

SERIES 16 : POPPET TYPE VALVES



These valves find application in adverse environments where there are considerable pollutants in the air like cement plants, etc. The reason being its property of working without lubrication hence no clogging of valves passage and wear of seals. The preference of this valve to the spool valve lies in the response time of the poppet valve which is ten percent less than the conventional spool valve thereby leading to more number of strokes per minute.

Selection of Poppet valve is based on the following criteria:

1. Forward Operating Mechanism of Poppet
2. Return operating mechanism of Poppet (Spring Return)
3. Number of ports
4. Number of positions (Available in two position)
5. Port size (Available in 1/4" / 3/8" / 1/2" / 3/4" B.S.P.)

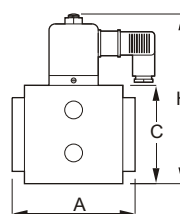
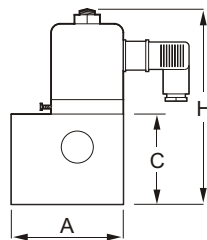
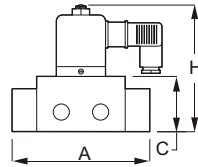
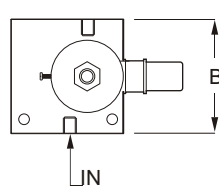
1. Forward Operating Mechanism of Poppet:

ACTUATION	TYPES
SOLENOID COIL	6 TO 220 V.D.C / 6 TO 440 V.A.C.

3. Number of Ports

NO. OF PORTS	TYPES	PP: Pressure port (Pressure line in)	MEDIA
2 PORTS	1 PP / 1 OP	OP : OUTLET PORT	AIR / GAS / FLUID
3 PORTS	1 PP / 1 CP / 1 EP	EP : EXHAUST PORT	AIR
4 PORTS	1 PP / 1 EP / 2 CP	CP : CYLINDER PORT	AIR

SINGLE SOLENOID OPERATED POPPET VALVE



TYPE	SIZE	A	B	C	H
1) 2/2	1/4"	54	50	50	120
	3/8"	62	63	50	120
	1/2"	62	63	50	120
2) 3/2	1/4"	77	50	37	110
	3/8"	112	73	45	112
	1/2"	112	73	45	112
4) 4/2	1/4"	70	48	65	135
	3/8"	100	75	80	150
	1/2"	100	75	80	150

2 Port single Solenoid type

3 Port single solenoid type

4 port single solenoid type



Note : The operation of the 3/2 Poppet valve is same as what has been illustrated in spool valves except that the spool is replaced by the poppet and is used to operate a single acting cylinder. The 4/2 has a common exhaust port through which both the cylinder ports exhaust into and is used to operate a double acting cylinder. The 2/2 Poppet valve is used for On/Off operation depending upon the normal position of the valve.