

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 the modular valves for 01 series, highly appreciated, have been remodeled, and their design number has been changed to 70.

Name	New 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 & 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) Max. operating pressure (35 MPa)・Max. Flow rate have been increased.
- (2) The position of pressure adjustment screw on the B-port side has been selectable for the 3 models below:
 - ① 01 Series Relief Modular Valves (P-Line only)
 - ② 01 Series Reducing Modular Valves (P/A/B-Line)
 - ③ 01 Series Sequence Modular Valves
- (3) 01 Series Counterbalance Modular Valve for B-Line has been added to the model number designation.
- (4) 01 Series Low Pilot Pressure Control Type Pilot Operated Check Modular Valves have been selectable as a standard model.

■ Interchangeability

Interchangeability	Details
Interchangeable	<ul style="list-style-type: none"> • This model change does not involve any changes to the appearance and installation of these valves. • When using an adjustment pressure at 25 MPa or more, please be sure to use 70 designs of the bolt kit for the modular valves. Set the tightening torque to 6 - 7N·m, and limit the total number of stacked valves to 4 stages including solenoid valve.

■ Timing of Release

Timing of Release	Details
January 2019	-

■ Specification

Name	Model Numbers	Max. Operating Pressure MPa	Max. Flow Rate 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 & 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

■ Interchangeability in Specification between Current & New Design

● Max. Operating Pressure

Name 01 Series Relief Modular Valves	Current		New	
	Model Numbers	Max. Pres. MPa	Model Numbers	Max. Pres. 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 & 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	

●Max. Flow Rate

Name 01 Series Relief Modular Valves	Current		New	
	Model Numbers	Max. Flow Rate L/min	Model Numbers	Max. Flow Rate 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 & 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

●New Function Added

Name	Model Numbers	Details
01 Series Relief Modular Valves	MBP-01-※-B-70	Position of Pres. Adj. Screw: B Port Side Available
01 Series Reducing Modular Valves	MR※-01-※-B-70	Position of Pres. Adj. Screw: B Port Side Available
01 Series Sequence Modular Valves	MHP-01-※-B-70	Position of Pres. Adj. Screw: B Port Side Available
01 Series Counterbalance Modular Valves	MHB-01-※-70	Addition of the valve for B-Line
01 Series Pilot Operated Check Modular Valves	MP※-01-※-L-70	Low Pres. Ctrl. Type Available as Standard Model

●Pressure Adjustment Ranges

Name	Current		New	
	Model Numbers	Pres. Adj. Range MPa	Model Numbers	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	

★The value is different depending on the characteristics “Minimum Adj. Pres. vs. Max. Flow”. Please consult Yuken for details.

●Cracking Pressure

Name	Current		New	
	Model Numbers	Cracking Pres. MPa	Model Numbers	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

●Appearance

The max. height (40 mm) and the max. depth dimensions are the same between current and new model (MBK-01 exclusive). Regarding the max. dimensions in the width direction other than the following products, the dimension of the new models are the same as current model or less.

Name	Current		New	
	Model Numbers	Dimension mm	Model Numbers	Dimension mm
01 Series Relief Modular Valves Pres. Adj. Range: "K"	Pres. Adj. Range "K": None The dimension in the width direction in the pres. adj. range "H" is as follows: MB※-01-H-30: Max. 166.5 MHP-01-H-30: Max. 166.5 MHA-01-H-30: Max. 186.5		MB※-01-※-K-70	Max. 184.5
01 Series Sequence Modular Valves Pres. Adj. Range: "K"			MHP-01-※-K-70	Max. 184.5
01 Series Counterbalance Modular Valves Pres. Adj. Range: "K"			MHA/MHB-01-K-70	Max. 206
01 Series Check Modular Valves P-Line & 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
	Nuts	15	Nuts	20

■Drawing Numbers

Refer to drawing for the model number designations and appearances, dimensions, hydraulic diagram symbols etc. in each model.

Name	Model Numbers	Drawing Numbers
01 Series Relief Modular Valves	MB※-01-※-※-70	3110-VA330996-0
01 Series Reducing Modular Valves	MR※-01-※-※-70	3111-VA330997-8
01 Series Sequence Modular Valves	MHP-01-※-※-70	—
01 Series Counterbalance Modular Valves	MHA/MHB-01-※-70	—
01 Series Throttle & Check Modular Valves	MS※-01-※※-70	3130-VA330998-6
01 Series Check Modular Valves	MP※-01-※-70	3150-VA330999-4
01 Series Pilot Operated Check Modular Valves	MP※-01-※-L-70	3150-VA331000-0
01 Series Mounting Bolt Kits for Modular Valves	MC※-01-※-70	3151-VA331001-8
01 Series Relief Modular Valves	MBK-01-※-70	3100-VA331016-6