Metre-out	
MSA-03-X		
MSB-03-X		
MSW-03-X		

Model No.	Graphic Symbols	Detailed Graphic Symbols
	Metre-in	
MSA-03-Y		
MSB-03-Y		
MSW-03-Y		



## Model Number Designation

MSW	-03	-X	-50	*
Series Number	Valve Size	Direction of Flow	Design Number	Design Standard
<b>MSA:</b> Throttle and Check Valve for A-Line	<b>03</b>		<b>50</b>	
<b>MSB:</b> Throttle and Check Valve for B-Line	<b>03</b>	<b>X:</b> Metre-out <b>Y:</b> Metre-in	<b>50</b>	Refer to ★
<b>MSW:</b> Throttle and Check Valve for A&B-Line	<b>03</b>		<b>50</b>	

★ Design Standards: None ... Japanese Standard "JIS" and European Design Standard  
 90 ... N. American Design Standard  
 Special seals - On Request