Sectional Directional Control Valve MCD10 Series

Features and Handling

MCD10 series is a manual sectional directional control valve with nominal flow of 80L/min and operating pressure at 350 bar.

It can be used as open centre, carry over or closed centre circuit with extended range of options to cater various usage:

- Work port relief valve
- Anti-cavitation valve
- Combinations of anti-cavitation valve & work port relief valve

Applications : wheel loader, combined harvester, sugarcane harvester, truck crane, sea platform crane, hydraulic press, drilling rigs, and etc.

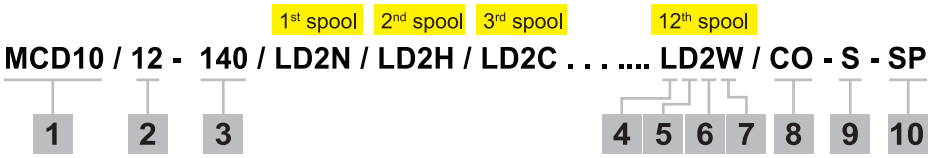


Specification

Model	Nominal Flow L/min (USgpm)	Maximum Pressure bar (psi)
MCD 10	80 (21)	350 (5100)

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Ordering Code



1. Model : MCD10

2. Number of Spool
   1 - 12

3. Relief Valve Setting
   210 bar
   140 bar

4. Spool Control B Port side
   L - Standard Lever

5. Spool Control A Port Side
   S - Spring return to center
   D - Detent in three positions
   I - Detent in two positions
   O - Detent out two 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
   N - Without pre-arranged holes and valve (Standard)
   H - Without valve, but with pre-arranged holes
   C - With anti-cavitation valves on port A and B
   W - With work port relief valves on port A and B
   CW - With anti-cavitation valves on port A and with work port relief valves on port B
   WC - With work port relief valves on port A and with anti-cavitation valves on port B
   ACBH - With anti-cavitation valves on port A
   BCAH - With anti-cavitation valves on port B
   AWBH - With work port relief valves on port A
   BWAH - With work port relief valves on port B

8. Circuit Option
   OC - With open center plug
   CO - With carry over plug
   CC - With closed center plug

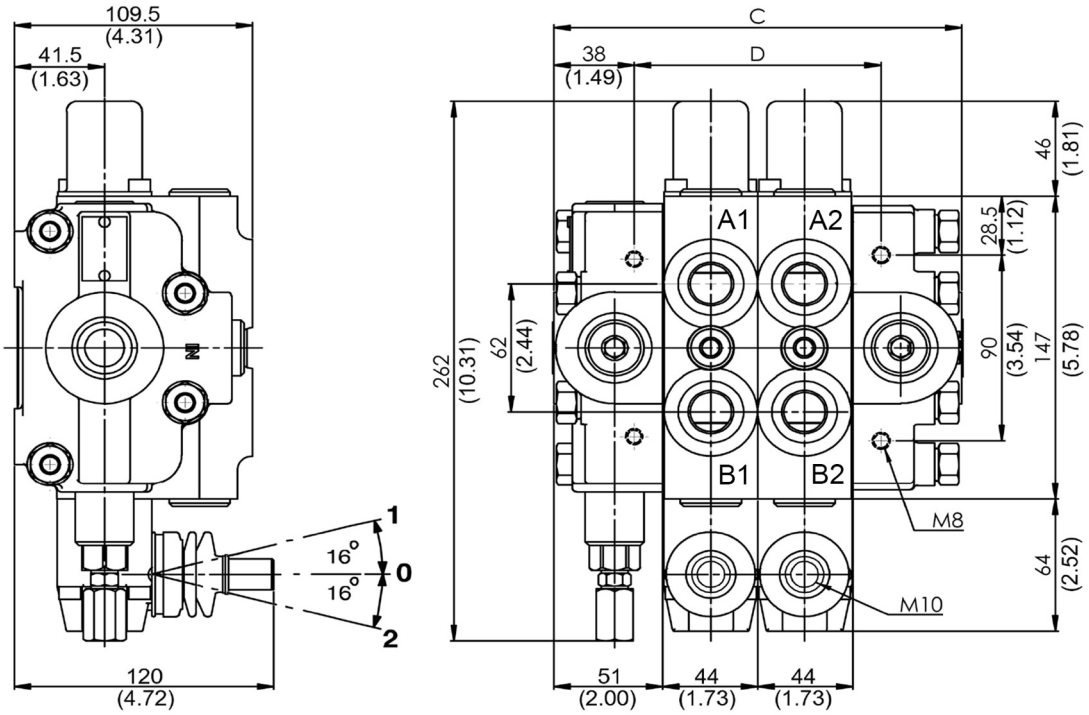
9. Port Connection

Code	Thread	Port A-B	Port P	Port T	Port CO
B4	BSP	1/2"	1/2"	3/4"	3/4"
B6	BSP	3/4"	3/4"	3/4"	3/4"
S	SAE	SAE 8	SAE 10	SAE 10	SAE 10

10. Optional Port Connection
    SP - Use port P and T at side pluged P and T on top (standard)
    TP - Use port P and T on top plug P and T at side

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Installation Dimension mm (inch)



Model	Dimension mm (inch)		Weight
	C	D	kg (lb)
MCD 10/1	144 (5.67)	70 (2.76)	10.2 (22.4)
MCD 10/2	188 (7.40)	114 (4.49)	14.9 (32.8)
MCD 10/3	232 (9.13)	158 (6.22)	19.6 (43.1)
MCD 10/4	276 (10.87)	202 (7.95)	24.3 (53.5)
MCD 10/5	320 (12.60)	246 (9.69)	29.0 (63.8)
MCD 10/6	364 (14.33)	290 (11.42)	33.7 (74.1)
MCD 10/7	408 (16.06)	334 (13.15)	38.4 (84.5)
MCD 10/8	452(17.80)	378 (14.88)	43.1 (94.8)
MCD 10/9	496 (19.53)	422 (16.61)	47.8 (105.2)
MCD 10/10	540 (21.26)	466 (18.35)	52.5 (115.5)
MCD 10/11	584 (23.00)	510 (20.07)	57.2 (126.1)
MCD 10/12	628 (24.70)	554 (21.81)	61.9 (136.4)

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Performance Characteristics

Pressure Drop

