Special Conditions For Safe Use

*To Ensure The Proper Function Of The Device And Promote Long Service Life, You Must Comply With The Information In These Operation Instructions And The Application Conditions And Specifications Provided In The Data Sheet. Usage Of The Device In A Manner That Is Contrary To Those Operating Instructions Or The Application Condition And Specification Provided In The Data Sheet Is Improper And Will Avoid Your Warranty. This Device Serves Exclusively As A 3/2, 5/2 Or 5/3 Solenoid Valve For The Media Started To Be Permissible On This Introduction And The Data Sheet. Any Other Use Is Considered To Be Improper Use. The Manufacturer Will Not Be Responsible For Any Improper Use Of The Device.

*Changes To The Product May Only be Made After Consulting The Manufacturer or His Representative. Installation And Maintenance Of The Valve Must Be Carried Out By Qualified Personnel Only.

*Those Solenoid Spool Valves Are Designed To Operate With Filtered (<=40μm), Dry Or lubricated Air Or Neutral Gas And Within The Technical Characteristics Specified On The Nameplate And In The Data Sheet.

Pneumatic Connection

*General Recommendations

Connectpipes For The Required Functions In Accordance With This Documentation And The Ports Markings On The Product. Make Sure That Noforeign Matter Enters The System. Correctly Support And Align Pipes To Prevent Mechanical Strain On The Valve.

When Tightening, Do Not Use The Valve As A Lever. Locate Wrenches As Close As Possible To Connection Point. To Avoid Damage To The Equipment, ***DO NOT OVER TIGHTEN*** Pipe Connections.

**Connection Of The Spool Valve*

FLP-2666 Series Serves Exclusively As A 3/2, 5/2 Or 5/3 Solenoid Valve. Pressure Inlet At Port 1 On The Body Of The Valve, Pressure Outlet At Port 2 And 4 On The Body Or On The Interface Plates, Exhaust At Ports 3 And 5 On the Body Of The Valve. Technical Details Please Consult With Dimension And Installing.

FLP-2666 Solenoid Valve Manual Operation Introduction

**Connection Of Pilot Exhaust*

The Standard Model Has a Ø3 Exhaust Port At End Of The Pilot Valve. Just Fixing And Tightening M8x0.75 Female Nut Supplied On It.

Electrical Connection

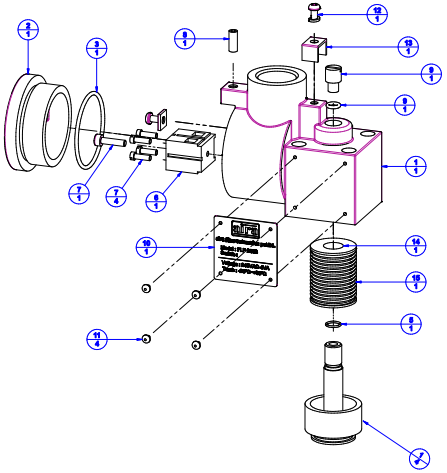
General Recommendation

* Electrical Connection Must Be Made By Qualified Personnel And According To Applicable Local Standards And Regulations.
* Before Any Electrical Connection, Turn Off The Electrical Current To Power Off The Components.
* Depending On The Voltage, Electrical Components Must Be Grounded According To Local Standards And Regulations.
* Most Valves Are Designed For Continuos Duty. To Prevent The Risk Of Personal Injury, Do Not Touch The Solenoid Operator Which Can Become Hot under Normal Operating Condition.
* Standard Coils (C0)
  Electrical Connection Is made With Detachable Plug Connector For Cable Dia6-8mm (see fig.), Rotatable By 180° Increments (3 pins : 1,2 Electric pins+PE)
* Flameproof Coils(C4,C5)
  Electrical Connection Is Made With Wiring Box With M20-1.5 Or 1/2" Cable Entry, Two Points Terminal Strip For Electric Pins + Ground Pins And Outside Ground Pins Is Available.(See fig.)
* Other Explosion Proof Coils
  See Particular Data Sheet Delivered With These Coils.

Maintenance

Prior Any Maintenance Work, Switches Off Power Supply, depressurize and Vent The Valve To Prevent The Risk Of Personal Injury or Damage equipment.

SR. No.	DESCRIPTION	MATERIAL	QTY.
01	BODY	CAST ALUMNIUM ALLOY EN-AC 46100 DF(LM2) As Per AMDS-01	01
02	Junction Box Cover	CAST ALUMNIUM ALLOY EN-AC 46100 DF(LM2) As Per AMDS-01	01
03	Junction Box Cover O Ring	ASTM D 3187 GR.NBR	01
04	Housing	ASTM A276 Type S.S 304	01
05	Housing O Ring	ASTM D 3187 GR.NBR	01
06	Terminal Connector	MELAMINE DIN EN 60947-7-1 (VDE 0611 Part 1)2003-07 EN 60947-7-1:2002	01
07	Terminal Connector For L.N. Bolt	ARNITE Av2 372	04+1
08	GRUB Screw For Coil	ASTM A193 GR.B7 S.S 304	01
09	Exhaust & O Ring	ASTM A193 GR.B7 ASTM D 3187 GR.NBR	01+01
10	Name Plate	ASTM A276 Type S.S.304	01
11	Rivet For Name Plate	Brass (ASTM B 36 UNS 24000)	04
12	Cheese Head Screw+ Washer	ASTM A193 GR.B7 ASTM A194 GR.2H S.S.304	2+1+1
13	C-Clamp For Earthing	Brass(ASTM B 36 UNS 24000)	01
14	Pully For Coil(Bobbin)	ARNITE-Pet (Av2 372)	01
15	Solenoid Coil	Copper (IS 13730-8)	01



C4, C5 Coils Electric Connection

◆ Preventive Maintenance

Operate the Valve at least once a month to check its function. Avoid obstruction of exhaust port when is not connected or protect it with a cap.

◆ Cleaning

Maintenance of the valve depends on the operating conditions. They must Be Cleaned at Regular Intervals. Cleaning Must be done When a Slowing down of the cycle, a leakage or an abnormal noise is noticed. The Components Must Be Checked For Excessive Wear. Cleaning Must Be made With Suitable Solvent.

◆ Spare Parts

After a prolonged use, it Can Be Necessary to Replace The Active Components Of The Valve. A Spare Parts Kitis Available for each version of Spool Valve. Contact The Manufacturer or His Representative.

◆ Flameproof Joints

Repairs Of The Flameproof Joints Must In Compliance With The Structural Specifications Provided by the manufacturer. Repairs Must Not be Made On The Basis Of Valus Specified In Tables 2 and 3 of EN/IEC 60079-1.

◆ Troubleshooting

Valve Fails To Operate (No Switching Noise)	**-Check That Electrical Supply Complies With Values Mentioned On the Nameplate or Coils. -Check Coil For Shorts or damage. -Check That Mobile Parts (Spool, Pilot Plunger) Are Not Blocked By Foreign Particles. -Check If The Namur Interface Plate Mounted Incorrectly.**
Valve Fails To Return (For mono-Stable)	**- Check if The Return Spring is Broken. - Check If The Pilot Exhaust Port Is Blocked.**
Valve Switches But Without Effect	**- Verify air pilot pressure (mini 2 Bar) - Verify if The Pilot Plunger Spring Is Broken.**
External Leakage	**- Verify Connectors and tightening of The Valve On Its Interface Plate. -Verify The Tightening Of The Pilot.**

Mfg. & Mkt by:
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INDIA

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