

01 Series Modular Valves

Type of Modular Valve

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

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

Reducing Modular Valves

Specifications

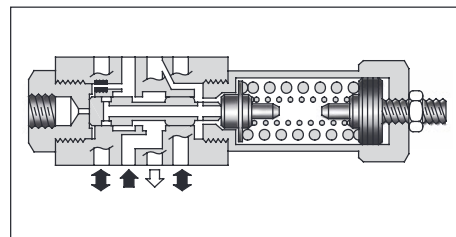
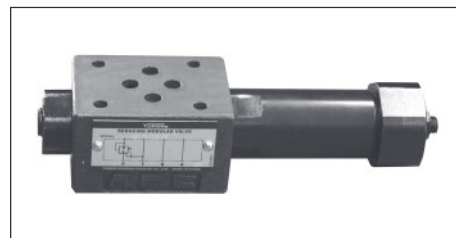
Model Numbers	Max. Operating Pressure MPa	Max. Flow L/min
MR *-01- *- *-70	35	60 ★

★ If the pressure is set below 0.5 MPa, the maximum flow is limited.
See the "Min. Adjustment Pressure vs. Max. Flow" of this page and during use, stay within the shaded zone on the graph.

Model Number Designation

MRP	-01	-A	-B	-70
Series Number	Valve Size	Pres.Adj. Range MPa	Pres.Adj. Screw Position	Design Number
MRP: Reducing Valve for P-Line	01	A: ★-3.5	None: A Port Side B: B Port Side	70
MRA: Reducing Valve for A-Line		B: 0.8-7		
MRB: Reducing Valve for B-Line		C: 3.5-14 H: 7-21		

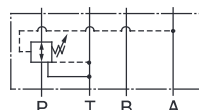
★ See the "Min. Adjustment Pressure vs. Max. Flow" of this page.



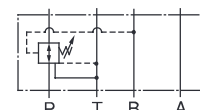
Graphic Symbols



MRP-01



MRA-01

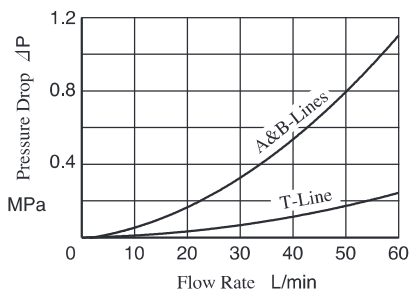


MRB-01

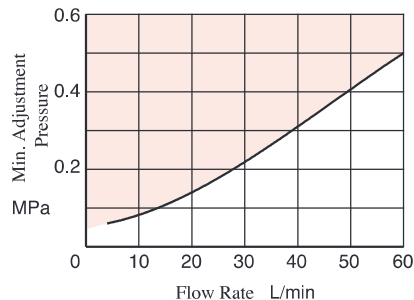
Typical Performance Characteristics

Hydraulic Fluid: Viscosity 35 mm²/s, Specific Gravity 0.850

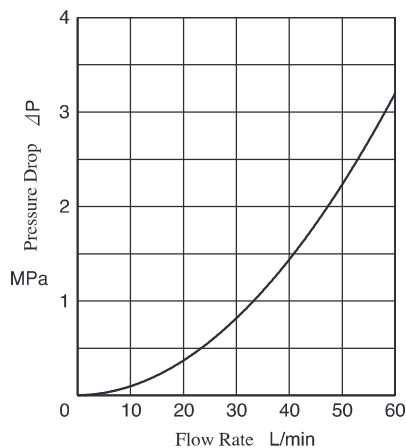
Pressure Drop



Min. Adjustment Pressure vs. Max. Flow

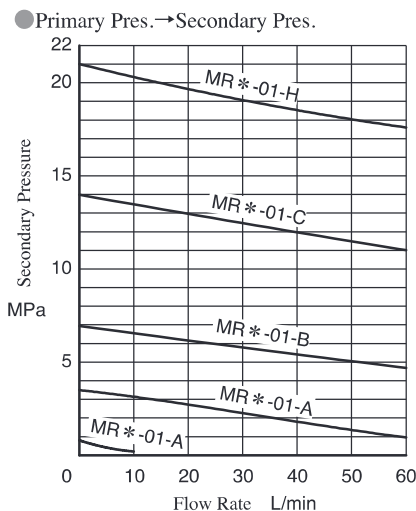


Pres. Drop at Spool Fully Open (P-Line)

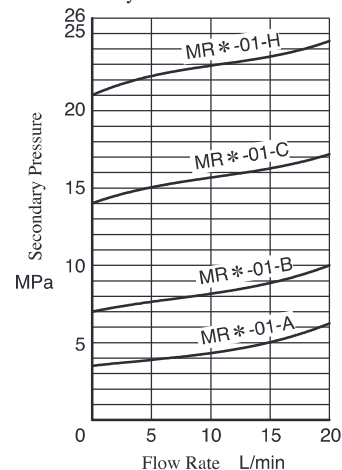


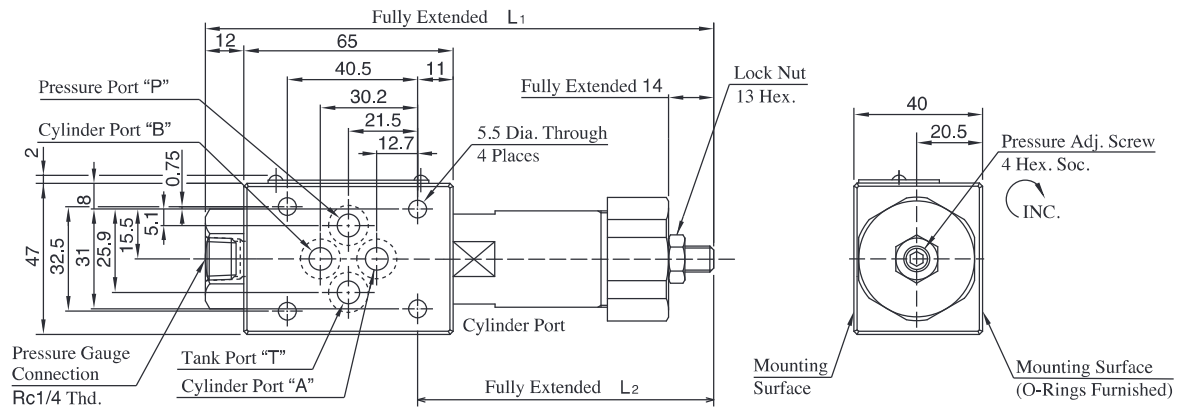
Nominal Override Characteristics

Primary Pressure 35 MPa



Secondary Pres. → T Line





List of Seals

MRP-01
MRA-01
MRB-01

