

### GENERAL DESCRIPTION / APPLICATIONS



Two way internal pilot solenoid valve.  
Driven diaphragm or driven piston type.

Suitable for gaseous and liquid media compatible with the (body/seals) material used.

Adjustable closing time speed regulator to reduce water hammering available on 1", 1 1/4", 1 1/2" and 2" bodies.

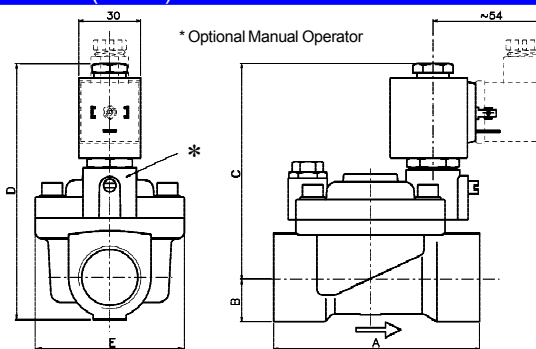
Diaphragm seal type (L65/L66) for general purpose or piston type (L67/L68) used in heavy duty operation; high frequency duty cycle. PTFE piston is

suitable for media not compatible with the standard elastomers.

Forged brass, nickel-plated brass or stainless steel body (1/2" & 3/4").

Stainless steel internal parts. Stainless steel springs. 360° degrees orientable solenoid. Mountable in any position.

### DIMENSIONS (in mm)



| PORT SIZE | DIMENSIONS IN millimeters (mm) |    |     |     |     |
|-----------|--------------------------------|----|-----|-----|-----|
|           | A                              | B  | C   | D   | E   |
| 3/8"      | 64                             | 14 | 87  | 101 | 45  |
| 1/2"      | 64                             | 14 | 87  | 101 | 45  |
| 3/4"      | 82                             | 17 | 96  | 113 | 55  |
| 1"        | 100                            | 20 | 103 | 123 | 70  |
| 1 1/4"    | 134                            | 28 | 110 | 138 | 98  |
| 1 1/2"    | 134                            | 28 | 110 | 138 | 98  |
| 2"        | 152                            | 35 | 121 | 156 | 120 |

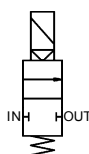
### ELECTRICAL SPECIFICATIONS

Continuous duty glass-reinforced nylon moulded coil with electrical connection suitable for DIN-43650A plug (2 poles+ground) or "faston" wire terminal.

|                                    |                                                                                                                  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Coil type :                        | B2                                                                                                               |
| Insulation class:                  | F (155°C) - H (180°C) upon request.                                                                              |
| Winding wire class:                | H (180°C)                                                                                                        |
| Protection class:                  | Waterproof IP-65 (EN60529 standards) when properly plug connected with DIN-43650A plug.                          |
| Duty:                              | Continuous (S.I.) 100% ED                                                                                        |
| Power consumption <sub>(1)</sub> : | Alternate Current 10VA (inrush 20VA)<br>Direct Current 8W                                                        |
| Voltage tolerance:                 | ± 10%                                                                                                            |
| Electrical Insulation:             | >1000 Mohm                                                                                                       |
| Dielectrical Strength:             | >2000 V/1'                                                                                                       |
| Standard voltages:                 | 12 - 24 - 48 - 110 - 220 Vac~ 50/60Hz<br>12 - 24 - 48 - 110 - 220 Vdc=<br>other voltages available upon request. |

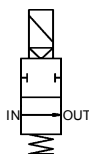
### OPERATION

#### L65 / L67 - Normally closed



|                    |                    |
|--------------------|--------------------|
| In:                | IN                 |
| Out:               | OUT                |
| Coil de-energized: | IN and OUT closed. |
| Coil energized:    | from IN to OUT.    |

#### L66 / L68 - Normally open



|                    |                    |
|--------------------|--------------------|
| In:                | IN                 |
| Out:               | OUT                |
| Coil de-energized: | from IN to OUT.    |
| Coil energized:    | IN and OUT closed. |

### SPECIFICATIONS AND AVAILABLE OPTIONS

| MODEL<br>(Diaphragm seal)<br><i>Replace with L66 for N.O. model</i> |     | ORIFICE<br>DIAMETER<br>mm | PRESSURES IN BAR <sup>(2)</sup> |                                           |                                   |    |                                 |    | Flow factor<br>kv<br>(liters/min.') | WEIGHT<br>Kg. |    |     |      |
|---------------------------------------------------------------------|-----|---------------------------|---------------------------------|-------------------------------------------|-----------------------------------|----|---------------------------------|----|-------------------------------------|---------------|----|-----|------|
|                                                                     |     |                           | BODY<br>RATING                  | MIN./MAX. OPERATING DIFFERENTIAL PRESSURE |                                   |    |                                 |    |                                     |               |    |     |      |
|                                                                     |     |                           |                                 | MIN.                                      | MAX. NORM. CLOSED<br>AC~      DC= |    | MAX. NORM. OPEN<br>AC~      DC= |    |                                     |               |    |     |      |
| L 6 5                                                               | 1 2 | E <sub>T</sub>            | P                               |                                           | 12,7                              | 25 | 0,2                             | 16 | 16                                  | 10            | 10 | 35  | 0,55 |
| L 6 5                                                               | 1 2 | F <sub>G</sub>            | P                               |                                           | 12,7                              | 25 | 0,2                             | 16 | 16                                  | 10            | 10 | 40  | 0,55 |
| L 6 5                                                               | 1 8 | H <sub>I</sub>            | P                               |                                           | 18                                | 25 | 0,2                             | 14 | 14                                  | 10            | 10 | 87  | 0,85 |
| L 6 5                                                               | 2 5 | L <sub>M</sub>            | P                               |                                           | 25                                | 25 | 0,2                             | 12 | 12                                  | 10            | 10 | 170 | 1,35 |
| L 6 5                                                               | 3 6 | N                         | P                               |                                           | 36                                | 20 | 0,3                             | 10 | 10                                  | 10            | 10 | 300 | 2,85 |
| L 6 5                                                               | 3 6 | O <sub>V</sub>            | P                               |                                           | 36                                | 20 | 0,3                             | 10 | 10                                  | 10            | 10 | 340 | 2,65 |
| L 6 5                                                               | 5 0 | P <sub>W</sub>            | P                               |                                           | 50                                | 20 | 0,3                             | 10 | 10                                  | 10            | 10 | 600 | 4,45 |
| (Piston seal)<br><i>Replace with L68 for N.O. model</i>             |     |                           |                                 |                                           |                                   |    |                                 |    |                                     |               |    |     |      |
| L 6 7                                                               | 1 2 | E <sub>T</sub>            | P                               |                                           | 12,7                              | 25 | 0,2                             | 16 | 16                                  | 10            | 10 | 35  | 0,55 |
| L 6 7                                                               | 1 2 | F <sub>G</sub>            | P                               |                                           | 12,7                              | 25 | 0,2                             | 16 | 16                                  | 10            | 10 | 40  | 0,55 |
| L 6 7                                                               | 1 8 | H <sub>I</sub>            | P                               |                                           | 18                                | 25 | 0,2                             | 14 | 14                                  | 10            | 10 | 87  | 0,85 |
| L 6 7                                                               | 2 5 | L <sub>M</sub>            | P                               |                                           | 25                                | 25 | 0,2                             | 12 | 12                                  | 10            | 10 | 170 | 1,35 |

suffix (options available upon request): <sup>(1)</sup> "LC" (low consumption), <sup>(2)</sup> "AP" (High pressure version)

| a                                                | Body material        | b                                               | Port size | c | Seals material | d                                                  | Protection class | e                                           | Optional features |   |                         |
|--------------------------------------------------|----------------------|-------------------------------------------------|-----------|---|----------------|----------------------------------------------------|------------------|---------------------------------------------|-------------------|---|-------------------------|
| T                                                | Brass.               | E                                               | 3/8" GAS  | T | 3/8" NPT       | 0                                                  | Buna N           | P                                           | IP 65             | X | Stable manual operator. |
| N                                                | Nickel-plated brass. | F                                               | 1/2" GAS  | G | 1/2" NPT       | 1                                                  | FPM              |                                             |                   |   |                         |
| I                                                | Stainless steel *    | H                                               | 3/4" GAS  | I | 3/4" NPT       | 3                                                  | RULON *          |                                             |                   |   |                         |
|                                                  |                      | L                                               | 1" GAS    | M | 1" NPT         | 6                                                  | EPDM             |                                             |                   |   |                         |
|                                                  |                      | N                                               | 1 1/4 GAS |   |                |                                                    |                  |                                             |                   |   |                         |
|                                                  |                      | O                                               | 1 1/2 GAS | V | 1 1/2 NPT      |                                                    |                  |                                             |                   |   |                         |
|                                                  |                      | P                                               | 2" GAS    | W | 2" NPT         |                                                    |                  |                                             |                   |   |                         |
| <i>* available only for 1/2" and 3/4" valve.</i> |                      | <i>* Available for piston type models only.</i> |           |   |                | when properly plug connected with DIN-43650A plug. |                  | <u>Option available only for NC models.</u> |                   |   |                         |

Le caratteristiche possono subire variazioni senza preavviso / Characteristics may change without notice.