

# G03 Modular Valve Series

Type	Name	Valve Model Number	Pressure Adjustment Range (Check Valve Cracking Pressure) MPa(kgf/cm <sup>2</sup> )	Maximum Flow Rate ℓ/min	JIS Symbol	Height mm	Weight kg	Catalog Page
Solenoid Valves	Solenoid Valves	For M6 For M8 SS-G03-**-R**-J22-22 SA-G03-**-** -J21-21		160				E-1 E-13
		Relief Valves (Balance Type)	OR-G03-P <sub>3</sub> <sup>1</sup> -J50	1: * to 7 { * to 71.4 } 3: 3.5 to 25 { 35.7 to 255 }  (Auxiliary Symbol) V: With vent port *See page D-16 for these items.	80		55	3.1
-W <sub>3</sub> <sup>1</sup> -J50	3.9							
-A <sub>3</sub> <sup>1</sup> -J50	3.1							
-B <sub>3</sub> <sup>1</sup> -J50	3.1							
OR-G03-P <sub>3</sub> <sup>1</sup> -V-J50	3.1							
Pressure Control Valve	Brake Valves (Direct Type)	ORO-G03-W <sub>3</sub> <sup>1</sup> -J50	1: 0.8 to 7 { 8.2 to 71.4 } 3: 3.5 to 25 { 35.7 to 255 }	30		55	4.8	D-19
		-A <sub>3</sub> <sup>1</sup> -J50					4.0	
		-B <sub>3</sub> <sup>1</sup> -J50						
	Direct Relief Valves (Direct Type)	ORD-G03-W <sub>3</sub> <sup>1</sup> -J50	1: 0.8 to 7 { 8.2 to 71.4 } 3: 3.5 to 25 { 35.7 to 255 }	30		55	3.9	D-23
		-A <sub>3</sub> <sup>1</sup> -J50					3.1	
		-B <sub>3</sub> <sup>1</sup> -J50						
Reducing valve	OG-G03-P <sub>3</sub> <sup>C</sup> 1-(B)-J51	C: 0.25 to 3.5 { 2.5 to 35.7 } 1: 0.8 to 7 { 8.2 to 71.4 } 3: 3.5 to 21 { 35.7 to 214 }	80 However, C: 50		55		D-28	
	-A <sub>3</sub> <sup>C</sup> 1-(B)-J51					3.6	D-37	
	-B <sub>3</sub> <sup>C</sup> 1-(B)-J51							
	OG-G03-P <sub>3</sub> <sup>C</sup> 1-(B)V-J51						D-28	
Pressure Control Valves (Sequence Valves)	OQ-G03-P <sub>3</sub> <sup>A</sup> 2C-J50	A: 0.25 to 0.85 { 2.5 to 8.7 } C: 0.85 to 3.5 { 8.7 to 35.7 } E: 3.5 to 14 { 35.7 to 143 }	80		55		D-47	
	OCQ-G03-A <sub>3</sub> <sup>A</sup> 1C-J50					3.5	D-50	
	-B <sub>3</sub> <sup>A</sup> 1C-J50							
Flow Control Valve	Flow Regulator Valve	OCY-G03-P <sub>3</sub> <sup>P</sup> -H-J50	(Function) H: High differential pressure regulator (0.1{1})	100		55	2.9	D-58
	Meter-Out Flow Regulator Valves	-W-Y -W-HY -J51					3.1	
		-A-Y -A-HY -J51						
		-B-Y -B-HY -J51					3.0	

\*There is no problem with seals and other parts when mixing these valves with NACHI G03 modular valve design number (J) 30 valves.

\*G03 module valve installation bolts  
For M6: Design number J50  
For M8: Design number 50  
Unit has commonality. Also, two J-pins have been inserted diagonally for M6 applications.

Note) G03 series modular valves have two T port locations: one on the A port side T<sub>(A)</sub> and one on the B port side T<sub>(B)</sub>. The port that is used depends on the model number. See page D-11 for details about JIS symbols.

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Type	Name	Valve Model Number	Pressure Adjustment Range (Check Valve Cracking Pressure) MPa{kgf/cm <sup>2</sup> }	Maximum Flow Rate ℓ/min	JIS Symbol				Height mm	Weight kg	Catalog Page
					P	T	B	A			
Flow Control Valves	Meter-in Flow Regulator Valve	OCY-G03-W-X -W-HX-J51	(Function) H: High differential pressure regulator (0.1{1})	100		55	3.1	D-58			
		-A-X -A-HX-J51									
		-B-X -B-HX-J51									
	Flow Control Valve	OF-G03-P60-J50	(Control Flow Rate) Differential Pressure 7{71.4}:0.3 to 60 Differential Pressure 25{255}:0.5 to 60	60		55	3.1	D-66			
	Meter-out Flow Control Valves	OCF-G03-W60-Y-J50	(Volume control flow rate) Differential Pressure 7{71.4}:0.5 to 60 Differential Pressure 25{255}:1 to 60	60		55	5.0				
		-A60-Y-J50					4.6				
		-B60-Y-J50					5.0				
	Meter-in Flow Control Valves	OCF-G03-W60-X-J50	(Volume control flow rate) Differential Pressure 7{71.4}:0.5 to 60 Differential Pressure 25{255}:1 to 60	60		55	5.0				
		-A60-X-J50					4.6				
		-B60-X-J50					4.6				
Direction Control Valve	Check Valves	1 OC-G03-P2-J50 3	Cracking pressure 1:0.04{0.4} 2:0.35{3.6} 3:0.50{5.1} *For differential circuit 	100		55	2.7	D-72			
		1 T2-J50 3									
		1 -A2-J50 * 3									
		1 -AP2-J50 * 3									
	Vacuum Check Valves	OCV-G03-W-J50	(0.015{0.15})	100		55	3.5	D-72			
	Pilot Check Valves	1 OCP-G03-W <sub>2</sub> -(D)-J50 3	Cracking pressure 1:0.2{2.0} 2:0.5{5.1} (Auxiliary Symbol) Open Valve Ratio Standard : Child Valve 7% Parent Valve 49% D : Parent Valve 49%	100		55	3.6	D-79			
-A <sub>2</sub> -(D)-J50											
-B <sub>2</sub> -(D)-J50											
Other	Gauge Block	OK-G03-J50		100		55	2.3	D-84			
	2-speed Plates	OB-G03-W-(H)-J30		100		55	2.3	D-86			
	End Plates	MOB-G03-J50: For M6 MOB-G03-(H)-50: For M8		-			32 (H:58)	1.4 (H:2.5)	D-88		
		Free Flow	MOB-G03-A-J50: For M6 MOB-G03-A-(H)-50: For M8		100		32 (H:58)	1.3 (H:2.3)			
	MOB-G03-B-J50: For M6 MOB-G03-B-(H)-50: For M8			100		32 (H:58)	1.3 (H:2.3)				
	Conversion plate (For 03/01 conversion)	MOB-G03-AA-50 MOB-G03-AA-J50		50		45	2.3	D-96			
	Base Blocks	MOB-03-B*-J30	*: Sequential number from 2 to 5 A, B port dual side outlet								
	Sub Plate	MSA-03(X)-10 MS-03(X)-30 MSA-03(X)-T-10 MS-03(X)-T-10	MSA : For M6 MS : For M8 None: Back side outlet T : Side outlet								

D

Modular Valve

# G03 Modular Valve Series Detailed JIS Symbols

Type	Valve Model Number	Detailed JIS Symbols	Type	Valve Model Number	Detailed JIS Symbols	
Solenoid Valves	For M6, M8 SS-G03-**-R**-J22 -22 SA-G03-**-** -J21 -21		Flow Control Valve	OF-G03-P60-J50		
	OCF-G03-W60-Y-J50					
	OCF-G03-A60-Y-J50					
OCF-G03-B60-Y-J50						
OCF-G03-W60-X-J50						
OCF-G03-A60-X-J50						
OCF-G03-B60-X-J50						
Pressure Control Valve	OR-G03-P $\frac{1}{3}$ -J50			Direction Control Valve	OC-G03-P $\frac{1}{2}$ -J50	
	OR-G03-W $\frac{1}{3}$ -J50				OC-G03-T $\frac{1}{2}$ -J50	
	OR-G03-A $\frac{1}{3}$ -J50				OC-G03-A $\frac{1}{2}$ -J50	
	OR-G03-B $\frac{1}{3}$ -J50				OC-G03-AP $\frac{1}{2}$ -J50	
	OR-G03-P $\frac{1}{3}$ -V-J50				OCV-G03-W-J50	
	ORO-G03-W $\frac{1}{3}$ -J50		OCP-G03-W $\frac{1}{2}$ -J50			
	ORO-G03-A $\frac{1}{3}$ -J50		OCP-G03-A $\frac{1}{2}$ -J50			
	ORO-G03-B $\frac{1}{3}$ -J50		OCP-G03-B $\frac{1}{2}$ -J50			
	ORD-G03-W $\frac{1}{3}$ -J50		OK-G03-J50			
	ORD-G03-A $\frac{1}{3}$ -J50		Other	OB-G03-W-J30		
	ORD-G03-B $\frac{1}{3}$ -J50			MOB-G03-(H)-50		
	OG-G03-P $\frac{1}{3}$ -(B)-J51			MOB-G03-J50		
	OG-G03-A $\frac{1}{3}$ -(B)-J51			MOB-G03-A-(H)-50		
	OG-G03-A $\frac{1}{3}$ -(B)-J51			MOB-G03-A-J50		
	OG-G03-B $\frac{1}{3}$ -(B)-J51			MOB-G03-B-(H)-50		
	OG-G03-P $\frac{1}{3}$ -(B)V-J51			MOB-G03-B-J50		
	OQ-G03-P $\frac{1}{2}$ C-J50			MOB-G03-AA-50		
	OCQ-G03-A $\frac{1}{2}$ C-J50			MOB-G03-AA-J50		
OCQ-G03-B $\frac{1}{2}$ C-J50		MOB-03X-B*-50				
OCQ-G03-B $\frac{1}{2}$ C-J50		MOB-03X-B*-J50				
Flow Control Valve	OCY-G03-P-J50			MS-03(X)-30		
	OCY-G03-W-Y-J51		MSA-03(X)-10			
	OCY-G03-A-Y-J51		MS-03(X)-T-10			
	OCY-G03-B-Y-J51		MSA-03(X)-T-10			
	OCY-G03-W-X-J51					
	OCY-G03-A-X-J51					
	OCY-G03-B-X-J51					