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Form No.

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BIDIRECTIONAL CHANGE OVER VALVE WITH SOLENOID VALVE Material code: SG9780003010

- **1. Description:** Bi-directional Change over valve with Solenoid Valve mounted for Oxygen generator.
- **2. Scope of supply:** 1No. of Bi-directional Change over valve mounted with solenoid valve and suitable brass silencers.
- 3. Technical details for Bidirectional Change Over Valve:
 - 1) Item Bidirectional Changeover Valve 2" Flanged end (normally closed)
 - 2) Type Angle seated (By Directional)
 - 3) Port Size 2" or 50NB Flanged
 - 4) Body Material CF8 (SS-304) or better
 - 5) Media Pressure Range 0 Bar to 7 Bar
 - 6) Seal PTFE
 - 7) Media Temperature - 10 to 100 Degree C
 - 8) Pneumatic Pressure 3.5 Bar to 7 Bar
 - 9) Media -Air, Gases etc.
 - 10) End connections 50NB, class 150 SORF Flanged.
 - 11) Namur connection for compatible to Solenoid Valve.
 - 12) Orifice --- 2" Full bore
- 4. Technical details for Solenoid valve with spring return and brass silencers:
 - 1) Item Solenoid Valve with Spring Return
 - 2) Type 3/2 Convertible Namur
 - 3) Port Size ln/Exhaust In/ Exhaust 1/4' BSP
 - 4) Body Material Aluminium
 - 5) Media Pressure Range 2 10bar
 - 6) Seal NBR (Nitrile)
 - 7) Media Temperature 5 Deg C to 60 Deg C
 - 9) Operating voltage AC (50HZ) -230V
 - 10) Power Consumption AC-6W
 - 11) Features spool with cartridge Type design for Long Life, compact Design, Manual Override
 - 12) Media Compressed Air, Filtered & Lubricated as required
 - 13) Silencer: Brass
 - 14) Mounting fasteners suitable to Namur connection shall be supplied along with material.

Revisions:		Approved: RAVI J	Date: 12.05.2021
Refer to record of revisions:			

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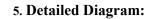
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Vendor to ensure that solenoid valve gas ports and mounting dimensions should match with Bidirectional Change Over Valve.



Bidirectional Change Over Valve silencer

Solenoid valve with spring return with



Silencer (Brass)

Vendor to ensure that solenoid valve gas ports and mounting dimensions should match with Bidirectional Change Over Valve.

6. Quality assurance Inspection and Testing Requirement:

- i) QP to be furnished by manufacturer as per their standard practices
- ii) Test report / certificates to be furnished by the manufacturer.
- iii) COC to be furnished by the manufacturer (for catalogue items)

Revisions:

| Prepared: K. SANGEETHA | Approved: RAVI J | 12.05.2021 |
| Refer to record of revisions:

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7. Conservation and Packing:

Conservation and packing shall be as per manufacturer standard practices.

8. Warranty:

The equipment is provided with warranty against faulty / defective material / workmanship/ manufacturing defects for 18 months from the date of dispatch or 12 months from the date of commissioning whichever is earlier.

9. Documents Required:

Following documents and drawings shall be furnished by manufacturer:

- I. Make and Model and Schematic Arrangement drawing
- II. GA drawings including weight and dimensions.
- III. Technical Datasheet
- IV. O&M manual, test certificates, catalogue, List of spares, etc.
- V. COC to be furnished by the manufacturer (for catalogue items)

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Revisions:	Prepared: K. SANGEETHA	Approved: RAVI J	Date: 12.05.2021
Refer to record of revisions:			

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REV. NO	DATE	REVISION DETAILS	REVISED	APPROVED