

Sectional Directional Control Valve

MCD 6



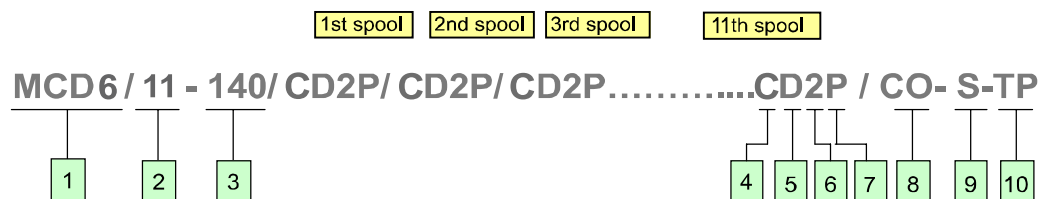
Features

MCD6 is a manual sectional directional control valves, capable of working with 75 liters / min at 210 bar at operating pressure. This MCD6 is highly flexible and easily adaptable to most application. A wide range of options is available to cater widest range of application.



Specification

Nominal flow	75 L/min	(20 gpm)
Max. pressure	210 bar	(3000 psi)
Maximum outlet port/tank core (return) pressure.	35 bar	(500 psi)



1 Model
MCD6

2 Number of Spool
1 - 11

3 Relief Valve Setting (Inlet cover)
210 bar
140 bar

4 Spool Control B Port Side
C - Cable connector (Standard)
L - Lever

5 Spool Control A Port Side
S - Spring return to center
D - Detent in three positions

6 Spool Type
(Type.1) 1 - Double acting, 3 position with A and B closed in center (Cylinder spool)
(Type.2) 2 - Double acting, 3 position with A and B to tank in center (Motoring spool)
(Type.3) 3 - Single acting on A, 3 position B plugged
(Type.4) 4 - Single acting on B, 3 position A plugged

7 Service Valve (Intermediate section)
N - Without valve
P - Without valve, but with pre-arranged holes
A - With Anti-cavitation valves on port A and B
W - With Work port relief valves on port A and B
AW - With Anti-cavitation valve on port A and with Work port relief valve on port B
WA - With Anti-cavitation valve on port B and with Work port relief valve on port A

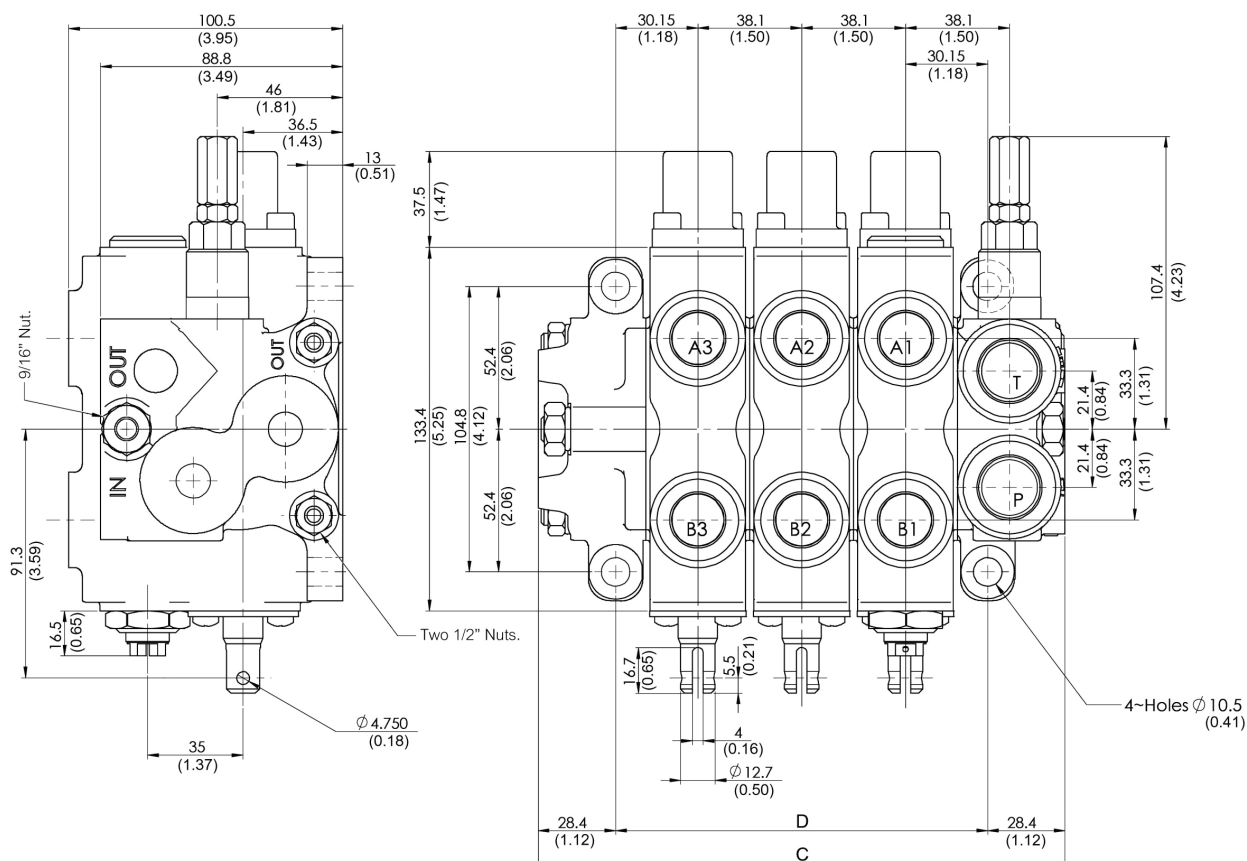
8 Circuit Option
OC - Open Center Cover
CO - Carry Over Cover
CC - Closed Center Cover

9 Port Connection

Code	Thread	Port A-B	Port P	Port T	Port CO
B	BSP	3/8"	1/2"	1/2"	1/2"
S	SAE	SAE 8	SAE 10	SAE 10	SAE 10

10 Optional Port Connection
TP - Use port P and T on top without port P and T at side
SP - Use port P and T at side plugged P and T on top
(For SP available upon request)

MCD 6

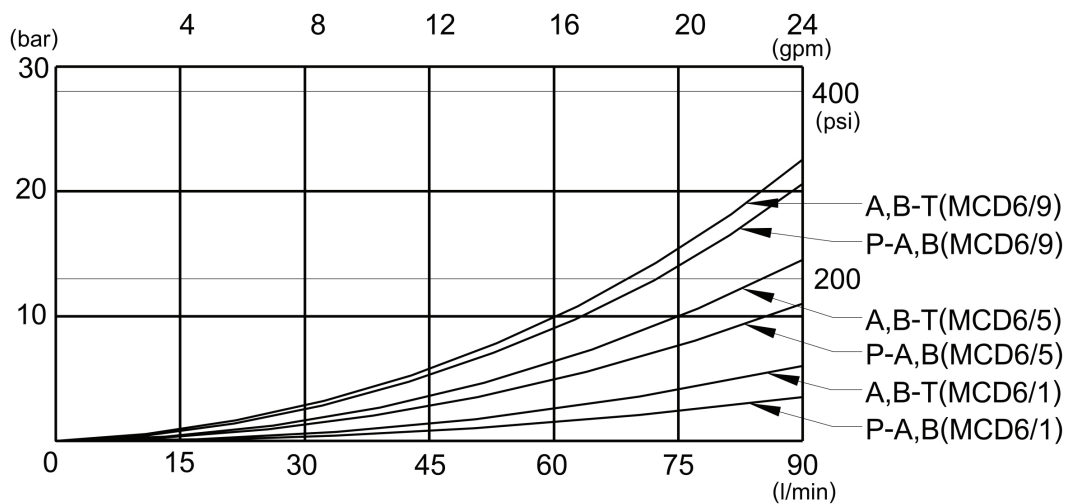
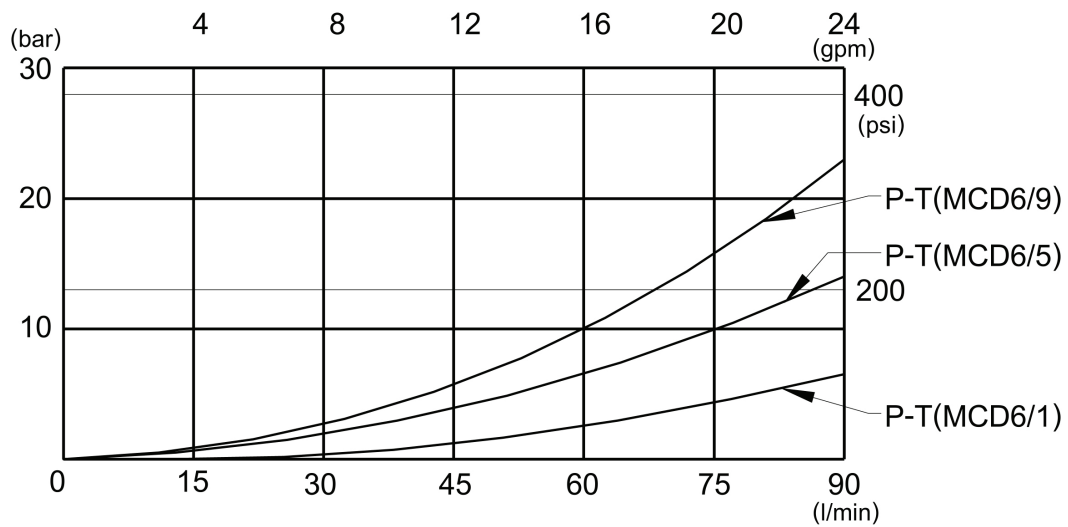


Type	C		D		Weight	
	mm	inch	mm	inch	kg	lb
MCD 6/1	117.1	4.61	60.3	2.37	5.8	12.79
MCD 6/2	155.2	6.11	98.4	3.87	8.65	19.07
MCD 6/3	193.3	7.61	136.5	5.37	11.5	25.35
MCD 6/4	231.4	9.11	174.6	6.87	14.35	31.64
MCD 6/5	269.5	10.61	212.7	8.37	17.2	37.92
MCD 6/6	307.6	12.11	250.8	9.87	20.05	44.20
MCD 6/7	345.7	13.61	288.9	11.37	22.9	50.49
MCD 6/8	383.8	15.11	327	12.87	25.75	56.77
MCD 6/9	421.9	16.61	365.1	14.37	28.6	63.05
MCD 6/10	460	18.11	403.2	15.87	31.45	69.33
MCD 6/11	498.1	19.61	441.3	17.37	34.3	75.62

Snug tie rod nuts to about 10 ft-lb.

Final torque the two 1/2" nuts to 12 ft-lb, final torque the 9/16" nut to 30 ft-lb.






Check for proper spool movement.

MCD 6**PRESSURE DROP**

Test Condition Hydraulic oil ISO VG 32 Temperature 50 °C Viscosity 23.6 cSt

Spools for Monoblock and Sectional Valves			
Type	Spools Description	Monoblock	Sectional
1	Double acting, 3 position with A and B closed in center (Cylinder spool)		
2	Double acting, 3 position with A and B to tank in center (Motor spool)		
3	Single acting on A, 3 position B plugged		
4	Single acting on B, 3 position A plugged		

Spool Control B Port side					
Code	Description	Scheme			
L	Standard Lever	<table><tr><td>1</td><td>0</td><td>2</td></tr></table>	1	0	2
1	0	2			

Spool Control A Port side					
Code	Description	Scheme			
S	Spring retrurn to center	 <table border="1" data-bbox="893 1171 1048 1209"><tr><td>1</td><td>0</td><td>2</td></tr></table> 	1	0	2
1	0	2			
D	Detent in three positions	 <table border="1" data-bbox="893 1227 1048 1265"><tr><td>1</td><td>0</td><td>2</td></tr></table>	1	0	2
1	0	2			
I	Detent in two positions	 <table border="1" data-bbox="893 1276 1023 1312"><tr><td>1</td><td>0</td></tr></table>	1	0	
1	0				
O	Detent out two positions	 <table border="1" data-bbox="893 1330 1023 1368"><tr><td>0</td><td>2</td></tr></table>	0	2	
0	2				