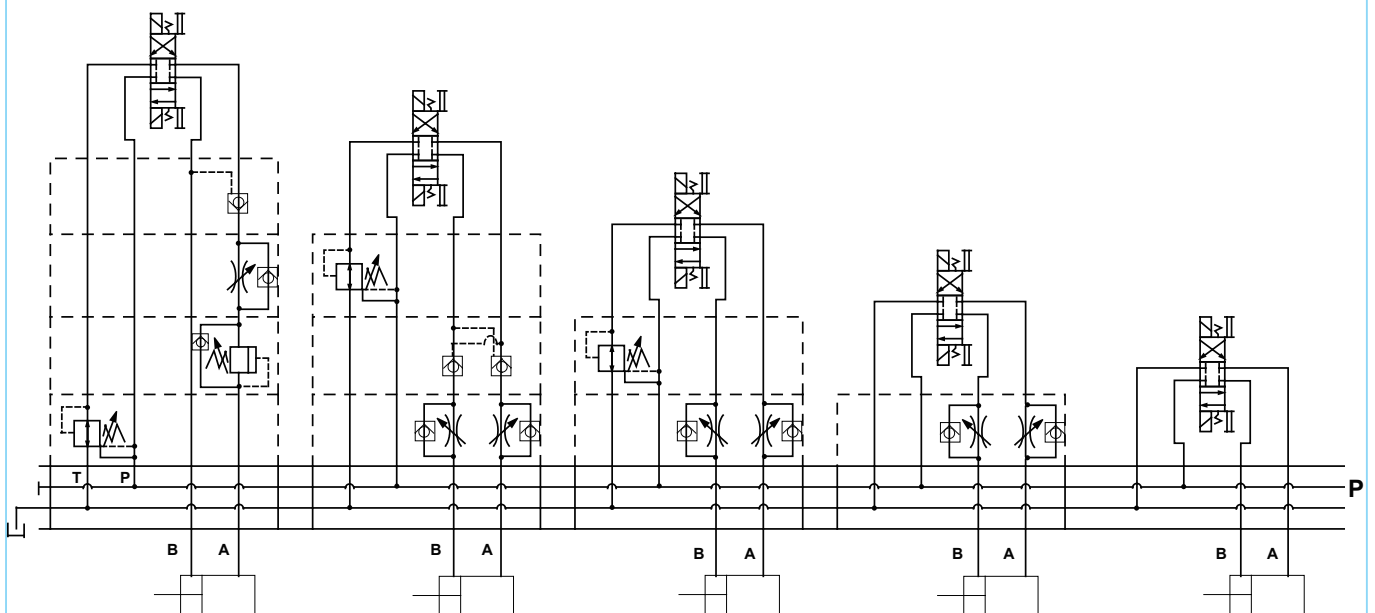


B

MODULAR(STACK) VALVES





SOLTECH

MODULAR(STACK) CONTROLS

MODULAR(STACK) VALVES

【GRAPHIC SYMBOL】

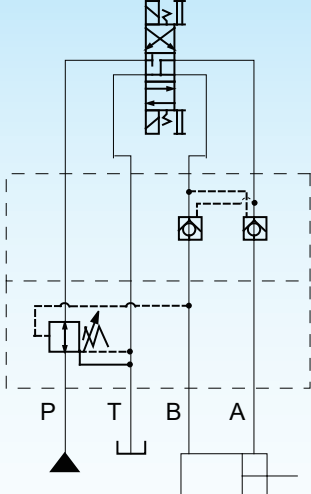
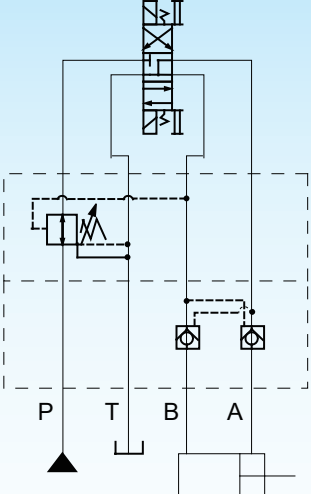
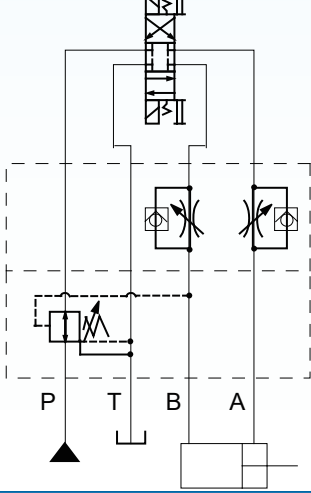
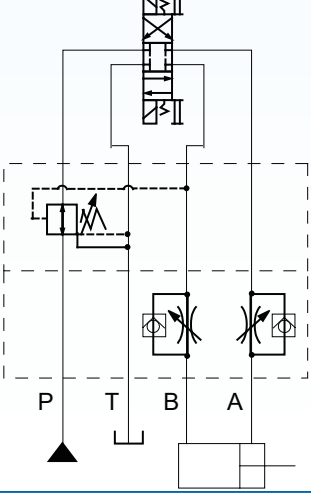
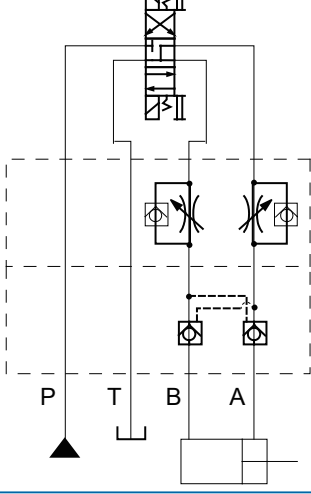
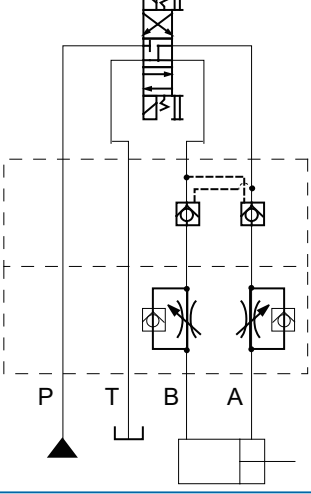
B

Class	Model No.	Graphical Symbols	Page	Class	Model No.	Graphical Symbols	Page
Pressure Control Valves	Solenoid Operated Directional Valve SWG-02-※※※※※ SWG-03-※※※※※		♣	Flow Control Valves	Sol. Oprd. Directional Valve	P T B A	♣
	Relief Valve (for "P-Line") MR-※-P-※ MR-VH-P-※		56 --- 55		Throttle And Check Valve (for "A-Line, Meter In") MTC-※-A-Y-※		62
	Relief Valve (for "A-Line") MR-02-A-※ MR-VH-A-※		56 --- 55		Throttle And Check Valve (for "B-Line, Meter out") MTC-※-B-X-※		62
	Relief Valve (for "B-Line") MR-02-B-※ MR-VH-B-※		56 --- 55		Throttle And Check Valve (for "B-Line, Meter In") MTC-※-B-Y-※		62
	Relief Valve (for "A & B-Line") MR-02-W-※ MR-03-W-※		56 --- 55		Throttle And Check Valve (for "B-Line, Meter out") MTC-※-W-X-※		62
	Reducing Valve (for "P-Line") MPR-※-P-※		59		Throttle And Check Valve (for "A,B-Line, Meter In") MTC-※-W-Y-※		62
	Reducing Valve (for "A-Line") MPR-※-A-※		59	Directional Control Valves	Check Valve MC-※-P-※		68
	Reducing Valve (for "B-Line") MPR-※-B-※		59		Check Valve MC-※-T-※		68
	Sequence Valve (for "P-Line") MSCV-※-P-※		65		Check Valve MC-※-B-※		68
	Counter-Balance Valve (for "A-Line") MSCV-02-A-※		65		Check Valve MC-※-A-※		68
	Counter-Balance Valve (for "B-Line") MSCV-02-B-※		65		Check Valve MC-※-W-※		68
	Pressure Switches Vavle (for "P-Line") DNM-※-P		343		Pilot Operated Check Valve MPC-※-A-※		71
	Pressure Switches Vavle (for "A-Line") DNM-※-A		343		Pilot Operated Check Valve MPC-※-B-※		71
	Pressure Switches Vavle (for "B-Line") DNM-※-B		339		Pilot Operated Check Valve MPC-※-W-※		71
Modular Plates and Mounting Bolts	Throttle Valve (for "P-Line") MT-※-P-※			End Plates (Blocking Plates) MDC-02-※	End Plates (Blocking Plates) MDC-02-※		74
	Throttle And Check Valve (for "A-Line, Meter out") MTC-※-A-X-※		62		End Plates (Bypass plates) MDC-03-※		74
					Base Plates MMC-02-※ MMC-03-※		75 --- 76
					Bolt Kits MBK-02 MBK-03		77

【INSTRUCTIONS】

Caution in the selection of valves and circuit designing

The selection of modular valves, to suit a particular function or hydraulic circuit, are made in exactly the same way as conventional valves, taking into account of the flow and pressure of each valve to be used. In some cases, the stacking system may be restricted, so please refer to the following instructions for stacking sequence. Please note, that when designing a system using modular stacking valves, due consideration should be given to working space for future maintenance.

MODEL	INCORRECT	CORRECT	DESCRIPTION
Sol. Oper. Dir. Valve SWG-(※)-3C4 Pilot Operated Check Valve (for "A&B-Lines") MPC-(※)-W Reducing Valve (for "B-Line") MPR-(※)-B			► Stacking sequence when using reducing valves (for "A" or "B" line) and pilot operated check valves) Because reducing valves are spool type, there is an internal leakage. In the stacking sequence shown in the drawing left (incorrect), the cylinder moves due to leakage through the pilot pressure line . Consequently, retaining the position of the cylinder using a pilot operated check valve becomes impossible. The stacking sequence shown in the drawing right (correct) is required in order to retain the cylinder position.
Sol. Oper. Dir. Valve SWG-(※)-3C2 Throttle and Check Valve (for "A&B-Lines", Metre-out) MTC-(※)-W Reducing Valve (for "B-Line") MPR-(※)-B			► Stacking sequence when using reducing valves (for "A" or "B" line) and throttle and check valves (for metre-out). In B to T flow in the drawing left (incorrect), pressure is generated at part with a throttle effect of the throttle and check valve. Depending upon the pressure so generated, the reducing valve may perform a pressure reducing function which causes a shortage of output power of the cylinder and spoils the smooth operation of the cylinder. Therefore, stacking sequence in the drawing right (correct) is required in this combination.
Sol. Oper. Dir. Valve SWG-(※)-3C4 Throttle and Check Valve (for "A&B-Lines", Metre-out) MTC-(※)-W Pilot Operated Check Valve (for "A&B-Lines") MPC-(※)-W			► Stacking sequence when using pilot operated check valves and throttle and check valves (metre-out). In A to T flow in the drawing left (incorrect), pressure is generated at part with a throttle effect of the throttle and check valve. The pressure so generated acts to shut the pilot operated check valve and eventually creates an open and shut operation of the valve repeatedly which may cause the cylinder to have a knocking effect (the same effect will occur in the case of B to T flow). Therefore, the stacking sequence in the drawing right (correct) is required in this combination.



SOLTECH

MODULAR(STACK) CONTROLS

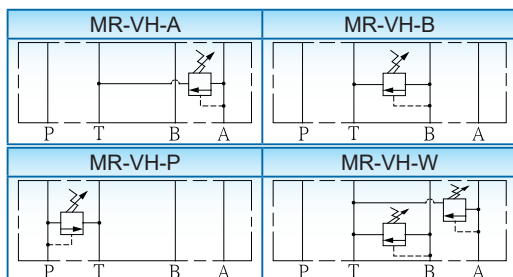
RELIEF & PILOT OPERATED CHECK MODULAR VALVE-72MPa

RELIEF VALVE 【MR-VH】

※SPECIFICATION

MODEL	MAX. OPER. PRES. (Kg f/cm^2)/(MPa)	PRES. ADJ. RANGE (Kg f/cm^2)/(MPa)	MAX. FLOW (ℓ/min)
MR-VH-P	720(72)	8~720(0~72)	8
MR-VH-A			
MR-VH-B			
MR-VH-W			

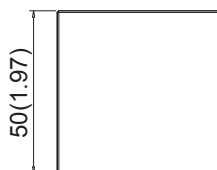
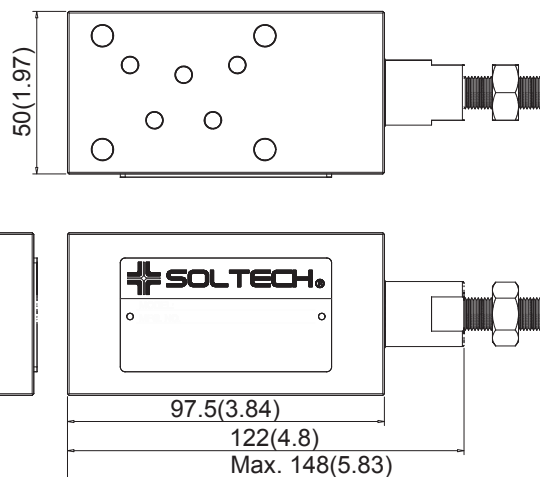
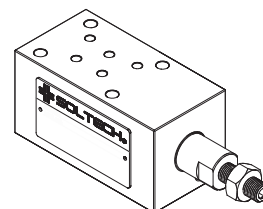
※GRAPHIC SYMBOL



※MODEL NUMBER DESIGNATION

MR-	VH-	P-	(S)-	(90)
SERIES NO.	HIGH PRESSURE	FUNCTION PORT P: "P" PORT A: "A" PORT B: "B" PORT W: "A&B" PORT	ADJ. KITS OMIT: WITH KNOB S: SOCKET HEAD CAP SCREW	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA)

Mounting Interface: CETOP 03, NG6, ISO 4401 standard is also available

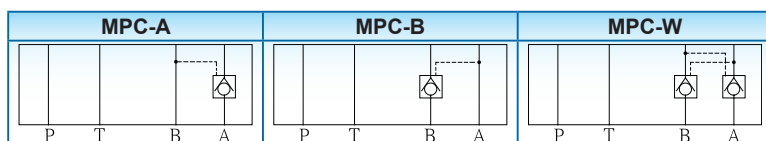


PILOT OPERATED CHECK VALVE 【MPC-VH】

※SPECIFICATION

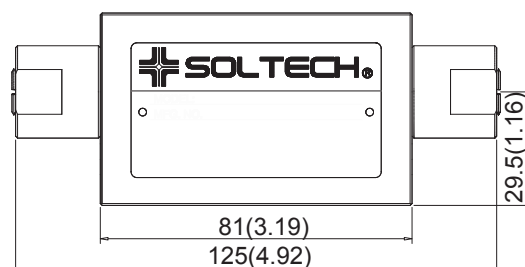
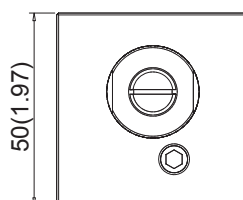
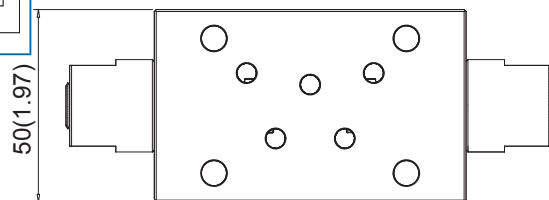
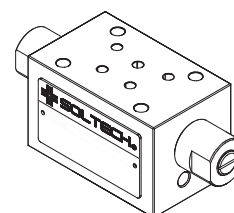
MODEL	MAX. OPER. PRES. (Kg f/cm^2)/(MPa)	MAX. FLOW (ℓ/min)
MPC-VH-A	720(72)	8
MPC-VH-B		
MPC-VH-W		

※GRAPHIC SYMBOL



※MODEL NUMBER DESIGNATION

MPC-	VH-	A-	(90)
SERIES NO.	HIGH PRESSURE	FUNCTION PORT A: "A" PORT B: "B" PORT W: "A&B" PORT	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA)



UNIT: M.M.(INCHES)

Mounting Interface: CETOP 03, NG6, ISO 4401 standard is also available



SOLTECH

MODULAR(STACK) CONTROLS

RELIEF MODULAR VALVES

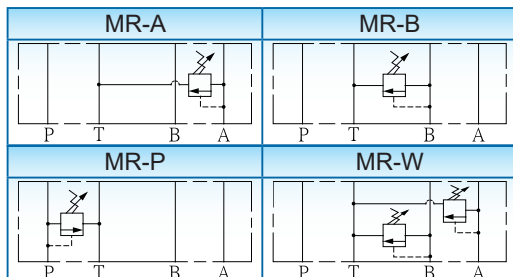
【MR-02】

ISO 4401-AB-03-4-A, CETOP 03, NG6, NFPA-D03

※SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(PSI)	MAX. FLOW (ℓ/min)	WEIGHT (Kg)
MR-02-P	210(3045)	40	1.7
MR-02-A			
MR-02-B			
MR-02-W			2.6

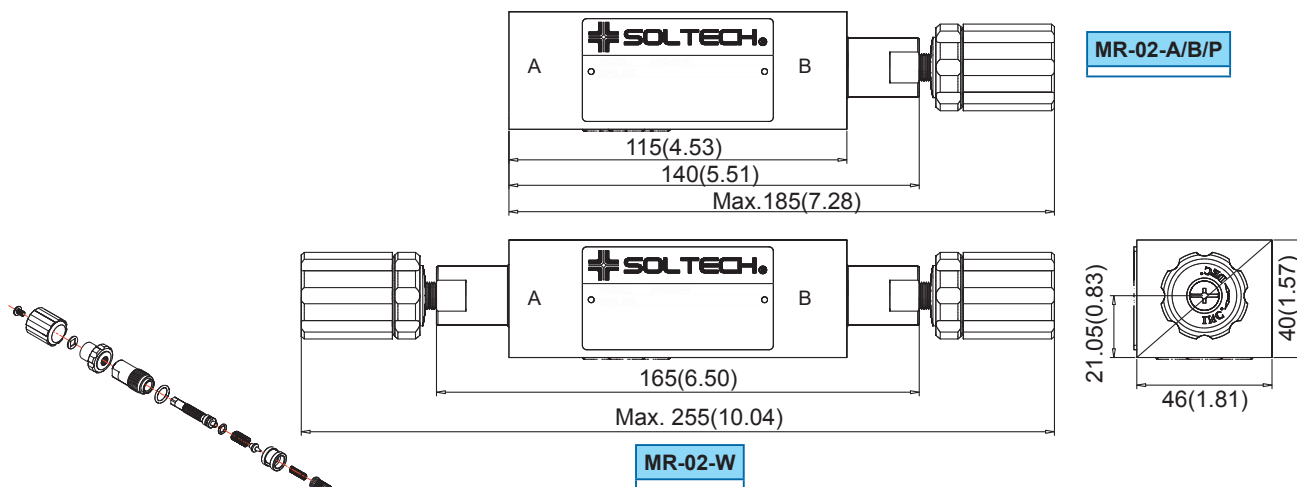
※GRAPHIC SYMBOL



※MODEL NUMBER DESIGNATION

MR-	02-	P-	1-	(S)-	(90)
SERIES NO.	VALVE SIZE 02: NG6	FUNCTION PORT P: "P" PORT A: "A" PORT B: "B" PORT W: "A&B" PORT	PRESSURE ADJ. RANGE (Kg/cm ²) 1: 8~70 2: 8~140 3: 10~210	ADJ. KITS OMIT: WITH KNOB S: SOCKET HEAD CAP SCREW	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA)

※DIMENSIONS



UNIT: M.M.(INCHES)

Item No.	Part No.	Quantity(PCs)	
		(A/B/P)	(W)
1	SB00006	1	2
2	P000009	1	2
3	P000010	1	2
4	IR00037	1	2
5	OR0001	1	2
6	IR00038	1	2
7	OR00023	1	2
8	S000013	1	2
9	IR00039	1	2
10	IR00044	1	2
11	S000016	1	2
12	SP00063	1	2
13	OR00012	2	4
14	SP00064	1	2
15	FB00012	1	1
16	SB00005	1	1
17	OR00003	4	4



SOLTECH

MODULAR(STACK) CONTROLS

RELIEF MODULAR VALVES

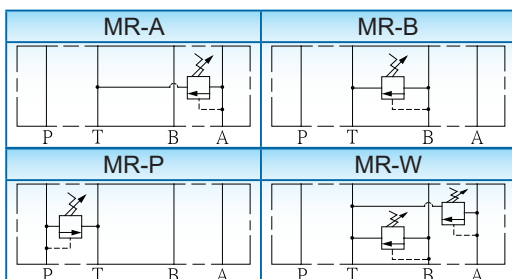
【MR-03】

ISO 4401-AC-05-4-A, CETOP 05, NG10, NFPA-D05

※SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(PSI)	MAX. FLOW (ℓ/min)	WEIGHT (Kg)
MR-03-P	210(3045)	80	3.7
MR-03-A			
MR-03-B			
MR-03-W			4.4

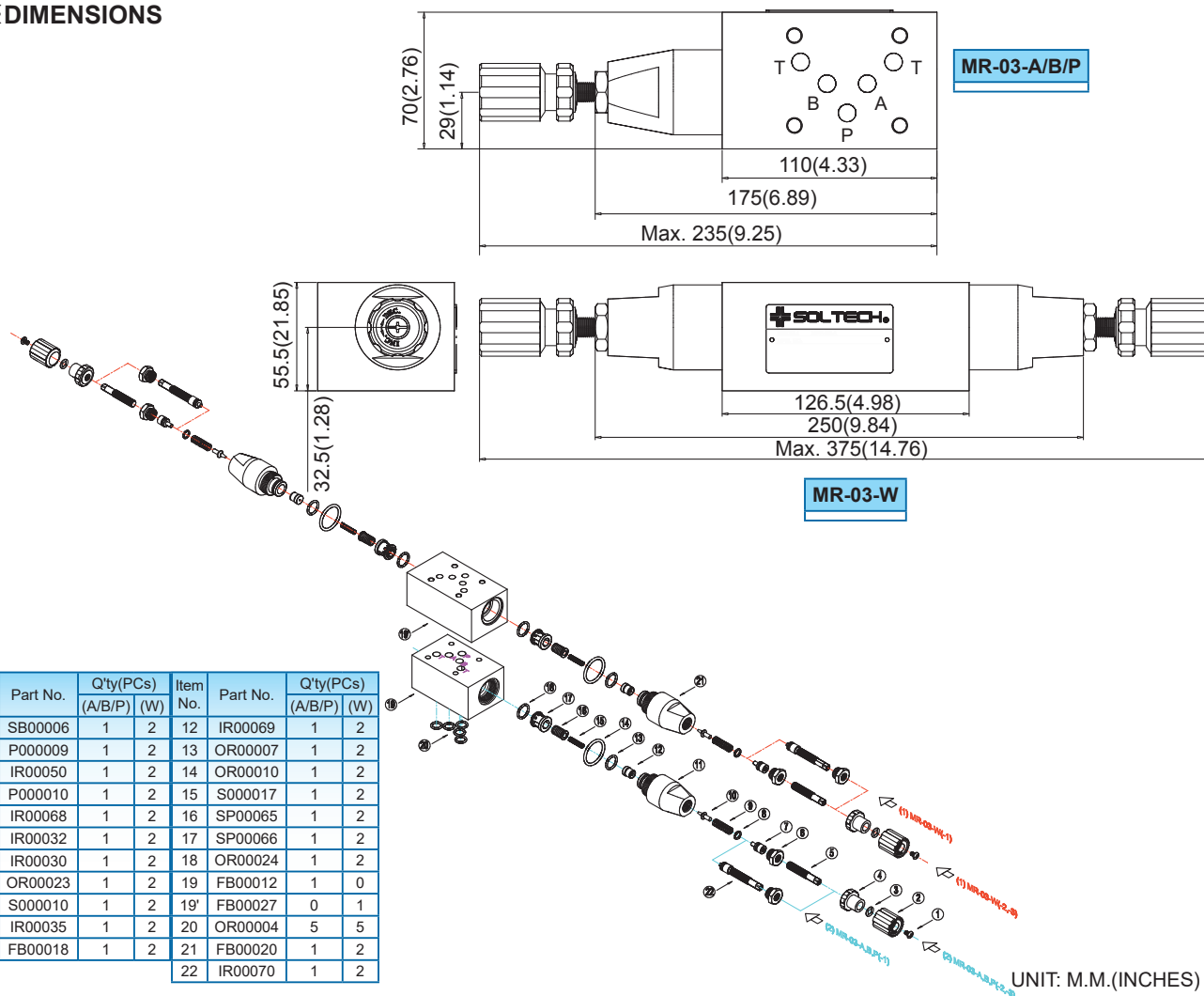
※GRAPHIC SYMBOL



※MODEL NUMBER DESIGNATION

MR-	03-	P-	1-	(S)-	(90)
SERIES NO.	VALVE SIZE 03: NG10	FUNCTION PORT P: "P" PORT A: "A" PORT B: "B" PORT w: "A&B" PORT	PRESSURE ADJ. RANGE (Kgf/cm ²) 1: 8~70 2: 8~140 3: 10~210	ADJ. KITS OMIT: WITH KNOB S: SOCKET HEAD CAP SCREW	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA)

※DIMENSIONS



UNIT: M.M.(INCHES)



SOLTECH

MODULAR(STACK) CONTROLS

RELIEF MODULAR VALVES

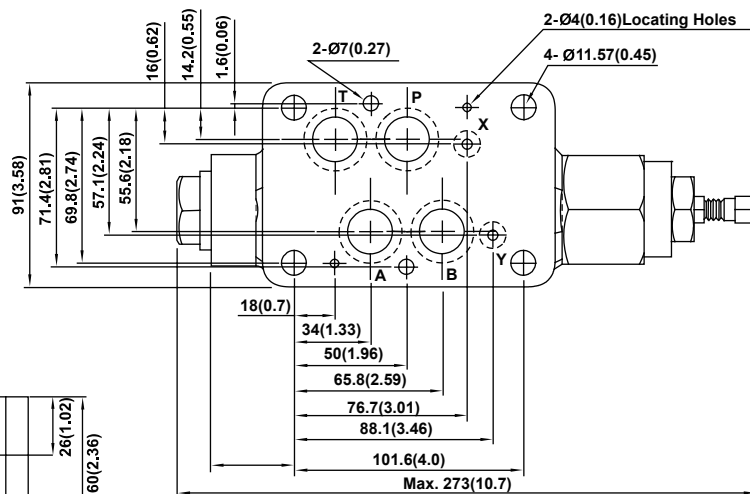
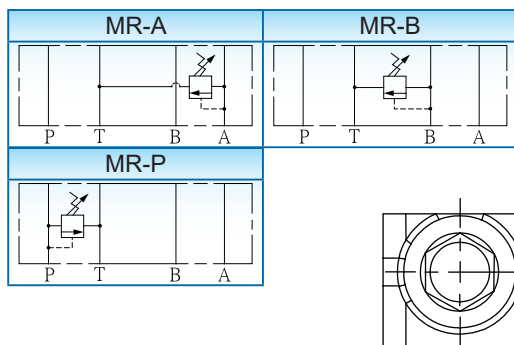
【MR-04】

ISO 4401-AD-07-4-A, CETOP 07, NG16, NFPA-D07

※SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(PSI)	MAX. FLOW ℓ/min(U.S.GPM)	WEIGHT (Kg)
MR-04-P	210(3045)	190(50.2)	7.0
MR-04-A			
MR-04-B			

※GRAPHIC SYMBOL



※MODEL NUMBER DESIGNATION

MR-	04-	P-	1-	(S)-	(90)
SERIES NO.	VALVE SIZE 04: NG16	FUNCTION PORT P: "P" PORT A: "A" PORT B: "B" PORT	PRESSURE ADJ. RANGE (Kg/cm ²) 1: 8~70 2: 8~140 3: 10~210	ADJ. KITS OMIT: WITH KNOB S: SOCKET HEAD CAP SCREW	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA STD.)

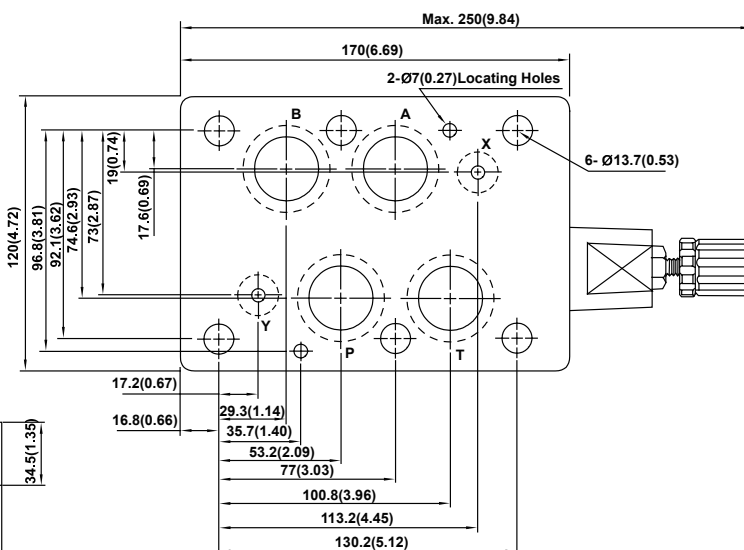
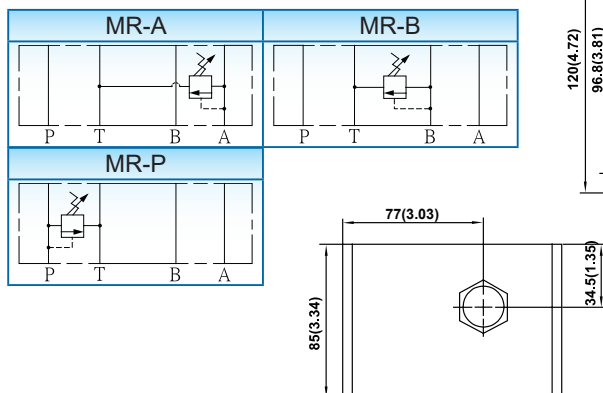
【MR-06】

ISO 4401-AE-08-4-A, CETOP 08, NG25, NFPA-D08

※SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(PSI)	MAX. FLOW ℓ/min(U.S.GPM)	WEIGHT (Kg)
MR-06-P	210(3045)	300(79.3)	11.2
MR-06-A			
MR-06-B			

※GRAPHIC SYMBOL



※MODEL NUMBER DESIGNATION

MR-	06-	P-	1-	(S)-	(90)
SERIES NO.	VALVE SIZE 06: NG25	FUNCTION PORT P: "P" PORT A: "A" PORT B: "B" PORT	PRESSURE ADJ. RANGE (Kg/cm ²) 1: 8~70 2: 8~140 3: 10~210	ADJ. KITS OMIT: WITH KNOB S: SOCKET HEAD CAP SCREW	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA STD.)

UNIT: M.M.(INCH)



SOLTECH

MODULAR(STACK) CONTROLS

PRESSURE REDUCING MODULAR VALVES

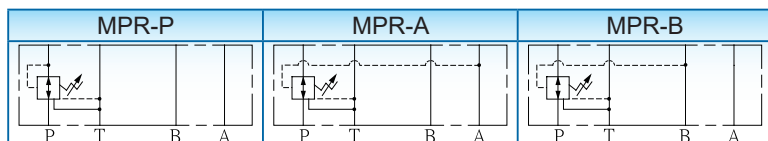
【MPR-02】

ISO 4401-AB-03-4-A, CETOP 03, NG6, NFPA-D03

※SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(PSI)	MAX. FLOW (ℓ/min)	WEIGHT (Kg)
MPR-02-P	210(3045)	40	1.4
MPR-02-A			
MPR-02-B			

※GRAPHIC SYMBOL



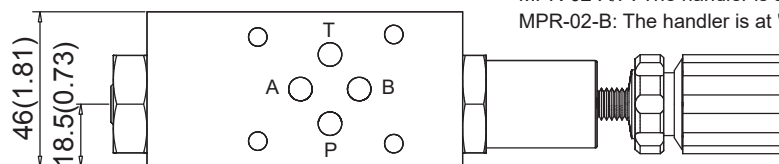
※MODEL NUMBER DESIGNATION

MPR-	02-	P-	1-	(S)-	(90)
SERIES NO.	VALVE SIZE 02: NG6	FUNCTION PORT P: "P" PORT A: "A" PORT B: "B" PORT	PRESSURE ADJ. RANGE (Kg/cm ²) 0: 8~35 1: 8~70 2: 8~140 3: 35~210	ADJ. KITS OMIT: WITH KNOB S: SOCKET HEAD CAP SCREW	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA)

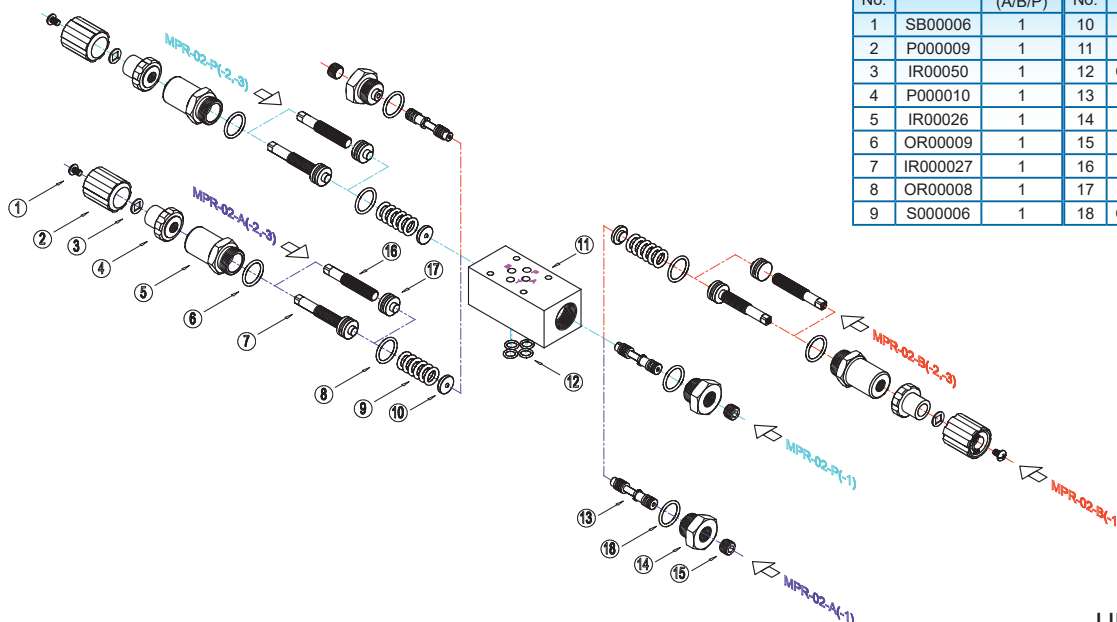
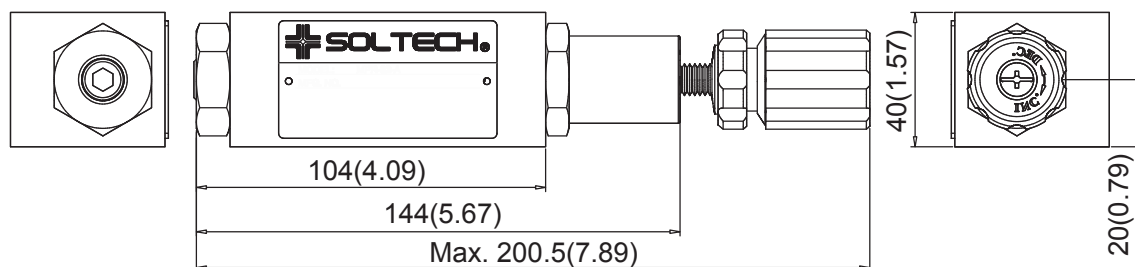
※DIMENSIONS

MPR-02-A/P: The handler is at "B" side (view from nameplate)

MPR-02-B: The handler is at "A" side



MPR-02-A/P



Item No.	Part No.	Q'ty(PCs) (A/B/P)	Item No.	Part No.	Q'ty(PCs) (A/B/P)
1	SB00006	1	10	IR00029	1
2	P000009	1	11	FB00009	1
3	IR00050	1	12	OR00003	4
4	P000010	1	13	SP00061	1
5	IR00026	1	14	IR00028	1
6	OR00009	1	15	SB00005	1
7	IR000027	1	16	IR00068	1
8	OR00008	1	17	IR00071	1
9	S000006	1	18	OR00028	1

UNIT: M.M.(INCH)

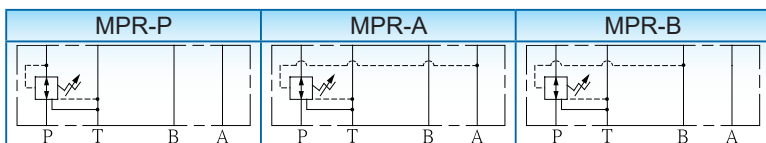
【MPR-03】

ISO 4401-AC-05-4-A, CETOP 05, NG10, NFPA-D05

※SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(PSI)	MAX. FLOW (ℓ/min)	WEIGHT (Kg)
MPR-03-P	210(3045)	80	3.6
MPR-03-A			
MPR-03-B			

※GRAPHIC SYMBOL

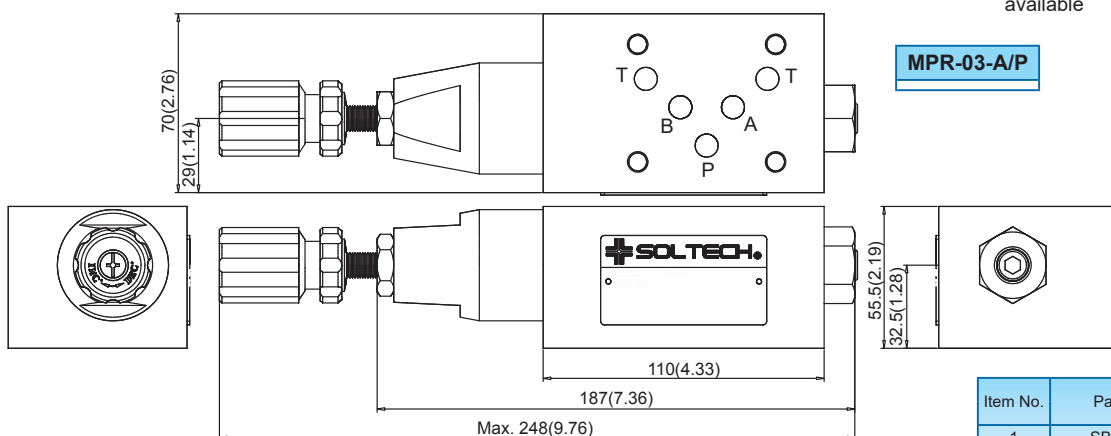


※MODEL NO. DESIGNATION

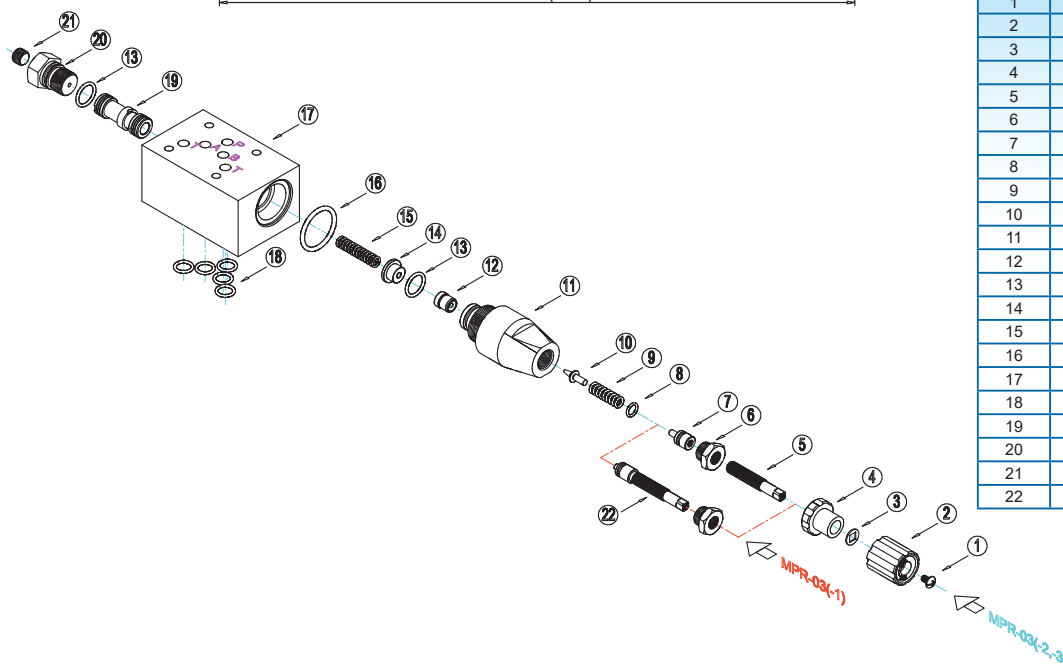
MPR-	03-	P-	1-	(S)-	(90)
SERIES NO.	VALVE SIZE 03: NG16	FUNCTION PORT P: "P" PORT A: "A" PORT B: "B" PORT	PRESSURE ADJ. RANGE (Kgf/cm ²) 1: 8~35 2: 8~70 3: 10~210	ADJ. KITS OMIT: WITH KNOB S: SOCKET HEAD CAP SCREW	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA)

※DIMENSIONS

MPR-03-A/P: The handler is at "B" side (view from nameplate)
MPR-03-B: The handler is at "A" side
MPR-03-P: The handler at "A" side (view from nameplate) is available



Item No.	Part No.	Quantity(PCs) (A/B/P)
1	SB00006	1
2	P000009	1
3	IR00050	1
4	P000010	1
5	IR00068	1
6	IR00032	1
7	IR00030	1
8	OR00023	1
9	S000010	1
10	IR00035	1
11	IR00036	1
12	IR00069	1
13	OR00007	2
14	IR00031	1
15	S000011	1
16	OR00010	1
17	FB00008	1
18	OR00004	5
19	SP00062	1
20	IR00034	1
21	SB00005	1
22	IR00070	1



UNIT: M.M.(INCH)

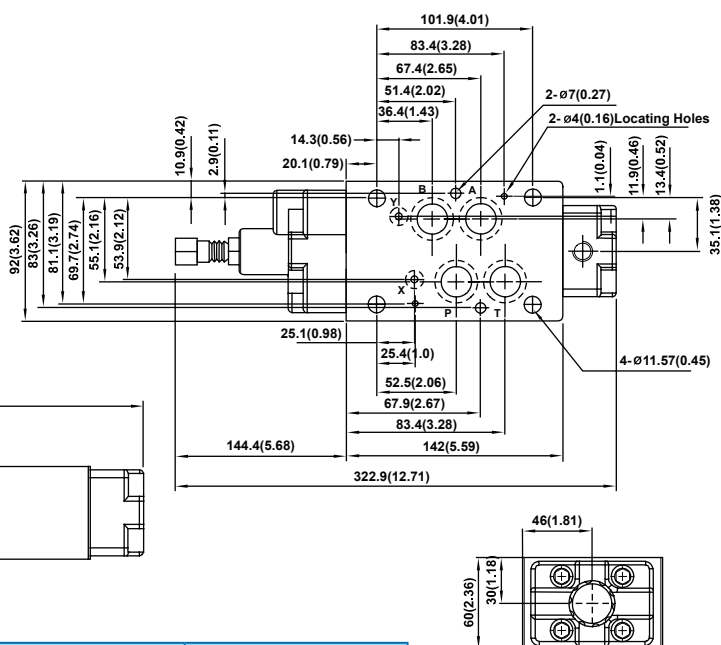
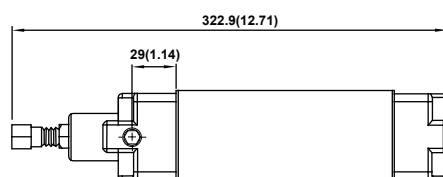


B

✖ SPECIFICATION

ISO 4401-AD-07-4-A, CETOP 07, NG16, NFPA-D07

✖GRAPHIC SYMBOL



※MODEL NUMBER DESIGNATION

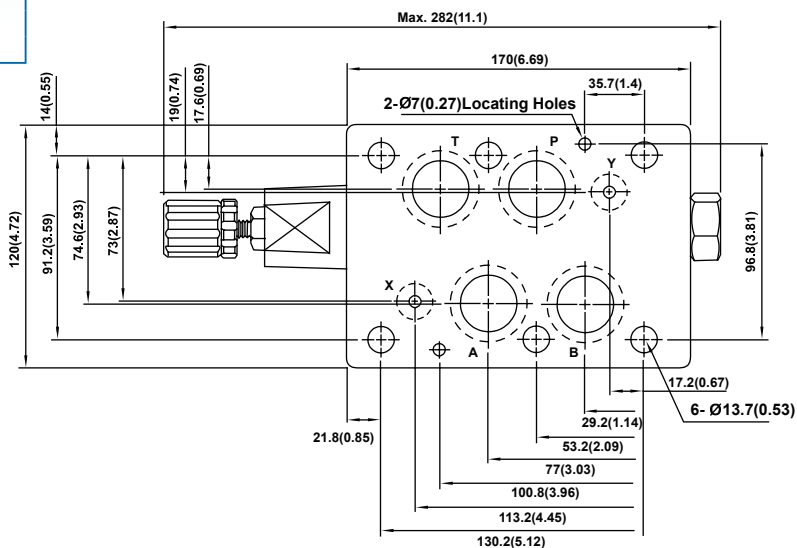
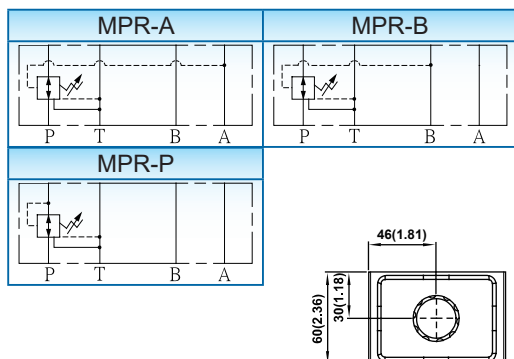
MPR-	04-	P-	1-	(S)-	(90)
SERIES NO.	VALVE SIZE 04: NG16	FUNCTION PORT P: "P" PORT A: "A" PORT B: "B" PORT	PRESSURE ADJ. RANGE (Kg/f/cm ²) 1: 8~70 2: 8~140 3: 10~210	ADJ. KITS OMIT: WITH KNOB S: SOCKET HEAD CAP SCREW	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA STD.)

ISO 4401-AE-08-4-A, CETOP 08, NG25, NFPA-D08

✧ SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(PSI)	MAX. FLOW ℓ/min(U.S.GPM)	WEIGHT (Kg)
MPR-06-P	210(3045)	300(79.3)	11.2
MPR-06-A			
MPR-06-B			

✱GRAPHIC SYMBOL



※MODEL NUMBER DESIGNATION

MPR-	06-	P-	1-	(S)-	(90)
SERIES NO.	VALVE SIZE 06: NG25	FUNCTION PORT P: "P" PORT A: "A" PORT B: "B" PORT	PRESSURE ADJ. RANGE (Kg/f/cm ²) 1: 8~70 2: 8~140 3: 10~210	ADJ. KITS OMIT: WITH KNOB S: SOCKET HEAD CAP SCREW	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA STD.)

UNIT: M.M.(INCH)



SOLTECH

MODULAR(STACK) CONTROLS

THROTTLE AND CHECK MODULAR VALVES

【MTC-02】

ISO 4401-AB-03-4-A, CETOP 03, NG6, NFPA-D03

※SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(PSI)	MAX. FLOW (ℓ/min)	WEIGHT (Kg)
MTC-02-A	210(3045)	40	1.4
MTC-02-B			
MTC-02-W			1.5

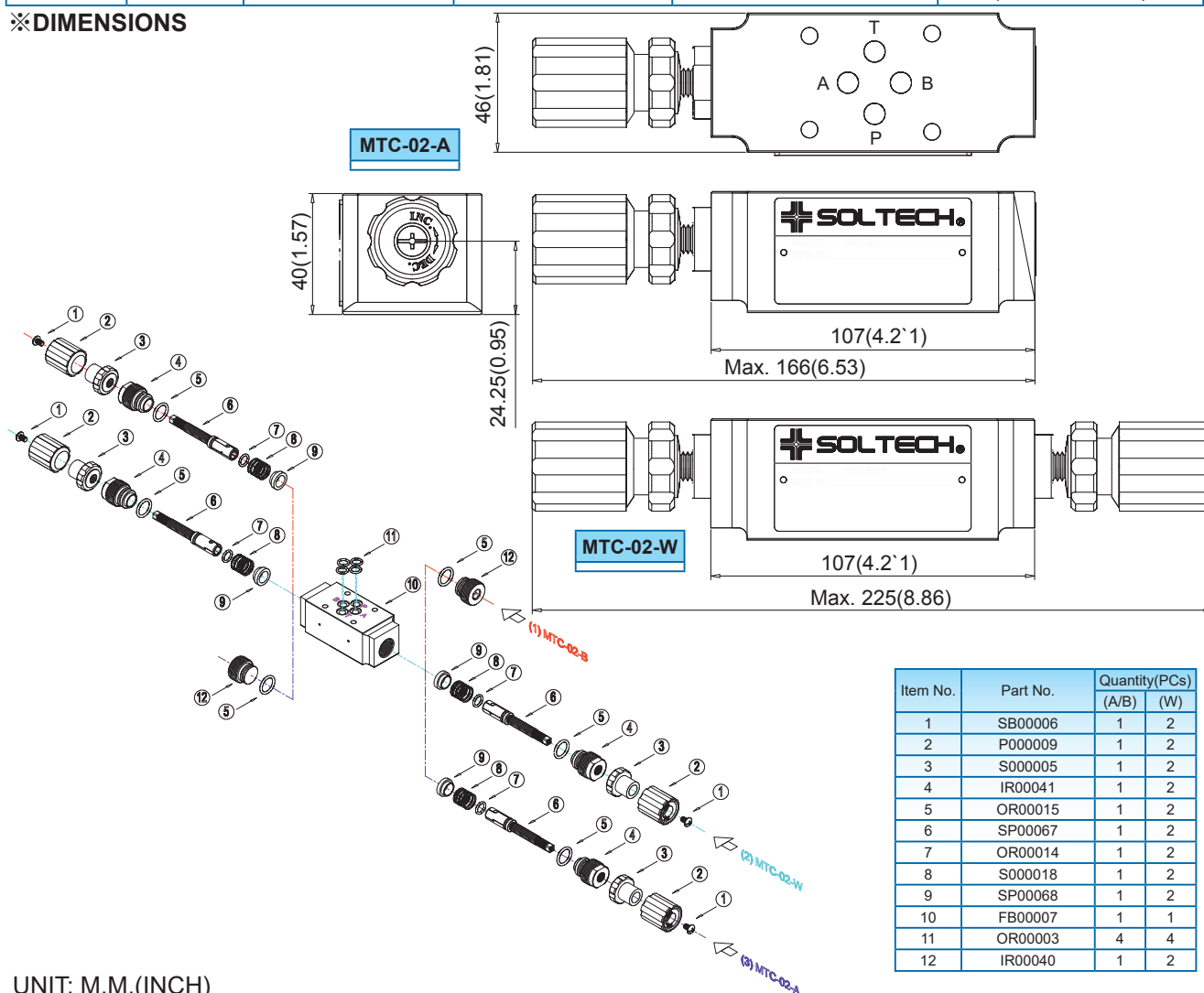
※GRAPHIC SYMBOL

MTC-A-X	MTC-B-X	MTC-W-X
MTC-A-Y	MTC-B-Y	MTC-W-Y

※MODEL NUMBER DESIGNATION

MTC-	02-	P-	X-	(S)-	(90)
SERIES NO.	VALVE SIZE 02: NG6	FUNCTION PORT P: "P" PORT A: "A" PORT B: "B" PORT W: "A"&"B" PORTS	ORIENTATION X: METER OUT Y: METER IN	ADJ. KITS OMIT: WITH KNOB S: SOCKET HEAD CAP SCREW	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA)

※DIMENSIONS





B

【MTC-03】

[illegible]

MODEL	MAX. OPER. PRES. Bar(Psi)	MAX. FLOW (ℓ/min)	WEIGHT (Kg)
MTC-03-A	210(3045)	80	2.5
MTC-03-B			
MTC-03-W			3.1

MTC-A-X	MTC-B-X	MTC-W-X
MTC-A-Y	MTC-B-Y	MTC-W-Y

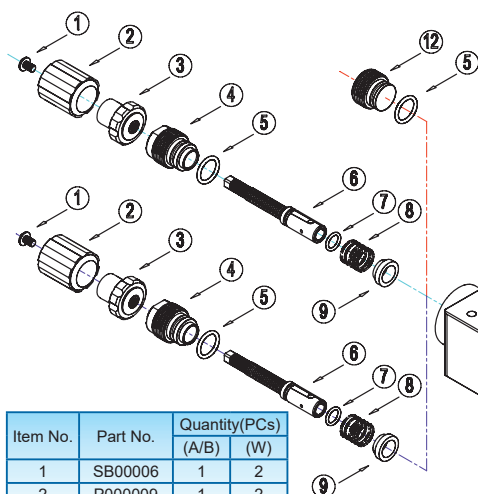
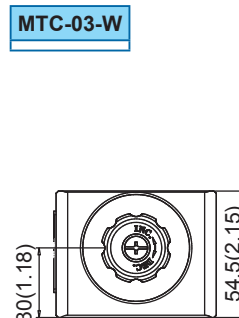
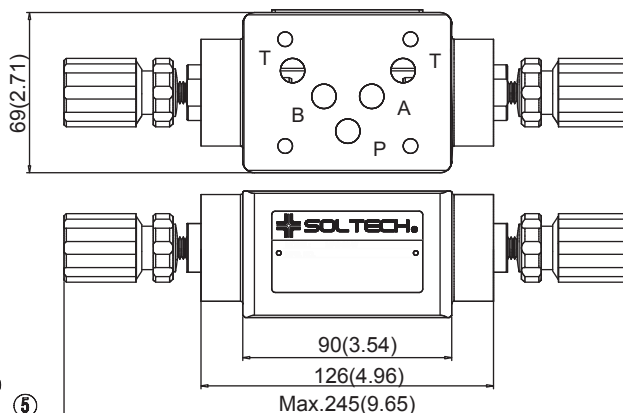
MTC-	03-	A-	X-	(S)-	(90)
SERIES NO.	VALVE SIZE 03: NG10	FUNCTION PORT P: "P" PORT A: "A" PORT B: "B" PORT W: "A"&"B" PORTS	ORIENTATION X: METER OUT Y: METER IN	ADJ. KITS OMIT: WITH KNOB S: SOCKET HEAD CAP SCREW	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA)

MTC-03-A

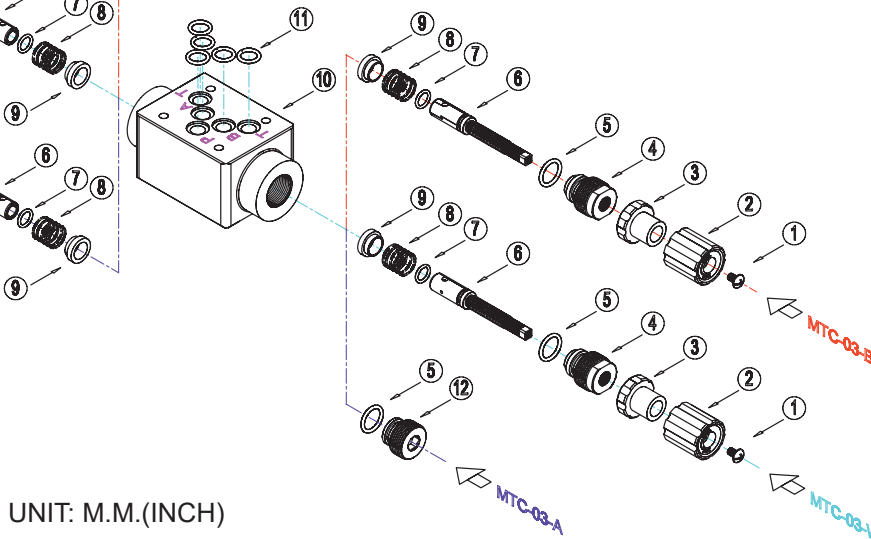
90(3.54)

126(4.96)

Max. 185(7.28)



Item No.	Part No.	Quantity(PCs)	
		(A/B)	(W)
1	SB00006	1	2
2	P000009	1	2
3	S000005	1	2
4	IR00041	1	2
5	OR00015	1	2
6	SP00067	1	2
7	OR00014	1	2
8	S000018	1	2
9	SP00068	1	2
10	FB00008	1	1
11	OR00003	5	5
12	IR00040	1	2



UNIT: M.M.(INCH)



SOLTECH

MODULAR(STACK) CONTROLS

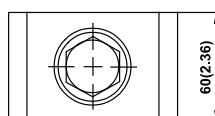
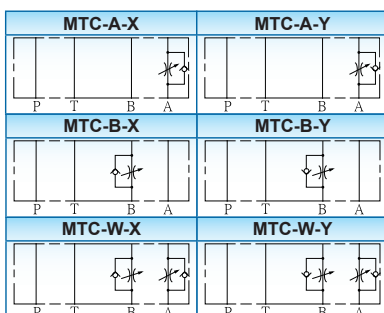
RELIEF MODULAR VALVES

B

※SPECIFICATION

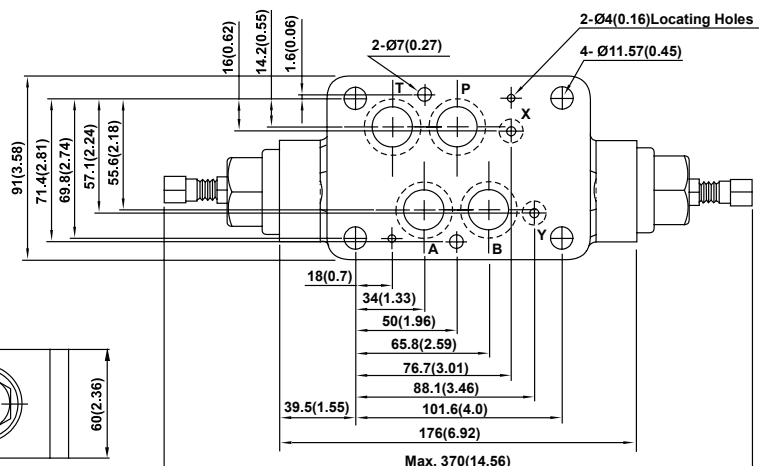
MODEL	MAX. OPER. PRES. Bar(Psi)	MAX. FLOW ℓ/min(U.S.GPM)	WEIGHT (Kg)
MTC-04-A	210(3045)	190(50.2)	7.0
MTC-04-B			
MTC-04-W			

※GRAPHIC SYMBOL

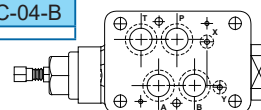


【MTC-04】

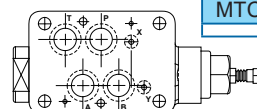
ISO 4401-AD-07-4-A, CETOP 07, NG16, NFPA-D07



MTC-04-B



MTC-04-A



※MODEL NUMBER DESIGNATION

MTC-	04-	W-	X-	(S)-	(90)
SERIES NO.	VALVE SIZE 04: NG16	FUNCTION PORT A: "A" PORT B: "B" PORT W: "A&B" PORT	ORIENTATION X: METER OUT Y: METER IN	ADJ. KITS OMIT: WITH KNOB S: SOCKET HEAD CAP SCREW	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA STD.)

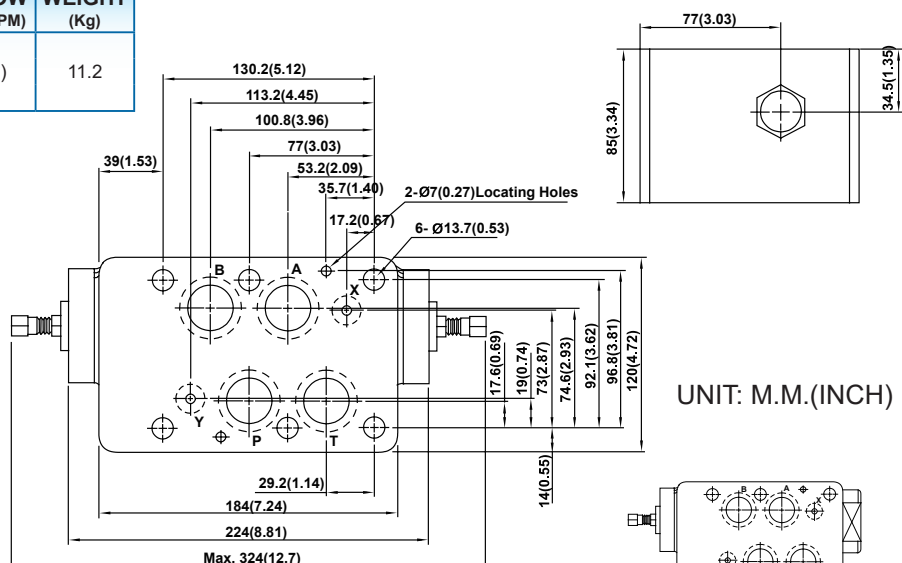
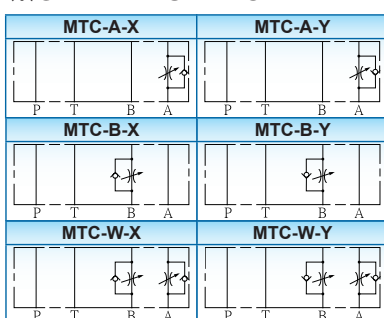
【MTC-06】

ISO 4401-AE-08-4-A, CETOP 08, NG25, NFPA-D08

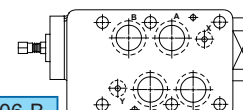
※SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(Psi)	MAX. FLOW ℓ/min(U.S.GPM)	WEIGHT (Kg)
MTC-06-A	210(3045)	300(79.2)	11.2
MTC-06-B			
MTC-06-W			

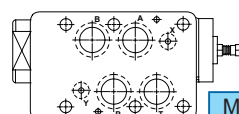
※GRAPHIC SYMBOL



MTC-06-B



MTC-06-A



※MODEL NUMBER DESIGNATION

MTC-	06-	W-	X-	(S)-	(90)
SERIES NO.	VALVE SIZE 06: NG25	FUNCTION PORT A: "A" PORT B: "B" PORT W: "A&B" PORT	ORIENTATION X: METER OUT Y: METER IN	ADJ. KITS OMIT: WITH KNOB S: SOCKET HEAD CAP SCREW	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA STD.)



SOLTECH

MODULAR(STACK) CONTROLS

SEQUENCE & COUNTER-BALANCE MODULAR VALVES

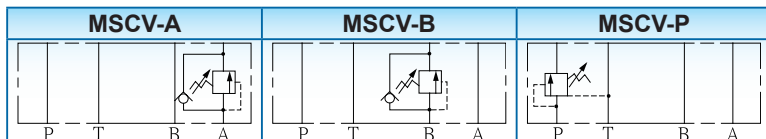
【MSCV-02】

ISO 4401-AB-03-4-A, CETOP 03, NG6, NFPA-D03

※SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(PSI)	MAX. FLOW (ℓ/min)	WEIGHT (Kg)
MSCV-02-P/A/B	210(3045)	40	1.5

※GRAPHIC SYMBOL

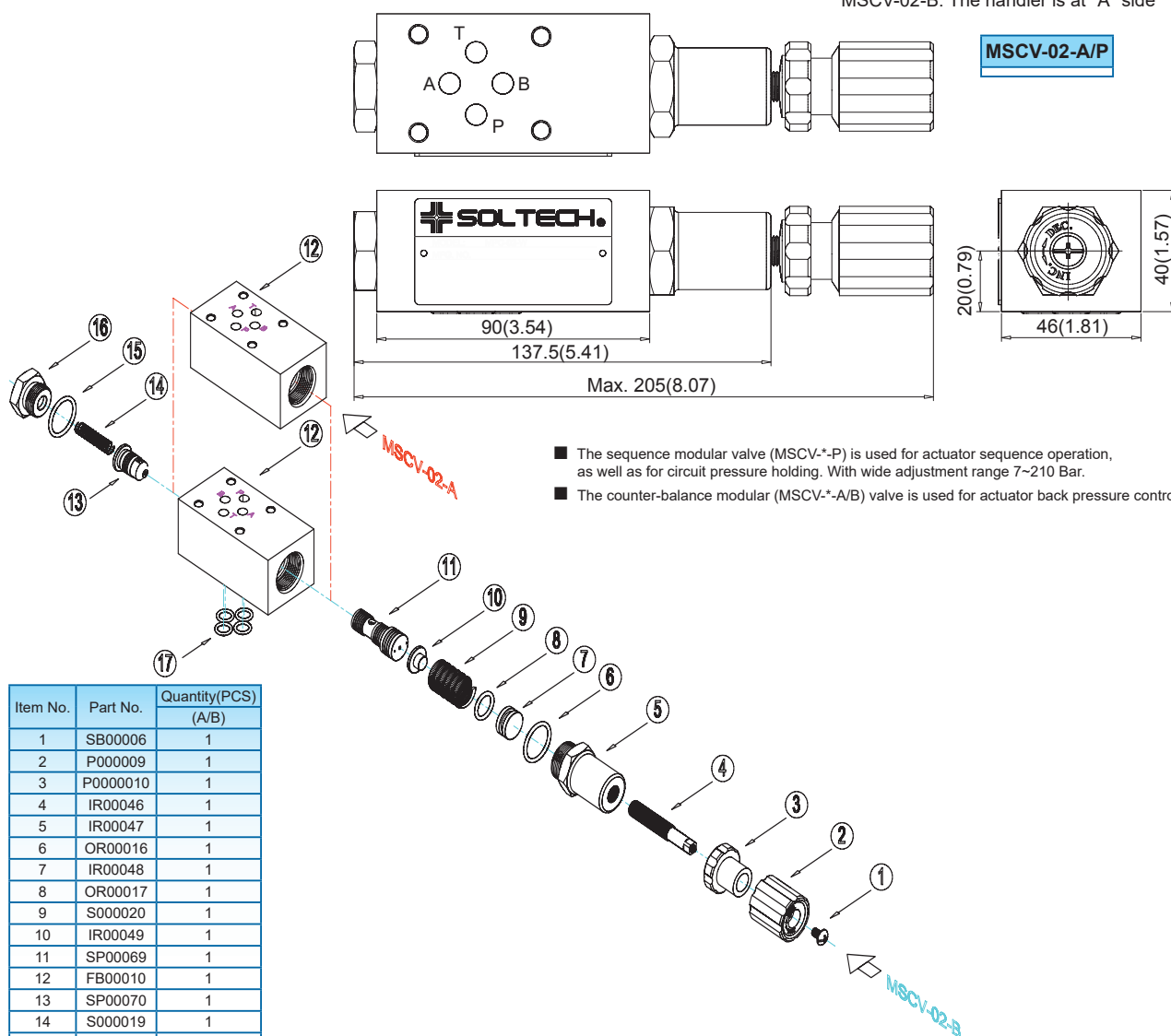


※MODEL NUMBER DESIGNATION

MSCV-	02-	A-	1-	(S)-	(90)
SERIES NO.	VALVE SIZE 02: NG6	FUNCTION PORT P: "P" PORT A: "A" PORT B: "B" PORT	PRESSURE ADJ. RANGE (Kgf/cm ²) 1: 7~70 2: 10~210	ADJ. KITS OMIT: WITH KNOB S: SOCKET HEAD CAP SCREW	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA)

※DIMENSIONS

MSCV-02-A/P: The handler is at "B" side
MSCV-02-B: The handler is at "A" side



UNIT: M.M.(INCH)



SOLTECH

MODULAR(STACK) CONTROLS

SEQUENCE & COUNTER-BALANCE MODULAR VALVES

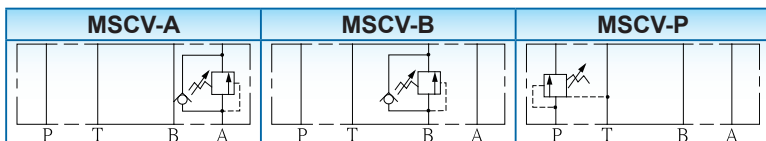
【MSCV-03】

ISO 4401-AC-05-4-A, CETOP 05, NG10, NFPA-D05

※SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(Psi)	MAX. FLOW (ℓ/min)	WEIGHT (Kg)
MSCV-03-P/A/B	210(3045)	80	4.5

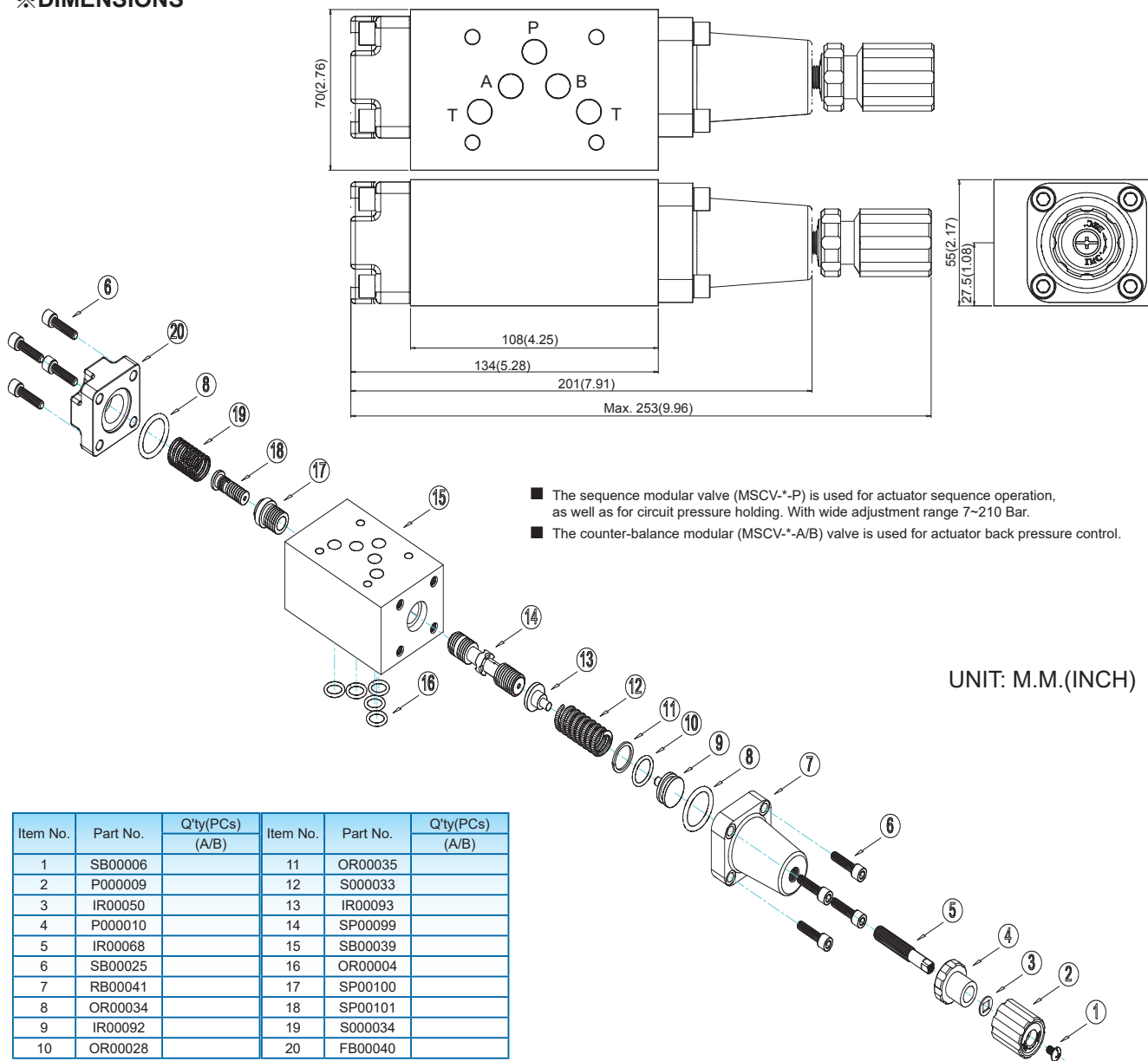
※GRAPHIC SYMBOL



※MODEL NUMBER DESIGNATION

MSCV-	03-	A-	1-	(S)-	(90)
SERIES NO.	VALVE SIZE 03: NG10	FUNCTION PORT P: "P" PORT A: "A" PORT B: "B" PORT	PRESSURE ADJ. RANGE (Kg/cm ²) 1: 7~70 2: 10~210	ADJ. KITS OMIT: WITH KNOB S: SOCKET HEAD CAP SCREW	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA)

※DIMENSIONS



MSCV-03-A



SOLTECH

MODULAR(STACK) CONTROLS

SEQUENCE & COUNTER-BALANCE MODULAR VALVES

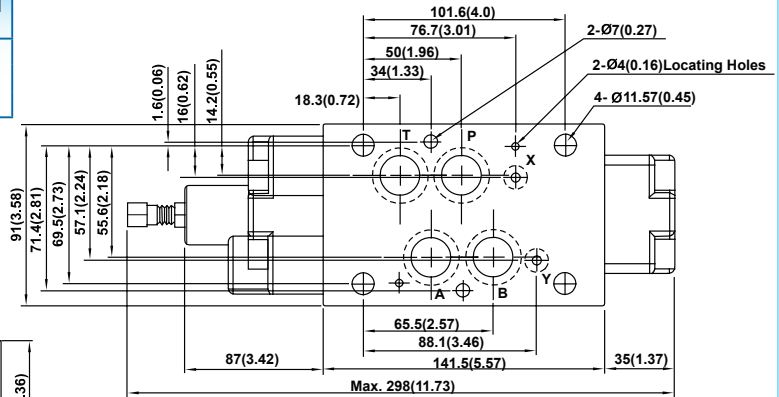
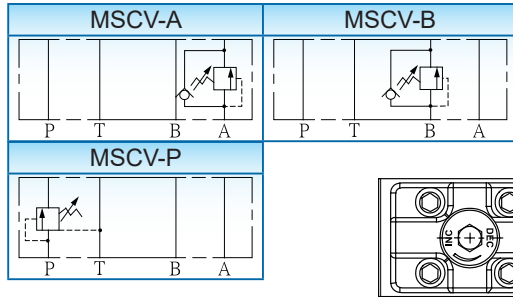
【MSCV-04】

ISO 4401-AD-07-4-A, CETOP 07, NG16, NFPA-D07

※SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(PSI)	MAX. FLOW ℓ/min(U.S.GPM)	WEIGHT (Kg)
MSCV-04-P	210(3045)	190(50.2)	7.0
MSCV-04-A			
MSCV-04-B			

※GRAPHIC SYMBOL



- The sequence modular valve (MSCV-*-P) is used for actuator sequence operation, as well as for circuit pressure holding. With wide adjustment range 7~210 Bar.
- The counter-balance modular (MSCV-*-A/B) valve is used for actuator back pressure control.

※MODEL NUMBER DESIGNATION

MSCV-	04-	P-	1-	(S)-	(90)
SERIES NO.	VALVE SIZE 04: NG16	FUNCTION PORT P: "P" PORT A: "A" PORT B: "B" PORT	PRESSURE ADJ. RANGE (Kg/cm ²) 1: 7~70 2: 10~210	ADJ. KITS OMIT: WITH KNOB S: SOCKET HEAD CAP SCREW	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA STD.)

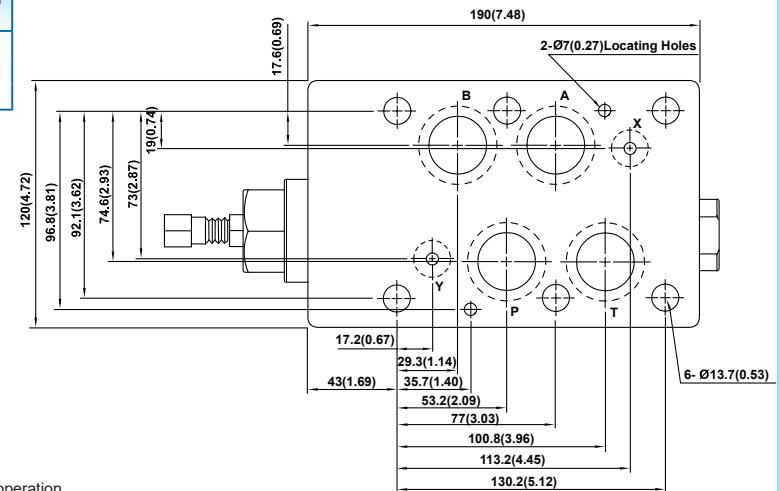
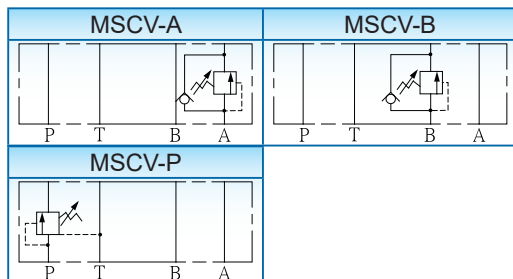
【MSCV-06】

ISO 4401-AE-08-4-A, CETOP 08, NG25, NFPA-D08

※SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(PSI)	MAX. FLOW ℓ/min(U.S.GPM)	WEIGHT (Kg)
MSCV-06-P	210(3045)	300(79.3)	7.0
MSCV-06-A			
MSCV-06-B			

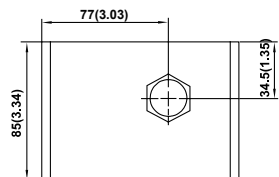
※GRAPHIC SYMBOL



- The sequence modular valve (MSCV-*-P) is used for actuator sequence operation, as well as for circuit pressure holding. With wide adjustment range 7~210 Bar.
- The counter-balance modular (MSCV-*-A/B) valve is used for actuator back pressure control.

※MODEL NUMBER DESIGNATION

MSCV-	06-	P-	1-	(S)-	(90)
SERIES NO.	VALVE SIZE 06: NG25	FUNCTION PORT P: "P" PORT A: "A" PORT B: "B" PORT	PRESSURE ADJ. RANGE (Kg/cm ²) 1: 7~70 2: 10~210	ADJ. KITS OMIT: WITH KNOB S: SOCKET HEAD CAP SCREW	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA STD.)



UNIT: M.M.(INCH)



SOLTECH

MODULAR(STACK) CONTROLS

CHECK MODULAR VALVES

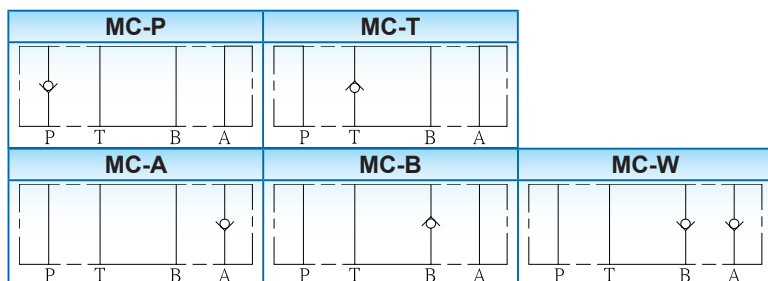
【MC-02】

ISO 4401-AB-03-4-A, CETOP 03, NG6, NFPA-D03

※SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(PSI)	MAX. FLOW (ℓ/min)	WEIGHT (Kg)
MC-02-P	210(3045)	40	1.2
MC-02-T			
MC-02-A/B			
MC-02-W			

※GRAPHIC SYMBOL

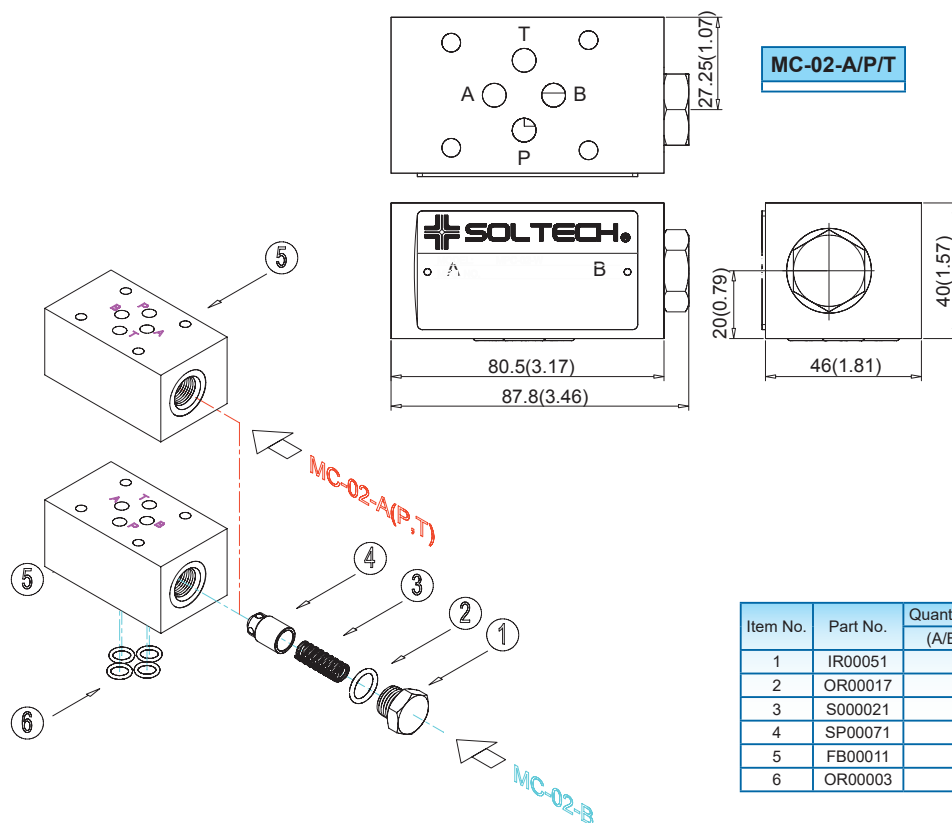


※MODEL NUMBER DESIGNATION

MC-	02-	A-	1-	(90)
SERIES NO.	02: NG6	FUNCTION PORT A: "A" PORT B: "B" PORT W: "A"&"B" PORT P: "P" PORT T: "T" PORT	CRACKING PRESSURE (Kg/cm²) 1: 0.5 2: 2.5 3: 4	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA)

※DIMENSIONS

MC-02-A/P/T: The handler is at "A" side
MC-02-B: The handler is at "B" side
MC-02-W: The handler is at "A&B" side



UNIT: M.M.(INCH)



SOLTECH

MODULAR(STACK) CONTROLS

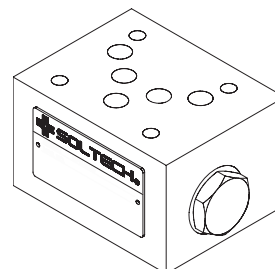
CHECK MODULAR VALVES

【MC-03】

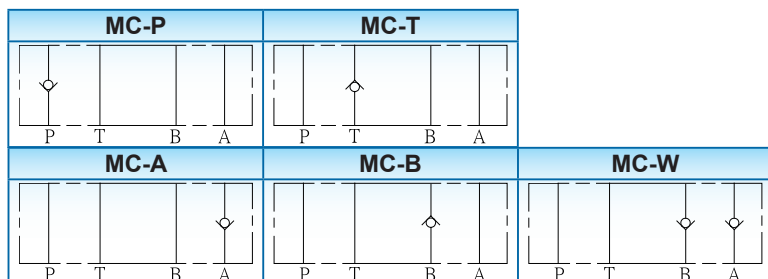
ISO 4401-AC-05-4-A, CETOP 05, NG10, NFPA-D05

※SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(PSI)	MAX. FLOW (ℓ/min)	WEIGHT (Kg)
MC-03-P	210(3045)	80	2.7
MC-03-T			
MC-03-A/B			
MC-03-W			



※GRAPHIC SYMBOL

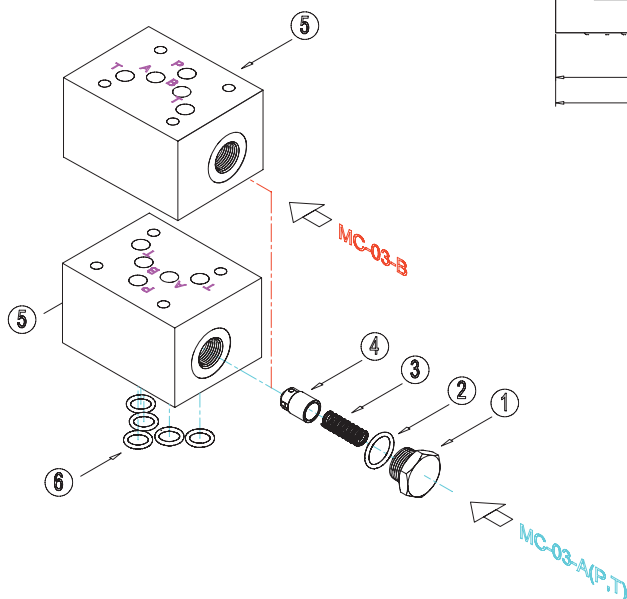
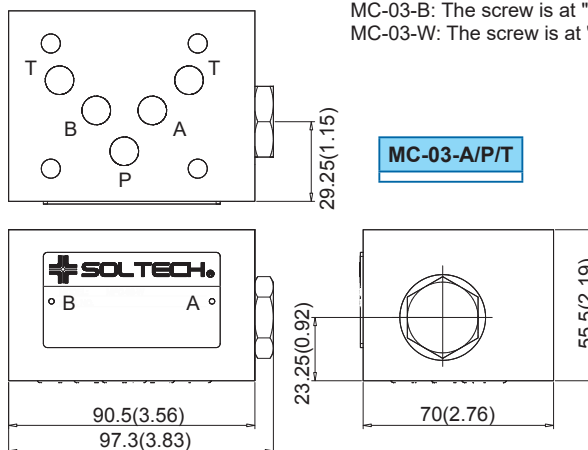


※MODEL NUMBER DESIGNATION

MC-	03-	A-	1-	(90)
SERIES NO.	03: NG10	FUNCTION PORT A: "A" PORT B: "B" PORT W: "A"&"B" PORT P: "P" PORT T: "T" PORT	CRACKING PRESSURE (Kg/cm ²) 1: 0.5 2: 2.5 3: 4	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA)

※DIMENSIONS

MC-03-A/P/T: The screw is at "A" side
MC-03-B: The screw is at "B" side
MC-03-W: The screw is at "A&B" side



Item No.	Part No.	Quantity(Ps) (A/B/P/T)
1	FB00014	1
2	OR00013	1
3	S000021	1
4	SP00074	1
5	FB00014	1
6	OR00004	5

UNIT: M.M.(INCH)



SOLTECH

MODULAR(STACK) CONTROLS

CHECK MODULAR VALVES

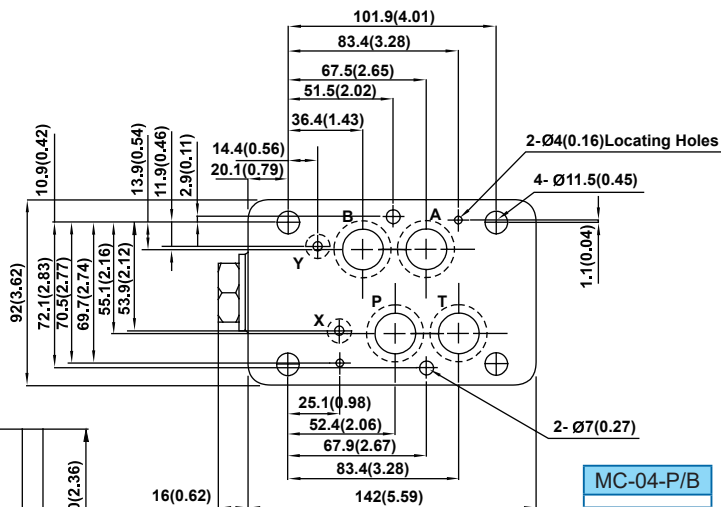
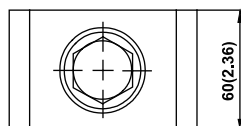
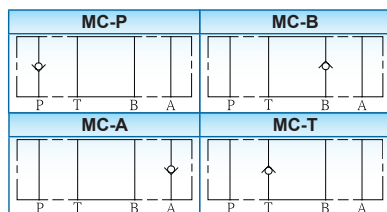
【MC-04】

ISO 4401-AD-07-4-A, CETOP 07, NG16, NFPA-D07

※SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(PSI)	MAX. FLOW ℓ/min(U.S.GPM)	WEIGHT (Kg)
MC-04-P	210(3045)	190(50.2)	7.0
MC-04-A			
MC-04-B			
MC-04-T			

※GRAPHIC SYMBOL

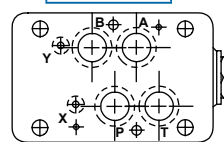


MC-04-P/B

※MODEL NUMBER DESIGNATION

MC-	04-	P-	1-	(90)
SERIES NO.	VALVE SIZE 04: NG16	FUNCTION PORT P: "P" PORT A: "A" PORT B: "B" PORT T: "T" PORT	CRACKING PRESSURE (Kg/cm ²) 1: 0.5 2: 2.5 3: 4	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA STD.)

MC-04-A/T



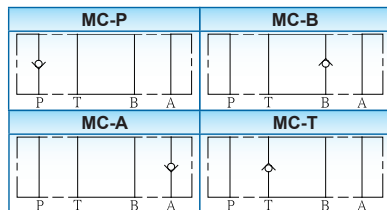
【MC-06】

ISO 4401-AE-08-4-A, CETOP 08, NG25, NFPA-D08

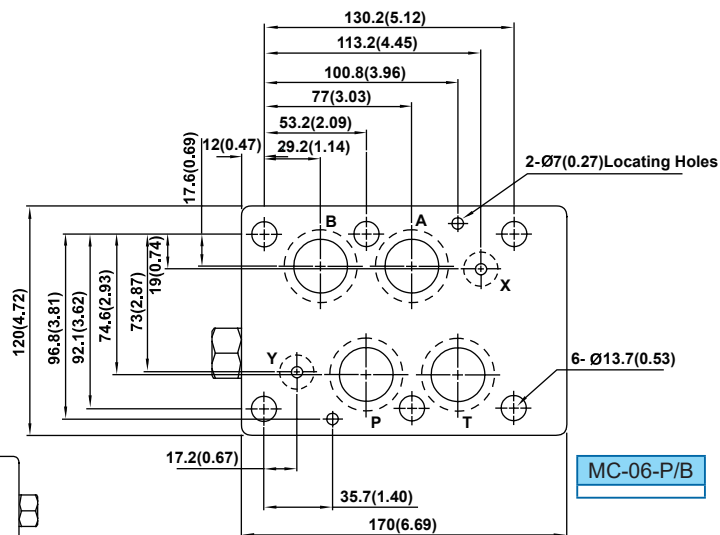
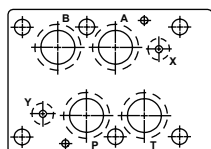
※SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(PSI)	MAX. FLOW ℓ/min(U.S.GPM)	WEIGHT (Kg)
MC-06-P	210(3045)	300(79.3)	11.2
MC-06-A			
MC-06-B			
MC-06-T			

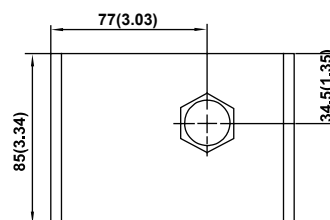
※GRAPHIC SYMBOL



MC-06-A/T



MC-06-P/B



※MODEL NUMBER DESIGNATION

MC-	06-	P-	1-	(90)
SERIES NO.	VALVE SIZE 06: NG25	FUNCTION PORT P: "P" PORT A: "A" PORT B: "B" PORT T: "T" PORT	CRACKING PRESSURE (Kg/cm ²) 1: 0.5 2: 2.5 3: 4	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA STD.)

UNIT: M.M.(INCH)



SOLTECH

MODULAR(STACK) CONTROLS

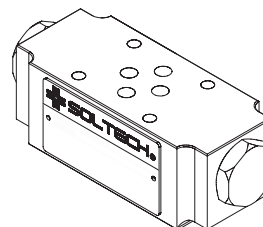
(ZERO-LEAKAGE) PILOT OPERATED CHECK MODULAR VALVES

【MPC-02】

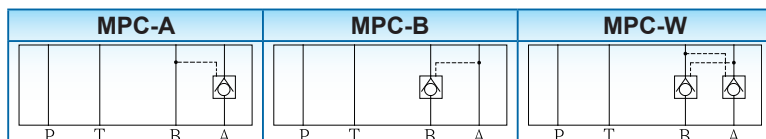
ISO 4401-AB-03-4-A, CETOP 03, NG6, NFPA-D03

※SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(Psi)	PILOT RATIO		MAX. FLOW (ℓ/min)	WEIGHT (Kg)
MP(D)C-(ZL)-02-A	250(3625)	MPC-ZL	MPDC-ZL	40	1.4
MP(D)C-(ZL)-02-B					
MP(D)C-(ZL)-02-W		1.4:1	5.4:1		



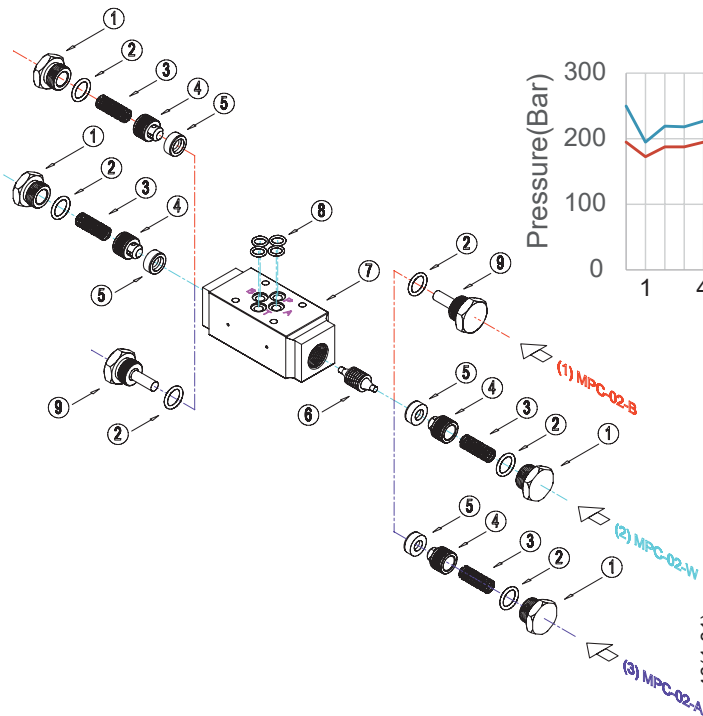
※GRAPHIC SYMBOL



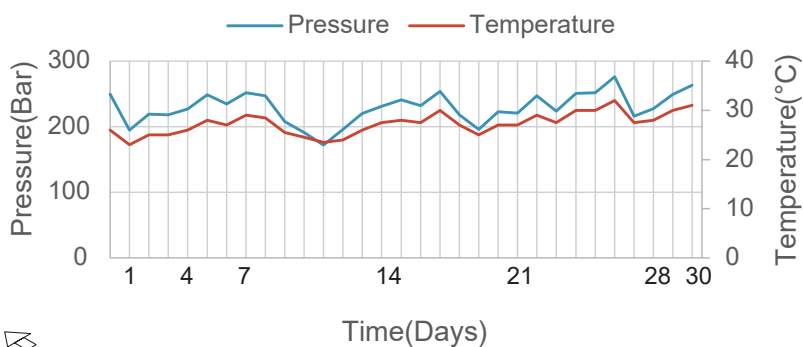
※MODEL NUMBER DESIGNATION

MPC-	(ZL)-	02-	A-	(90)
SERIES NO. MPC: Standard Type MPDC: Decompression type	OMIT: Standard Type ZL: Zero-Leakage Type	02: NG6	FUNCTION PORT A: "A" PORT B: "B" PORT W: "A"&"B" PORT	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA)

※DIMENSIONS

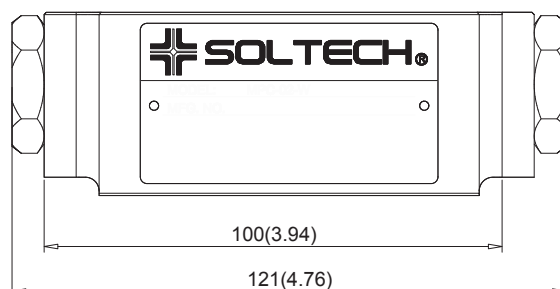
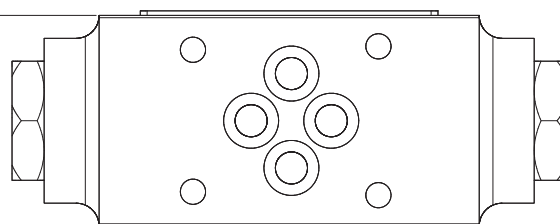
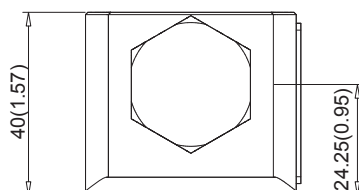


※30 DAYS OF PRESSURE LOCKING DIAGRAM



Item No.	Part No.	Quantity(PCs)	
		(A/B)	(W)
1	IR00020	1	2
2	OR00024	2	2
3	S000005	2	2
4	IR00021	1	2
5	IR00018	1	2
6	SP00059	1	1
7	FB00003	1	1
8	OR00003	4	4
9	IR00019	1	0

UNIT: M.M.(INCH)





SOLTECH

MODULAR(STACK) CONTROLS

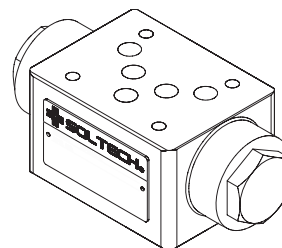
(ZERO-LEAKAGE) PILOT OPERATED CHECK MODULAR VALVES

【MPC-03】

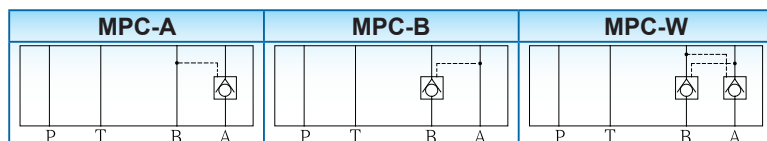
ISO 4401-AC-05-4-A, CETOP 05, NG10, NFPA-D05

※SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(PSI)	PILOT RATIO		MAX. FLOW (ℓ/min)	WEIGHT (Kg)
MP(D)C-(ZL)-03-A	250(3625)	MPC-ZL	MPDC-ZL	80	2.7
MP(D)C-(ZL)-03-B					
MP(D)C-(ZL)-03-W		1.3:1	7.1:1		



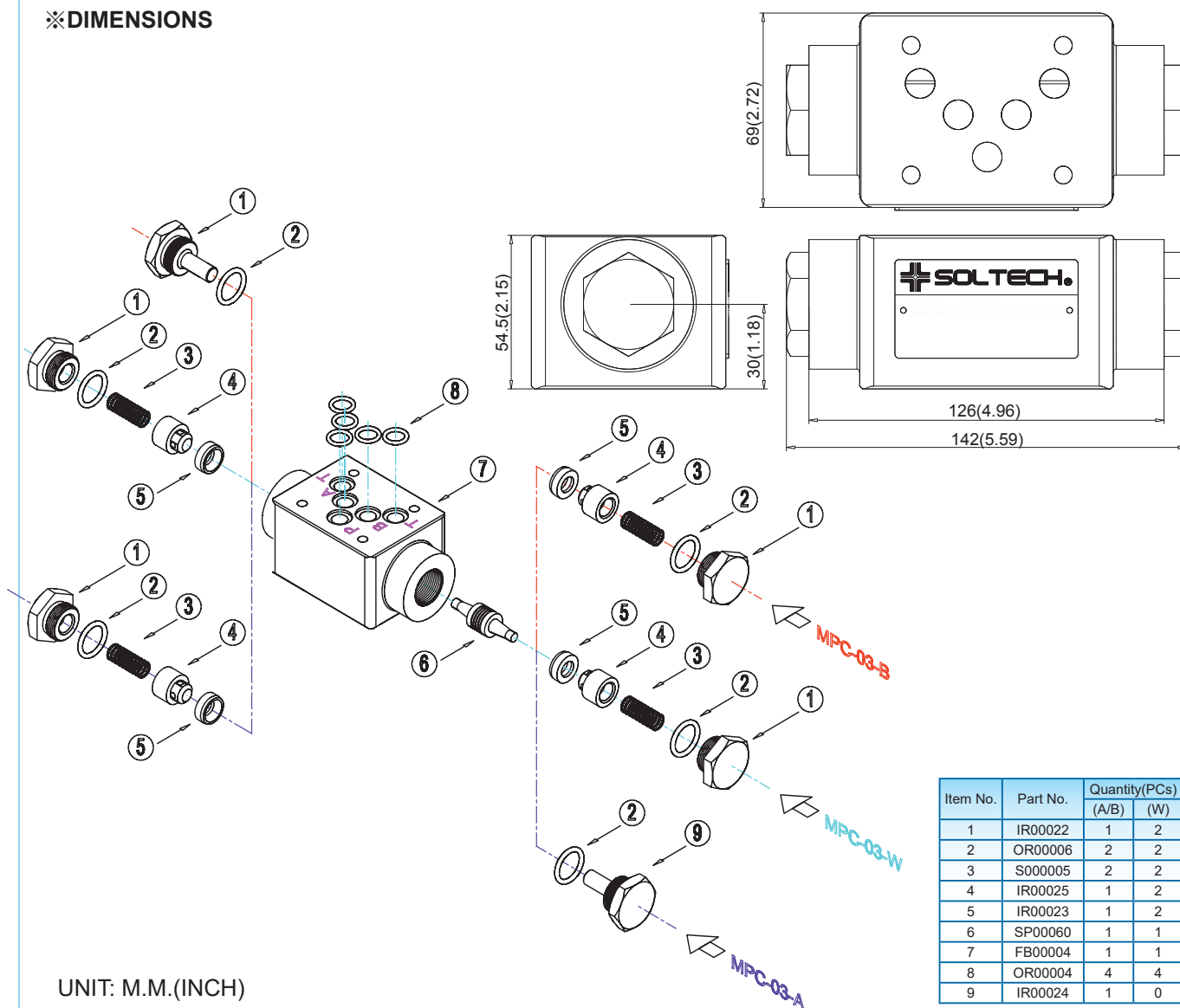
※GRAPHIC SYMBOL



※MODEL NUMBER DESIGNATION

MPC-	(ZL)-	03-	A-	(90)
SERIES NO. MPC: Standard Type	OMIT: Standard Type ZL: Zero-Leakage Type	03: NG10	FUNCTION PORT A: "A" PORT B: "B" PORT W: "A"&"B" PORT	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA)
MPDC: Decompression type	ZL: Zero-Leakage Type			

※DIMENSIONS



UNIT: M.M.(INCH)

Item No.	Part No.	Quantity(PCs)	
		(A/B)	(W)
1	IR00022	1	2
2	OR00006	2	2
3	S000005	2	2
4	IR00025	1	2
5	IR00023	1	2
6	SP00060	1	1
7	FB00004	1	1
8	OR00004	4	4
9	IR00024	1	0



SOLTECH

MODULAR(STACK) CONTROLS

(ZERO-LEAKAGE) PILOT OPERATED CHECK MODULAR VALVES

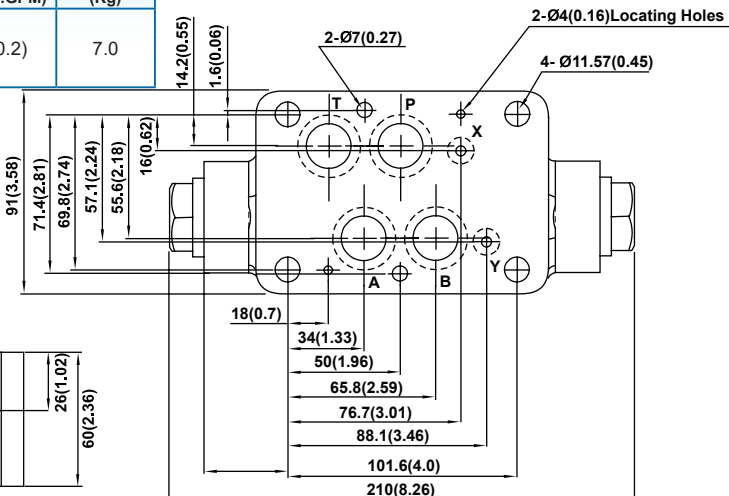
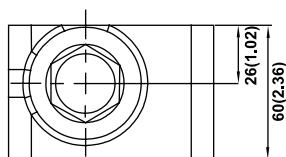
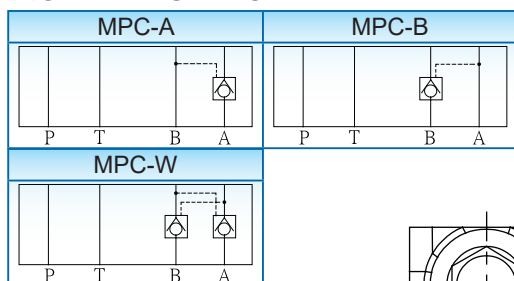
【MPC-04】

ISO 4401-AD-07-4-A, CETOP 07, NG16, NFPA-D07

※SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(PSI)	PILOT RATIO	MAX. FLOW ℓ/min(U.S.GPM)	WEIGHT (Kg)
MPC-(ZL)-04-A	250(3625)	5.2:1	190(50.2)	7.0
MPC-(ZL)-04-B				
MPC-(ZL)-04-W				

※GRAPHIC SYMBOL



※MODEL NUMBER DESIGNATION

MPC-	(ZL)-	04-	W-	(90)
SERIES NO.	OMIT: Standard Type ZL: Zero-Leakage Type	VALVE SIZE 04: NG16	FUNCTION PORT A: "A" PORT B: "B" PORT W: "A&B" PORT	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA STD.)

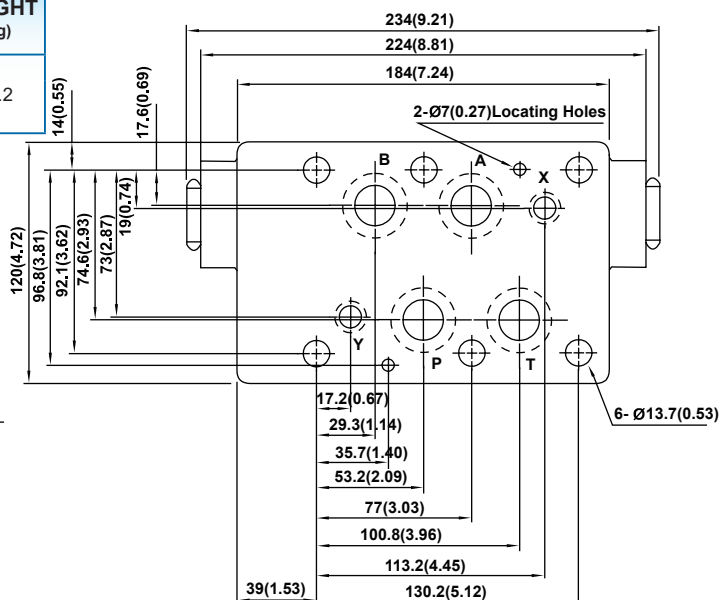
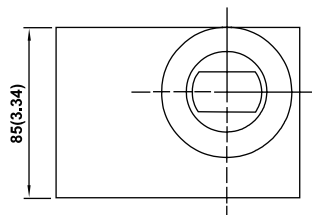
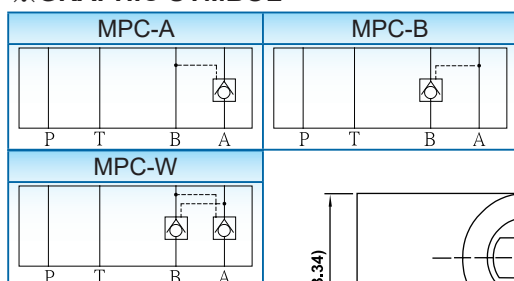
【MPC-06】

ISO 4401-AE-08-4-A, CETOP 08, NG25, NFPA-D08

※SPECIFICATION

MODEL	MAX. OPER. PRES. Bar(PSI)	PILOT RATIO	MAX. FLOW ℓ/min(U.S.GPM)	WEIGHT (Kg)
MPC-(ZL)-06-A	250(3625)	49.5:1	300(79.3)	11.2
MPC-(ZL)-06-B				
MPC-(ZL)-06-W				

※GRAPHIC SYMBOL



※MODEL NUMBER DESIGNATION

MPC-	(ZL)-	06-	W-	(90)
SERIES NO.	OMIT: Standard Type ZL: Zero-Leakage Type	VALVE SIZE 06: NG25	FUNCTION PORT A: "A" PORT B: "B" PORT W: "A&B" PORT	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA STD.)

UNIT: M.M.(INCH)



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MODULAR(STACK) CONTROLS

HYDRAULIC COVER PLATE

B

【MDC-02】

ISO 4401-AB-03-4-A, CETOP 03, NG6, NFPA-D03

※MODEL NUMBER DESIGNATION

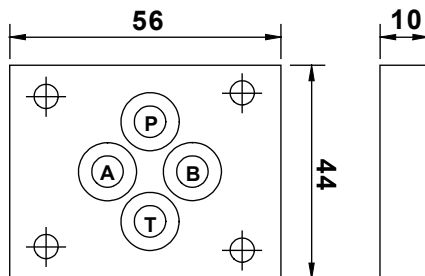
MDC-	02-	PT
SERIES NO.	SIZE 02: NG6	COMMUNICATION OF PORTS OMIT: ALL BLOCK PT: P TO T PA: P TO A PB: P TO B PABT: P TO A, B TO T

※GRAPHIC SYMBOL

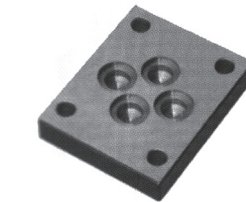
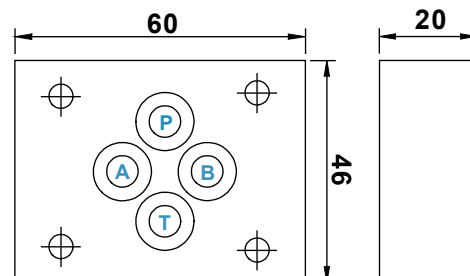
MDC	MDC-PT	
MDC-PA	MDC-PB	MDC-PABT

※DIMENSIONS

MDC-02-OMIT



MDC-02-(※)



※MODEL NUMBER DESIGNATION

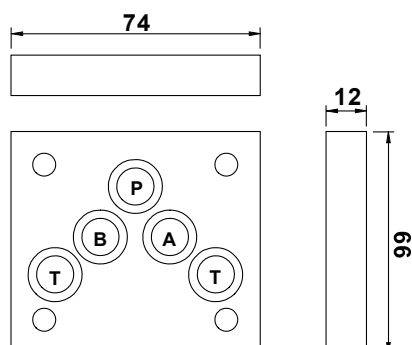
MDC-	03-	PT
SERIES NO.	SIZE 03: NG10	COMMUNICATION OF PORTS OMIT: ALL BLOCK PT: P TO T PA: P TO A PB: P TO B PABT: P TO A, B TO T

※GRAPHIC SYMBOL

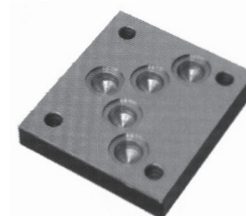
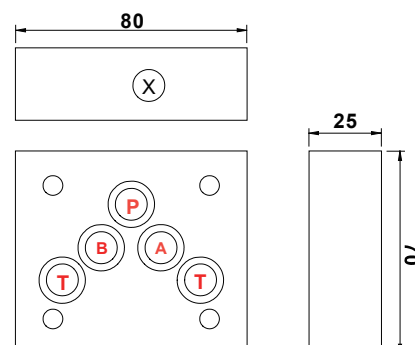
MDC	MDC-PT	
MDC-PA	MDC-PB	MDC-PABT

※DIMENSIONS

MDC-03-OMIT



MDC-03-(※)



UNIT: M.M.



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MODULAR(STACK) CONTROLS

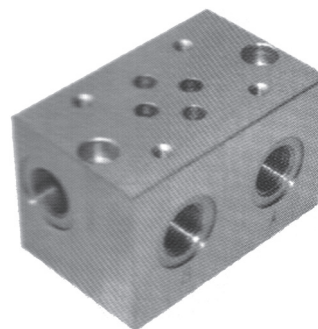
STANDARD MANIFOLD

【MMC-02】

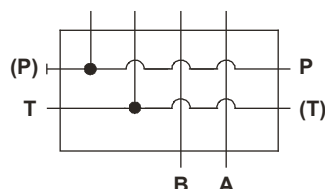
ISO 4401-AB-03-4-A, CETOP 03, NG6, NFPA-D03

※MODEL NUMBER DESIGNATION

MMC-	02-	01-	(90)
SERIES NO.	SIZE 02: NG6	NO. OF STATION 1, 2, 3, 4, 5~10	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA STD.)

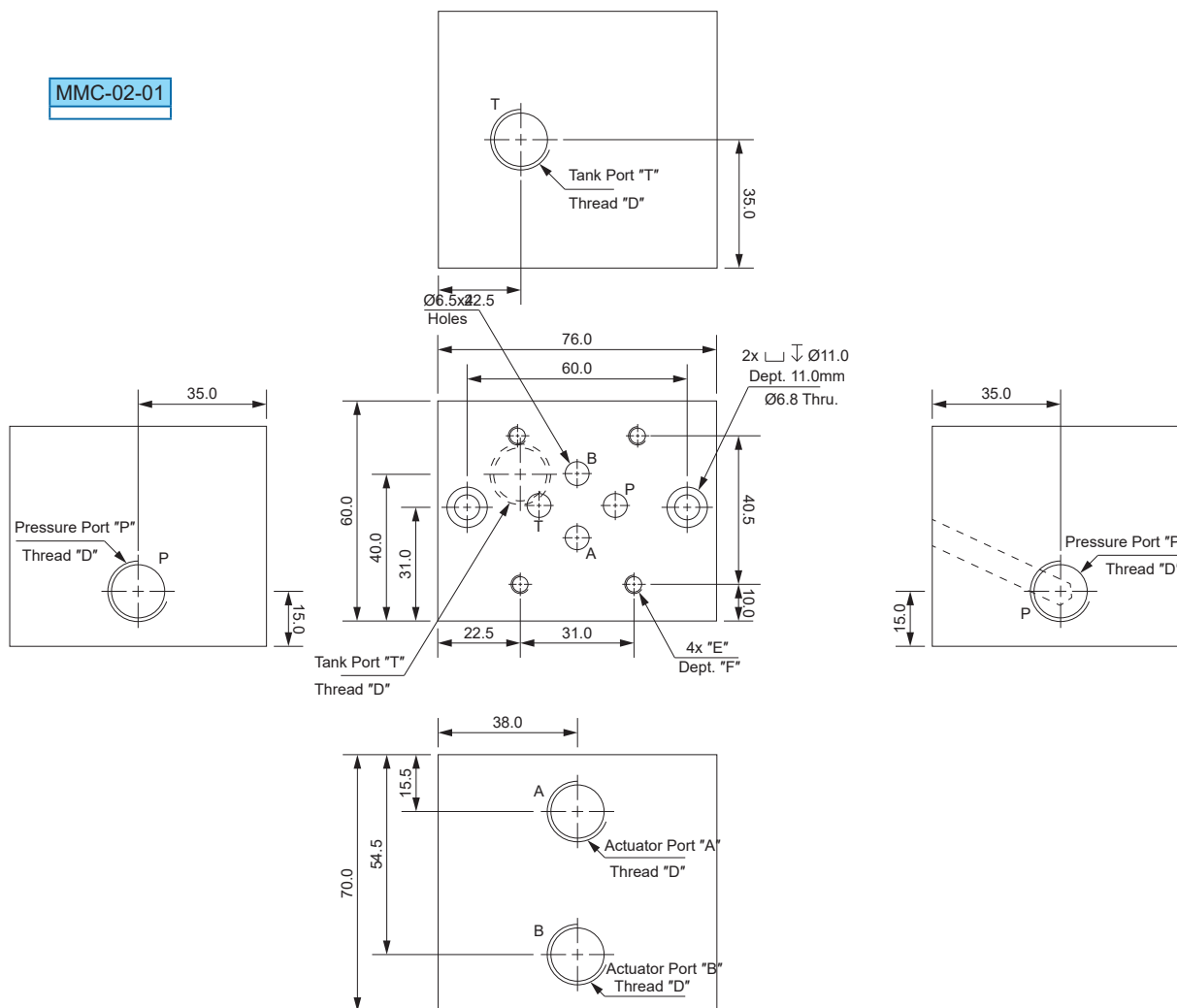


※GRAPHIC SYMBOL



※DIMENSIONS

MMC-02-01



Model	Thread "D"	"E"	Dimension "F"	Weight (Kg)
MMC-02-01	Rc 3/8"	M5	10	2.25
MMC-02-01-90	3/8" NPT	No. 10-24 UNC	12	

UNIT: M.M.



SOLTECH

MODULAR(STACK) CONTROLS

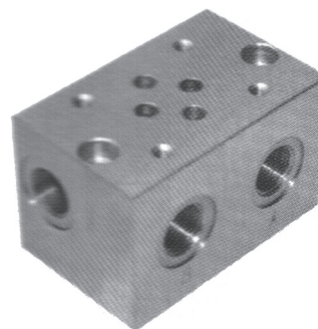
STANDARD MANIFOLD

【MMC-02】

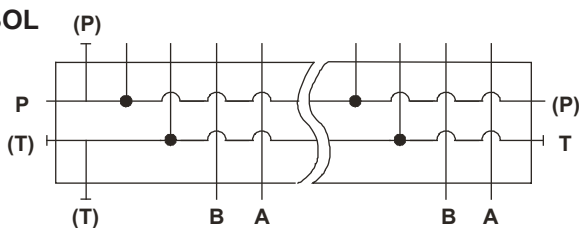
ISO 4401-AB-03-4-A, CETOP 03, NG6, NFPA-D03

※MODEL NUMBER DESIGNATION

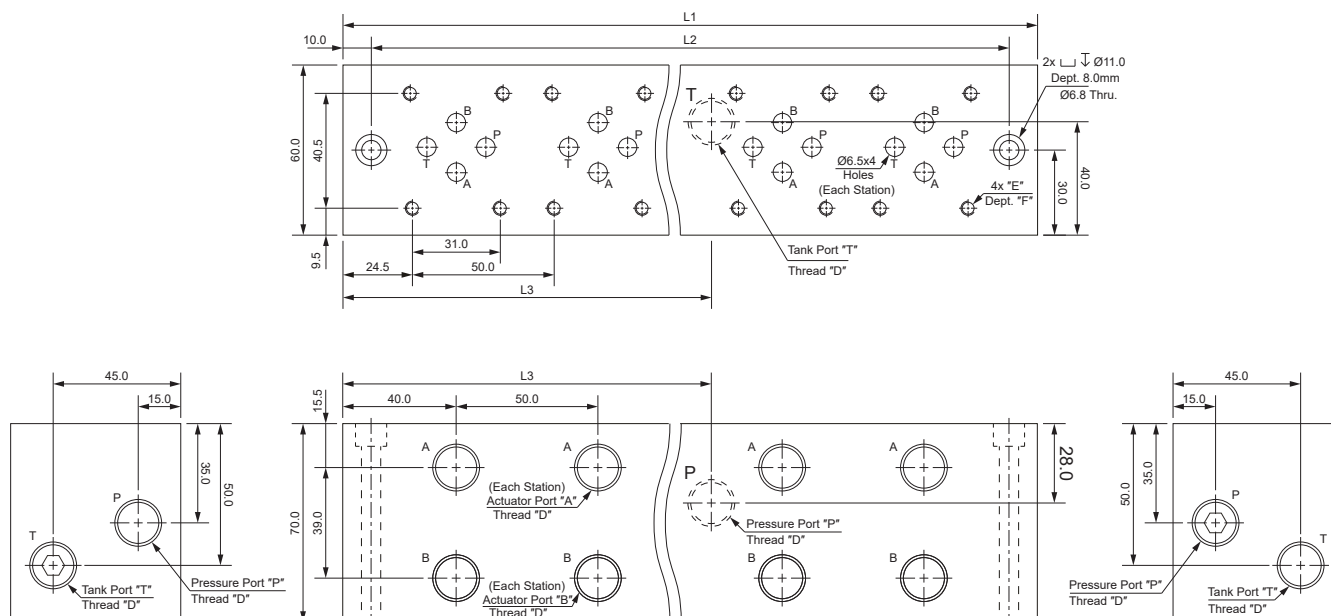
MMC-	02-	01-	(90)
SERIES NO.	SIZE 02: NG6	NO. OF STATION 1, 2, 3, 4, 5~10	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA STD.)



※GRAPHIC SYMBOL



※DIMENSIONS



UNIT: M.M.

Model		Piping size	"E" Thd.	Dimensions (mm)	Lengths			Weight (kg)
		"D" Thd.		F	L1	L2	L3	
MMC-02-02	10	Rc 3/8	M5	10	130	110	65	3.6
	90	3/8 NPT	No. 10-24 UNC	12				
MMC-02-03	10	Rc 3/8	M5	10	180	160	65	5.0
	90	3/8 NPT	No. 10-24 UNC	12				
MMC-02-04	10	Rc 3/8	M5	10	230	210	115	6.4
	90	3/8 NPT	No. 10-24 UNC	12				
MMC-02-05	10	Rc 3/8	M5	10	280	260	115	7.7
	90	3/8 NPT	No. 10-24 UNC	12				
MMC-02-06	10	Rc 3/8	M5	10	330	310	165	9.3
	90	3/8 NPT	No. 10-24 UNC	12				
MMC-02-07	10	Rc 3/8	M5	10	380	360	165	10.6
	90	3/8 NPT	No. 10-24 UNC	12				
MMC-02-08	10	Rc 3/8	M5	10	430	410	215	12.1
	90	3/8 NPT	No. 10-24 UNC	12				
MMC-02-09	10	Rc 3/8	M5	10	480	460	215	13.5
	90	3/8 NPT	No. 10-24 UNC	12				
MMC-02-10	10	Rc 3/8	M5	10	530	510	265	14.9
	90	3/8 NPT	No. 10-24 UNC	12				



SOLTECH

MODULAR(STACK) CONTROLS

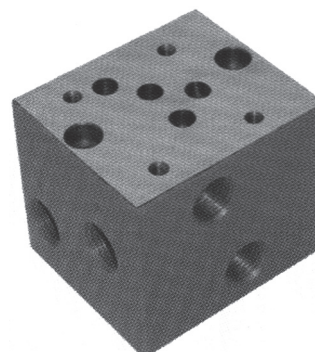
STANDARD MANIFOLD

【MMC-03】

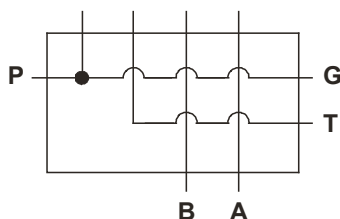
ISO 4401-AC-05-4-A, CETOP 05, NG10, NFPA-D05

※MODEL NUMBER DESIGNATION

MMC-	03-	01-	(90)
SERIES NO.	SIZE 03: NG6	NO. OF STATION 1, 2, 3, 4, 5~10	OMIT: DIN 912 BOLTS 90: UNC BOLTS (NORTH AMERICA STD.)

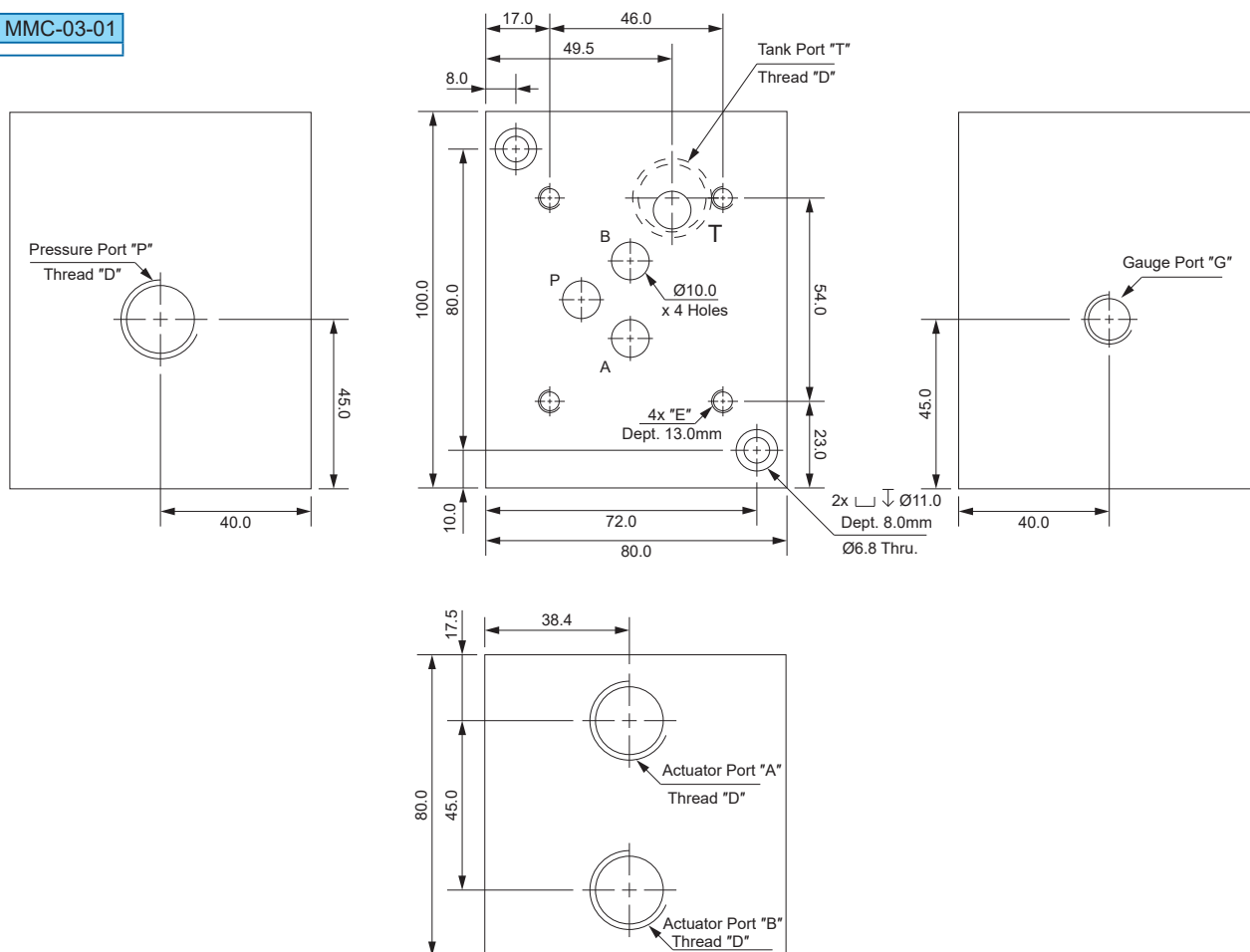


※GRAPHIC SYMBOL



※DIMENSIONS

MMC-03-01



Model	Thread	"E"	Dimension	Weight (Kg)
	"D"		"F"	
MMC-03-01	Rc 1/2"	M5	Rc 1/4"	3.3
MMC-03-01-90	1/2" NPT	No. 1/4-20 UNC	1/4" NPT	

UNIT: M.M.



SOLTECH

MODULAR(STACK) CONTROLS

STANDARD MANIFOLD

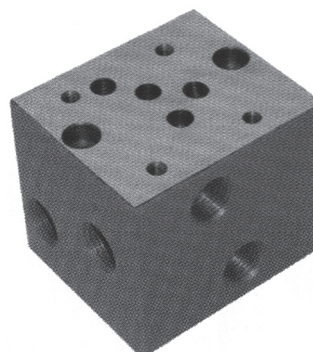
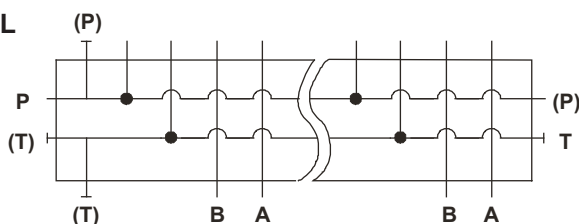
【MMC-03】

ISO 4401-AC-05-4-A, CETOP 05, NG10, NFPA-D05

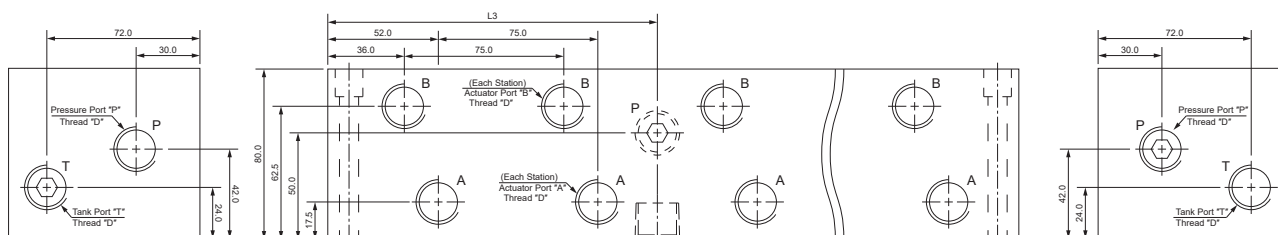
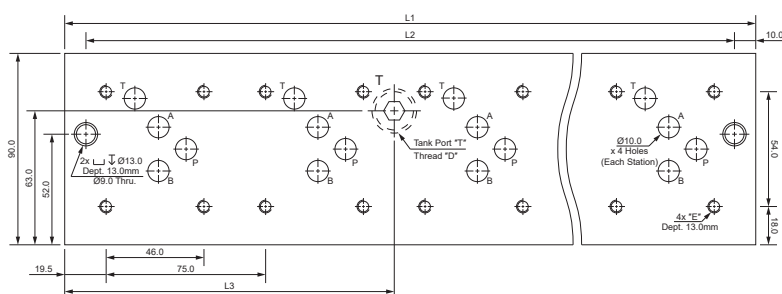
※MODEL NUMBER DESIGNATION

MMC-	03-	01-	10
SERIES NO.	SIZE 03: NG10	NO. OF STATION 1, 2, 3, 4, 5~10	10: DIN 912 BOLTS 90: UNC BOLTS

※GRAPHIC SYMBOL



※DIMENSIONS

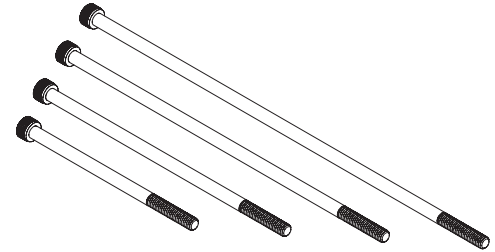


UNIT: M.M.

Model		Piping size "D" Thd.	"E" Thd.	Lengths			Weight (kg)
				L1	L2	L3	
MMC-03-02	10	Rc 1/2	M6	160	140	80	6.9
	90	1/2 NPT	1/4-20 UNC				
MMC-03-03	10	Rc 1/2	M6	235	215	80	10.2
	90	1/2 NPT	1/4-20 UNC				
MMC-03-04	10	Rc 1/2	M6	310	290	155	13.5
	90	1/2 NPT	1/4-20 UNC				
MMC-03-05	10	Rc 1/2	M6	385	365	155	16.7
	90	1/2 NPT	1/4-20 UNC				
MMC-03-06	10	Rc 1/2	M6	460	440	230	20.0
	90	1/2 NPT	1/4-20 UNC				
MMC-03-07	10	Rc 1/2	M6	535	515	230	23.3
	90	1/2 NPT	1/4-20 UNC				
MMC-03-08	10	Rc 1/2	M6	610	590	305	26.6
	90	1/2 NPT	1/4-20 UNC				
MMC-03-09	10	Rc 1/2	M6	685	665	305	29.5
	90	1/2 NPT	1/4-20 UNC				
MMC-03-10	10	Rc 1/2	M6	760	740	380	35.5
	90	1/2 NPT	1/4-20 UNC				

【MBK】

HEXAGON SOCKET HEAD CAP SCREW
(DIN 912/ ANSI-ASME B18.3)



B

※MODEL NUMBER DESIGNATION

MBK-	02-	2-	(90)
SERIES NO.	SIZE 02: CETOP 3, NG6 03: CETOP 5, NG10 04: CETOP 7, NG16 06: CETOP 8, NG25	NO. OF STATION 1, 2, 3, 4, 5	OMIT: DIN 912 BOLTS 90: UNC BOLT(NORTH AMERICA)

※SPECIFICATION

MODEL	MATERIAL	TENSILE STRENGTH	HARDNESS
MBK	SCM 435	180 KSi < 1/2" (1220n/mm ²)	HRC 39-45

※MOUNTING BOLTS

CODE	NO. OF VALVES	DIN BOLTS	UNC BOLTS	WEIGHT g(lbs)
MBK-02-01-※	1	M5×45Lg×4pcs	10-24UNC×1-3/4"Lg×4pcs	60(0.13)
MBK-02-02-※	2	M5×85Lg×4pcs	10-24UNC×3-3/8"Lg×4pcs	100(0.22)
MBK-02-03-※	3	M5×125Lg×4pcs	10-24UNC×5-"Lg×4pcs	130(0.29)
MBK-02-04-※	4	M5×165Lg×4pcs	10-24UNC×6-1/2"Lg×4pcs	160(0.35)
MBK-02-05-※	5	M5×205Lg×4pcs	10-24UNC×8"Lg×4pcs	190(0.42)
CODE	NO. OF VALVES	DIN BOLTS	UNC BOLTS	WEIGHT g(lbs)
MBK-03-01-※	1	M6×35Lg×4pcs	1/4-20UNC×1-1/2"Lg×4pcs	120(0.26)
MBK-03-02-※	2	M6×90Lg×4pcs	1/4-20UNC×3-1/2"Lg×4pcs	160(0.35)
MBK-03-03-※	3	M6×145Lg×4pcs	1/4-20UNC×5-3/4"Lg×4pcs	200(0.44)
MBK-03-04-※	4	M6×200Lg×4pcs	1/4-20UNC×8"Lg×4pcs	240(0.53)
MBK-03-05-※	5	M6×255Lg×4pcs	1/4-20UNC×10"Lg×4pcs	280(0.62)
CODE	NO. OF VALVES	DIN BOLTS	UNC BOLTS	WEIGHT g(lbs)
MBK-04-01-※	1	M6×45Lg×2pcs	1/4-20UNC×1-3/4"Lg×2pcs	---
		M10×50Lg×4pcs	3/8-16UNC×2"Lg×4pcs	---
MBK-04-02-※	2	M6×105Lg×2pcs	1/4-20UNC×4-1/8"Lg×2pcs	---
		M10×105Lg×4pcs	3/8-16UNC×4-1/8"Lg×4pcs	---
MBK-04-03-※	3	M6×165Lg×2pcs	---	---
		M10×165Lg×4pcs	---	---
MBK-04-04-※	4	M6×225Lg×2pcs	---	---
		M10×225Lg×4pcs	---	---
MBK-04-05-※	5	M6×285Lg×2pcs	---	---
		M10×285Lg×4pcs	---	---
CODE	NO. OF VALVES	DIN BOLTS	UNC BOLTS	WEIGHT g(lbs)
MBK-06-01-※	1	M12×45Lg×6pcs	1/2-13UNC×1-3/4"Lg×6pcs	---
MBK-06-02-※	2	M12×140Lg×6pcs	1/2-13UNC×5-1/2"Lg×6pcs	---
MBK-06-03-※	3	M12×225Lg×6pcs	---	---
MBK-06-04-※	4	M12×310Lg×6pcs	---	---
MBK-06-05-※	5	M12×395Lg×6pcs	---	---