

## ❖ 3/8 Relief Modular Valves

### ❖ Ratings

Max. Operating Pressure kgf/cm <sup>2</sup>	Max. Flow l/min
250	70

### ❖ Model Number Designation

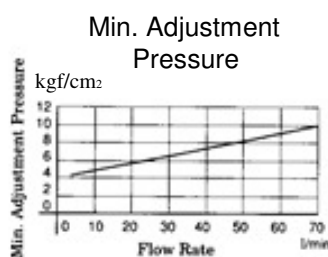
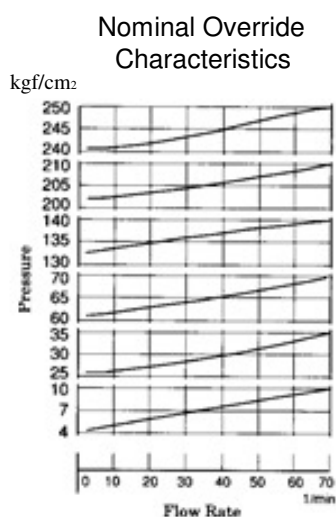
F	MBA	-03	-B	-20
Special Seals	Series Number	Valve Size	Pres. Adj. Range kgf/cm <sup>2</sup>	Design Number
<b>F:</b> Special Seals for Phosphate Ester Type Fluids (Omit if not required)	<b>MBP:</b> Relief Modular Valves for P-Line <b>MBA:</b> Relief Modular Valves for A-Line <b>MBB:</b> Relief Modular Valves for B-Line <b>MBW:</b> Relief Modular Valves for A&B-Line	<b>03</b>	<b>B:</b> * -70 <sup>1</sup> <b>H:</b> 35-250	<b>20</b>

\*1 See the minimum adjustment pressure marked \*

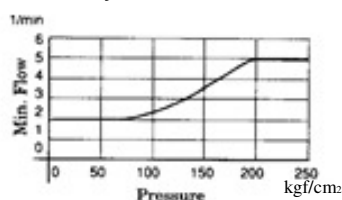


### ❖ Typical Performance Characteristics

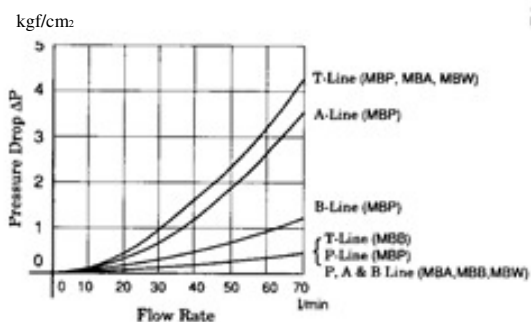
Hydraulic Fluid: Viscosity 35cSt (160SSU), Specific Gravity 0.850



Min. Flow  
vs. Adjustment Pressure



Pressure Drop



Model Numbers	Graphic Symbols	Detailed Graphic Symbols
MBP-03		
MBA-03		
MBA-03		

### ❖ Instructions

- **Min. adjustment pressure** which varies with tank line back pressure may be obtained from the following formula.

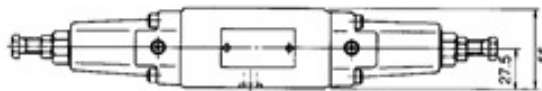
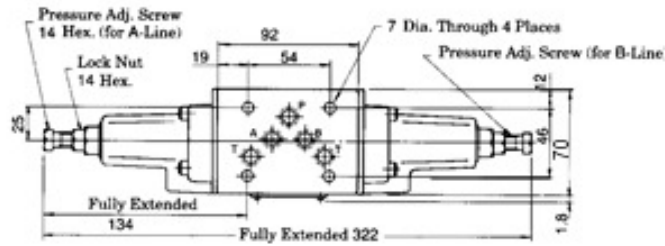
**Min. adjustment pressure = Min. adjustment pressure value + Tank Line back pressure.** Add T-Line pressure drop value of the valve to be stacked on the base plate side to the tank line back pressure.

- To make pressure adjustment, loosen the lock nut and turn the pressure adjustment screw clockwise or anti-clockwise. Be sure to re-tighten the lock nut firmly after making adjustment to the pressure.

- In case of a small flow, the setting pressure may become unstable. To avoid this, refer to the minimum flow characteristic curve below and use the valve within a range as shown with

MBW-03-✱-20

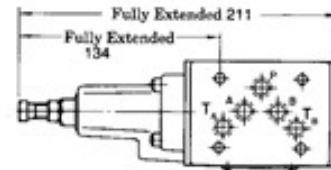
DIMENSION IN  
MILLIMETRES



Mass... ..4.2kg

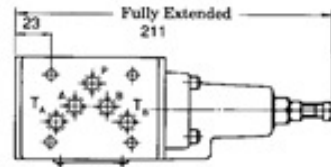
MBP-03-✱-20

MBA-03-✱-20



Mass.....3.5kg

For other dimensions, refer to left  
(MBW-03) drawing.



Mass.....3.5kg

For other dimensions, refer to left  
(MBW-03) drawing.