V A L V E S

Mono-Block Directional Control Valves

FEATURES:

- 1-6 spool mono-block
- 3500 PSI rating
- #8 SAE O-ring in/out Ports
- #8 SAE O-ring work ports
- Interchangeable motor spool
- Load check
- Parallel cylinder spools
- Adjustable relief
- Enclosed handle design
- Open center – field convertible to power beyond & closed center included
- Low spool leakage (3 cc/min @ 1500 PSI)
- Hardened steel spools

MB Mono-Block Directional Control Valve Assemblies

VALVE MODEL NO.	NO. OF SPOOLS	SPOOL TYPE, ACTION	WEIGHT (POUNDS)	LIST PRICE
MB11B5C1	1	4 WAY 3 POSITION, SPRING CENTER TO NEUTRAL, ALL SPOOLS	6.9	208.00
MB11C5C1	1	4 WAY 3 POSITION MOTOR, 3 POSITION DETENT, ALL SPOOLS	7.2	255.00
†MB11G5C1	1	4 WAY 4 POSITION FLOAT, SPRING CENTER W/FLOAT DETENT	7.2	Call
MB21BB5C1	2	4 WAY 3 POSITION, SPRING CENTER TO NEUTRAL, ALL SPOOLS	9.7	319.00
MB21GB5C1	2	4 WAY 4 POSITION FLOAT, SPRING CENTER W/FLOAT DETENT, 1ST SPOOL 4 WAY 3 POSITION, SPRING CENTER TO NEUTRAL, 2ND SPOOL	10.2	448.00
MB31BBB5C1	3	4 WAY 3 POSITION, SPRING CENTER TO NEUTRAL, ALL SPOOLS	12.8	518.00
MB41BBBB5C1	4	4 WAY 3 POSITION, SPRING CENTER TO NEUTRAL, ALL SPOOLS	16.1	582.00
MB51BBBBB5C1	5	4 WAY 3 POSITION, SPRING CENTER TO NEUTRAL, ALL SPOOLS	19.2	711.00
MB61BBBBBB5C1	6	4 WAY 3 POSITION, SPRING CENTER TO NEUTRAL, ALL SPOOLS	22.2	842.00

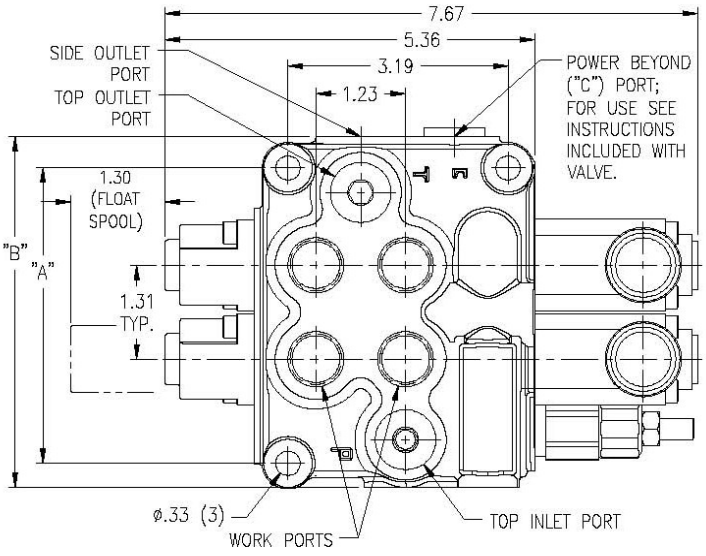
MB Mono-Block Directional Control Valve Parts

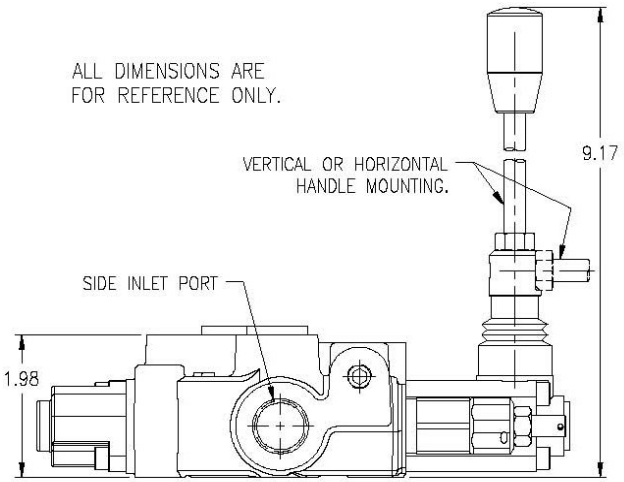
PART NO.	DESCRIPTION	LIST PRICE
612000001	3 WAY TANDEM SPOOL (single acting)	86.00
612100001	MOTOR SPOOL	86.00
660170055	HANDLE WITH KNOB	34.00
660170056	GLASS FILLED NYLON ENCLOSED HANDLE HOUSING	48.00
660170057	SPRING CENTER KIT	34.00
660170058	THREE POSITION DETENT KIT	80.00
660170060	ALUMINUM ENCLOSED HANDLE HOUSING	54.00
660170061	JOYSTICK KIT (field installable)	188.00
660270005	RELIEF VALVE (2000-3500)	94.00
660270006	NO RELIEF PLUG	Call
660570003	SEAL KIT	80.00
670300133	580 – 1160 PSI RELIEF SPRINGS	44.00
670300134	913 – 2900 PSI RELIEF SPRINGS	Call
671400306	ALUMINUM END CAP WITH SCREWS	34.00
671400307	GLASS FILLED NYLON END CAP WITH SCREWS	22.00
671900122	POWER BEYOND PLUG / CLOSED CENTER PLUG	20.00

† NON-STOCKED ITEMS AVAILABLE AT STANDARD LEAD-TIME.
CHECK OUR PRINCE WEBSITE OR CONTACT YOUR SALES REP TO VERIFY IF NON-STOCKED ITEMS ARE STILL ON HAND FOR IMMEDIATE SHIPMENT.

MB Specifications and Dimensional Data

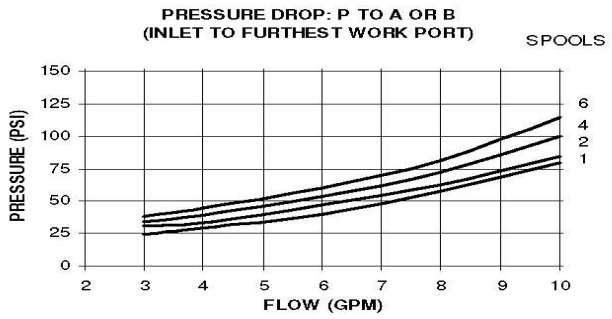
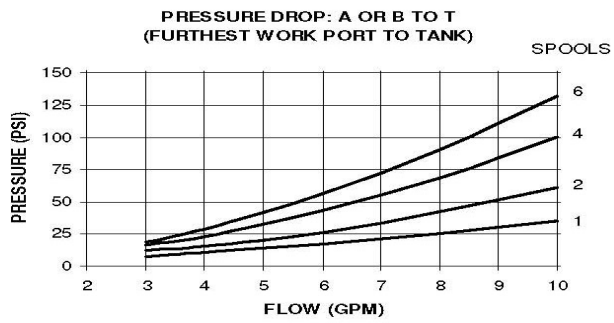
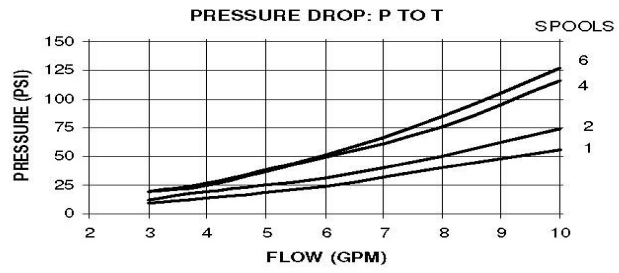
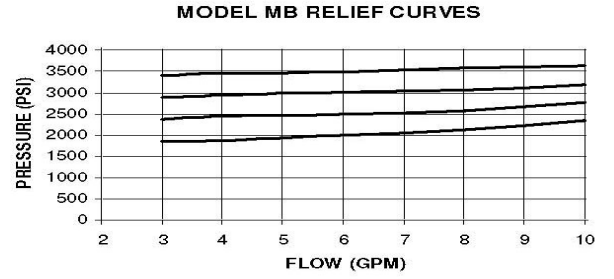
MAXIMUM OPERATING PRESSURE	3500 PSI	STRAIGHT HANDLE LENGTH: 5.8 INCHES	
MAXIMUM POWER BEYOND PRESSURE	3000 PSI	FILTRATION RECOMMENDATIONS: ISO 4406 19 / 17 / 14	
MAXIMUM TANK PRESSURE	500 PSI	SPOOL SEALS IN INTERNAL O-RING GROOVES	
NOMINAL FLOW RATING	8 GPM	HIGH PRESSURE ADJUSTABLE RELIEF ADJUSTMENT RANGE 2000-3500 PSI (PRESET TO 2500 PSI @ 6 GPM)	
MAXIMUM OPERATING TEMPERATURE	180° F		





INLET AND OUTLET PORTS: #8 SAE/ORB (3/4-16UNF-2B)
ALL WORK PORTS: #8 SAE/ORB (3/4-16UNF-2B)
POWER BEYOND PORT: #8 SAE/ORB (3/4-16UNF-2B)

NUMBER OF SPOOLS:

	1	2	3	4	5	6
"A"	2.87	4.33	5.79	7.24	8.70	10.16
"B"	3.78	5.16	6.62	8.07	9.53	10.99

Performance Curves