

# 01 Series Modular Valves

## Type of Modular Valve

Class	Name and Model Numbers	Graphic Symbols	Page	Class	Name and Model Numbers	Graphic Symbols	Page	
Solenoid Operated Directional Valve	(S-) DSG-01-**-**-70 E-DSG-01-**-**-D**-70 T-DSG-01-**-**-D24**-70 G-DSG-01-**-**-**-51		★	Flow Control Valves	Throttle Valves (for "P-Line") MSP-01-50		F-29	
	Throttle Valves (for "T-Line") MST-01-50		F-29					
Pressure Control Valves	Relief Valves (for "P-Line") MBP-01-**-**-70		F-12		Check and Throttle Valves (for "P-Line") MSCP-01-30		F-30	
	Relief Valves (for "A-Line") MBA-01-**-**-70		F-12		Throttle and Check Valves (for "A-Line", Meter-out) MSA-01-X-70		F-31	
	Relief Valves (for "B-Line") MBB-01-**-**-70		F-12		Throttle and Check Valves (for "A-Line", Meter-in) MSA-01-Y-70		F-31	
	Reducing Valves (for "P-Line") MRP-01-**-**-70		F-14		Throttle and Check Valves (for "B-Line", Meter-out) MSB-01-X-70		F-31	
	Reducing Valves (for "A-Line") MRA-01-**-**-70		F-14		Throttle and Check Valves (for "B-Line", Meter-in) MSB-01-Y-70		F-31	
	Reducing Valves (for "B-Line") MRB-01-**-**-70		F-14		Throttle and Check Valves (for "A&B-Lines", Meter-out) MSW-01-X-70		F-31	
	Two Pressure Reducing Valves (for "P-Line") MRDP-01-**-**-10		F-16		Throttle and Check Valves (for "A&B-Lines", Meter-in) MSW-01-Y-70		F-31	
	Brake Valves MBR-01-**-30		F-18		Throttle and Check Valves (for "A&B-Lines", Meter-out, Meter-in) MSW-01-XY-70		F-31	
	Sequence Valves (for "P-Line") MHP-01-**-70		F-19		Directional Control Valves	Check Valves (for "P-Line") MCP-01-**-70		F-33
	Counterbalance Valves (for "A-Line") MHA-01-**-70		F-19			Check Valves (for "A-Line") MCA-01-**-70		F-33
	Counterbalance Valves (for "B-Line") MHB-01-**-70		F-19	Check Valves (for "B-Line") MCB-01-**-70			F-33	
	Pressure Switch Valves (for "P-Line") MJP-01-**-**-10		F-22	Check Valves (for "T-Line") MCT-01-**-70			F-33	
Pressure Switch Valves (for "A-Line") MJA-01-**-**-10		F-22	Check Valves (for "A&B-Line") MCW-01-**-70			F-33		
Pressure Switch Valves (for "B-Line") MJB-01-**-**-10		F-22	Anti-Cavitation Valves MAC-01-30			F-35		
Pressure Switch Valves (for "A&B-Line") MJW-01-J-**-10		F-22	Pilot Operated Check Valves (for "A-Line") MPA-01-**-**-70			F-36		
Flow Control Valves (for "P-Line") MFP-01-10		F-25	Pilot Operated Check Valves (for "B-Line") MPB-01-**-**-70			F-36		
Flow Control and Check Valves (for "A-Line", Meter-out) MFA-01-X-10		F-25	Pilot Operated Check Valves (for "A&B-Lines") MPW-01-**-**-70			F-36		
Flow Control and Check Valves (for "A-Line", Meter-in) MFA-01-Y-10		F-25	Modular Plates and Mounting Bolts	End Plates (Blocking Plates) MDC-01-A-30			F-38	
Flow Control and Check Valves (for "B-Line", Meter-out) MFB-01-X-10		F-25		End Plates (Bypass plates) MDC-01-B-30			F-38	
Flow Control and Check Valves (for "B-Line", Meter-in) MFB-01-Y-10		F-25		Connecting Plates (for "P&A-Lines") MDS-01-PA-30			F-38	
Flow Control and Check Valves (for "A&B-Lines", Meter-out) MFW-01-X-10		F-25		Connecting Plates (for "P&B-Lines") MDS-01-PB-30		F-38		
Flow Control and Check Valves (for "A&B-Lines", Meter-in) MFW-01-Y-10		F-25		Connecting Plates (for "A&T-Lines") MDS-01-AT-30		F-38		
Temperature Compensated Throttle and Check Valves (for "A-Line", Meter-out) MSTA-01-X-10		F-27		Base Plates MMC-01-**-40		F-39		
Temperature Compensated Throttle and Check Valves (for "B-Line", Meter-out) MSTB-01-X-10		F-27		Bolt Kits MBK-01-**-70		F-41		
Temperature Compensated Throttle and Check Valves (for "A&B-Lines", Meter-out) MSTW-01-X-10		F-27						

★ Please refer to the catalog page of "E: Directional Control Valves"

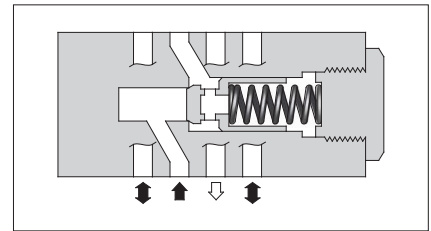
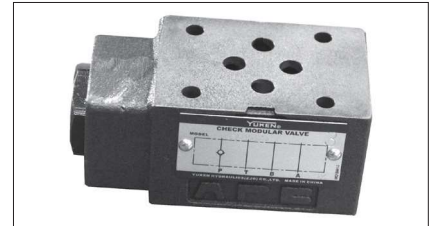
# Check Modular Valves

## Specifications

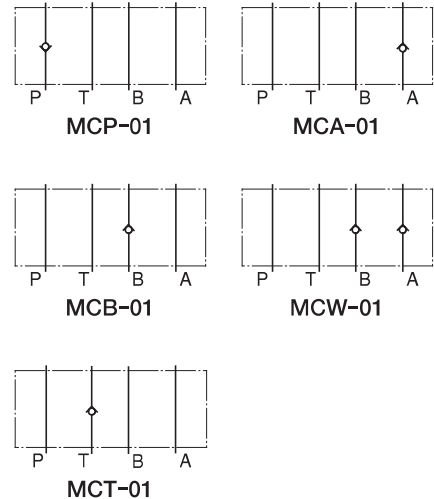
Model Numbers	Max. Operating Pressure MPa	Max. Flow L/min
MC *-01- *-70	35	60

## Model Number Designation

MCP	-01	-0	-70
Series Number	Valve Size	Cracking Pressure MPa	Design Number
<b>MCP:</b> Check Valve for P-Line <b>MCA:</b> Check Valve for A-Line <b>MCB:</b> Check Valve for B-Line <b>MCT:</b> Check Valve for T-Line <b>MCW:</b> Check Valve for A-Line & B-Line	01	0: 0.035 2: 0.2 4: 0.4	70



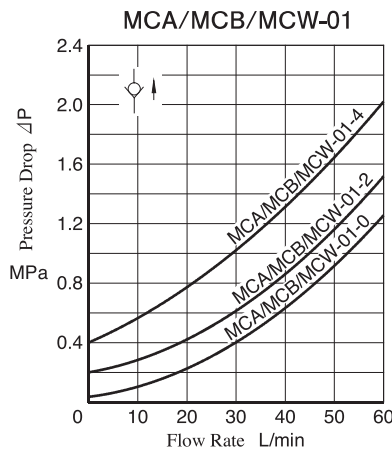
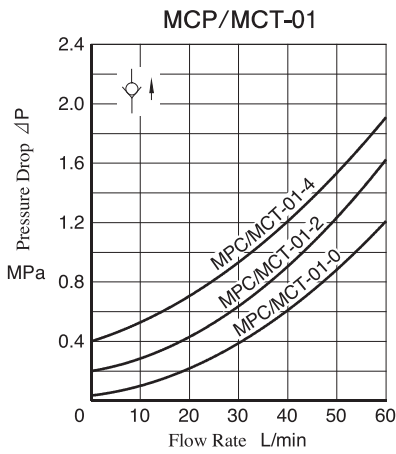
Graphic Symbols



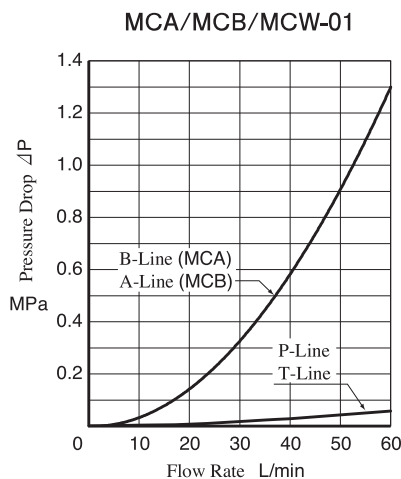
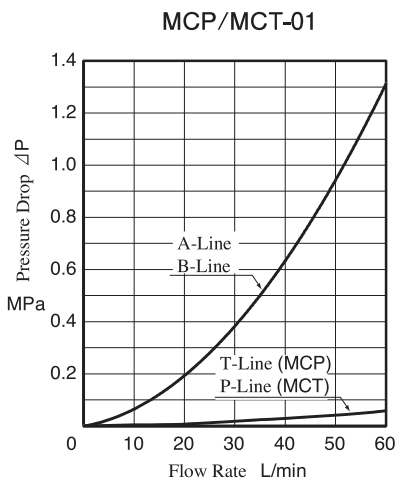
## Typical Performance Characteristics

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

Pressure Drop for Free Flow

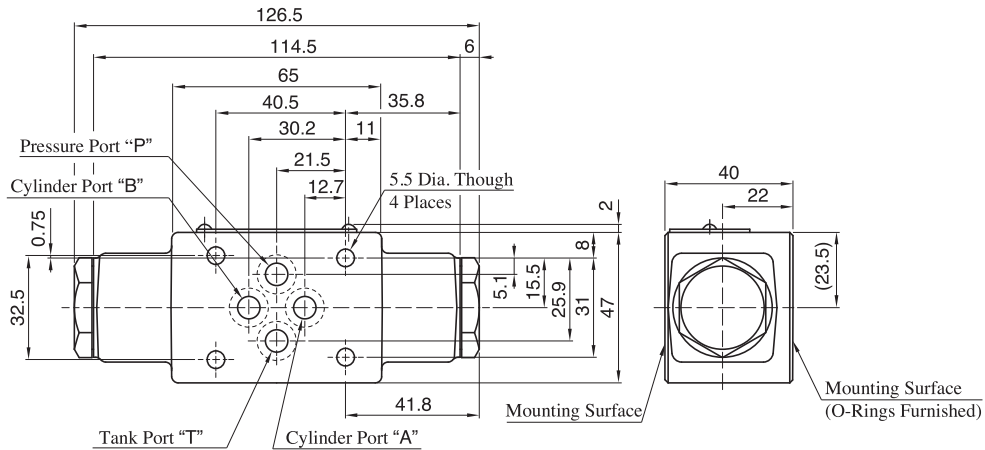


Pressure Drop of each line



01 Series Modular Valves

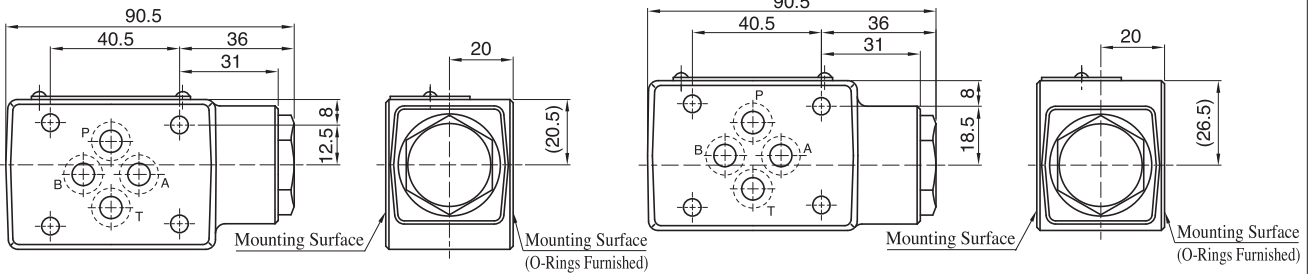
**MCA-01  
MCB-01  
MCW-01**



Approx. Mass.....1.2 kg

**MCP-01**

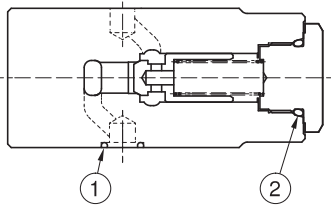
**MCT-01**



● Please refer to the drawing above (MCA-01/MCB-01/MCW-01) for other dimensions. Approx. Mass.....1.0 kg

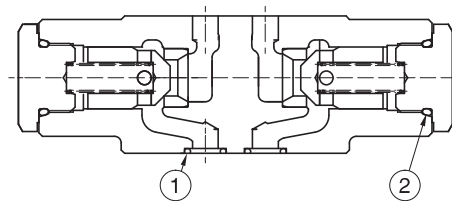
**List of Seals**

**MCP-01  
MCT-01**



Item	Name of Parts	Part Numbers	Qty.
1	O-Ring	OR NBR-90 P9-N	4
2	O-Ring	OR NBR-90 P18-N	1

**MCA-01  
MCB-01  
MCW-01**



Please refer to the drawing above for MCW-01.

- MCA-01 does not have poppet, spring or seat built in the left side.
- MCB-01 does not have poppet, spring or seat built in the right side.

Item	Name of Parts	Model of Parts	Qty.
1	O-Ring	OR NBR-90 P9-N	4
2	O-Ring	OR NBR-90 P18-N	2