

01 Series Modular Valves

MB*-01-*-70

MR*-01-*-70

MHP-01-*-70

MHA/MHB-01-*-70

MS*-01-*-70

MC*-01-*-70

MP*-01-*-70

MBK-01-*-70

Notice of Model Change

We are pleased to announce that due following products from

01 Series Modular Valves having been upgraded for high pressure and large flow there is a model change to 70 design.

Name	Model Number
01 Series Relief Modular Valves	MB*-01-*-70
01 Series Reducing Modular Valves	MR*-01-*-70
01 Series Sequence Modular Valves	MHP-01-*-70
01 Series Counterbalance Modular Valves	MHA/MHB-01-*-70
01 Series Throttle and Check Modular Valves	MS*-01-*-70
01 Series Check Modular Valves	MC*-01-*-70
01 Series Pilot Operated Check Modular Valves	MP*-01-*-70
01 Series Mounting Bolt Kits For Modular Valves	MBK-01-*-70



■ Major Changes

- (1) Both Max. Operating Pressure (35 MPa) and Max. Flow have been largely increased
- (2) There is an option for pressure adjustment screw direction towards B port for the following three models:
 - ① 01 Series Relief Modular Valves (for P line only)
 - ② 01 Series Reducing Modular Valves (for P, A, and B lines)
 - ③ 01 Series Sequence Modular Valves
- (3) 01 Series Counterbalance Modular Valves got model for B line added.
- (4) 01 Series Pilot Operated Check Modular Valves allow to opt for low pilot operation type added as a standard model.

Product News

■ Installation Interchangeability

Interchangeability	Details
Yes	<ul style="list-style-type: none"> •No mounting surface changes between old and new design •Be sure to use 70 Design MBK-01 Mounting Bolt Kits For Modular Valves if operating at adjusted pressure above 25 MPa. Please, set up tightening torque at 6~7N·m and limit the quantity of valves to be stacked to no more than 4 valves including a solenoid valve.

■ Timing of Release

Timing	Details
Jan 2019	Start of Sales. Planned gradual release upon depletion of current stock.

■ Specifications

Name	Model Number	Max. Operating Pressure MPa	Max. Flow L/min
01 Series Relief Modular Valves	MB*-01-*-70	35	60
01 Series Reducing Modular Valves	MR*-01-*-70		60
01 Series Sequence Modular Valves	MHP-01-*-70		60
01 Series Counterbalance Modular Valves	MHA/MHB-01-*-70		60
01 Series Throttle and Check Modular Valves	MS*-01-*-70		80
01 Series Check Modular Valves	MC*-01-*-70		60
01 Series Pilot Operated Check Modular Valves	MP*-01-*-70		60

■ Specification Comparison between Old and New Design

● Max. Operating Pressure

Name	Old Product		New Product	
	Model Number	Max. Operating Pressure MPa	Model Number	Max. Operating Pressure MPa
01 Series Relief Modular Valves	MB*-01-*-30	21	MB*-01-*-70	35
01 Series Reducing Modular Valves	MR*-01-*-30	31.5	MR*-01-*-70	
01 Series Sequence Modular Valves	MHP-01-*-30	25	MHP-01-*-70	
01 Series Counterbalance Modular Valves	MHA-01-*-30	25	MHA/MHB-01-*-70	
01 Series Throttle and Check Modular Valves	MS*-01-*-50	31.5	MS*-01-*-70	
01 Series Check Modular Valves	MC*-01-*-30	31.5	MC*-01-*-70	
01 Series Pilot Operated Check Modular Valves	MP*-01-*-40	31.5	MP*-01-*-70	
	MP*-01-*-4001	31.5	MP*-01-*-L-70	

Product News

●Max. Flow

Name	Old Product		New Product	
	Model Number	Max. Flow L/min	Model Number	Max. Flow L/min
01 Series Relief Modular Valves	MB*-01-*-30	35	MB*-01-*-70	60
01 Series Reducing Modular Valves	MR*-01-*-30	35	MR*-01-*-70	60
01 Series Sequence Modular Valves	MHP-01-*-30	35	MHP-01-*-70	60
01 Series Counterbalance Modular Valves	MHA-01-*-30	35	MHA/MHB-01-*-70	60
01 Series Throttle and Check Modular Valves	MS*-01-*-50	60	MS*-01-*-70	80
01 Series Check Modular Valves	MC*-01-*-30	35	MC*-01-*-70	60
01 Series Pilot Operated Check Modular Valves	MP*-01-*-40	35	MP*-01-*-70	60
	MP*-01-*-4001	35	MP*-01-*-L-70	60

■Model Number Designation Comparison Between Old and New Design

●Added Features

Name	Model Number	Additional Description
01 Series Relief Modular Valves	MBP-01-*-B-70	Can opt for pres. adj. screw directed towards B port
01 Series Reducing Modular Valves	MR*-01-*-B-70	Can opt for pres. adj. screw directed towards B port
01 Series Sequence Modular Valves	MHP-01-*-B-70	Can opt for pres. adj. screw directed towards B port
01 Series Counterbalance Modular Valves	MHB-01-*-70	Counterbalance valve for B line added
01 Series Pilot Operated Check Modular Valves	MP※-01-*-L-70	Can opt for low pilot operation type as a standard model

●Pressure Adjustment Range

Name	Old Product		New Product	
	Model Number	Pres. Adj. Range MPa	Model Number	Pres. Adj. Range MPa
01 Series Relief Modular Valves	MB*-01-*-30	C:★~14 H:7~21	MB*-01-*-70	B:★~7 C:3.5~14 H:7~21 K:14~35
01 Series Reducing Modular Valves	MR*-01-*-30	B:★~7 C:3.5~14 H:7~21	MR*-01-*-70	A:★~3.5 B:0.8~7 C:3.5~14 H:7~21
01 Series Sequence Modular Valves	MHP-01-*-30	C:★~14 H:7~21	MHP-01-*-70	B:★~7 C:3.5~14 H:7~21 K:14~35
01 Series Counterbalance Modular Valves	MHA-01-※-30		MHA/MHB-01-*-70	

★Performance characteristics vary depending on the lowest adjustable pressure. Please, consult the drawing for details.

Product News

●Cracking Pressure

Name	Old Product		New Product	
	Model Number	Cracking Pres. MPa	Model Number	Cracking Pres. MPa
01 Series Pilot Operated Check Modular Valves	MP*-01-*-40	2:0.2	MP*-01-*-70	0:0.035
	MP*-01-*-4001	4:0.4	MP*-01-*-L-70	2:0.2 4:0.4

●Dimensions

Height (40mm) and maximum depth are the same for new and old design (excluding MBK-01). Except for the products listed below maximum width for new and old design is the same.

Name	Old Product		New Product	
	Model Number etc.	Dimensions mm Max. width	Model Number etc.	Dimensions mm Max. width
01 Series Relief Modular Valves Pressure Adjustment Range "K"	There is no pressure adjustment range "K", but Max. width for pressure adjustment range "H" is as follows:		MB*-01-*-K-70	Max. 184.5
01 Series Sequence Modular Valves Pressure Adjustment Range "K"	MB※-01-H-30: Max. 166.5		MHP-01-*-K-70	Max. 184.5
01 Series Counterbalance Modular Valves Pressure Adjustment Range "K"	MHP-01-H-30: Max. 166.5 MHA-01-H-30: Max. 186.5		MHA/MHB-01-K-70	Max. 206
01 Series Check Modular Valves for P Line and T Line	MCP/MCT-01-*-30	90	MCP/MCT-01-*-70	90.5
01 Series Mounting Bolt Kits For Modular Valves	MBK-01-01-30	94	MBK-01-01-70	98
	MBK-01-02-30	134	MBK-01-02-70	138
	MBK-01-03-30	174	MBK-01-03-70	178
	MBK-01-04-30	214	MBK-01-04-70	218
	Nut	15	Nut	20

■Drawing

Please, refer to the drawing for model number designation, external shape, dimensions, and hydraulic symbol of each model. Please, consult us on performance characteristics etc.

Name	Model Number	Drawing Number
01 Series Relief Modular Valves	MB*-01-*-70	3110-VA327610-2
01 Series Reducing Modular Valves	MR*-01-*-70	3111-VA327613-6
01 Series Sequence Modular Valves	MHP-01-*-70	3112-VA327616-9
01 Series Counterbalance Modular Valves	MHA/MHB-01-*-70	3114-VA327619-3
01 Series Throttle and Check Modular Valves	MS*-01-*-70	3130-VA327623-5
01 Series Pilot Operated Check Modular Valves	MP*-01-*-70	3150-VA327627-6
	MP*-01-*-L-70	3150-VA327629-2
01 Series Check Modular Valves	MC*-01-*-70	3151-VA327631-8
01 Series Mounting Bolt Kits For Modular Valves	MBK-01-*-70	3100-VA327634-2