

# 3/2-Way Direct acting, Poppet Type, Solenoid Valves.

DATA SHEET  
9327U

Universal Ported

## SPECIFICATIONS

|                                  |                                                                                                                                                                         |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sizes                            | : 6mm (1/4") to 15mm (1/2").                                                                                                                                            |
| End Connections                  | : Standard-G-ISO-228 (BSP-F),<br>Optional - NPT.                                                                                                                        |
| Construction-Body                | : Standard - S.S.304 bar stock,<br>Optional-Brass/ Stainless<br>Steel-316 bar stock.                                                                                    |
| -Seat                            | : Standard-Viton (FPM).                                                                                                                                                 |
| Differential Pressure            | : 0 to 10 bar.                                                                                                                                                          |
| Temperature of fluid             | : -5°C to 80°C.                                                                                                                                                         |
| Coil Voltage                     | : Standard -230-Volts,<br>50HZ AC.<br>Optional - 24,110, 240 V DC & AC<br>50Hz or 60Hz.                                                                                 |
| Coil Insulation and Temperature. | : Ambient upto 42°C.<br>: Class 'H' insulated upto 155°C.                                                                                                               |
| Coil Rating                      | : Continuously rated.                                                                                                                                                   |
| Enclosure                        | : Standard-General purpose<br>SQ. moulded coil upto IP-20,<br>Optional-Weatherproof<br>SQ. moulded coil upto IP-67,<br>Flameproof Round coil upto<br>FLP IIB / FLP IIC. |
| Fluids                           | : Lubricated and non-lubricated air,<br>non-corrosive gas, (with<br>modification-light oil),<br>water and other Liquids.                                                |
| Optional Features                | : Manual Override from Bottom.                                                                                                                                          |
| Body Testing Pressure            | : 20 bar.                                                                                                                                                               |
| Sales Point                      | : Heavy duty, reliable valve for<br>High operations.                                                                                                                    |
| Application                      | : For operating Diaphragm valve,<br>Single acting cylinders, clutches,                                                                                                  |



| List Of Approvals |    |     |       |      |       |                             |                    |
|-------------------|----|-----|-------|------|-------|-----------------------------|--------------------|
| PESO              | CE | EAC | IECEX | ATEX | SIL-3 | ISI for Flame Proof Product | KLPL               |
| ✓                 | ✓  | ✓   | ✓     | ✓    | ✓     | ✓                           | ✓                  |
|                   |    |     |       |      |       | Ex db mb IIC T6 Gb          | Ex tb IIC T85°C Db |

actuators:

single acting rotary

textile processing machinery,  
compressor loading and unloading,  
for automation of any type.

NOTE-1

: USE OF FILTER IN THE INLET  
SIDE IS HIGHLY RECOMMENDED.

NOTE-2

: STANDARD COILS ARE 230 V AC  
50/60 Hz USING INTERNAL  
RECTIFIER CIRCUIT.

## SPECIFICATION TABLE 3/2 WAY UNIVERSAL PORTED

| Catalogue Number | Pipe Size | Orifice Size | Flow Factor Kv | Minimum Pressure | Maximum Operating Pressure (bar) |         |       |           |         |       | BTP | Material  |       | Constr. Ref. | VA Rating | Watt Rating | Coil  | Housing |
|------------------|-----------|--------------|----------------|------------------|----------------------------------|---------|-------|-----------|---------|-------|-----|-----------|-------|--------------|-----------|-------------|-------|---------|
|                  | Inch      | mm           | M³/hr.         |                  | bar                              | AC      |       |           | DC      |       |     |           |       |              | AC        | DC          | Type  |         |
|                  |           |              |                |                  |                                  | Air/Gas | Water | Light Oil | Air/Gas | Water |     | Light Oil |       |              |           |             |       |         |
| 9327U06          | ¼         | 6            | 0.45           | 0                | 10                               | 10      | 10    | 10        | --      | 10    | 20  | S.S.      | Viton | 504          | 18        | 12          | M45.1 | SQ      |
| 9327U15          | ½         | 6            | 0.45           | 0                | 10                               | 10      | 10    | 10        | --      | 10    | 20  | S.S.      | Viton | 504          | 18        | 12          | M45.1 | SQ      |

## ELECTRICAL REFERENCE

| Coil Type              | Power Consumption & Watt Rating |            |       | Class of Insulation | Protection                                                               |
|------------------------|---------------------------------|------------|-------|---------------------|--------------------------------------------------------------------------|
|                        | AC                              |            | DC    |                     |                                                                          |
|                        | VA Inrush                       | VA Holding | Watts |                     |                                                                          |
| M 45.1 SQ              | 25                              | 18         | 12    | H                   | GP/WP IP-67                                                              |
| M 45.1 RD              | 25                              | 18         | 12    | H                   | WP IP-67                                                                 |
| M 45.1FLP IIB/ FLP IIC | 25                              | 18         | 12    | H                   | IS/IEC 60079-1:2007, Group IIC.<br>IS 12063-1987 IP-66 (IEC 60529:1989). |

## DIMENSIONS IN (MM)

| Catalogue Number | Pipe Size | Constr. Ref. | A  | B  | C  | D  | H  | K  | Weight (APPROX.) |
|------------------|-----------|--------------|----|----|----|----|----|----|------------------|
|                  | Inch      |              |    |    |    |    |    |    | Kgs. ◇           |
| 9327U06          | ¼         | 504          | 55 | 30 | 99 | 45 | 27 | 12 | 0.908            |
| 9327U15          | ½         | 504          | 55 | 30 | 99 | 45 | 27 | 12 | 0.850            |

  

CONSTRUCTION REF. NO. 504

SECTION A – A

### Optional Coils Enclosures.

Valve fitted with M45 RD coil -  
Waterproof metallic enclosure as per IS 12063-1987 IP-67.

Valve fitted with M45 FLP IIB / FLP IIC coil -  
Flameproof metallic enclosure as per IS/IEC 60079-1:2007.

| Catalogue Number | Pipe Size | Constr. Ref. | E (RADIALLY) |     | F     |     | G (APPROX.) |     |
|------------------|-----------|--------------|--------------|-----|-------|-----|-------------|-----|
|                  | Inch      |              | RD WP        | FLP | RD WP | FLP | RD WP       | FLP |
| 9327U06          | ¼         | 504          | 96           | 96  | 62    | 80  | 150         | 198 |
| 9327U15          | ½         | 504          | 96           | 96  | 62    | 80  | 150         | 198 |

◇ Weight SQ enclosure, using S.S.304 bodies: ask AVCON for other weight.

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### Note:

Technical specifications, details & dimensions are subject to change without prior notice.  
Dimensions in the table are approximate subject to final confirmation by AVCON.

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| WESTERN                                                                                                                                                                                     |                                                                                                                                                                                                                                |                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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**avcon®**  
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