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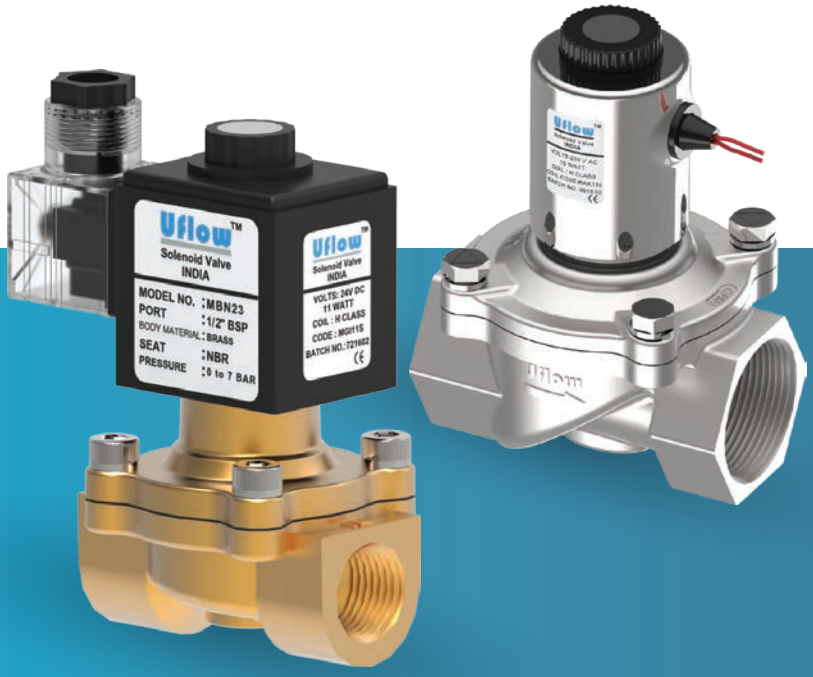


SEMI LIFT DIAPHRAGM OPERATED SOLENOID VALVE

(Normally Close / Open)

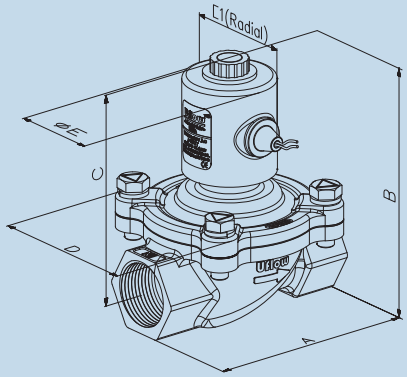


Diagram No. 12.1

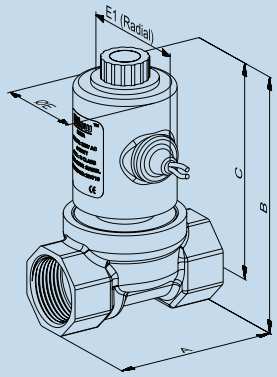
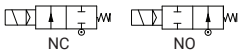


Diagram No. 12.2



SPECIFICATIONS

Port :	Refer below technical data sheet (Available BSP / NPT)
End Connection :	Screwed / Flange
Body Material :	SS ASTM A351 Grade CF8 / CF8M, Forged Brass
Diapharagm :	Nitrile (NBR) / EPDM / Viton (FKM) / PTFE
Media Temp :	-30° C to 90° C / -10° C to 140° C / -10° C to 180° C / -10° C to 180° C
Circumstance Temp :	-10° C to 70° C
Media :	Air, Water, Chemical, Gas, Oil, Steam, LPG.
Main Features :	Internal Parts are in superior corrosion resistance steel, (Equivalent to SS316L) Suitable for Food Industries, Pharmaceuticals, Chemical application & Highly corrosive environment.
Operating Voltage :	24AC / 110AC / 230AC / 12DC / 24DC
Power Consumption :	7W / 8W / 8W / 17W / 10W / 11W
Coil Features :	High Reliability Unaffected by Voltage Surges. Easy coil changes coil lockable in 4X90 position or freely movable in between as require.
Coil Housing :	Epoxy square coil, Metallic round enclosure, IP-67 Flameproof enclosure, IP-68 Weatherproof enclosure.
Optional Feature :	90% Power saver series also available, Water hammering reducer also available to avoid water hammer forces. ☑ Special high flow rate series available on request at low pressure or gravity pressure application.
Other Specification Data :	Available on Request.

NOTE: Use of filter in the inlet port is recommended.
Preferably Over Horizontal Pipeline with the coil upright.

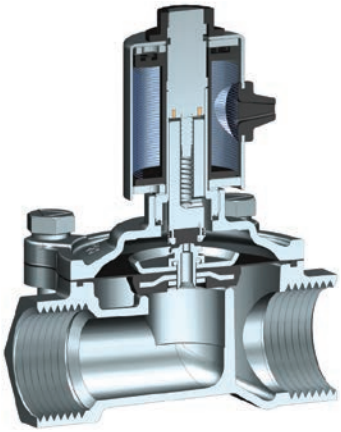
CAUTION: AC coil should not be used on a DC coil valve and vice versa.
For DC coil max operating pressure may reduce by 1 Kg/cm²

DIMENSION (NC)

All dimensions are in mm

Model No.	Port Size	Diagram No.	A	B	C	D	E	E1
MBN73	⅜"	12.1	57	106	93	46	38	48.50
MBN23	½"	12.1	57	106	93	46	38	48.50
MBN24	½"	12.2	54	91	78	-	38	48.50
MCN23	½"	12.1	69	108	93	56	38	48.50
MCN33	¾"	12.1	76	114	98	62	38	48.50
MCN34	¾"	12.2	65	101	85.3	-	38	48.50
MCN43	1"	12.1	100	121	106	76	38	48.50
MCN6D3	1½"	12.1	108	154	124	89	50	62
MCN8D3	2"	12.1	137	171	137	120	50	62

In normally open valve dimension B&C will increase up to 8mm.



SECTION VIEW

TECHNICAL DATA

Model No.	Body Material	Pipe (Inch)	Orifice (mm)	Min. Operating Pressure Kg/cm²	Max. Operating Pressure Kg/cm²		Seal & Diaphragm Material	Flow Factor Kv m³ / hr
					AC	DC		
MBN73	Brass	⅜"	15.50	0	7	7	NBR / EPDM / VITON	2.50
MBN23	Brass	½"	15.50	0	7	7	NBR / EPDM / VITON	3.10
MBN24	Brass	½"	12	0	10	10	NBR / EPDM / VITON	2.10
MCN24	CF8 / CF8M	½"	17	0	10	8	NBR / EPDM / VITON / PTFE	3.20
MCN34	CF8 / CF8M	¾"	20	0	10	8	NBR / EPDM / VITON	5
MCN44	CF8 / CF8M	1"	25.50	0	10	8	NBR / EPDM / VITON / PTFE	8.20
MCN6D3	CF8 / CF8M	1½"	35	0	4	4	NBR / EPDM / VITON	18.20
MCN8D3	CF8 / CF8M	2"	46.50	0	4	4	NBR / EPDM / VITON	31.40

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