

### FEATURES

- Compact aluminium flanged bodied dual flow valves for petrol vending applications
- Minimum operating differential pressure 0,35 bar
- Explosion proof operators, intended for use in potential explosive areas, according to Directive ATEX 94/9/EC
- Easy electrical installation by means of the moulded-in supply cable, standard length 2 meter
- ASCO Numatics components satisfy all relevant EC directives

### GENERAL

**Differential pressure** 0,35 - 3,5 bar [1 bar = 100kPa]  
**Ambient temperature range** AC: -40 to +65°C  
 DC: -40 to +40°C

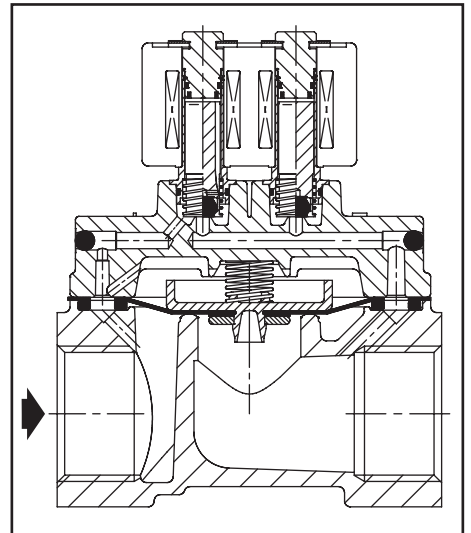
| fluids (*)            | temperature range (TS) | seal materials (*)                     |
|-----------------------|------------------------|--|
| Petrol & Liquid fuels | -20 to +40°C           | FPM (fluoroelastomer) / VMQ (silicone) |



### MATERIALS IN CONTACT WITH FLUID

(\*) Ensure that the compatibility of the fluids in contact with the materials is verified

|                               |                 |
|-------------------------------|-----------------|
| <b>Body</b>                   | Aluminium       |
| <b>Core tube</b>              | Stainless steel |
| <b>Core and plugnut</b>       | Stainless steel |
| <b>Springs</b>                | Stainless steel |
| <b>Seat</b>                   | Aluminium       |
| <b>Sealing</b>                | FPM / VMQ       |
| <b>Disc &amp; O-Rings</b>     | FPM             |
| <b>Diaphragm Support</b>      | POM             |
| <b>Shading Ring (AC only)</b> | Copper          |



### ELECTRICAL CHARACTERISTICS

**Coil insulation class** F  
**Electrical safety** IEC 335  
**Standard voltages** DC (=) 24V - 48V;  
 AC (~) 24V - 48V - 115V - 230V / 50 Hz

| prefix option | power ratings |                | operator ambient temperature range (TS) (C°) | safety code        | electrical enclosure protection (EN 60529) | replacement coil |                | type <sup>(1)</sup> |
|---------------|---------------|----------------|--|--------------------|--|------------------|----------------|---------------------|
|               | holding ~ (W) | hot/cold = (W) |  |                    |  | ~                | =              |                     |
|               | 230V/50/60 Hz | 24V/DC         |  |                    |  |                  |                |                     |
| PV            | 4,0           | 5,0 / 6,9      | -40 to +40/65                                | II 2 G Ex mb II T3 | moulded IP67                               | -                | <sup>(2)</sup> | 01 & 02             |

<sup>(1)</sup> Refer to the dimensional drawings on page 14  
<sup>(2)</sup> Multiple coils kits available under ATEX, contact us  
 - Not available

### SPECIFICATIONS

| pipe size | orifice size |           | flow coefficient Kv  |     |                       |     | operating pressure differential (bar) |         |     | prefix optional solenoids * |              |    |   |      | basic catalogue number |          |
|-----------|--------------|-----------|----------------------|-----|-----------------------|-----|---------------------------------------|---------|-----|-----------------------------|--------------|----|---|------|------------------------|----------|
|           | Low (mm)     | High (mm) | Low (m³/h)   (l/min) |     | High (m³/h)   (l/min) |     | min                                   | max. PS |     | NEMA 7&9                    | ATEX / IECEx |    |   | IP65 |                        |          |
|           |              |           | ~                    | =   | EF                    | NF  |                                       | EM      | PV  |                             | ZN           | SC |   |      |                        |          |
| 3/4       | 2,5          | 19        | 0,10                 | 1,7 | 7,3                   | 122 | 0,35                                  | 3,5     | 3,5 | -                           | -            | -  | ● | -    | -                      | E292A021 |
| 3/4       | 2,5          | 25        | 0,12                 | 2,0 | 9,5                   | 158 | 0,35                                  | 3,5     | 3,5 | -                           | -            | -  | ● | -    | -                      | E292B022 |
| 1         | 2,5          | 25        | 0,12                 | 2,0 | 11,5                  | 192 | 0,35                                  | 3,5     | 3,5 | -                           | -            | -  | ● | -    | -                      | E292B023 |

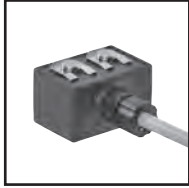
● Available feature  
 - Not available

\* For description of solenoids see pages 31-40

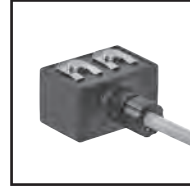
### INSTALLATION

- The valves can be mounted in any position without affecting operation
- Pipe connection identifiers: E = pipe thread according to ISO 7/1
- Installation/maintenance instructions are included with each valve
- PV solenoids have a standard cable length of 2 meters. Other lengths in full meters are available on request

### DIMENSIONS (mm), WEIGHT (kg)



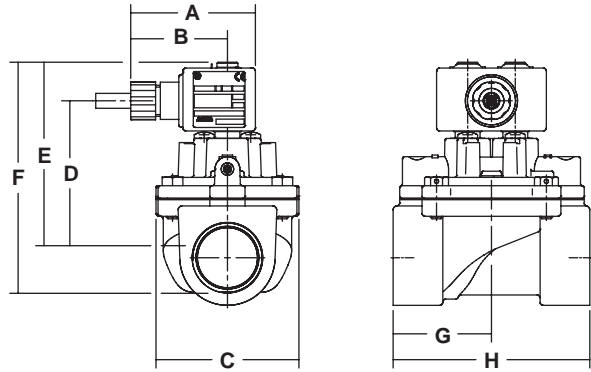
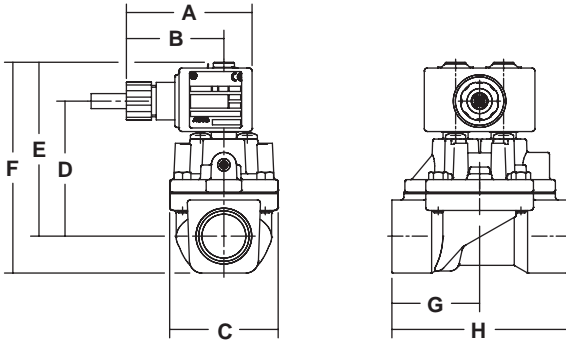
**TYPE 01**  
 Prefix "PV" Solenoid  
 Epoxy encapsulated  
 EN-IEC 60079-0, 60079-18, 61241-0, 61241-18  
 II 2 G/D Ex mb II / Ex mD  
 IP67



**TYPE 02**  
 Prefix "PV" Solenoid  
 Epoxy encapsulated  
 EN-IEC 60079-0, 60079-18, 61241-0, 61241-18  
 II 2 G/D Ex mb II / Ex mD  
 IP67

E293A021

E293B022 / B023



| type | AC/DC | prefix option | catalogue number | spare parts kits | A  | B  | C  | D  | E  | F   | G  | H  | weight |
|------|-------|---------------|------------------|------------------|----|----|----|----|----|-----|----|----|--------|
| 01   | ~ / = | PV            | E292A021         | 320179           | 60 | 47 | 52 | 65 | 83 | 101 | 42 | 84 | 1,0 Kg |
| 02   | ~ / = |               | E292B022         | 320180 / 320196  | 60 | 47 | 69 | 70 | 89 | 112 | 48 | 95 | 1,0 Kg |
|      | ~ / = |               | E292B023         | 320180 / 320196  | 60 | 47 | 69 | 70 | 89 | 112 | 48 | 95 | 1,0 Kg |