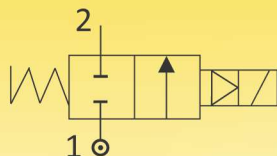


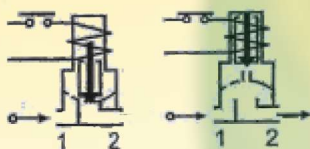
SOLENOID VALVES FOR AUTOMATION

2/2 WAY – NORMALLY CLOSED – SEMI LIFT TYPE, WITHOUT MANUAL OVERRIDE

SERIES 123B



N.C.
Normally Closed
Coil energised - Open
Coil de-energised - Closed



NOTE: For your requirement of valves with Flameproof Enclosure, please refer to catalogue no. 9230D.

General Description:

Series 123B Solenoid Valves are Semi-Lift Valves and do not need minimum pressure differential for closing; however for opening and getting flow min. 30mbar pressure is required. Valves are Normally Closed, suitable for general application with media such as Air, Water, Inert Gas, Light Oil (2°E), provided fluids are compatible with construction material of the valve.

Max. Temperature Range:

For media- Min(-)5°C & Max. with : Buna Nitrile Diaphragm: 80°C and with Viton diaphragm upto 120°C .
Max. Ambient Temp with Class 'H' Coil (+)42°C.

Application:

Series 123B Solenoid Valves are ideally suitable for automatic control of media of wide range, requires very low differential pressure. These valves can be supplied with Viton parts, suitable for vacuum application upto 10⁻³ Torr. Valves can be used on gas with working pressure above 200mbar.

Coils:

Series 123B Solenoid Valves are available in Class 'H' insulated (180°C) coils. Moulded in Thermo Plastic, containing 40% Glass fibre. All coils are for continuous service, 100% duty (E.D). Rated coil voltage tolerances for all AC Coils ±10%/-5% and for DC Supply Coils +10%/-5%. Coils are suitable for Connectors Form A (ISO4400) according to EN 175301-803 and protection class IP 65 as per IEC-60529-2001.

Installation:

The valves are essentially suitable for mounting in Horizontal pipeline with magnetic construction in vertical and upright position.
Series 123B Solenoid valves are not designed for Back Pressure coming from downstream side.

Approvals:

IP-65 As per IEC-60529-2001 . Coil M36-SQ & M38-SQ, 220/230V 50/60 Hz, 240V 50/60Hz, 110V 50/60 Hz & 24V DC.

Material:

Valve Body : Brass Stamping to IS-6912 (3/8" & 1/2"),
: ASTM A351 Gr.CF8 (SS304), Optional.: ASTM A351 Gr.CF8M.
Seals(Seating) : Buna Nitrile or Viton.
Tube Nut : AISI 316 St.St.
Plunger & Stopper : AISI 430FR St.St.
Spring : AISI302 St.St.
Shading Ring : For AC:Copper/Al/Silver, For DC:No Shading Ring.
Coil Type : AC – M36-SQ/GP/H, 240,110V 50Hz, Rating:18 VA, DC – M36-SQ/GP/H, 24V DC, Rating:12 Watt, AC-M40-SQ/GP/H Rating:30 VA, DC-M40-SQ/GP/H Rating:16 Watt.

NOTE

: Manual Override not available.

SPECIFICATIONS:

Series	Pipe Size	Orifice Size	Flow Factor Kv	Body Material		Seat		BTP	Working Pr.(bar)			Coil Type	Coil Rating		Constr. Ref.	Weight**
													VA	Watt		
123B	Inch	mm	M ³ /hr.	BR	CF8	BN	V	bar	min	max		M36-SQ	18	12	576	0.570
10*	3/8	15	2.6	BR	CF8	BN	V	16	0	6.0		M36-SQ	18	12	576	0.530
15*	1/2	15	2.6	BR	CF8	BN	V	16	0	6.0		M36-SQ	18	12	576	0.840
20	3/4	20	5.2	-	CF8	BN	V	16	0	6.0		M36-SQ	18	12	576	0.940
25	1	25	8.6	-	CF8	BN	V	16	0	6.0		M36-SQ	18	12	576	1.700
35	1 1/2	35	30	-	CF8	BN	V	16	0	6.0		M40-SQ	30	16	576	2.900
50	2	50	37.5	-	CF8	BN	V	16	0	6.0		M40-SQ	30	16	576	

**Weight of CF8 Body.

*Brass Body

NOTE: 1) Presently only upto 25 MM size available.

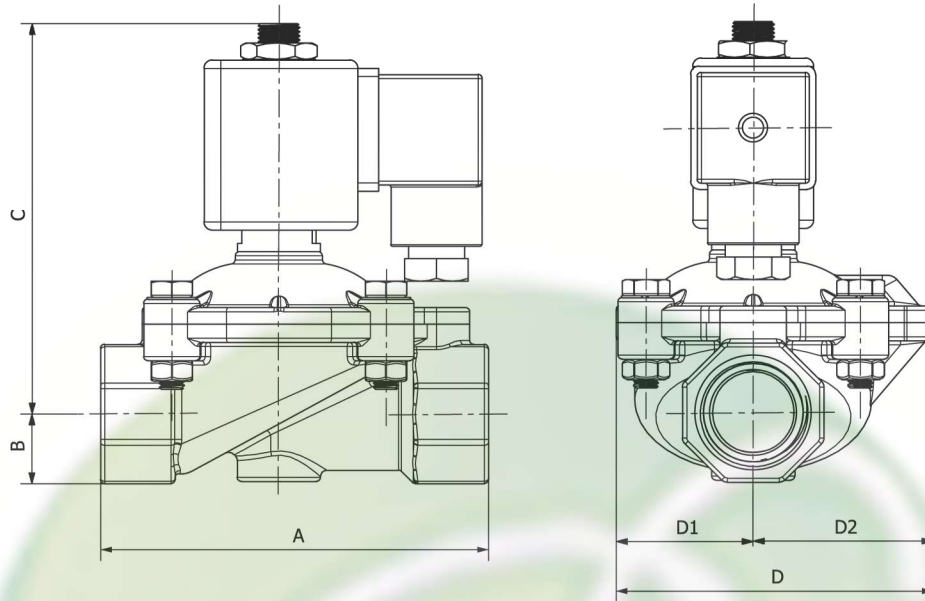
2) Valves suitable for AC and DC supply are different in characteristics and construction.

No Interchanging of coils between DC to AC or AC to DC possible. DO NOT INTERCHANGE COILS.

Minimum details required for submitting offer: Size, Body material, seating, medium name, Flow (M3/hr) pressure (bar), temp. Deg.C, coil voltage AC or DC.,Quantity (Nos), etc.



Construction Ref. No. 576



DIMENSION TABLE

CATALOGUE NO.	Size	A	B	C	D	D1	D2	APPROX WT.(kgs)
123B 15	½"(FG)	67	13	89	53	22	31	0.570
123B 15	½"(IC)	67	13	89	53	22	31	0.530
123B 20	¾"(IC)	94	17	95	76	33	43	0.840
123B 25	1"(IC)	102	20	98	98	33	43	0.940
123B 35	1½"(IC)	132	28	105	110	55	55	1.700
123B 50	2"(IC)	160	35	113	132	64	68	2.900

How to read the catalogue:

123B 15 BR/CF8 BN/V BSP/NPT

- Series 2-way Normally Closed, Semi Lift Type
- Size of valve/ Port size.
- Body material (Brass / CF8)
- Seating material (Buna Nitrile/Viton)
- End Connection (BSP / NPT)

Coil Voltage:

M36/40 SQ H-18-30/12-16 WP-65

- Size of Coil.
- Coil Type (Square)
- Class of Insulation. Coil VA (AC) or Watts (DC)
- Class of Electrical Protection.

110V 50Hz AC/DC

- Electrical Voltage, Std. 230, 110, 24 AC / 24 V DC
- Hertz
- Characteristics (AC / DC)