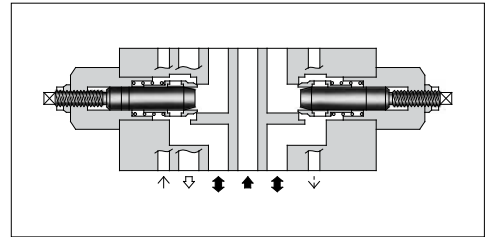


Throttle and Check Modular Valves

Specifications

Model Numbers	Max. Operating Pressure MPa (PSI)	Max. Flow L/min (U.S.GPM)
MSA-06-*-30/3090 MSB-06-*-30/3090 MSW-06-*-30/3090	25 (3630)	500 (132)



Model Number Designation

F-	MSW	-06	-X	-30	*
Special Seals	Series Number	Valve Size	Direction of Flow	Design Number	Design Standard
F: Special Seals for Phosphate Ester Type Fluids (Omit if not required)	MSA : Throttle and Check Valve for A-Line MSB : Throttle and Check Valve for B-Line MSW : Throttle and Check Valve for A&B-Lines	06	X : Metre-out Y : Metre-in	30	Refer to ★

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

Instructions

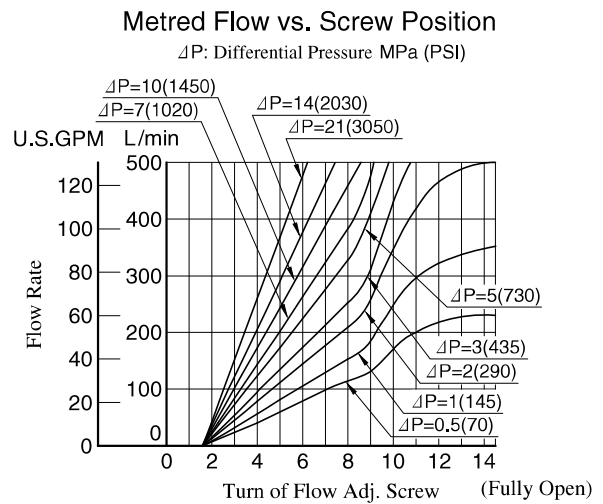
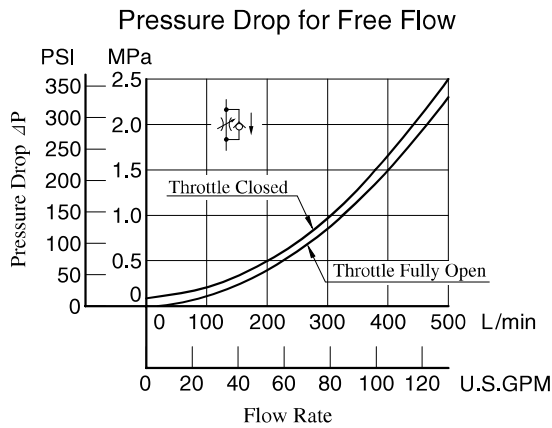
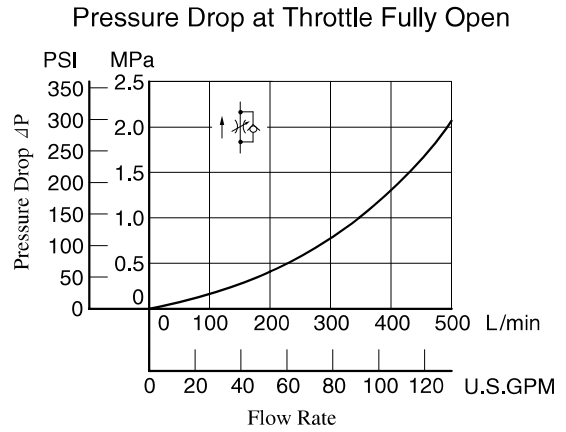
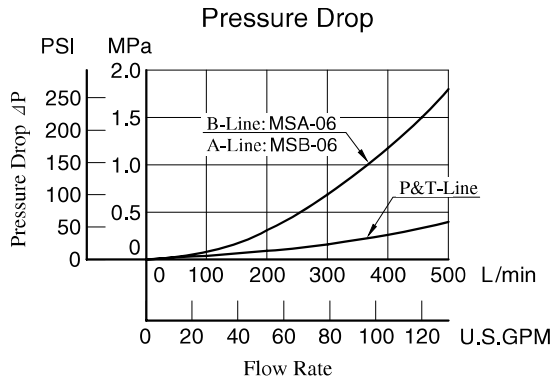
- To make flow rate adjustment, loosen lock nut and turn the flow adjustment screw clockwise or anti-clockwise. To throttle the flow, turn the screw clockwise. Be sure to re-tighten the lock nut firmly after the adjustment of the flow rate is completed.

Graphic Symbols

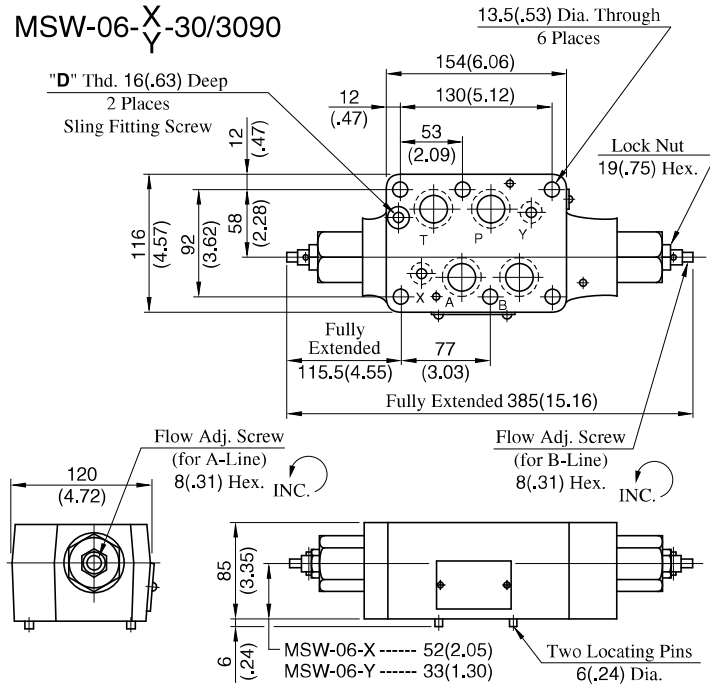
Metre-out	Metre-in
<p>MSA-06-X</p>	<p>MSA-06-Y</p>
<p>MSB-06-X</p>	<p>MSB-06-Y</p>
<p>MSW-06-X</p>	<p>MSW-06-Y</p>

Typical Performance Characteristics

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



MSW-06-X-30/3090

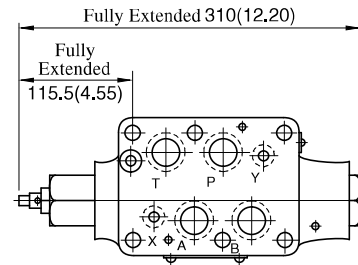


DIMENSIONS IN MILLIMETRES (INCHES)

Model Numbers	"D" Thd.
MS*-06-*-30	M8
MS*-06-*-3090	5/16-18 UNC

Approx. Mass..... 12.2 kg (26.9 lbs.)

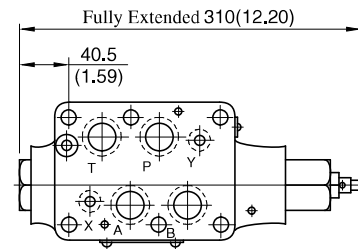
MSA-06-X-30/3090



Approx. Mass..... 12 kg (26.5 lbs.)

• For other dimensions, refer to "MSW-06" drawing left.

MSB-06-X-30/3090

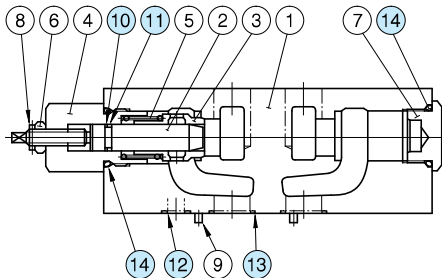


Approx. Mass..... 12 kg (26.5 lbs.)

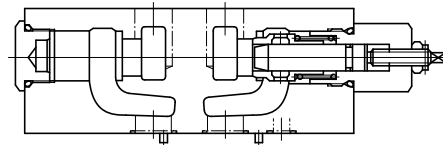
• For other dimensions, refer to "MSW-06" drawing left.

Spare Parts List

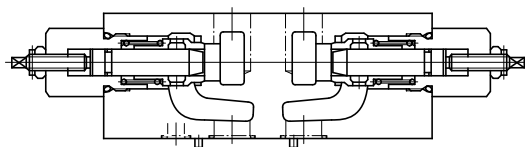
MSA-06-*-30/3090



MSB-06-*-30/3090



MSW-06-*-30/3090



List of Seals

Item	Name of Parts	Part Numbers	Quantity		
			MSA-06	MSB-06	MSW-06
10	Back Up Ring	SO-BB-P14	1	1	2
11	O-Ring	SO-NA-P14	1	1	2
12	O-Ring	SO-NB-P14	2	2	2
13	O-Ring	SO-NB-P28	4	4	4
14	O-Ring	SO-NB-P32	2	2	2

Note: When ordering seals, please specify the seal kit number from the table right.

List of Seal Kits

Valve Model Numbers	Seal Kit Numbers
MSA-06	KS-MSA-06-10
MSB-06	
MSW-06	KS-MSW-06-10