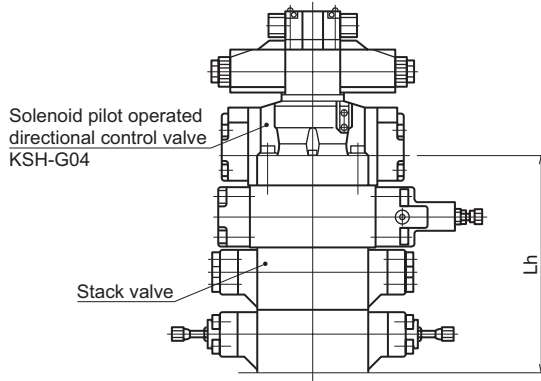


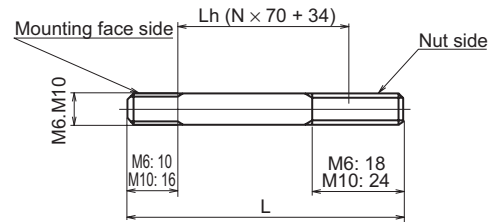
04 Series Stack Valve Mounting Bolts

Bolt selection guide

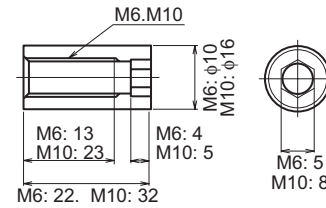
Select the bolts to be used for mounting stack valves and stacking blocks according to the stacked height (Lh) of the valves and blocks.



Stud bolt



Nut for stud bolts (provided with stud bolts)



Tightening torque of mounting bolts

Bolt	Tightening torque N·m {kgf·cm}
M6	13 to 15 {130 to 150}
M10	50 to 55 {500 to 550}

Hexagon socket head cap bolt

The heights of 04 series stack valves are standardized at 85 mm for MF-04×× and at 70 mm for all the others. Select mounting bolts from section *1 when one MF-04×× unit is included in the stack and from section *2 when two units are included.

N: Number of stack levels	Lh: Stacked dimension (mm)	M10			M6				
		Mounting bolt model code	Hexagon socket head cap bolt	Strength classification	Mounting bolt model code	Hexagon socket head cap bolt	Strength classification		
	0	34	HB1040050	M10 × 50	12.9	HB0640045	M6 × 45	12.9	
	1	104	HB1041120	M10 × 120		HB0641115	M6 × 115		
	2	174	HB1042190	M10 × 190		HB0642185	M6 × 185		
	3	244	HB1043260	M10 × 260		HB0643260	M6 × 260		10.9
	4	314	HB1044330	M10 × 330		–	–		–
*1	1	119	HB1041135	M10 × 135	12.9	HB0641130	M6 × 130	12.9	
	2	189	HB1042205	M10 × 205		HB0642200	M6 × 200		
	3	259	–	–		HB0643270	M6 × 270		10.9
	4	329	–	–		–	–		–
*2	2	204	HB1042220	M10 × 220	12.9	HB0642215	M6 × 215	12.9	
	3	274	HB1043290	M10 × 290		–	–	10.9	

Note: ○ The model codes cited above are for sets of four M10 bolts or two M6 bolts.

○ A number of stack levels of "0" means that only a solenoid pilot operated directional control valve is used, with no stack valves. (Solenoid pilot operated directional control valves are provided with hexagon socket head cap bolts.)

○ For four stack levels, use stud bolts.

Contact Details

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

Internet

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Stud bolt

The heights of 04 series stack valves are standardized at 85 mm for MF-04** and at 70 mm for all the others. Select mounting bolts from section *1 when one MF-04** unit is included in the stack and from section *2 when two units are included.

N: Number of stack levels	Lh: Stacked dimension (mm)	M10		M6		
		Mounting bolt model code	Stud bolt	Mounting bolt model code	Stud bolt	
	0	34	SB1040070	M10 × 70	SB0640055	M6 × 55
	1	104	SB1041140	M10 × 140	SB0641125	M6 × 125
	2	174	SB1042210	M10 × 210	SB0642195	M6 × 195
	3	244	SB1043280	M10 × 280	SB0643265	M6 × 265
	4	314	SB1044350	M10 × 350	SB0644335	M6 × 335
*1	1	119	SB1041155	M10 × 155	SB0641140	M6 × 140
	2	189	SB1042225	M10 × 225	SB0642210	M6 × 210
	3	259	SB1043295	M10 × 295	SB0643280	M6 × 280
	4	329	SB1044365	M10 × 365	SB0644350	M6 × 350
*2	2	204	SB1042240	M10 × 240	SB0642225	M6 × 225
	3	274	SB1043310	M10 × 310	SB0643295	M6 × 295

Note: ○ The model codes cited above are for sets of four M10 bolts or two M6 bolts.

○ A number of stack levels of "0" means that only a solenoid pilot operated directional control valve is used, with no stack valves stacked. (Solenoid pilot operated directional control valve is provided with hexagon socket head cap bolts.)

○ The strength classification of all stud bolts is 12.9.

○ When using M6 stud bolts, screw them at least 9 mm into the mounting face of the manifold block or other mount.

○ When using M10 stud bolts, screw them at least 15 mm into the mounting face of the manifold block or other mount.

Number of stack levels of stack valves and permissible operating pressure

Port						Permissible operating pressure MPa {kgf/cm ² }			
P	A	B	T	X	Y	Number of stack levels			
						1	2	3	4
Pressure						19.6 {196}	19.6 {196}	19.6 {196}	14.6 {146}
Pressure					Open	24.5 {245}	24.5 {245}	24.5 {245}	18.3 {183}
Pressure			Open	Pressure	Open	28 {280}	28 {280}	27.4 {274}	20.5 {205}
Pressure		Open		Pressure	Open	35 {350}	35 {350}	34.3 {343}	24.5 {245}
Pressure	Open	Pressure	Open	Pressure	Open	35 {350}	35 {350}	34.3 {343}	24.5 {245}

Maximum operating pressure of each port

Port	Maximum operating pressure MPa {kgf/cm ² }
T	21 {210}
X	25 {250}
Y	16 {160}