

# 3/2-Way Pilot Operated, Poppet Type, Solenoid Valves.

Normally Closed, Energised To Open - 9360E/D,  
Normally Open, Energised To Close - 9362E/D.

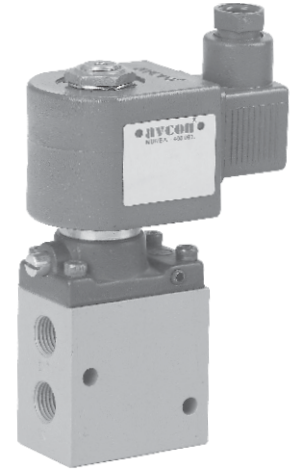
## DATA SHEET

9360E / 9362E  
Size - (1/4", 3/8" & 1/2")

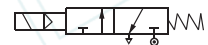
9360D / 9362D  
Size - (3/4", 1" & 1-1/2")

## SPECIFICATIONS

|                     |                                                                                                                                                                                                        |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sizes               | : 1/4" (6mm) to 1/2" (15mm) & 3/4" (20mm) to 1-1/2" (36mm).                                                                                                                                            |
| End Connections     | : Standard-G-ISO-228(BSP-F),<br>Optional-NPT.                                                                                                                                                          |
| Body Material- Body | : Aluminum Die Cast - 1/4" to 1/2" & Aluminum Bar stock 3/4" to 1-1/2".                                                                                                                                |
| Body Test Pressure  | : 15 Bar (Refer to table below).                                                                                                                                                                       |
| Max.Wkg.Pressure    | : 10 Bar (Refer to table below).                                                                                                                                                                       |
| Seat Material       | : Standard - Buna Nitrile, Optional: Viton.                                                                                                                                                            |
| Core Tube Nut       | : St.St.304/St.St.316.                                                                                                                                                                                 |
| Plunger/Stopper     | : St.St.430FR.                                                                                                                                                                                         |
| Spring              | : St.St.302.                                                                                                                                                                                           |
| Shading Ring        | : Copper.                                                                                                                                                                                              |
| Temp.(ambient)      | : 42Deg.C.                                                                                                                                                                                             |
| Max.Wkg.Temp.       | : (-)5 to 80Deg.C.                                                                                                                                                                                     |
| Voltage (AC)        | : 230, 110, 48, 24 V - 50/60 Hz.                                                                                                                                                                       |
| (DC)                | : 24, 110, 240 V.                                                                                                                                                                                      |
| Enclosures          | : General Purpose (IP20).<br>Weatherproof- RD-WP-67.<br>Flameproof-RD-FLP-IIC+WP67.                                                                                                                    |
| Approvals           | : KLPL/PESO/CE/ATEX/BIS.                                                                                                                                                                               |
| Differential Pr.    | : 2 to 10 (Refer to table below).                                                                                                                                                                      |
| Coil Insulation     | : Class 'H' upto 155Deg.C.                                                                                                                                                                             |
| Fluids              | : Lubricated and non-lubricated air, non-corrosive gas.                                                                                                                                                |
| Manual Override     | : Available.                                                                                                                                                                                           |
| Sales Point         | : Heavy duty, reliable valve for multimillion operations, lockable -<br>resettable manual override as a standard feature.                                                                              |
| Application         | : For operating Diaphragm valves, Single acting cylinders, clutches,<br>single acting rotary actuators, textile processing machinery,<br>compressor loading and unloading, for automation of any type. |
| Mounting            | : In horizontal pipeline, keeping solenoid upright and vertical.                                                                                                                                       |
| Note                | : 1) Use of Filter in the inlet side is highly recommended.<br>2) Not suitable for back pressure from outlet side.                                                                                     |

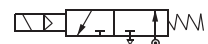


## SPECIFICATION TABLE 3/2 WAY NORMALLY CLOSED



| 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           | M <sup>3</sup> /hr. | bar              | Air/Gas                          | Water | Light Oil | Air/Gas | Water | Light Oil | bar | Body     | Seat |              | AC        | DC          | Type  |         |
| 9360E06          | 1/4       | 6            | 0.7                 | 2                | 10                               | --    | --        | 10      | --    | --        | 15  | AD       | BN   | 23.1         | 18        | 12          | M45.1 | SQ      |
| 9360E10          | 3/8       | 10           | 1.9                 | 2                | 10                               | --    | --        | 10      | --    | --        | 15  | AD       | BN   | 23.1         | 18        | 12          | M45.1 | SQ      |
| 9360E15          | 1/2       | 15           | 1.9                 | 2                | 10                               | --    | --        | 10      | --    | --        | 15  | AD       | BN   | 23.1         | 18        | 12          | M45.1 | SQ      |
| 9360D20          | 3/4       | 20           | 2.5                 | 2                | 10                               | --    | --        | 10      | --    | --        | 15  | AL       | BN   | 24.1         | 18        | 12          | M45.1 | SQ      |
| 9360D25          | 1         | 28           | 4.6                 | 2                | 10                               | --    | --        | 10      | --    | --        | 15  | AL       | BN   | 24.1         | 18        | 12          | M45.1 | SQ      |
| 9360D35          | 1 1/2     | 36           | 5.5                 | 2                | 10                               | --    | --        | 10      | --    | --        | 15  | AL       | BN   | 25.1         | 18        | 12          | M45.1 | SQ      |

## 3/2 WAY NORMALLY OPEN



|         |       |    |     |   |    |    |    |    |    |    |    |    |    |      |    |    |       |    |
|---------|-------|----|-----|---|----|----|----|----|----|----|----|----|----|------|----|----|-------|----|
| 9362E06 | 1/4   | 6  | 0.7 | 2 | 10 | -- | -- | 10 | -- | -- | 15 | AD | BN | 23.1 | 18 | 12 | M45.1 | SQ |
| 9362E10 | 3/8   | 10 | 1.9 | 2 | 10 | -- | -- | 10 | -- | -- | 15 | AD | BN | 23.1 | 18 | 12 | M45.1 | SQ |
| 9362E15 | 1/2   | 15 | 1.9 | 2 | 10 | -- | -- | 10 | -- | -- | 15 | AD | BN | 23.1 | 18 | 12 | M45.1 | SQ |
| 9362D20 | 3/4   | 20 | 2.5 | 2 | 10 | -- | -- | 10 | -- | -- | 15 | AL | BN | 24.1 | 18 | 12 | M45.1 | SQ |
| 9362D25 | 1     | 28 | 4.6 | 2 | 10 | -- | -- | 10 | -- | -- | 15 | AL | BN | 24.1 | 18 | 12 | M45.1 | SQ |
| 9362D35 | 1 1/2 | 36 | 5.5 | 2 | 10 | -- | -- | 10 | -- | -- | 15 | AL | BN | 25.1 | 18 | 12 | M45.1 | SQ |

## ELECTRICAL REFERENCE

| Coil Type      | Power Consumption & Watt Rating |            |       | Class of Insulation | Protection   | Certification Standard |
|----------------|---------------------------------|------------|-------|---------------------|--------------|------------------------|
|                | AC                              |            | DC    |                     |              |                        |
|                | VA Inrush                       | VA Holding | Watts |                     |              |                        |
| M 45.1 SQ      | 25                              | 18         | 12    | H                   | GP/WP IP-67  | IS/IEC 60529-2001      |
| M 45.1 RD      | 25                              | 18         | 12    | H                   | GP/WP IP-67  | IS/IEC 60529-2001      |
| M 45.1 FLP IIC | 25                              | 18         | 12    | H                   | FLP-IIC-IP67 | IS/IEC 60079-1-2014    |

## DIMENSIONS IN (MM)

| Catalogue Number |               | Pipe Size | Constr. Ref. | A  | B   | C  | D  | H  | K   | Weight (APPROX.)<br>Kgs. ♦ |  |  |  |
|------------------|---------------|-----------|--------------|----|-----|----|----|----|-----|----------------------------|--|--|--|
| Normally Closed  | Normally Open | Inch      |              |    |     |    |    |    |     |                            |  |  |  |
| 9360E06          | 9362E06       | 1/4       | 23.1         | 50 | 133 | 32 | 36 | 15 | 5.5 | 0.643                      |  |  |  |
| 9360E10          | 9362E10       | 3/8       | 23.1         | 65 | 133 | 38 | 48 | 30 | 7   | 0.898                      |  |  |  |
| 9360E15          | 9362E15       | 1/2       | 23.1         | 65 | 163 | 38 | 48 | 30 | 7   | 0.898                      |  |  |  |
| 9360D20          | 9362D20       | 3/4       | 24.1         | 76 | 195 | 50 | 60 | 35 | 8.5 | 1.578                      |  |  |  |
| 9360D25          | 9362D25       | 1         | 24.1         | 90 | 231 | 65 | 70 | 45 | 8.5 | 2.548                      |  |  |  |
| 9360D35          | 9362D35       | 1 1/2     | 25.1         | 90 | 283 | 90 | -- | -- | --  | 3.998                      |  |  |  |

Valve fitted with M45 SQ. coil

CONSTRUCTION REF. NO.: 23.1

Valve fitted with M45 RD GP coil - General purpose enclosure as per IP-20

Valve fitted with M45 SQ. coil

CONSTRUCTION REF. NO.: 24.1

Valve fitted with M45 RD WP coil - Waterproof metallic enclosure as per IS/IEC 60529-2001 IP-67

Valve fitted with M45 SQ. coil

CONSTRUCTION REF. NO.: 25.1

Valve fitted with M45 FLP IIC coil - Flameproof metallic enclosure as per IS/IEC 60079-1-2014 IP-67.

| Catalogue Number |               | Pipe Size | Constr. Ref. | E (RADIALLY) |       |     | F     |       |     | G (APPROX.) |       |     |
|------------------|---------------|-----------|--------------|--------------|-------|-----|-------|-------|-----|-------------|-------|-----|
| Normally Closed  | Normally Open | Inch      |              | RD GP        | RD WP | FLP | RD GP | RD WP | FLP | RD GP       | RD WP | FLP |
| 9360E06          | 9362E06       | 1/4       | 23.1         | 60           | 96    | 96  | 48    | 62    | 80  | 120         | 150   | 198 |
| 9360E10          | 9362E10       | 3/8       | 23.1         | 60           | 96    | 96  | 48    | 62    | 80  | 120         | 150   | 198 |
| 9360E15          | 9362E15       | 1/2       | 23.1         | 60           | 96    | 96  | 48    | 62    | 80  | 150         | 181   | 228 |
| 9360D20          | 9362D20       | 3/4       | 24.1         | 60           | 96    | 96  | 48    | 62    | 80  | 182         | 213   | 260 |
| 9360D25          | 9362D25       | 1         | 24.1         | 60           | 96    | 96  | 48    | 62    | 80  | 218         | 249   | 296 |
| 9360D35          | 9362D35       | 1 1/2     | 25.1         | 60           | 96    | 96  | 48    | 62    | 80  | 270         | 301   | 348 |

♦ Weight with SQ enclosure, using Aluminium bodies; ask AVCON for other weights.

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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                                                                                                                                                                               |                                                                                                                                                                                                                       |                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mumbai</b><br>Plot No. 65, Road No. 13, MIDC Marol, Andheri (East), Mumbai - 400 093<br>Tel.No.: 022-6915 6100 / 83909 17431<br>E-mail : acplmumbai.sales@avconcontrols.com        | <b>Pune</b><br>SSR ENCLAVE, Plot No. T - 108, MIDC Bhosari, Pune - 411 026.<br>Maharashtra (INDIA).<br>Tel.No.: 020-2712 0776 / 2712 0540<br>E-mail : acplmumbai.sales@avconcontrols.com                              | <b>Baroda</b><br>307, Mangaldeep Complex, Sampat Rao Colony, Productivity Road, Baroda - 390 005.<br>Tel.No.: 022-6915 6100 / 83909 17431<br>E-mail : acplmumbai.sales@avconcontrols.com |
| SOUTHERN                                                                                                                                                                              |                                                                                                                                                                                                                       |                                                                                                                                                                                          |
| <b>Chennai</b><br>249, First Floor, Tiny Sector Ambattur Industrial Estate, Chennai - 600 058<br>Tel.No.: 044-4807 4107 / 089393 12809<br>E-mail : acplmumbai.sales@avconcontrols.com | <b>Hyderabad</b><br>SSR ENCLAVE, Plot No. 81, Road No.4, Vasanth Nagar, Nizampet X Roads (Near JNTU College Metro Station), Hyderabad - 500085.<br>Tel.No.: 7995086416<br>E-mail : acplmumbai.sales@avconcontrols.com | <b>Bangalore</b><br>Tel.No.: 084312 56574<br>E-mail : acplmumbai.sales@avconcontrols.com                                                                                                 |

| EASTERN                                                                                                                                                                         |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Kolkata</b><br>720, 7th Floor, 33/1, N.S. Road, Marshal House, Kolkata- 700 001.<br>Tel.No.: 033-4068 1180 / 77109 00889<br>E-mail : acplmumbai.sales@avconcontrols.com      |  |
| NORTHERN                                                                                                                                                                        |  |
| <b>New Delhi</b><br>Unit No. 708, 7th Floor, 94 Meghdoot, Nehru Place, New Delhi - 110019<br>Tel.No.: 011-42639736 / 88282 69844<br>E-mail : acplmumbai.sales@avconcontrols.com |  |

Manufactured by:  
**AVCON CONTROLS PVT. LTD.**  
 Plot No. 65, Road No.13, MIDC Marol, Andheri (East), Mumbai - 400 093 (INDIA).  
 Phone : +91-22-6915 6100.  
 E-mail : avcon@avconcontrols.com  
 acplmumbai.sales@avconcontrols.com  
 Website : www.avconcontrols.com