



MT-BT Series

Pilot-operated Type

N.C./N.O.

Explosion-proof solenoid valve

MT-BT is an Ex d IIB T3 Gb explosion-proof solenoid valve. This normally closed or normally open, pilot-operated solenoid valve is available with screw connections from PT 1/2" to 2", or flange connections from 1-1/4" to 2".

Steam

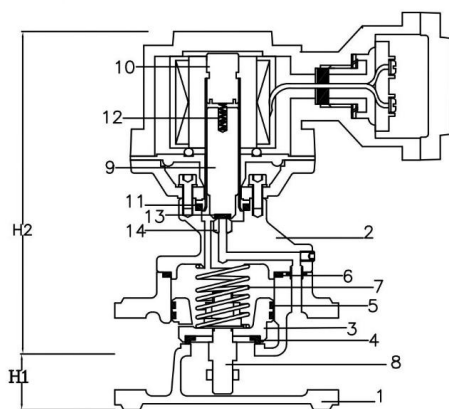
Water

Air

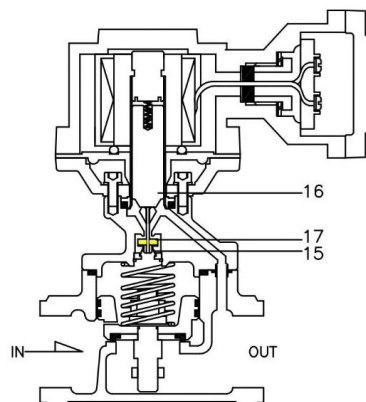
Gas

Oil

Normally Closed



Normally Open



Main Parts List

NO.	Descriptions	Material	
		Max. 90°C	Max. 200°C
1.	Valve body	BC6	BC6
2.	Valve bonnet	BC6	BC6
3.	Main valve	BC6	BC6
4.	Main valve seat	Teflon	Teflon
5.	Main valve ring	Carbon Resin	Carbon Resin
6.	Packing	NBR	Teflon
7.	Spring	SUS304	SUS304

NO.	Descriptions	Material	
		Max. 90°C	Max. 200°C
8.	Main valve guide rod	SUS303L	SUS303L
9.	Plunger	KM-31	KM-31
10.	Plunger tube unit	SUS304,KM-31	SUS304,KM-31
11.	Packing	NBR	Teflon
12.	Spring	SUS304	SUS304
13.	Plunger seat	Viton	Teflon
14.	Pilot hole seat	SUS303L	SUS303L
15.	Spring	SUS304	SUS304
16.	Plunger	KM-31	KM-31
17.	Needle seat	Viton	Teflon

Common Specification

Item	Description	
Fluid	Water, Air, Gas, Oil	Steam
Fluid Temperature	Max. 90°C	Max. 200°C
Power Source	AC 24, 110, 220 50/60Hz DC 12, 24V	
Insulation Class	H Class = Max. 180°C	
Power Consumption	AC : 25 VA DC : 19W	

Model Type

MT - ☐ ☐ BT F W A G S H C

Series

Operation · N/A : N.C. · C : N.O.
Max. Pressure (kgf/cm²)
Media · W : Water · A : Oil · G : Gas · S : Steam
Connection · N/A : Screw · F : Flange (10K)
Explosion proof solenoid valve D2G3
Size

Valve Specification

Model	Connection		Orifice (mm)	Cv Value	Operating Pressure (kgf/cm ²)		Dimension (mm)			Weight (kg)
	Inches	Type			Steam, Water, Air	Oil (< 50cst)	L	H1	H2	
MT-15BT	1/2"	Screw	20	7.4	0.3 - 10	0.3 - 7	80	18	130	2.5
MT-20BT	3/4"		20	7.4			80	18	130	2.5
MT-25BT	1"		25	12.0			100	24	133	3.0
MT-32BT	1 1/4"		32	15.0			110	28	138	3.5
MT-40BT	1 1/2"		40	20.0			120	31	144	4.0
MT-50BT	2"		50	33.0			140	38	156	5.0
MT-32BTF	1 1/4"	Flange JIS10K	32	15.0	0.3 - 10	0.3 - 7	150	68	138	7.5
MT-40BTF	1 1/2"		40	20.0			160	70	144	8.2
MT-50BTF	2"		50	33.0			170	78	156	10.3

* Nor. Closed : 0.3 ~ 16 kgf/cm² · 0.3 ~ 20 kgf/cm² on request. Nor. Open 0.3 ~ 12 kgf/cm² on request

* Min. Operating Pressure ΔP : 0.3 kgf/cm²