01 Series Modular Valves

Class	Name and Model Numbers	Graph	nic Symbols	Page	Class	Name and Model Numbers		aphic S		Page
	noid Operated Directional Valve (S-) DSG-01-***-70 E-DSG-01-***-D*-70 T-DSG-01-***-D24*-70 G-DSG-01-***-51	P	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	4	- B A	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			16	F-31
	Releif Valves (for "B-Line") MBB-01-*-70			F-12	Valves	Throttle and Check Valves (for "A-Line", Meter-in) MSA-01-Y-70			1	F-31
	Reducing Valves (for "P-Line") MRP-01-*-70		1	F-14	Control Valves	Throttle and Check Valves (for "B-Line", Meter-out) MSB-01-X-70		₽	+	F-31
	Reducing Valves (for "A-Line") MRA = 01 = * = 70		<u></u>	F-14	F-14 No. F-14 F-16 F-18 F-1	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		€	F 180	F-31
Pressure Control Valves	Two Pressure Reducing Valves (for "P-Line") MRDP-01-*-*-*-10	war (f)	•	F-16		Throttle and Check Valves (for "A&B-Lines", Meter-in) MSW-01-Y-70 Throttle and Check Valves		6	* **	F-31
e Contro	Brake Valves MBR-01-*-30			F-18		(for "A&B-Lines", Meter-out, Meter-in) MSW-01-XY-70 Throttle and Check Valves		선		F-31
ressure	Sequence Valves (for "P-Line")		元	F-19		(for "A&B-Lines", Meter-in, Meter-out) MSW-01-YX-70 Check Values		언	* ***	F-31
_	MHP-01-*-70 Counterbalance Valves (for "A-Line") MHA-01-*-70			F-19	F-19 F-22 F-22 F-22 F-22 F-22	(for "P-Line") MCP-01-*-70 Check Values	$\overline{}$			F-33 F-33
	Counterbalance Valves (for "B-Line") MHB-01-*-70			F-19		(for "A-Line") MCA-01-*-70 Check Valves (for "B-Line")	+			F-33
	Pressure Switch Valves (for "P-Line") MJP-01-*-*-10	Š		F-22		MCB-01-*-70 Check Valves (for "T-Line")				
	Pressure Switch Valves (for "A-Line") MJA-01-*-*-10			F-22		MCT-01-*-70 Check Valves (for "A&B-Line")				F-33
	Pressure Switch Valves (for "B-Line") MJB-01-*-*-10			F-22		MCW-01- * -70 Anti-Cavitation Valves	+		\	F-33
	Pressure Switch Valves (for "A&B-Line") MJW-01-J-*-10	<i>5</i>	7	F-22		MAC-01-30 Pilot Operated Check Valves	+	*	·	F-35
	Flow Control Valves (for "P-Line") MFP-01-10	*		F-25		(for "A-Line") MPA-01-*-*-70 Pilot Operated Check Valves	+		<u></u>	F-36
	Flow Control and Check Valves (for "A-Line", Meter-out) MFA-01-X-10			F-25		(for "B-Line") MPB-01-*-*-70 Pilot Operated Check Valves	\perp	<u> </u>	<u></u>	F-36
	Flow Control and Check Valves (for "A-Line", Meter-in) MFA-01-Y-10			F-25		(for "A&B-Lines") MPW-01-*-*-70 End Plates		E	ф	F-36
lves	Flow Control and Check Valves (for "B-Line", Meter-out) MFB-01-X-10			F-25	Bolts	(Blocking Plates)) MDC-01-A-30 End Plates				F-38
trol Va	Flow Control and Check Valves (for "B-Line", Meter-in) MFB-01-Y-10			F-25	ting Bo	(Bypass plates) MDC-01-B-30 Connecting Plates				F-38
Flow Control Valves	Flow Control and Check Valves (for "A&B-Lines", Meter-out) MFW-01-X-10			F-25	and Mounting	(for "P&A-Lines") MDS-01-PA-30 Connecting Plates	\rightarrow	_		F-38
FIc	Flow Control and Check Valves (for "A&B-Lines", Meter-in) MFW-01-Y-10			F-25	tes and	(for "P&B-Lines") MDS-01-PB-30 Connecting Plates	_			F-38
	Temperature Compensated Throttle and Check Valves (for "A-Line", Meter-out) MSTA-01-X-10 Temperature Compensated Throttle and			F-27	Modular Plates	(for "A&T-Lines") MDS-01-AT-30	\rightarrow			F-38
	Temperature Compensated Throttle and Check Valves (for "B-Line", Meter-out) MSTB-01-X-10 Temperature Compensated Throttle and			F-27	Modu	Base Plates MMC-01-*-40	_			F-39
	Temperature Compensated Throttle and Check Valves (for "A&B-Lines", Meter-out) MSTW-01-X-10		<u> * * * * * * * * * * * * * * * * * * *</u>	F-27		Bolt Kits MBK-01-*-70				F-41

Sequence Modular Valves/Counterbalance Modular Valves

Specifications

Model Numbers	Max. Operating Pressure MPa	Max. Flow L/min	
MHP-01-*-*-70	35	60	
MHA/MHB-01-*-70	33	00	

Model Number Designation

MHP	-01	-B	– B	– 70
Series Number	Valve Size	Pres. Adj. Range MPa	Pres. Adj. Screw Position	Design Number
MHP: Sequence Valve for P-Line	01	B: ★ -7 C: 3.5-14	None: A Port Side B: B Port Side	70
MHA: Counterbalance Valve for A-Line MHB: Counterbalance Valve for B-Line		H: 7-21 K: 14-35	_	/0



Instructions

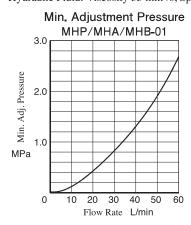
- The minimum adjustment pressure for MHP-01 equals the value obtained from the minimum adjustment pressure characteristics plus the tank line back pressure. This back pressure should include the value of the T-Line pressure drop characteristics of the valves stacked.
- The minimum adjustment pressure for MHA-01 and MHP-01 equals the value obtained from the minimum adjustment pressure characteristics plus the outlet-side back pressure of the valve.

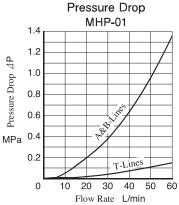
The outlet-side back pressure should include the values of the A(B)-Line pressure drop.

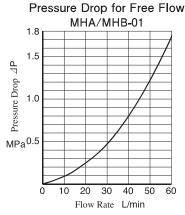
• To make pressure adjustment, loosen the lock nut and turn the pressure adjustment screw clockwise or anti-clockwise. For increasing pressure, turn the screw clockwise. Be sure to re-tighten the lock nut firmly after making adjustment to the pressure.

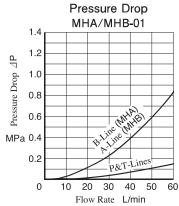
Typical Performance Characteristics

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

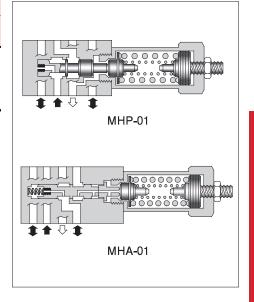




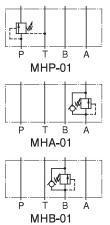








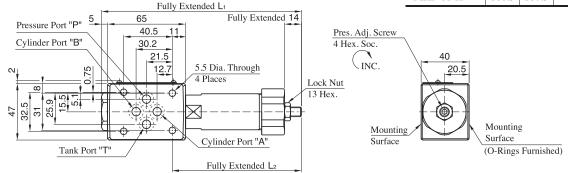
Graphic Symbols





MHP-01-B/C/H

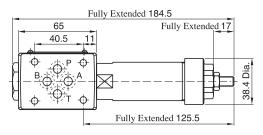
Model Numbers	L ₁	L2	Mass kg
MHP-01-B/C	151	92	1.45
MHP-01-H	166.5	107.5	1.55

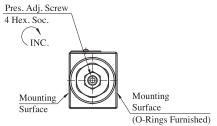


65

40.5

MHP-01-K

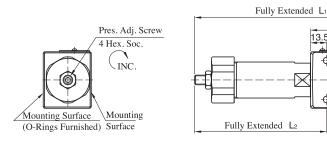




● For other dimensions, refer to "MHP-01-B/C/H" in the above figure.

Approx. Mass......1.65 kg

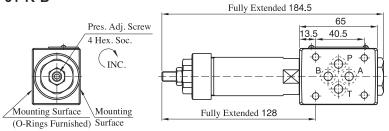
MHP-01-B-B MHP-01-C-B MHP-01-H-B



Model Numbers	L ₁	L2	Mass kg
MHP-01-B-B MHP-01-C-B	151	94.5	1.45
MHP-01-H-B	166.5	110	1.55

● For other dimensions, refer to "MHP-01-B/C/H" drawing above.

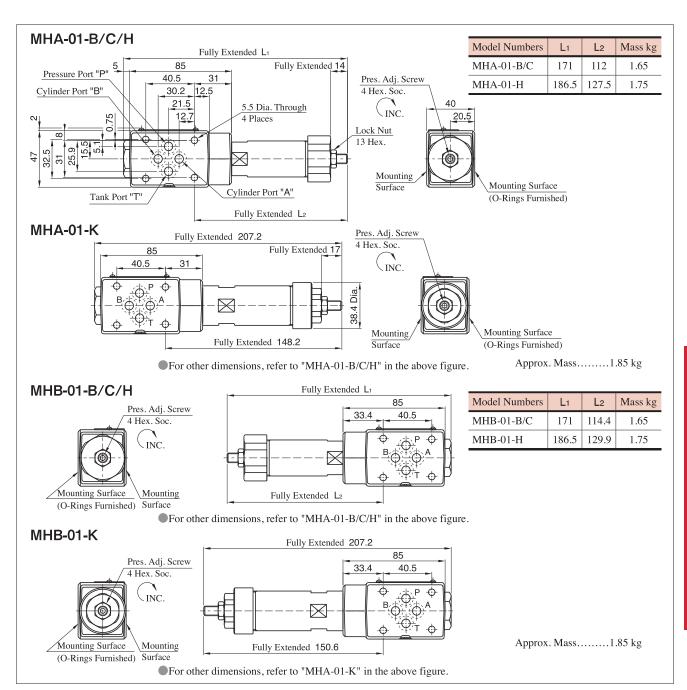
MHP-01-K-B



Approx. Mass......1.65 kg

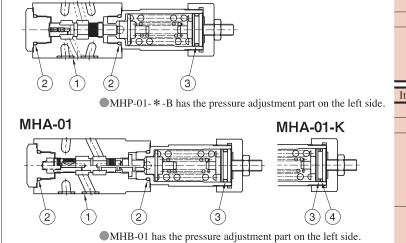
●For other dimensions, refer to "MHP-01-K" in the above figure.





List of Seals

MHP-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	2	_
3	O-Ring	OR NBR-70-1 P20-N [MHP-01-B/C/H] OR NBR-70-1 P22-N [MHP-01-K]	1	_
Item	Name of Parts	Part Numbers		(
 		OR 11DB 00 B0 11		

Item	Name of Parts	Part Numbers	Qty.
1	O-Ring	OR NBR-90 P9-N	4
2	O-Ring	OR NBR-90 P18-N	2
3	O-Ring	OR NBR-90 P20-N [MHA-01-B/C/H] MHB-01-B/C/H] OR NBR-90 P22-N [MHA-01-K] MHB-01-K]	1
4	Back-up Ring	BR JIS B 2401-4-T2-P22 [MHA-01-K] MHB-01-K]	1