

2/2-Way Pilot Operated, Flanged Piston Type, Solenoid Valves.

DATA SHEET
9160PXX/CF8/CF8M
9162PXX/CF8/CF8M

Normally Closed, Energised To Open,
Normally Open, Energised To Close.

SPECIFICATIONS

| | |
|-------------------------------------|--|
| Sizes | : 25mm (1") to 100mm (4"). |
| End Connections | : Flanged to ASA 150 RF, Optional-Drilled to other standards. |
| Face to Face | : As per DIN 3202 Part I Series F1. |
| Construction-Body | : Standard- SS ASTM A351 Gr. CF8. upto 4" (100 mm). All in investment casting with integrated Stainless Steel Seat. |
| Cover & Piston -Seat | : SS ASTM-A351 Gr. CF8/CF8M. : PTFE. |
| Differential Pressure | : 2 to 25 bar (Refer specs. table). |
| Temperature of fluid | : -5°C to 120°C. |
| Coil Voltage | : Standard -230-volts, 50Hz. AC. Optional - 24, 110, 240 V DC & AC 50Hz or 60Hz. |
| Coil Insulation and Temperature. | : Ambient upto 42°C. Class 'H' insulated upto 155°C. |
| Coil Rating | : Continuously rated. |
| Enclosure | : Standard-General purpose SQ. moulded coil upto IP-20, Optional-Weatherproof SQ. moulded coil upto IP-67, Flameproof coil upto FLP IIC. |
| Fluids | : Air, gas, light oil, water. |
| Feature | : Manual override (Only for 9160P). No Manual Override in 9162P Design |
| Sales Point | : Reliable & maintenance free, On-Off valve in SS (CF8) with flanged Construction. |



Application: Furnaces, boilers, textile machinery, treatment plant, ash handling plant, Sugar machinery plant, etc.

Mounting: In horizontal pipeline; keeping solenoid upright & vertical.

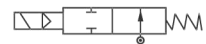
Note: USE OF FILTER IN THE INLET SIDE IS HIGHLY RECOMMENDED.

SPECIFICATION TABLE 2/2 WAY NORMALLY CLOSED



| Catalogue Number | Pipe Size Inch | Orifice Size mm | Flow Factor M3/hr. | Minimum Pressure bar | Maximum Operating Pressure (bar) | | | | | | BTP bar | Material Ref. | | Constr. Rating | VA Rating | | Coil Type | Housing |
|------------------|-------------------|--------------------|-----------------------|-------------------------|----------------------------------|-------|-----------|---------|-------|-----------|------------|---------------|------|----------------|-----------|----|-----------|---------|
| | | | | | AC | | | DC | | | | Body | Seat | | AC | DC | | |
| | | | | | Air/Gas | Water | Light Oil | Air/Gas | Water | Light Oil | | | | | | | | |
| 9160P255 | 1 | 25 | 11 | 2 | 24 | 22 | 20 | 25 | 22 | 20 | 40 | CF8 | PTFE | 34.1 | 18 | 12 | M45.1 | SQ |
| 9160P405 | 1 1/2 | 35 | 23 | 2 | 24 | 22 | 20 | 25 | 22 | 20 | 40 | CF8 | PTFE | 34.1 | 18 | 12 | M45.1 | SQ |
| 9160P505 | 2 | 50 | 39 | 2 | 20 | 18 | 16 | 20 | 18 | 16 | 40 | CF8 | PTFE | 34.1 | 18 | 12 | M45.1 | SQ |
| 9160P655 | 2 1/2 | 63 | 46 | 2 | 18 | 16 | 14 | 20 | 18 | 14 | 40 | CF8 | PTFE | 162 | 36 | 22 | M50 | SQ |
| 9160P755 | 3 | 76 | 64 | 2 | 18 | 16 | 14 | 18 | 16 | 14 | 40 | CF8 | PTFE | 162 | 36 | 22 | M50 | SQ |
| 9160P1005 | 4 | 94 | 101 | 2 | 14 | 14 | 12 | 14 | 14 | 12 | 40 | CF8 | PTFE | 162 | 36 | 22 | M50 | SQ |

2/2 WAY NORMALLY OPEN



| | | | | | | | | | | | | | | | | | | |
|-----------|-------|----|-----|---|----|----|----|----|----|----|----|-----|------|------|----|----|-------|----|
| 9162P255 | 1 | 25 | 11 | 2 | 22 | 20 | 18 | 23 | 20 | 18 | 40 | CF8 | PTFE | 34.1 | 18 | 12 | M45.1 | SQ |
| 9162P405 | 1 1/2 | 35 | 23 | 2 | 22 | 20 | 18 | 23 | 20 | 18 | 40 | CF8 | PTFE | 34.1 | 18 | 12 | M45.1 | SQ |
| 9162P505 | 2 | 50 | 39 | 2 | 18 | 16 | 14 | 18 | 16 | 14 | 40 | CF8 | PTFE | 34.1 | 18 | 12 | M45.1 | SQ |
| 9162P655 | 2 1/2 | 63 | 46 | 2 | 16 | 14 | 12 | 18 | 16 | 12 | 40 | CF8 | PTFE | 162 | 36 | 22 | M50 | SQ |
| 9162P755 | 3 | 76 | 64 | 2 | 16 | 14 | 12 | 16 | 14 | 12 | 40 | CF8 | PTFE | 162 | 36 | 22 | M50 | SQ |
| 9162P1005 | 4 | 94 | 101 | 2 | 8 | 6 | 4 | 8 | 6 | 4 | 40 | CF8 | PTFE | 162 | 36 | 22 | M50 | 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 50 SQ | 50 | 36 | 22 | H | GP/WP IP-67 |
| M 45.1 RD | 25 | 18 | 12 | H | GP/WP IP-67 |
| M 50 RD | 50 | 36 | 22 | H | GP/WP IP-67 |
| M 45.1 FLP IIC | 25 | 18 | 12 | H | IS/IEC 60079-1:2007, Group IIC. |
| M 50 FLP IIC | 50 | 36 | 22 | H | IS 12063-1987 IP-66 (IEC 60529:1989). |

DIMENSIONS IN (MM)

| Catalogue Number | | Pipe Size Inch | Constr. Ref. | A DIN 3202 | B | C | ØD | Weight (Approx.) Kgs. ♦ | E (RADIALLY) | | | F | | | G (APPROX.) | | |
|------------------|---------------|-------------------|--------------|---------------|-----|-----|-----|----------------------------|--------------|-------|-----|-------|-------|-----|-------------|-------|-----|
| Normally Closed | Normally Open | | | | | | | | RD GP | RD WP | FLP | RD GP | RD WP | FLP | RD GP | RD WP | FLP |
| 9160P255 | 9162P255 | 1 | 34.1 | 160 | 54 | 158 | 105 | 5.900 | 60 | 96 | 96 | 48 | 62 | 80 | 145 | 153 | 223 |
| 9160P405 | 9162P405 | 1 ½ | 34.1 | 200 | 64 | 166 | 135 | 8.600 | 60 | 96 | 96 | 48 | 62 | 80 | 153 | 161 | 231 |
| 9160P505 | 9162P505 | 2 | 34.1 | 230 | 76 | 176 | 160 | 13.800 | 60 | 96 | 96 | 48 | 62 | 80 | 163 | 171 | 241 |
| 9160P655 | 9162P655 | 2 ½ | 162 | 290 | 89 | 208 | 180 | 20.600 | 66 | 96 | 96 | 57 | 68 | 80 | 199 | 205 | 269 |
| 9160P755 | 9162P755 | 3 | 162 | 310 | 96 | 223 | 200 | 25.600 | 66 | 96 | 96 | 57 | 68 | 80 | 214 | 219 | 284 |
| 9160P1005 | 9162P1005 | 4 | 162 | 350 | 115 | 238 | 225 | 44.000 | 66 | 96 | 96 | 57 | 68 | 80 | 229 | 234 | 299 |

| Catalogue Number | | Pipe Size Inch | Constr. Ref. | E (RADIALLY) | | | F | | | G (APPROX.) | | |
|------------------|---------------|-------------------|--------------|--------------|-------|-----|-------|-------|-----|-------------|-------|-----|
| Normally Closed | Normally Open | | | RD GP | RD WP | FLP | RD GP | RD WP | FLP | RD GP | RD WP | FLP |
| 9160P255 | 9162P255 | 1 | 34.1 | 60 | 96 | 96 | 48 | 62 | 80 | 145 | 153 | 223 |
| 9160P405 | 9162P405 | 1 ½ | 34.1 | 60 | 96 | 96 | 48 | 62 | 80 | 153 | 161 | 231 |
| 9160P505 | 9162P505 | 2 | 34.1 | 60 | 96 | 96 | 48 | 62 | 80 | 163 | 171 | 241 |
| 9160P655 | 9162P655 | 2 ½ | 162 | 66 | 96 | 96 | 57 | 68 | 80 | 199 | 205 | 269 |
| 9160P755 | 9162P755 | 3 | 162 | 66 | 96 | 96 | 57 | 68 | 80 | 214 | 219 | 284 |
| 9160P1005 | 9162P1005 | 4 | 162 | 66 | 96 | 96 | 57 | 68 | 80 | 229 | 234 | 299 |

♦ Weight with SQ enclosure only, ask AVCON for other weights.

Note:

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