01 Series Modular Valves

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		P T B A		*		Throttle Valves (for "P-Line") MSP-01-50 Throttle Valves (for "T-Line") MST-01-50	H-	T E	3 A	F-29
	Releif Valves (for "P-Line") MBP-01-*-70	<u> </u>		F-12		Check and Throttle Valves (for "P-Line") MSCP-01-30	*			F-30
	Releif Valves (for "A-Line") MBA — 01 — * — 70	•		F-12		Throttle and Check Valves (for "A-Line", Meter-out) MSA-01-X-70			**	F-31
	Releif 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	ontrol	Throttle and Check Valves (for "B-Line", Meter-out) MSB-01-X-70		₩	F	F-31
	Reducing Valves (for "A-Line") MRA = 01 = * = 70		<u> </u>	F-14	Flow C	Throttle and Check Valves (for "B-Line", Meter-in) MSB-01-Y-70		4	+	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		€	r 183	F-31
Valves	Two Pressure Reducing Valves (for "P-Line")	wa (f)		F-16		Throttle and Check Valves (for "A&B-Lines", Meter-in) MSW-01-Y-70		<i>₽</i>		F-31
Pressure Control Valves	MRDP-01-*-*-*-10		•			Throttle and Check Valves (for "A&B-Lines", Meter-out, Meter-in) MSW-01-XY-70		4	r Po	F-31
ssure C	Brake Valves MBR-01-*-30 Sequence Valves			F-18		Throttle and Check Valves (for "A&B-Lines", Meter-in, Meter-out) MSW-01-YX-70		€		F-31
Pres	(for "P-Line") MHP-01-*-70 Counterbalance Valves	[-	 	F-19	Control Valves	Check Valves (for "P-Line") MCP-01-*-70	\			F-33
	(for "A-Line") MHA-01- * -70 Counterbalance Valves			F-19		Check Valves (for "A-Line") MCA-01-*-70			†	F-33
	(for "B-Line") MHB-01-*-70 Pressure Switch Valves	· · · · · · · · · · · · · · · · · · ·		F-19		Check Valves (for "B-Line") MCB-01-*-70				F-33
	(for "P-Line") MJP-01-*-*-10 Pressure Switch Valves	Š		F-22		Check Valves (for "T-Line") MCT-01-*-70		♦		F-33
	(for "A-Line") MJA-01-*-*-10 Pressure Switch Valves			F-22		Check Valves (for "A&B-Line") MCW-01-*-70			\	F-33
	(for "B-Line") MJB-01-*-*-10 Pressure Switch Valves			F-22	Directional	Anti-Cavitation Valves MAC-01-30		*	\	F-35
	(for "A&B-Line") MJW-01-J-*-10 Flow Control Valves	<i>2</i>	<u> </u>	F-22	Dir	Pilot Operated Check Valves (for "A-Line") MPA-01- * - * -70			 	F-36
	(for "P-Line") MFP-01-10 Flow Control and Check Valves (for "A-Line", Meter-out)	*		F-25 F-25	-	Pilot Operated Check Valves (for "B-Line") MPB-01- * - * - 70		E	5	F-36
	MFA-01-X-10 Flow Control and Check Valves (for "A-Line", Meter-in)			F-25		Pilot Operated Check Valves (for "A&B-Lines") MPW-01-*-*-70		E	, b	F-36
SS	MFA-01-Y-10 Flow Control and Check Valves (for "B-Line", Meter-out)			F-25		End Plates (Blocking Plates)) MDC-01-A-30	Ţ	1 1	T	F-38
Flow Control Valves	MFB-01-X-10 Flow Control and Check Valves (for "B-Line", Meter-in)			F-25		End Plates (Bypass plates) MDC-01-B-30				F-38
	MFB-01-Y-10 Flow Control and Check Valves (for "A&B-Lines", Meter-out)			F-25	and Mounting	Connecting Plates (for "P&A-Lines") MDS-01-PA-30				F-38
	MFW-01-X-10 Flow Control and Check Valves (for "A&B-Lines", Meter-in) MFW-01-Y-10			F-25	and M	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		1 5	F-27	Modular Plates	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	1odula	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	2	Bolt Kits MBK-01- * -70				F-41

Pressure and Temperature Compensated Flow Control (and Check) Modular Valves

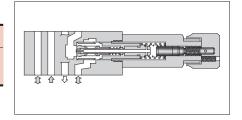
Specifications

Model Numbers	Max. Operating Pressure MPa	Max. Metered Flow L/min	Max. Free Flow L/min	
MFP-01-10	16	25		
MF*-01-*-10	16	35	35	



Model Number Designation

MFA	-01	-X	-10
Series Number	Valve Size	Direction of Flow	Design Number
MFP: Flow Control Valve for P-Line			10
MFA: Flow Control and Check Valve for A-Line MFB: Flow Control and Check Valve for B-Line MFW: Flow Control and Check Valve for A&B-Lines		X: Meter-out Y: Meter-in	10

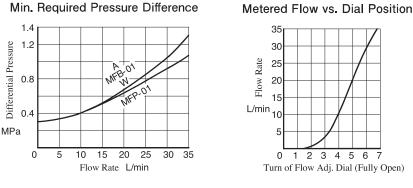


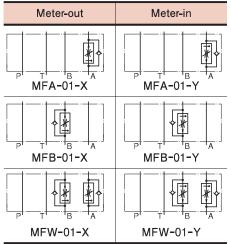
Graphic Symbols

MFP-01

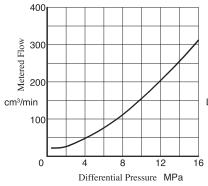
Typical Performance Characteristics

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

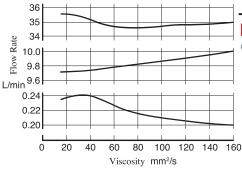




Min. Metered Flow



Metered Flow vs. Viscosity

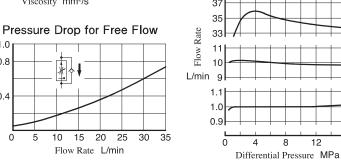


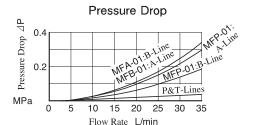
Instructions

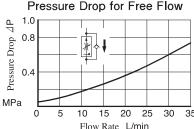
To make flow rate adjustment, loosen locking screw for the dial and turn the flow adjustment dial clockwise or anti-clockwise. For a decrease of flow, turn the dial clockwise. Be sure to re-tighten the locking screw firmly after the adjustment of the flow rate.

Metered Flow vs. Differential Pres.

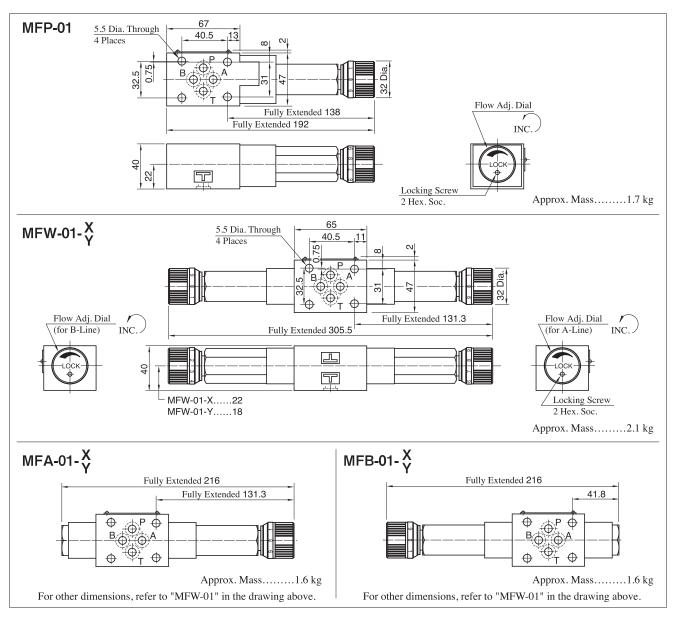
12







YUKEN



List of Seals

