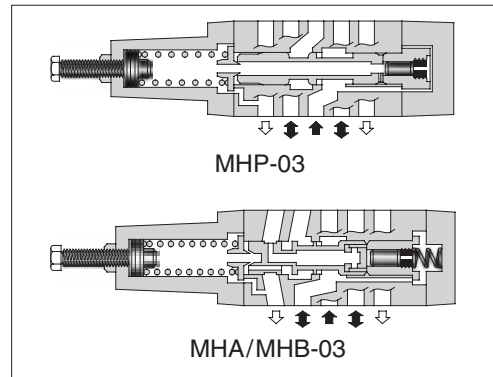


Sequence Modular Valves/Counterbalance Modular Valves

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

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

★¹. See the "Minimum Adjustment Pressure" of the next page for the item marked *.

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

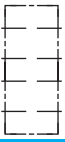
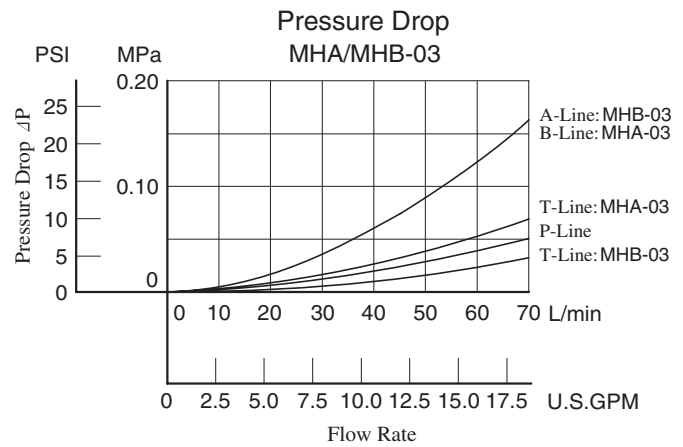
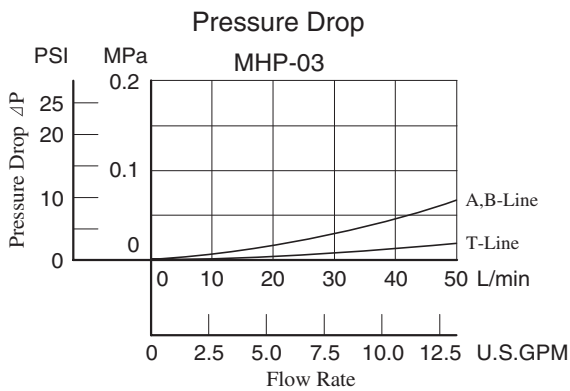
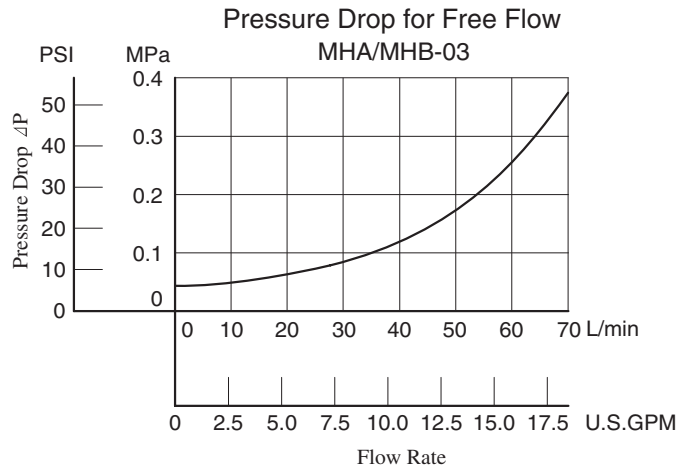
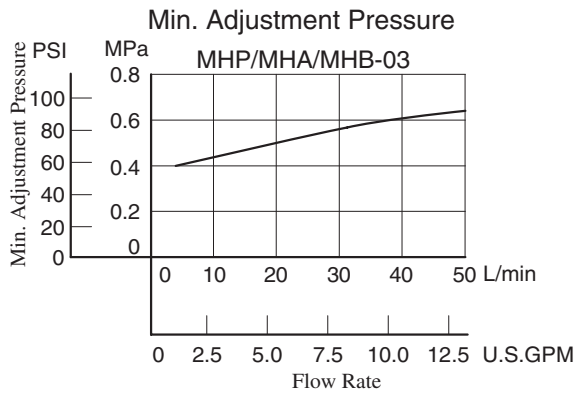
Instructions

- 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.

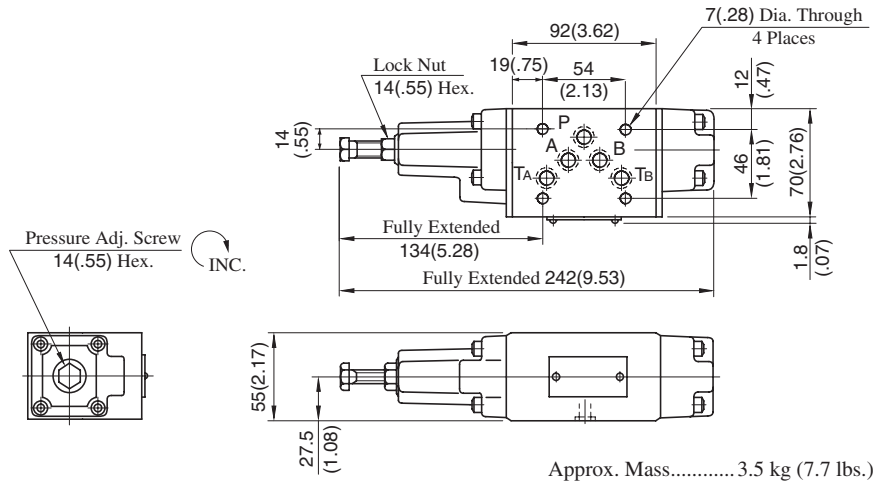
| Model Numbers | Graphic Symbols | Detailed Graphic Symbols |
|---------------|-----------------|--------------------------|
| MHP-03 | | |
| MHA-03 | | |
| MHB-03 | | |

Typical Performance Characteristics

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



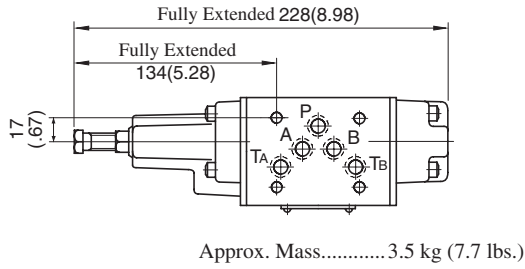
MHP-03-*-20



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

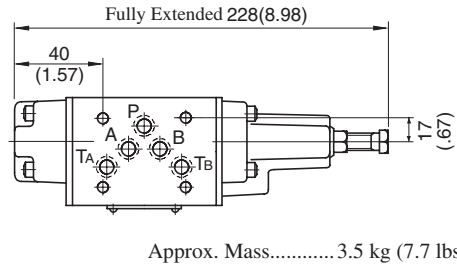
DIMENSIONS IN MILLIMETRES (INCHES)

MHA-03-*-20



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

MHA-03-*-20

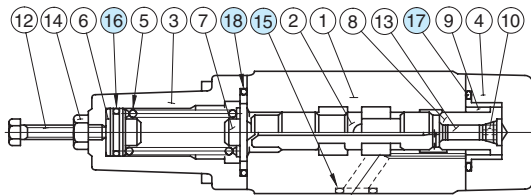


Approx. Mass.....3.5 kg (7.7 lbs.)

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

■ Spare Parts List

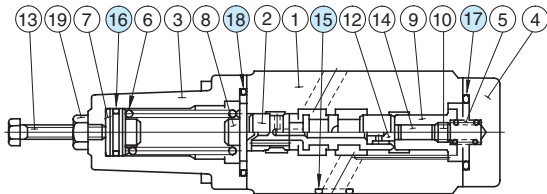
MHP-03-*-20



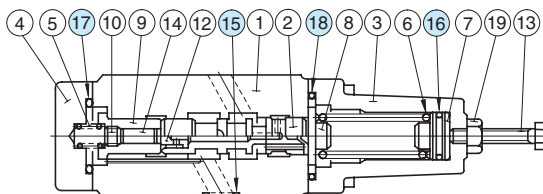
• List of Seals
MHP-03, MHA-03

| 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 | |

MHA-03-*-20



MHB-03-*-20



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 | |