

I



MODULAR STACK VALVES

Model	Maximum operating pressure MPa {kgf/cm ² }	Maximum flow rate L/min												Page	
		1	2	3	4	5	10	50	100	500					
02 series modular stack valves	25 {250}	02													I-15 to I-57
	35 {350}	02													
03 series modular stack valves	25 {250}	03													I-58 to I-93
	35 {350}	03													
04 series modular stack valves	35 {350}	04													I-94 to I-120
06 series modular stack valves	31.5 {315}	06													I-121 to I-133
	21 {210}	06													

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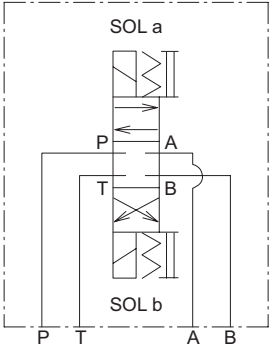
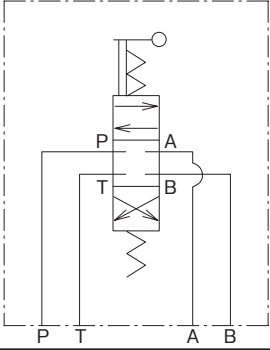
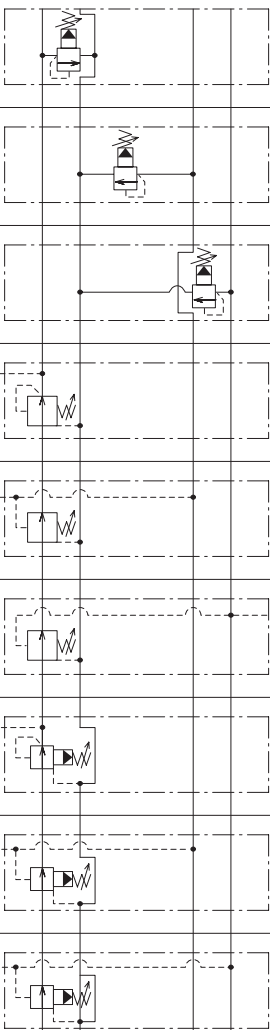
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02 series modular stack valve model table

Classification	Name	Model code	JIS graphic symbols for hydraulic system	Maximum operating pressure MPa {kgf/cm ² }	Maximum flow rate L/min	Height mm	Mass kg	Pressure adjustment range Cracking pressure MPa {kgf/cm ² }	Page
Directional control valves	Solenoid valve	KSO-G02		35 {350}	100	-	-	-	G-16
		LS-G02		7 {70}	30	-	-	-	G-4
LS-G02-W		16 {160}		30	-	-	-	G-4	
JSP-G02		21 {210}		30	-	-	-	G-34	
	Manually operated valve	JM-G02		21 {210}	30	-	-	-	G-93
Pressure control valves	Port P Relief valve	MR-02P-※		25 {250}	40	40	1.5	Pressure adjustment range 1: UP to 7 {UP to 70} 2: 3.5 to 16 {35 to 160} 3: 3.5 to 25 {35 to 250} 4: 7.0 to 35 {70 to 350}	I-15 to I-17
	Port A Relief valve	MR-02A-※							
	Port B Relief valve	MR-02B-※							
	Port P Reducing valve	MG-02P-※※		35 {350}	40	40	1.3	Pressure adjustment range 03: 0.3 to 3.5 {3 to 35} 1: 0.7 to 7 {7 to 70} 2: 3.5 to 16 {35 to 160}	I-18 to I-21
	Port A Reducing valve	MG-02A-※※							
	Port B Reducing valve	MG-02B-※※							
	Port P Low-pressure reducing valve	MGB-02P-03		7 {70}	20	40	1.4	Pressure adjustment range 03: 0.15 to 3.5 {1.5 to 35}	I-22 to I-24
	Port A Low-pressure reducing valve	MGB-02A-03							
	Port B Low-pressure reducing valve	MGB-02B-03							

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Pressure control valves	Port P Low-pressure reducing valve	MGB-02P-03...82		7 {70}	20	40	1.3	Pressure adjustment range 03: 0.5 to 7 {5 to 70}	I-22 to I-24
	Port P Solenoid operated low-pressure reducing valve	MGBS-02P						Low pressure adjustment range 0.2 to 3.4 {2 to 34} High pressure adjustment range 0.8 to 7 {8 to 70}	
	Port P Sequence valve	MQ-02P-2*		25 {250}	40	40	1.1	Pressure adjustment range 1: 0.8 to 7 {8 to 70} 3: 3.5 to 21 {35 to 210}	I-27 to I-28
	Port A Counter balance valve	MQC-02A-2		25 {250}	40	40	1.4	Pressure adjustment range 2: 0.7 to 14 {7 to 140}	I-29 to I-30
	Port B Counter balance valve	MQC-02B-2						Check valve cracking pressure 0.05 {0.5}	
	Brake valve	MB-02W-*		35 {350}	20	40	1.5	Pressure adjustment range 1: 0.8 to 7 {8 to 70} 3: 3.5 to 21 {35 to 210}	I-31 to I-32
	Port P Pressure switch	MPS-02P-*		25 {250}	40	40	1.8	Pressure adjustment range 1: 0.5 to 7 {5 to 70} 2: 0.5 to 16 {5 to 160} 3: 0.8 to 25 {8 to 250}	I-33 to I-34
	Port A/B Pressure switch	MPS-02W-*							
	Port A Pressure switch	MPS-02A-*							
	Port B Pressure switch	MPS-02B-*							
Flow control valves	Port P Throttle valve	MT-02P		35 {350}	40	40	0.9	-	I-35 to I-36
	Port T Throttle valve	MT-02T							
	Port P Throttle valve with check valve	MTC-02P		25 {250}			1.0	Check valve cracking pressure 0.04 {0.4}	
	Meter-out Port A/B Throttle valve	MT-02W		25 {250} 35 {350}			1.3	Check valve cracking pressure 0.08 {0.8}	I-37 to I-42

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Classification	Name	Model code	JIS graphic symbols for hydraulic system	Maximum operating pressure MPa {kgf/cm ² }	Maximum flow rate L/min	Height mm	Mass kg	Pressure adjustment range Cracking pressure MPa {kgf/cm ² }	Page
Flow control valves	Meter-out Port A Throttle valve	MT-02A		25 {250} 35 {350}	40	40	1.0	Check valve cracking pressure 0.08 {0.8}	I-37 to I-42
	Meter-out Port B Throttle valve	MT-02B							
	Meter-in Port A/B Throttle valve	MT-02Wi							
	Meter-in Port A Throttle valve	MT-02Ai							
	Meter-in Port B Throttle valve	MT-02Bi							
	Meter-out Port A/B Throttle valve	MT-02W...32 MT-02W...33		25 {250}	40	40	1.4		
	Meter-out Port A Throttle valve	MT-02A...32 MT-02A...33							
	Meter-out Port B Throttle valve	MT-02B...32 MT-02B...33					1.4		
	Meter-in Port A/B Throttle valve	MT-02Wi...32 MT-02Wi...33							
	Meter-in Port A Throttle valve	MT-02Ai...32 MT-02Ai...33							
Meter-in Port B Throttle valve	MT-02Bi...32 MT-02Bi...33								

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02 series modular stack valve model table

Classification	Name	Model code	JIS graphic symbols for hydraulic system	Maximum operating pressure MPa {kgf/cm ² }	Maximum flow rate L/min	Height mm	Mass kg	Pressure adjustment range Cracking pressure MPa {kgf/cm ² }	Page	
Flow control valves	Port P Flow adjusting valve	MF-02P		25 {250}	20	40	40	Check valve cracking pressure 0.08 {0.8}	I-43 to I-44	
	Meter-out Port A/B Flow adjusting valve	MF-02W			40				2	I-45 to I-46
	Meter-out Port A Flow adjusting valve	MF-02A			40				1.8	
	Meter-out Port B Flow adjusting valve	MF-02B			40				1.8	
	Meter-in Port A/B Flow adjusting valve	MF-02Wi			40				2	
	Meter-in Port A Flow adjusting valve	MF-02Ai			40				1.8	
	Meter-in Port B Flow adjusting valve	MF-02Bi			40				1.8	
Directional control valves	Port P Check valve	MC-02P-※※		35 {350}	40	40	0.9	Check valve cracking pressure 05 : 0.05 {0.5} 50 : 0.5 {5}	I-47 to I-48	
	Port A Check valve	MC-02A-※※								
	Port B Check valve	MC-02B-※※								
	Port T Check valve	MC-02T-※※								
	Port P-A Check valve	MC-02PA-※※								
	Port P-B Check valve	MC-02PB-※※								
	Port A/B Check valve	MC-02AB-※※								25 {250}
	Vacuum check valve	MC-02W		1	Check valve cracking pressure 0.015 {0.15}					

MODULAR STACK VALVES I

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Classification	Name	Model code	JIS graphic symbols for hydraulic system	Maximum operating pressure MPa {kgf/cm ² }	Maximum flow rate L/min	Height mm	Mass kg	Pressure adjustment range Cracking pressure MPa {kgf/cm ² }	Page				
Directional control valves	Port A/B Pilot operated check valve	MP-02W-××		25 {250} 35 {350}	40	40	1.1	Check valve cracking pressure 20: 0.2 {2} 50: 0.5 {5}	I-49 to I-51				
	Port A Pilot operated check valve	MP-02A-××											
	Port B Pilot operated check valve	MP-02B-××											
	Port A/B Decompression type pilot operated check valve	MPD-02W-××		25 {250}									
	Port A Decompression type pilot operated check valve	MPD-02A-××											
	Port B Decompression type pilot operated check valve	MPD-02B-××											
Blocks/mounting bolts	Port P/T Pressure take-out block	BG-02PT		25 {250}	40	40	1	-	I-52				
	Port A/B Pressure take-out block	BG-02AB											
	Blocking block	BS-02											
	Bypass block	BD-02PA		40	40	0.8	-		I-53				
	Bypass block	BD-02PT											
	Bypass block	BE-02		40	40	0.8			-	I-53			
	Bypass block	BF-02											
	Bypass block	BH-02		25	40	-				-	I-56		
	Manifold block	BT-×02	-										
	2-speed plate	BW-02	-	25	40	-					2.4	-	I-56
	Mounting bolt	HB10× SB10×	-	-	-	-					-	Hexagon socket head cap bolt: M5 Stud bolt: M5	I-57

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03 series modular stack valve model table

Classification	Name	Model code	JIS graphic symbols for hydraulic system	Maximum operating pressure MPa {kgf/cm ² }	Maximum flow rate L/min	Height mm	Mass kg	Pressure adjustment range Cracking pressure MPa {kgf/cm ² }	Page				
Directional control valves	Solenoid valve	KSO-G03		35 {350}	130 (AC) 160 (DC)	–	–	–	G-16				
		LS-G03		16 {160}	80	–	–	–	G-12				
Pressure control valves	Port P Relief valve	MR-03P-*		25 {250}	80	55	3.4	Pressure adjustment range 1: 0.7 to 7 { 7 to 70 } 3: 3.5 to 25 {35 to 250}	I-58 to I-59				
	Port A/B Relief valve	MR-03W-*					3.9	Pressure adjustment range 1: 0.8 to 7 { 8 to 70 } 3: 3.5 to 25 {35 to 250}	I-60 to I-61				
	Port A Relief valve	MR-03A-*					3.1	Pressure adjustment range 1: UP to 7 {UP to 70} 3: 3.5 to 25 {35 to 250}					
	Port B Relief valve	MR-03B-*											
	Port P Reducing valve	MG-03P-**					16 {160} 25 {250}	80	55	4	Pressure adjustment range 03: 0.3 to 7 { 3 to 70 } 1: 0.7 to 7 { 7 to 70 } 3: 3.5 to 25 {35 to 250}	I-62 to I-63	
	Port A Reducing valve	MG-03A-**											
	Port B Reducing valve	MG-03B-**											
	Port P Sequence valve	MQ-03P-2*					25 {250}	80	55	3.9	Pressure adjustment range A: 0.25 to 0.85 { 2.5 to 8.5 } B: 0.5 to 3.5 { 5 to 35 } E: 2 to 14 { 20 to 140 }	I-64 to I-65	
	Port B Counter balance valve	MQ-03B-1*										I-66 to I-67	
	Port A Counter balance valve	MQC-03A-1*										MQC-03* Check valve cracking pressure 0.05 {0.5}	I-68 to I-69
	Port B Counter balance valve	MQC-03B-1*											
	Break valve	MB-03W-*							30	4.8	Pressure adjustment range 1: 0.8 to 7 { 8 to 70 } 3: 3.5 to 25 {35 to 250}	I-70 to I-71	
Flow control valves	Port P Throttle valve	MT-03P		25 {250}	80	55	2.3	–	I-72 to I-73				
	Meter-out Port A/B Throttle valve	MT-03W		25 {250} 35 {350}			3.1	Check valve cracking pressure 0.16 {1.6}	I-74 to I-75				

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Flow control valves	Meter-in Port A/B Throttle valve	MT-03Wi		25 {250} 35 {350}	80	55	3.1	Check valve cracking pressure 0.16 {1.6}	I-74 to I-75						
	Port P Flow adjusting valve	MF-03P		25 {250}	60					–	I-76 to I-77				
	Meter-out Port A/B Flow adjusting valve	MF-03W		25 {250}	60	55	5	Check valve cracking pressure 0.1 {1}	I-78 to I-79						
	Meter-out Port A Flow adjusting valve	MF-03A													
	Meter-out Port B Flow adjusting valve	MF-03B													
	Meter-in Port A/B Flow adjusting valve	MF-03Wi													
	Meter-in Port A Flow adjusting valve	MF-03Ai													
	Meter-in Port B Flow adjusting valve	MF-03Bi													
Directional control valves	Port P Check valve	MC-03P-※※								25 {250}	80	55	2.1	Check valve cracking pressure 05: 0.05 {0.5} 45: 0.45 {4.5}	I-80 to I-83
	Port A Check valve	MC-03A-※※													
	Port B Check valve	MC-03B-※※													
	Port T Check valve	MC-03T-※※													
	Port P-B Check valve	MC-03PB-※※													
	Port A/B Check valve	MC-03AB-※※													
	Vacuum check valve	MC-03W...56													
	Port A/B Pilot operated check valve	MP-03W-※※		3.5	Check valve cracking pressure 20: 0.2 {2} 50: 0.5 {5}	I-84 to I-86									

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Directional control valves	Port A Pilot operated check valve	MP-03A-※※		25 {250}	80	55	3.5	Check valve cracking pressure 20: 0.2 {2} 50: 0.5 {5}	I-84 to I-86
	Port B Pilot operated check valve	MP-03B-※※							
	Port A/B Decompression type pilot operated check valve	MPD-03W-※※		35 {350}					
	Port A Decompression type pilot operated check valve	MPD-03A-※※							
	Port B Decompression type pilot operated check valve	MPD-03B-※※							
Blocks/mounting bolts	Port P Pressure take- out block	BG-03PP...40		25 {250}	80	55	2.6	-	I-87
	Port P/T Pressure take- out block	BG-03PT...70							
	Port A/B Pressure take- out block	BG-03AB							
	Blocking block	BS-03		80	-	26.5	2.6	-	-
	Bypass block	BD-03PA							
	Bypass block	BE-03							
	Bypass block	BH-03							
	Manifold block	BT-※03	-	25 {250}	80 40	-	-	-	I-89 to I-90
	Size conversion plate	BSC-0203※	-						
	2-speed plate	BW-03	-	25 {250}	80	-	6.7	-	I-92
	Mounting bolt	HB30※ SB30※	-	-	-	-	-	Hexagon socket head cap bolt: M6 Stud bolt: M6	I-93

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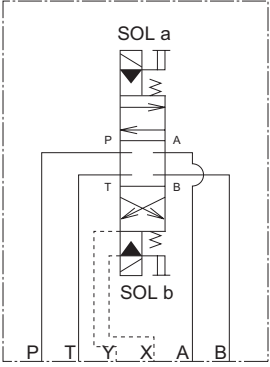
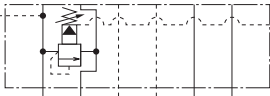
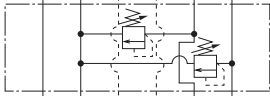
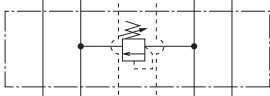
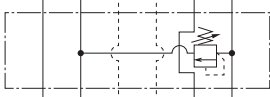
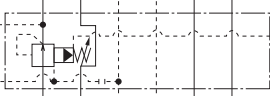
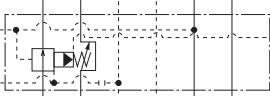
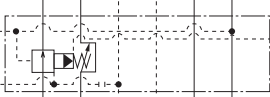
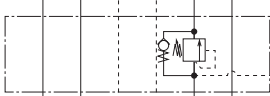
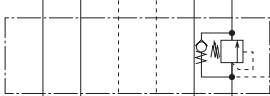
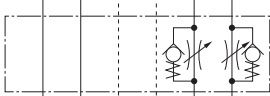
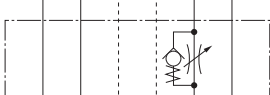
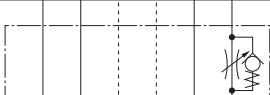
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04 series modular stack valve model table

Classification	Name	Model code	JIS graphic symbols for hydraulic system	Maximum operating pressure MPa {kgf/cm ² }	Maximum flow rate L/min	Height mm	Mass kg	Pressure adjustment range Cracking pressure MPa {kgf/cm ² }	Page						
Directional control valves	Solenoid pilot operated directional control valve	KSH-G04		35 {350}	300	—	—	—	G-41						
Pressure control valves	Port P Relief valve	MR-04P-✕		35 {350}	300	70	7	Pressure adjustment range 1: UP to 7 {UP to 70} 2: 2 to 16 {20 to 160} 3: 3.5 to 25 {35 to 250}	I-94 to I-96						
	Port A/B Direct operated relief valves	MRD-04W-✕							50 (300)	6.5	Pressure adjustment range 1: 0.8 to 7 {8 to 70} 3: 3.5 to 25 {35 to 250} 4: 7 to 35 {70 to 350}	I-97 to I-98			
	Port A Direct operated relief valves	MRD-04A-✕										35 {350}	8	Pressure adjustment range 1: 0.8 to 7 {8 to 70} 2: 2 to 16 {20 to 160} 3: 3.5 to 25 {35 to 250}	I-99 to I-100
	Port B Direct operated relief valves	MRD-04B-✕													35 {350}
	Port P Reducing valve	MG-04P-✕		35 {350}	300	70	8	Pressure adjustment range 1: 0.8 to 7 {8 to 70} 2: 2 to 16 {20 to 160} 3: 3.5 to 25 {35 to 250}	I-99 to I-100						
	Port A Reducing valve	MG-04A-✕								35 {350}	300	70	8	Pressure adjustment range 1: 0.8 to 7 {8 to 70} 2: 2 to 16 {20 to 160} 3: 3.5 to 25 {35 to 250}	I-99 to I-100
	Port B Reducing valve	MG-04B-✕													
	Port A Counter balance valve	MQC-04A-1✕		35 {350}	300	70	6.5	Check valve cracking pressure 0.1 {1}	I-103 to I-104						
	Port B Counter balance valve	MQC-04B-1✕								35 {350}	300	70	6.5	Check valve cracking pressure 0.1 {1}	I-103 to I-104
Flow control valves	Meter-out Port A/B Throttle valve	MT-04W		35 {350}	300	70	6.5	Check valve cracking pressure 0.1 {1}	I-103 to I-104						
	Meter-out Port A Throttle valve	MT-04A								35 {350}	300	70	6.5	Check valve cracking pressure 0.1 {1}	I-103 to I-104
	Meter-out Port B Throttle valve	MT-04B													

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Flow control valves	Meter-in Port A/B Throttle valve	MT-04Wi		35 {350}	300	70	6.5	Check valve cracking pressure 0.1 {1}	I-103 to I-104	
	Meter-in Port A Throttle valve	MT-04Ai								
	Meter-in Port B Throttle valve	MT-04Bi								
	Port P Throttle valve with check valve	MTC-04P				85	11	4.5	Check valve cracking pressure 0.04 {0.4}	I-105 to I-106
	Meter-out Port A/B Flow adjusting valve	MF-04W-xx								
	Meter-out Port A Flow adjusting valve	MF-04A-xx								
	Meter-out Port B Flow adjusting valve	MF-04B-xx								
	Meter-in Port A/B Flow adjusting valve	MF-04Wi-xx								
	Meter-in Port A Flow adjusting valve	MF-04Ai-xx								
	Meter-in Port B Flow adjusting valve	MF-04Bi-xx								
Directional control valves	Port P Check valve	MC-04P-xx		35 {350}	300	70	4.5	Check valve cracking pressure 04: 0.04 {0.4} 10: 0.1 {1} 20: 0.2 {2} 35: 0.35 {3.5} 50: 0.5 {5} 60: 0.6 {6}	I-110 to I-112	
	Port A Check valve	MC-04A-xx								
	Port T Check valve	MC-04T-xx								
	Port PA Check valve	MC-04PA-xx								
	Vacuum check valve	MC-04W-01					6	Check valve cracking pressure 01: 0.01 {0.1}		

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04 series modular stack valve model table

Classification	Name	Model code	JIS graphic symbols for hydraulic system	Maximum operating pressure MPa {kgf/cm ² }	Maximum flow rate L/min	Height mm	Mass kg	Pressure adjustment range Cracking pressure MPa {kgf/cm ² }	Page
Directional control valves	Port A/B Pilot operated check valve	MPD-04W-××		35 {350}	300	70	6.8	Check valve cracking pressure 20: 0.2 {2} 50: 0.5 {5}	I-113 to I-114
	Port A Pilot operated check valve	MPD-04A-××							
	Port B Pilot operated check valve	MPD-04B-××							
Blocks/mounting bolts	Port P/T/A/B Pressure take- out block	BG-04PTAB		25 {250}	160	70	6.4	–	I-115
	Blocking block	BS-04				34	2.9	–	I-115
	Manifold block	BT-×04	–			145	–	–	I-116
	Size conversion plate	BSC-××-04-×	–			–	–	–	I-117 to I-118
	Mounting bolt	HB104××××× HB064××××× SB104××××× SB064×××××	–			–	–	–	Hexagon socket head cap bolt: M10 Hexagon socket head cap bolt: M6 Stud bolt: M10 Stud bolt: M6

06 series modular stack valve model table

Classification	Name	Model code	JIS graphic symbols for hydraulic system	Maximum operating pressure MPa {kgf/cm ² }	Maximum flow rate L/min	Height mm	Mass kg	Pressure adjustment range Cracking pressure MPa {kgf/cm ² }	Page
Directional control valves	Solenoid valve	JS-G06		25 {250}	300	–	–	–	G-58
		KSH-G06		35 {350}	681	–	–	–	G-48
Pressure control valves	Port P Reducing valve	MG-06P-×		21 {210}	120	88.9	11.6	Pressure adjustment range 1: 0.8 to 7 { 8 to 70 } 2: 3.5 to 14 { 35 to 140 } 3: 10.5 to 21 {105 to 210 }	I-121 to I-122
	Port B Reducing valve	MG-06B-×				70	13.3		
	Port P Sequence valve	MQ-06P-2×				88.9	11		I-123 to I-124
	Port B Counter balance valve	MQ-06B-1×				101.6	12.8		

Contact Details

Before using the product, please check the guide pages at the front of this catalog.

Internet

<http://www.daikinpmc.com/en/>

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06 series modular stack valve model table

Classification	Name	Model code	JIS graphic symbols for hydraulic system	Maximum operating pressure MPa {kgf/cm ² }	Maximum flow rate L/min	Height mm	Mass kg	Pressure adjustment range Cracking pressure MPa {kgf/cm ² }	Page
Flow control valves	Meter-out Port A/B Throttle valve	MT-06W		31.5 {315}	500	90	13.6	Check valve cracking pressure 0.15 {1.5}	I-127 to I-129
	Meter-out Port A Throttle valve	MT-06A							
	Meter-out Port B Throttle valve	MT-06B							
	Meter-in Port A/B Throttle valve	MT-06Wi							
	Meter-in Port A Throttle valve	MT-06Ai							
	Meter-in Port B Throttle valve	MT-06Bi							
Directional control valves	Port P Check valve	MC-06P-**		21 {210}	120	88.9	10.5	Check valve cracking pressure 05: 0.05 {0.5} 45: 0.45 {4.5}	I-130 to I-131
	Port T Check valve	MC-06T-**							
	Port A/B Decompression type pilot operated check valve	MPD-06W-**		31.5 {315}	500	90	13.6	Check valve cracking pressure 20: 0.2 {2} 50: 0.5 {5}	I-132 to I-133
	Port A Decompression type pilot operated check valve	MPD-06A-**							
	Port B Decompression type pilot operated check valve	MPD-06B-**							

Handling

● Hydraulic oil

- Use a petroleum-based hydraulic fluid equivalent to ISO VG32 to 68.
- Operate the unit in an environment where both the following conditions are satisfied: viscosity range from 15 to 400 mm²/s {cSt} and oil temperature from -15 to 70°C.
- Contamination of the hydraulic fluid causes valve trouble and reduces the service life, so pay due attention to controlling contamination and ensure that it goes no higher than NAS contamination class 12.

● Installation and maintenance

- There is no restriction on the installation direction. However, valves of the 04 and 06 series may cause uneven load so stack them oriented upward.
- Finish the face on which the valve is mounted to a surface roughness of 1.6a or better and a flatness tolerance within 0.01 mm.
- When stacking stack valves, give adequate consideration to the order in which the valves are arrayed and stacked, taking the space required to operate the adjusting screws, the adjusting handles and their lock nuts into consideration.

● Filters

- Use a line filter with a filtration accuracy of 25 μm or better.