

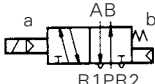
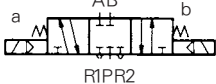
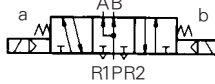
Series **DX2**

ISO #2 Interface solenoid valve



- BUILT-IN SPEED CONTROLLER (OPTIONAL)
- INDIVIDUAL PILOT EXHAUST TYPE
- EFFECTIVE ORIFICE: 62mm² (3.4Cv)
- BUILT-IN LED
- SURGE SUPPRESSION OPTION

Symbol

	Single Solenoid (FG-S)	Double Solenoid (FG-D)	Closed Center (FHG-D)	Exhaust Center (FJG-D)	Pressure Center (FIG-D)
2 Position					
3 Position					

How to Order

DX2 — **FG-S** — **1** **N** **U** **A03**

1 ISO#2 Type Valve

2 Type of Actuation

FG-S : 2 Position Single
 FG-D : 2 Position Double
 FHG-D : 3 Position Closed Center
 FJG-D : 3 Position Exhaust Center
 FIG-D : 3 Position Pressure Center

3 Voltage

1 : AC100V, 50/60Hz
 2 : AC200V, 50/60Hz
 3 : DC24V

4 Indicator Light

N : Indicator Light
 Z : With Indicator Light and Surge Voltage Suppressor

5 Speed Controller

Blank : Without Speed Controller
 S : With Speed Controller

6 Cable Gasket

Blank : $\phi 11$
 P : $\phi 7$

7 Thread

Blank : Rc(PT)
 U : NPT
 G : Rc(PF)

8 Port Size

Blank : Valve Less Base
 A03 : 3/8"
 A04 : 1/2"

DW

DV100

DV1000 ·
3000 · 4000

DS300

DS3000

DS5000

DS2000

DX2R

DP300 ·
3000 · 5000

DS6000

DX2

DM

DH

DT220

DC

Standard Specifications

Fluid			Air	
Operating	2 Position Single, 3 Position		0.15~0.9 MPa(21~128 PSI)	
Pressure Range	2 Position Double		0.1~0.9 MPa(14~128 PSI)	
Ambient and Fluid Temperature			Max. 50°C(122°F)	
Lubrication			Non-lube	
Manual Override			Non-locking Push Type	
Enclosure			IP 65	
Voltage			AC100V, 200V(50/60Hz), DC24V	
Voltage Consumption			-15%~+10% of Rated Voltage	
Power Consumption	AC	Inrush	5.6VA(50Hz), 5.0VA(60Hz)	
		Holding	3.4VA(50Hz), 2.3VA(60Hz)	
	DC		2W	
Electrical Entry			DIN Connector	

※ If Provided, use turbine oil(ISO VG32)

Model

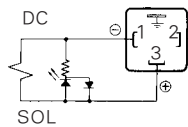
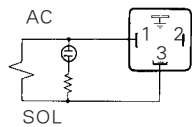
Position/ Solenoid		Type	Effective Orifice in ² (mm ²) (Cv factor)	Max. Operating Rate ⁽¹⁾ cycles/sec	Response Time ⁽²⁾	Weight ⁽³⁾ kg (lbs)
2Position	Single	DX2-FG-S-※	0.1(0.645) (3.4)	5	0.05 Less	0.7(1.57)
	Double	DX2-FG-D-※		5	0.05 Less	0.85(1.87)
3Position	Closed Center	DX2-FHG-D-※	0.09(0.58) (3.0)	3	0.07 Less	0.85(1.87)
	Exhaust Center	DX2-FJG-D-※		3	0.07 Less	0.85(1.87)
	Pressure Center	DX2-FIG-D-※		3	0.07 Less	0.85(1.87)

Note (1) Minimum Operating Cycle Rate : in accordance with B8375(1/30 days)
(2) In accordance with B8375-1975, at 0.49MPa(71.1 PSI)
(3) Weight Without sub-plate(sub-plate weight : 0.68kg(1.5 lbs))

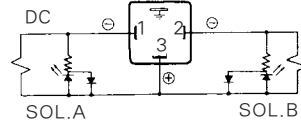
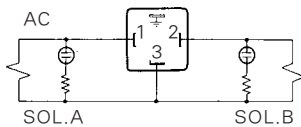
DIN Connector(Wiring)

● Indicator Light

Single

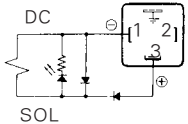
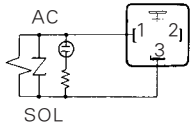


Double

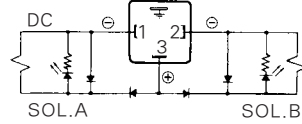
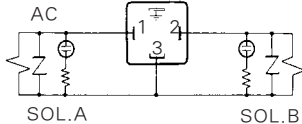


● Indicator light and Surge Voltage Suppressor

Single

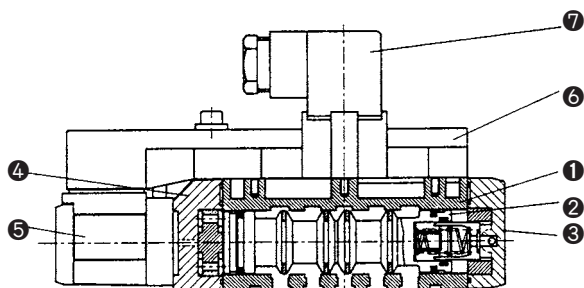


Double

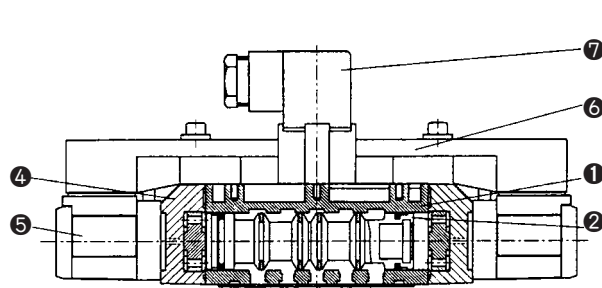


Construction

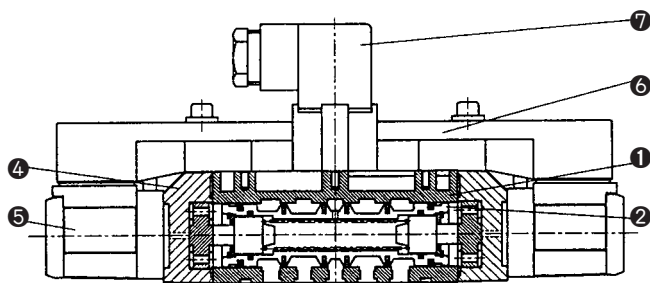
DX2-FG-S-※



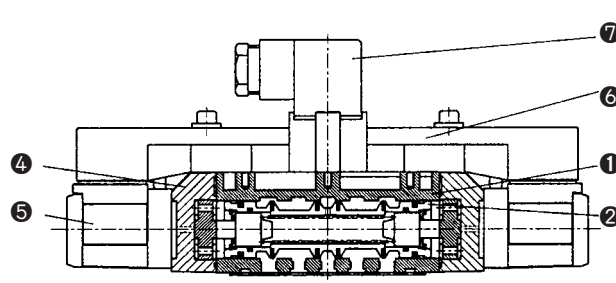
DX2-FG-D-※



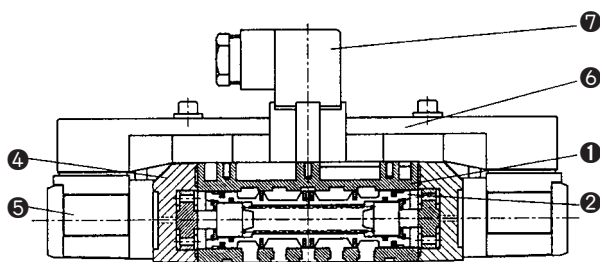
DX2-FHG-D-※



DX2-FJG-D-※



DX2-FIG-D-※



Main Parts

No.	Description	Material	Note
①	Body	Aluminum Die-Cast	
②	Spool	Aluminum+NBR	
③	End Cover	Aluminum Die-Cast	Black Paint
④	Adapter Plate	Aluminum Die-Cast	Black Paint
⑤	Pilot Valve Ass'y	—	
⑥	Lamp Case	Resin	
⑦	Connector	Resin	

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DX2

DM

DH

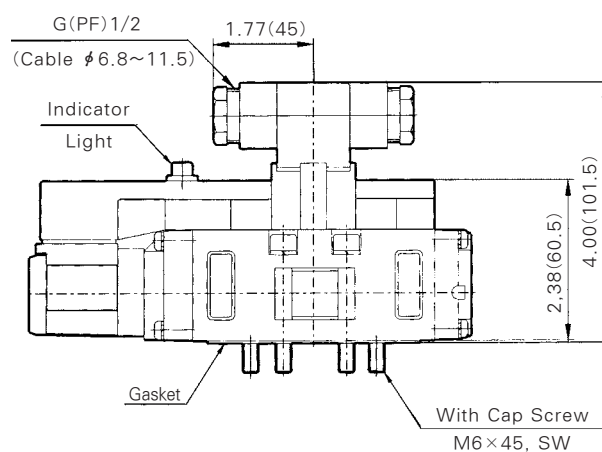
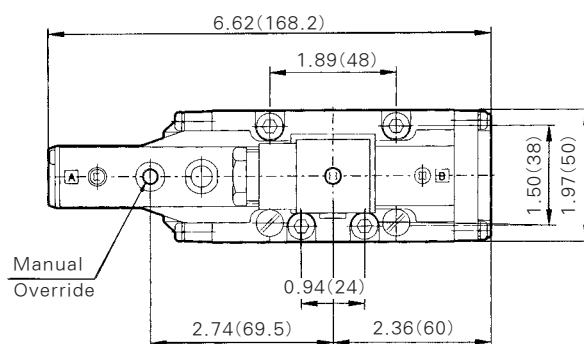
DT220

DC

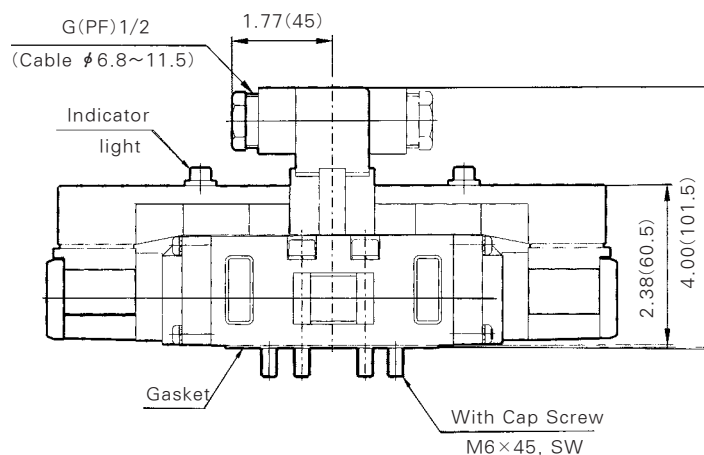
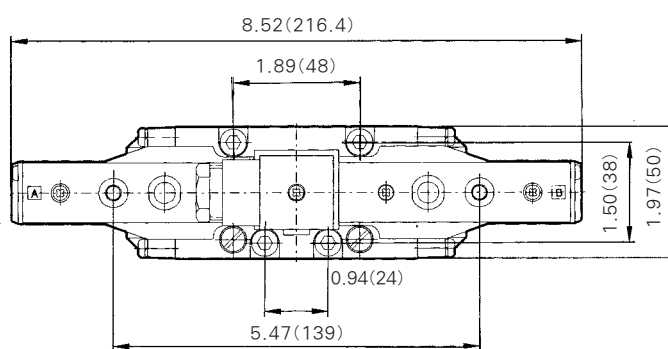
Dimensions

inch(mm)

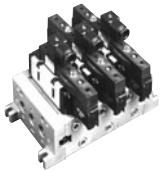
DX2-FG-S



DX2-FG-D DX2-FHG-D DX2-FJG-D DX2-FIG-D



Sub-Base Series



Specifications

Applicable Solenoid Valve	ISO Size ②
Sub-Plate Size	ISO Size ②
Porting	Side : 3/8", 1/2"
Weight (kgf(lbs))	0.68(1.5)(3/8", 1/2")



Specifications

Applicable Solenoid Valve	ISO Size ②
Sub-Plate Size	ISO Size ②
Porting	Side : 3/8", 1/2" Bottom : 3/8", 1/2"
Weight (kgf(lbs))	0.68(1.5)(3/8", 1/2")

How to Order

Sub Base

DXS2

U

A03

Manifold

U

DXM2

3

03R

04B

1 Thread

Blank : RC(PT)
U : NPT

2 Porting

A03 : Crossways port Side 3/8"
A04 : Crossways port Side 1/2"
B03 : Crossways port Bottom 3/8"
B04 : Crossways port Bottom 1/2"

1 Thread

Blank : RC(PT)
U : NPT

2 Manifold Stations

1 : 1 : Stations ~ 10 : 10 : Stations

3 Porting A, B

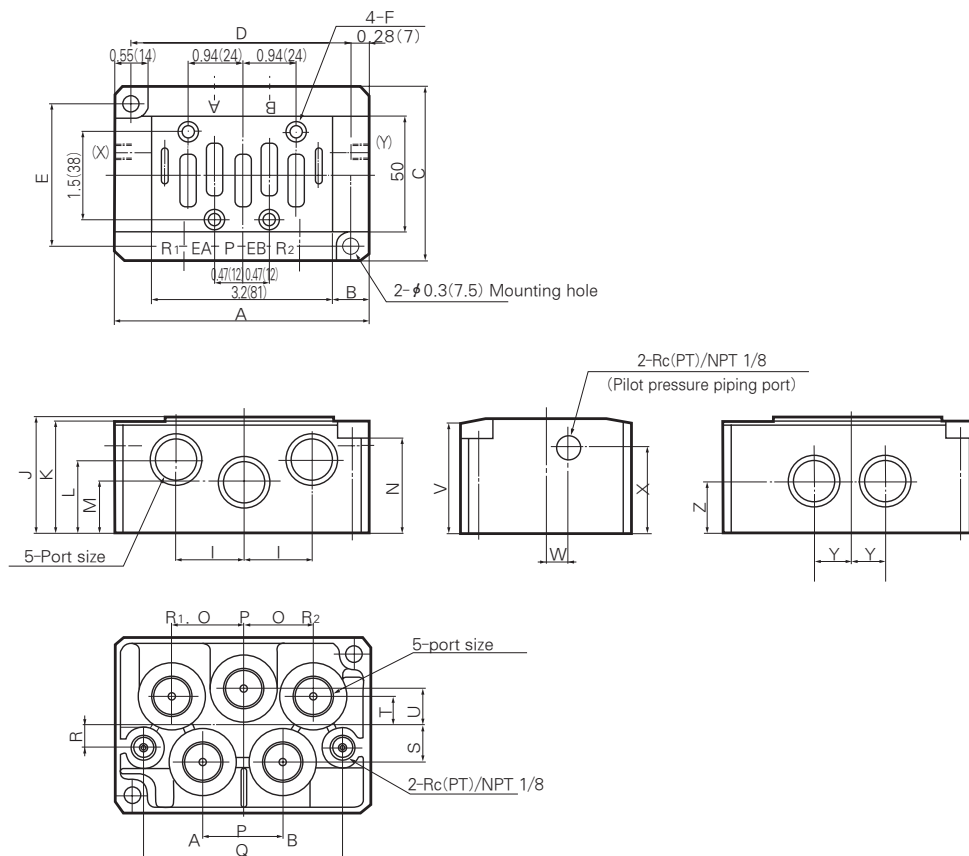
03R : 3/8" (30th side)
04R : 1/2" (30th side)

4 Porting P, R1, R2

04B : 1/2" (Bath side port)

Sub-Base Dimensions

inch(mm)



Model	Specification	Port size	A	B	C	D	E	F	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
DXS2-A03,A04	Side	Rc(PT)/NPT	4.4	0.6	2.95	3.86	2.44	4-M6 Depth 10	1.18	1.97	1.93	1.26	0.9	1.65	1.22	1.42	3.46	0.39	0.63	0.47	0.63	1.87	0.39	1.5	0.63	0.9
DXS2-B03,B04	Bottom	3/8" · 1/2"	(112)	(15.5)	(75)	(98)	(62)		(30)	(50)	(49)	(32)	(23)	(42)	(31)	(36)	(88)	(10)	(16)	(12)	(16)	(47.5)	(10)	(38)	(16)	(23)

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DX2

DM

DH

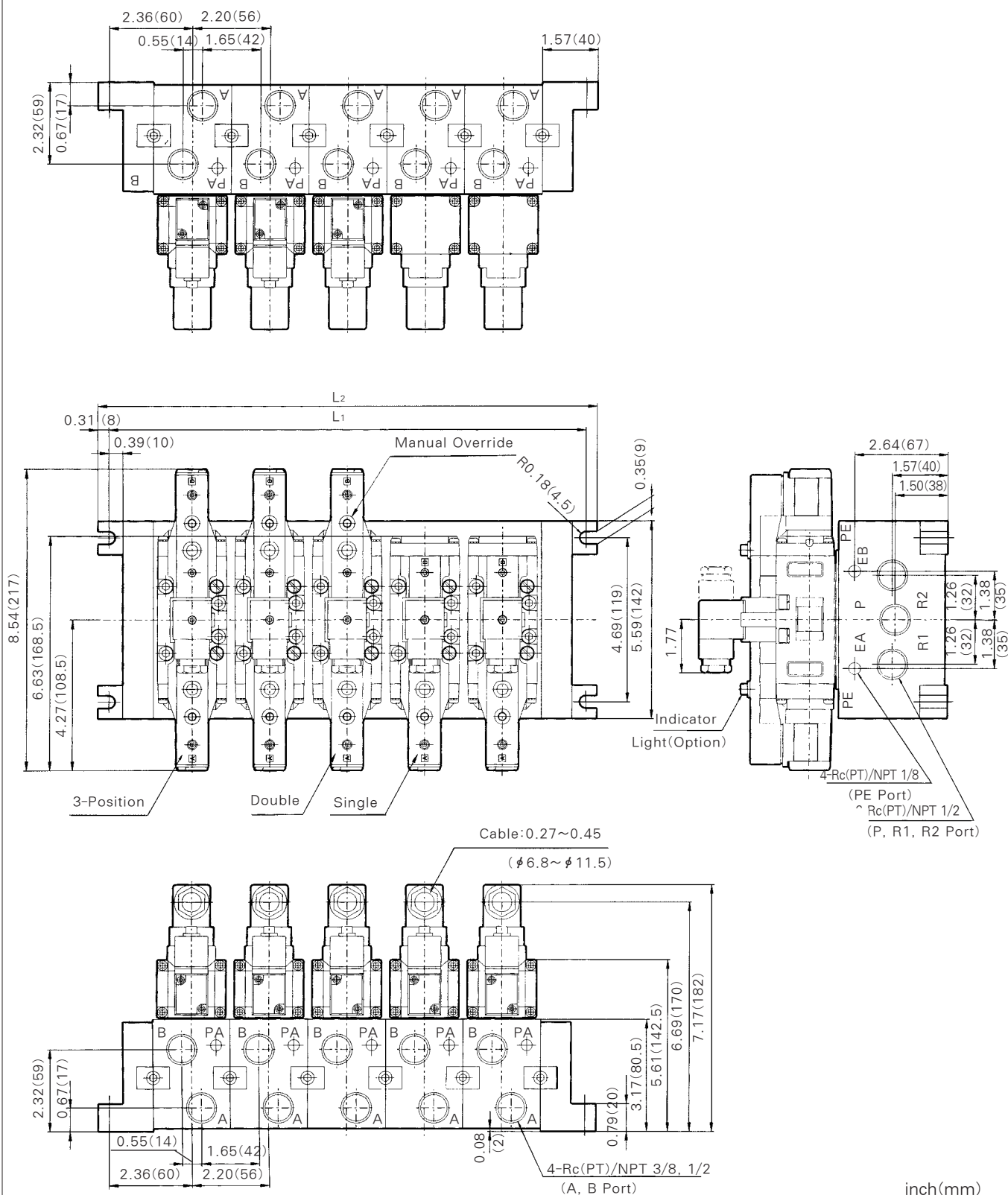
DT220

DC

Series DX2

Manifold/Dimensions

inch(mm)



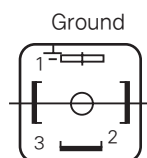
Size	Symbol ^{Stations}	1	2	3	4	5	6	7	8	9	10	Equation(mm)
Rc(PT)/NPT 1/2"	L ₁	4.72(120)	6.93(176)	9.13(232)	11.34(288)	13.54(344)	15.75(400)	17.95(456)	20.16(512)	22.36(568)	24.57(624)	n:Stations L ₁ =56n+64
	L ₂	5.35(136)	7.56(192)	9.76(248)	11.97(304)	14.17(360)	16.38(416)	18.58(472)	20.79(528)	22.99(584)	25.20(640)	L ₂ =56n+80

⚠ Precautions

Wiring

● DIN Connector type

- Solenoids are connected to the earth pin terminal on the DIN connector terminal block as follows. Connected to each terminal block on the connector part.
- Cable O.D : $\phi 6.8 \sim \phi 11.5\text{mm}$
- Appropriate tightening torque to the connector part.
Connector fixing thread : 0.5N.M
Terminal thread : 0.5N.M



Terminal	Internal wiring
1	Sol. A side -
2	Sol. B side -
3	COM +
$\pm$ -	Ground

Piping

- 1) Before piping
Make sure to clean up chips, cutting oil, dust, etc., before piping.
- 2) Seal tape
When installing piping or fitting into a port, ensure that sealant material does not enter the port inside. When using seal tape, leave 1.5 to 2 threads exposed on the end of pipe/fitting.
- 3) For 3 position double pilot check valve, make sure that there is no leakage from the piping between valve and cylinder or from the fitting parts, checking it with solvent like neutral detergent solution. Leakage from sealant of cylinder should be checked. If any leakage occurs, cylinder piston may not stop at the mid position and be movable when the valve is de-energized.

Operating Environment

- 1) Do not use in atmospheres where the valve is in direct contact with corrosive gases, chemicals, salt water, water or steam.
- 2) When the solenoid valve is mounted in a control panel or its energized for a long time, make sure ambient temperature is within the valve specification range.

Lubrication

- 1) The valve has been lubricated for life at manufacture, and does not require lubrication in service.
- 2) If a lubricant is used in the system, use furbine oil Class 1(no additive), ISO VG32.

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