

## 03 Series Modular Valves

**MB\*-03-\*-70**

**MR\*-03-\*-70**

**MS\*-03-\*-70**

**MC\*-03-\*-70**

**MP\*-03-\*-70**

**MBK-03-\*-70**

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### Notice of model change

We are pleased to announce that due following products from 03 Series Modular Valves having been upgraded for high pressure and large flow there is a model change to 70 design.



Name	Model Number
03 Series Relief Modular Valves	MB*-03-*-70
03 Series Reducing Modular Valves	MR*-03-*-70
03 Series Throttle and Check Modular Valves	MS*-03-*-70
03 Series Check Modular Valves	MC*-03-*-70
03 Series Pilot Operated Check Modular Valves	MP*-03-*-70
03 Series Mounting Bolt Kits For Modular Valves	MBK-03-*-70

#### ■ Major Changes

- (1)Both Max. Operating Pressure (35 MPa) and Max. Flow have been largely increased
- (2)03 Series Pilot Operated Check Modular Valves allow to opt for low pilot operation type added as a standard model.

#### ■ Installation Interchangeability

Interchangeability	Details
Yes	<ul style="list-style-type: none"> <li>•No mounting surface changes between old and new design</li> <li>•Be sure to use 70 Design MBK-03 Mounting Bolt Kits For Modular Valves if operating at adjusted pressure above 25 MPa. Please, set up tightening torque at 12~15N•m and limit total quantity of valves to be stacked to no more than 2 valves including a solenoid valve</li> <li>•Screw length of the mounting bolts in MBK-03-*-70 differs. Please, be careful as the longer screw belongs to the nut side</li> </ul>

#### ■ Timing of Release

Timing	Details
March 2020	Order reception start
April 2020	Start of sales. Planned gradual release upon depletion of current stock.

# Product News

## ■ Specifications

Name	Model Number	Max. Operating Pressure MPa	Max. Flow L/min
03 Series Relief Modular Valves	MB*-03-*-70	35	120
03 Series Reducing Modular Valves	MR*-03-*-70		
03 Series Throttle and Check Modular Valves	MS*-03-*-70		160
03 Series Check Modular Valves	MC*-03-*-70		
03 Series Pilot Operated Check Modular Valves	MP*-03-*-70		120

## ■ 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
03 Series Relief Modular Valves	MB*-03-*-30	31.5	MB*-03-*-70	35
03 Series Reducing Modular Valves	MR*-03-*-30	25	MR*-03-*-70	
03 Series Throttle and Check Modular Valves	MS*-03-*-40		MS*-03-*-70	
03 Series Check Modular Valves	MCP/MCT-03-*-10 MCA/MCB/MCW-03-*-20		MC*-03-*-70	
03 Series Pilot Operated Check Modular Valves	MP*-03-*-20		MP*-03-*-70	
	MP*-03-*-2001		MP*-03-*-L-70	

### ● Max. Flow

Name	Old Product		New Product	
	Model Number	Max. Flow L/min	Model Number	Max. Flow L/min
03 Series Relief Modular Valves	MB*-03-*-30	70	MB*-03-*-70	120
03 Series Reducing Modular Valves	MR*-03-*-30		MR*-03-*-70	
03 Series Throttle and Check Modular Valves	MS*-03-*-40	120	MS*-03-*-70	160
03 Series Check Modular Valves	MCP/MCT-03-*-10 MCA/MCB/MCW-03-*-20	70	MC*-03-*-70	120
03 Series Pilot Operated Check Modular Valves	MP*-03-*-20		MP*-03-*-70	
	MP*-03-*-2001		MP*-03-*-L-70	

## ■ Model Number Designation Comparison Between Old and New Design

### ● Added Features

Name	Model Number	Additional Description
03 Series Pilot Operated Check Modular Valves	MP*-03-*-L-70	Can opt for low pilot operation type as a standard model

# Product News

## ● Pressure Adjustment Range

Name	Old Product		New Product	
	Model Number	Pres. Adj. Range MPa	Model Number	Pres. Adj. Range MPa
03 Series Relief Modular Valves	MB*-03-*-30	B: ★~7 H: 3.5~31.5	MB*-03-*-70	B: ★~7 C: 3.5~14 K: 7~35
03 Series Reducing Modular Valves	MR*-03-*-30	B: 1~7 H: 3.5~24.5	MR*-03-*-70	A: 0.8~3.5 B: 1~7 C: 3.5~14 H: 7~31.5

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

## ● Cracking Pressure

Name	Old Product		New Product	
	Model Number	Cracking Pressure MPa	Model Number	Cracking Pressure MPa
03 Series Check Modular Valves	MCP/MCT-03-*-10 MCA/MCB/MCW-03-*-20	0: 0.035 2: 0.2	MC*-03-*-70	0: 0.035 2: 0.2 4: 0.4
03 Series Pilot Operated Check Modular Valves	MP*-03-*-20	2: 0.2	MP*-03-*-70	0: 0.035 2: 0.2
	MP*-03-*-2001	4: 0.4	MP*-03-*-L-70	4: 0.4

## ● Dimensions

Height (55mm) and maximum depth are the same for new and old design. 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
03 Series Relief Modular Valves	MBW-03-*-30	Max. 320	MBW-03-*-70	Max. 318
	MBP/MBA/MBB-03-*-30	Max. 214	MBP/MBA/MBB-03-*-70	Max. 209
03 Series Throttle and Check Modular Valves	MSW-03-*-40	Max. 237	MSW-03-*-70	Max. 266
	MSA/MSB-03-*-40	Max. 193.5	MSA/MSB-03-*-70	Max. 180
03 Series Check Modular Valves	MCA/MCB-03-*-20	174	MCA/MCB-03-*-70	146.4
	MCW-03-*-20	174	MCW-03-*-70	177.4
	MCT-03-*-10	117	MCT-03-*-70	124
03 Series Pilot Operated Check Modular Valves	MPA/MPB-03-*-20	174	MPA/MPB-03-*-70	146.4
	MPA/MPB-03-*-2001	178	MPA/MPB-03-*-L-70	148.4
	MPW-03-*-20	174	MPW-03-*-70	177.4
	MPW-03-*-2001	178	MPW-03-*-L-70	181.4
03 Series Mounting Bolt Kits For Modular Valves	MBK-03-01-10	103	MBK-03-01-70	107
	MBK-03-02-10	158	MBK-03-02-70	162
	MBK-03-03-10	213	MBK-03-03-70	217
	MBK-03-04-10	268	MBK-03-04-70	272
	Nut	22	Nut	26