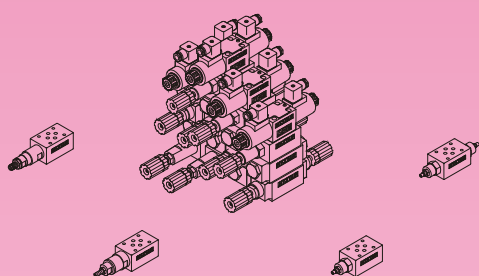
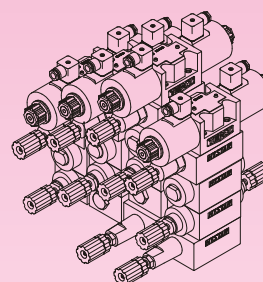
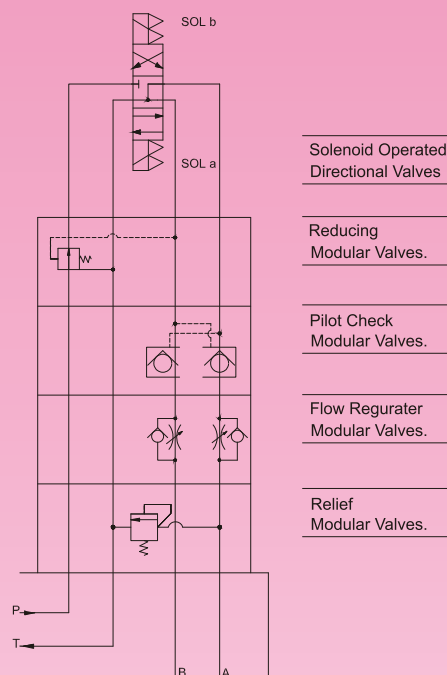


MODULAR VALVE SERIES



Model	Symbol	External View
DSG-3C*-N-01-*** Solenoid Operated Directional Valves		
MPW-01-* Pilot Operated Check Modular Valves		
MSW-01-* Throttle with Check Modular Valves		
MCP-01-* Check Modular Valves		
MBP-01-* Relief Modular Valves		
MMC-01 Base Plate		

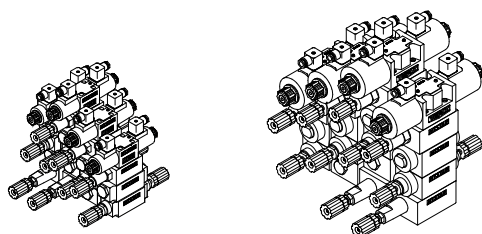


Type	External View	Model Number				Description				Page
		01 Series	03 Series	04 Series	06 Series	P	T	B	A	
Pressure Control Valve		MBP-01-*	MBP-03-*	MBP-04-*	MBP-06-*					319
		MBW-01-*	MBW-03-*	MBW-04-*	MBW-06-*					320
		MBA-01-*	MBA-03-*	MBA-04-*	MBA-06-*					321
		MBB-01-*	MBB-03-*	MBB-04-*	MBB-06-*					***
		MBR-01-*	MBR-03-*							***
		MRP-01-*	MRP-03-*	MRP-04-*	MRP-06-*					323
		MRA-01-*	MRA-03-*	MRA-04-*	MRA-06-*					324
		MRB-01-*	MRB-03-*	MRB-04-*	MRB-06-*					324



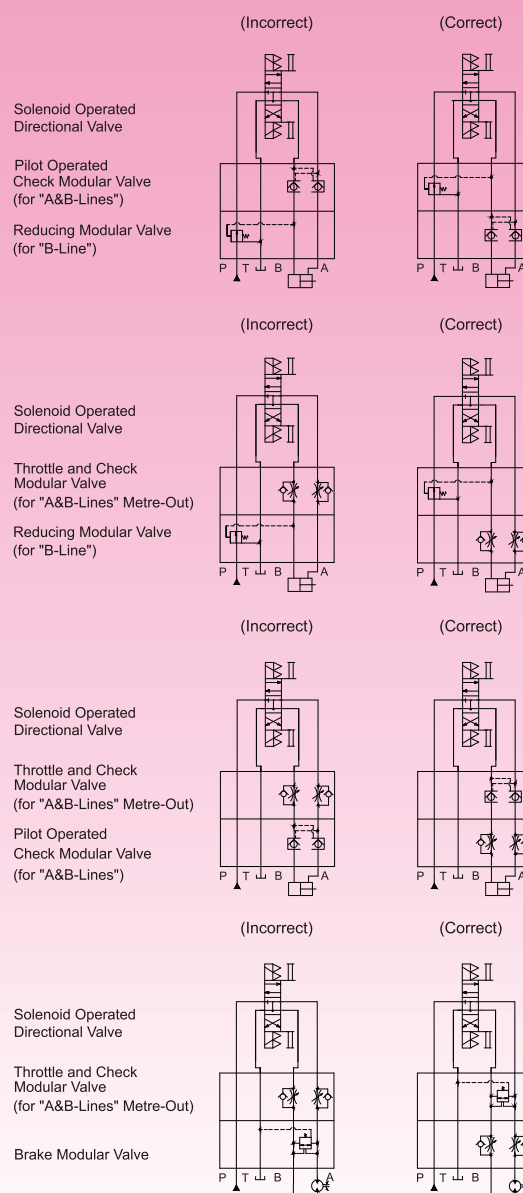
	Type	External View	Model Number				Description				Page
			01 Series	03 Series	04 Series	06 Series	P	T	B	A	
Pressure Control Valve	Sequence Valves		MHP-01-*	MHP-03-*	MHP-04-*	MHP-06-*					338
	Counter-balance Valves		MHA-01-*	MHA-03-*	MHA-04-*	MHA-06-*					339
			MHB-01-*	MHB-03-*	MHB-04-*	MHB-06-*					338
	Pressure Switches (Modular Type)		DNM(B)-01-P	DNM(B)-03-P							393
			DNM(B)-01-A	DNM(B)-03-A							393
			DNM(B)-01-B	DNM(B)-03-B							394
Flow Control Valve	Throttle Valves		MSP-01-*	MSP-03-*	MSP-04-*	MSP-06-*					325
	Throttle with Check Valves (Meter-Out)		MSW-01-X	MSW-03-X	MSW-04-X	MSW-06-X					329
			MSA-01-X	MSA-03-X	MSA-04-X	MSA-06-X					330
			MSB-01-X	MSB-03-X	MSB-04-X	MSB-06-X					330
			MSB-01-X	MSB-03-X	MSB-04-X	MSB-06-X					330
	Throttle with Check Valves (Meter-In)		MSW-01-Y	MSW-03-Y	MSW-04-Y	MSW-06-Y					329
			MSA-01-Y	MSA-03-Y	MSA-04-Y	MSA-06-Y					330
			MSB-01-Y	MSB-03-Y	MSB-04-Y	MSB-06-Y					330
			MSB-01-Y	MSB-03-Y	MSB-04-Y	MSB-06-Y					330
	Throttle Valves Pressure and Temperature Compensated		MSP-01-*	MSP-03-*	MFP-04-*	MFP-06-*					
	Throttle with Check Valves (Meter-Out) Pressure and Temperature Compensated		MFW-01-X	MFW-03-X	MFW-04-X	MFW-06-X					***
			MFA-01-X	MFA-03-X	MFA-04-X	MFA-06-X					***
			MFB-01-X	MFB-03-X	MFB-04-X	MFB-06-X					***
			MFB-01-X	MFB-03-X	MFB-04-X	MFB-06-X					***
	Throttle with Check Valves (Meter-In) Pressure and Temperature Compensated		MFW-01-Y	MFW-03-Y	MFW-04-Y	MFW-06-Y					***
			MFA-01-Y	MFA-03-Y	MFA-04-Y	MFA-06-Y					***
			MFB-01-Y	MFB-03-Y	MFB-04-Y	MFB-06-Y					***
			MFB-01-Y	MFB-03-Y	MFB-04-Y	MFB-06-Y					***
Directional Control Valve	Check Valve		MCP-01-*	MCP-03-*	MCP-04-*	MCP-06-*					332
			MCT-01-*	MCT-03-*	MCT-04-*	MCT-06-*					333
			MCA-01-*	MCA-03-*	MCA-04-*	MCA-06-*					333
			MCB-01-*	MCB-03-*	MCB-04-*	MCB-06-*					333
	Vacume Check Valve		MAC-01-*	MAC-03-*							***
			MPW-01-*	MPW-03-*	MPW-04-*	MPW-06-*					335
	Pilot Operated Check Valve		MPA-01-*	MPA-03-*	MPA-04-*	MPA-06-*					336
			MPB-01-*	MPB-03-*	MPB-04-*	MPB-06-*					337
	End Plates		MDC-01-A	MDC-03-A							***
MDC-01-B			MDC-03-B							***	

- The HYSTAR modular valves are available in size: 1/8" (01), 3/8" (03), 1/2" (04), 3/4" (06), all the mounting dimensions are based on ISO 4401 standard (Hydraulic fluid power four port directional control valves mounting surface). The types are available in pressure control valves, flow control valves, directional control valves, which are high pressure, large capacity to meet recent tendency-high pressure, high flow hydraulic circuits. Pressure up to (250 bar), flow up to 50lpm(size 01), 100lpm(size 03), 190lpm(size 04), 300lpm(size 06).
- Modular valves have been developed and designed to integrate the hydraulic circuit with hydraulic equipment. Any type of hydraulic circuit can be set up without piping simply by stacking modular valves one over another.
- The modular system has many features. For example, easy to install, easy alteration of hydraulic circuits reduces space, reduces cost, no vibration, no oil leakage, easy maintenance.....etc.
- HYSTAR'S M series relief modular valves (MB*-0*-*), throttle with check modular valves (MSP-0*-*), throttle with check modular valves (MS*-0*-*), reducing modular valves (MR*-0*-*), equipped with handknob (handle) are standard.
- **BASE PLATES. (MULTI-STATION MANIFOLDS)**
Standard subplates details please see Cata No. V2002 pages 33 and 34.
Other subplates include:
Single station manifolds: side ports, bottom ports, side & bottom ports.
- Multi-station manifolds. (1-10 stations)
Ports thread "PT", "NPT", "PF"etc.
Option materials of aluminium (6016-T6) or steel (ASTM A570-79) are available. Consult Hystar for further information.
- **MOUNTING BOLTS**
Hexagonal socket head cap screw (Metric fixing Bolts UNC)-2 stacks supplied at standard no extra cost.
M5 x 85(95)Lg, 4pcs for 1/8" (01) modular valves.
M6 x 90Lg, 4pcs for 3/8" (03) modular valves.
M10 x 120Lg, 4 pcs and M6 x 125Lg, 2 pcs for 1/2" (04) modular valves. modular valves.
M12 x 140Lg, 6pcs for 3/4" (06) modular valves.



- The modular circuit designing examples as following tables.

The left side is incorrect, and the right side is correct.



■ Mounting Surface

Series	CETOP	ISO	NFPA
01 Modules	CETOP 03	ISO Size 03	NFPA D03
03 Modules	CETOP 05	ISO Size 05	NFPA D05
04 Modules	CETOP 07	ISO Size 07	NFPA D07
06 Modules	CETOP 08	ISO Size 08	NFPA D08