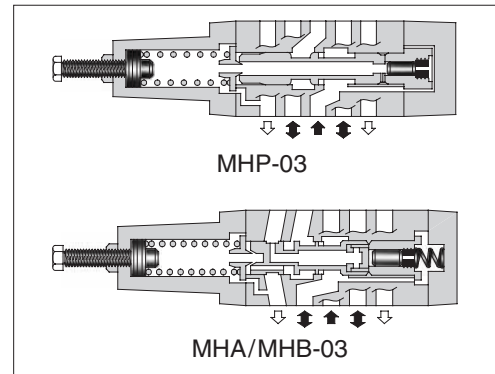


## Sequence Modular Valves/Counterbalance Modular Valves

### Specifications

Model Numbers	Max. Operating Pressure MPa (PSI)	Max. Flow L/min (U.S.GPM)	Max. Free Flow L/min (U.S.GPM)
MHP-03-*-20	25 (3630)	50 (13.2)	—
MHA-03-*-20 MHB-03-*-20			70 (18.5)



### Model Number Designation

<b>F-</b>	<b>MHA</b>	<b>-03</b>	<b>-C</b>	<b>-20</b>	<b>*</b>
Special Seals	Series Number	Valve Size	Pres. Adj. Range MPa (PSI)	Design Number	Design Standard
<b>F:</b> Special Seals for Phosphate Ester Type Fluids (Omit if not required)	<b>MHP:</b> Sequence Valve for P-Line	<b>03</b>	<b>N:</b> *-1.8 (*-260) ★ <sup>1</sup> <b>A:</b> 1.8-3.5 (260-510) <b>B:</b> 3.5-7 (510-1020) <b>C:</b> 7-14 (1020-2030)	<b>20</b>	Refer to ★ <sup>2</sup>
	<b>MHA:</b> Counterbalance Valve for A-Line <b>MHB:</b> Counterbalance Valve for B-Line			<b>20</b>	

★<sup>1</sup>. See the "Minimum Adjustment Pressure" of the next page for the item marked \*.

★<sup>2</sup>. Design Standards: None ..... Japanese Standard "JIS", European Design Standard and N. American Design Standard

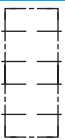
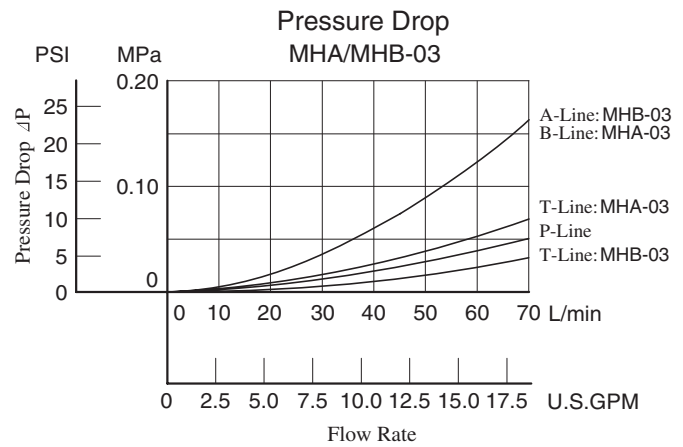
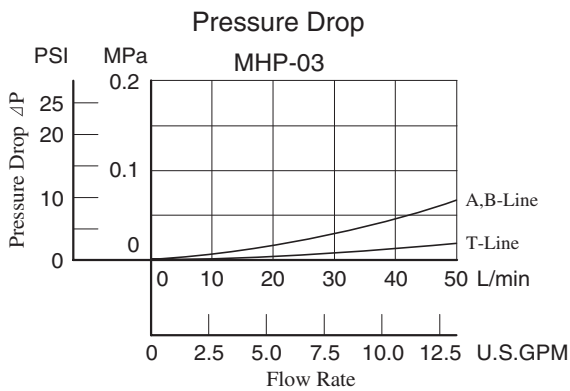
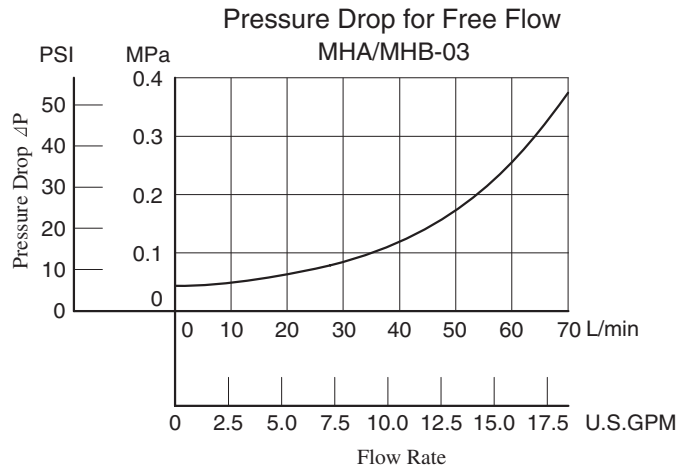
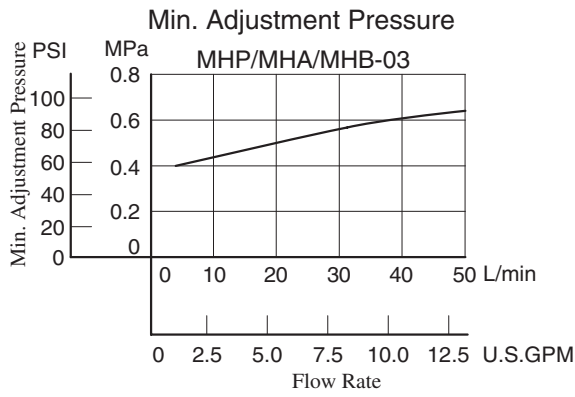
### Instructions

- The minimum adjustment pressure equals the value obtained from the minimum adjustment pressure characteristics plus the tank line back pressure of the next page. This back pressure should include the value of the T-line pressure drop characteristics of the valves stacked to the base plate side of the modular valve.
- To make pressure adjustment, loosen the lock nut and turn the pressure adjustment screw clockwise or anti-clockwise. For an increase of pressure, turn the screw clockwise. Be sure to re-tighten the lock nut firmly after making adjustment to the pressure.

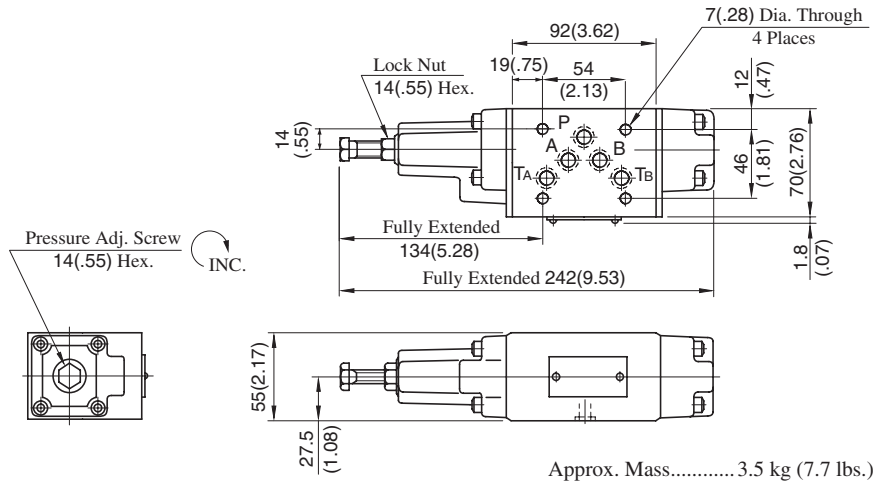
Model Numbers	Graphic Symbols	Detailed Graphic Symbols
MHP-03		
MHA-03		
MHB-03		

## Typical Performance Characteristics

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



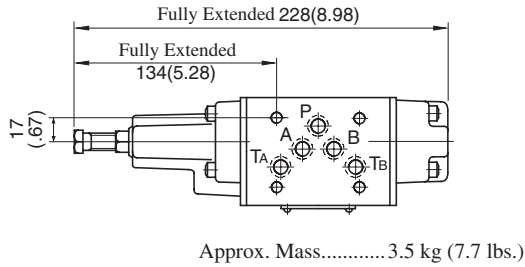
**MHP-03-\*-20**



Approx. Mass.....3.5 kg (7.7 lbs.)

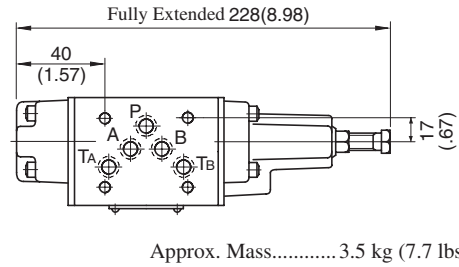
**DIMENSIONS IN MILLIMETRES (INCHES)**

**MHA-03-\*-20**



Approx. Mass.....3.5 kg (7.7 lbs.)

**MHA-03-\*-20**

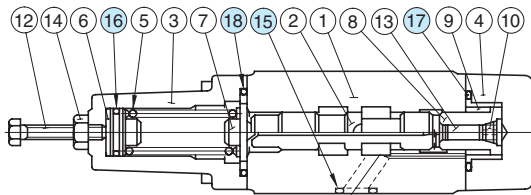


Approx. Mass.....3.5 kg (7.7 lbs.)

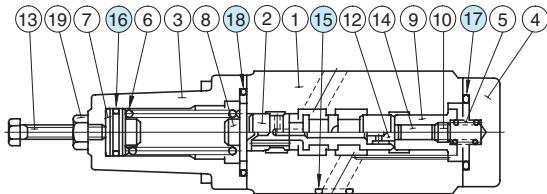
• For other dimensions, refer to "MHP-03" drawing above.

**■ Spare Parts List**

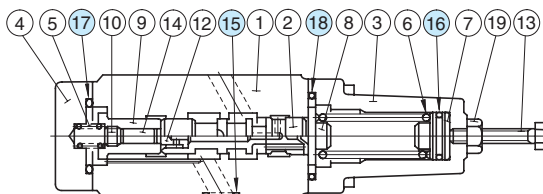
**MHP-03-\*-20**



**MHA-03-\*-20**



**MHB-03-\*-20**



• **List of Seals**

**MHP-03, MHA-03**

Item	Name of Parts	Part Numbers	Qty.	Remarks
15	O-Ring	SO-NB-A014	5	Included in Seal Kit Kit No.:KS-MHP-03-20
16	O-Ring	SO-NB-P16	1	
17	O-Ring	SO-NB-P29	1	
18	O-Ring	SO-NB-P32	1	

**MHB-03**

Item	Name of Parts	Part Numbers	Qty.	Remarks
15	O-Ring	SO-NB-A014	5	Included in Seal Kit Kit No.:KS-MHB-03-20
16	O-Ring	SO-NA-P16	1	
17	O-Ring	SO-NB-P29	1	
18	O-Ring	SO-NB-P32	1	