

# VS 80 Series

Solenoid Operated Selector Valves

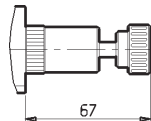
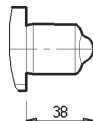
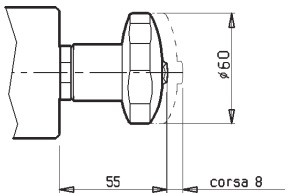
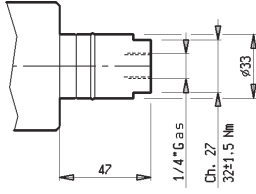


|                                                                                 |           |                      |                              |                              |                                                                  |                                                 |     |                    |                  |  |  |
|---------------------------------------------------------------------------------|-----------|----------------------|------------------------------|------------------------------|------------------------------------------------------------------|-------------------------------------------------|-----|--------------------|------------------|--|--|
| Max flow                                                                        |           | 50-60 l/min          |                              | Code                         |                                                                  | L 7 0 5 U J W V X Y Z                           |     |                    |                  |  |  |
| Max pressure                                                                    |           | 310 bar              |                              |                              |                                                                  |                                                 |     |                    |                  |  |  |
| Ports                                                                           |           | 3/8" G-1/2" G-SAE6-8 |                              | Model                        |                                                                  | VS 81/82/84/85                                  |     |                    |                  |  |  |
| Description: 3 way flow diverters                                               |           |                      |                              |                              |                                                                  |                                                 |     |                    |                  |  |  |
| CIRCUIT                                                                         |           |                      |                              |                              |                                                                  |                                                 |     |                    |                  |  |  |
| Code                                                                            | Circuit   |                      | * Transit position           |                              | Code                                                             | Circuit                                         |     | * Transit position |                  |  |  |
| W                                                                               |           |                      |                              |                              | W                                                                |                                                 |     |                    |                  |  |  |
| 3A                                                                              |           |                      |                              |                              | 3C                                                               |                                                 |     |                    |                  |  |  |
| 3N                                                                              |           |                      |                              |                              | 3D                                                               |                                                 |     |                    |                  |  |  |
| 3B                                                                              |           |                      |                              |                              |                                                                  |                                                 |     |                    |                  |  |  |
| TECHNICAL FEATURES                                                              |           |                      |                              |                              |                                                                  |                                                 |     |                    |                  |  |  |
| V                                                                               | Drain     | Circuit              | Spool types                  |                              |                                                                  |                                                 |     |                    | Pressure max bar |  |  |
| I                                                                               | Int. D.I. |                      | 3A                           | 3B                           | 3C                                                               | 3D                                              | 3N  |                    |                  |  |  |
| E                                                                               | Ext. D.E. |                      | 250                          | 250                          | 250                                                              | 250                                             | 250 |                    |                  |  |  |
|                                                                                 |           |                      | 310                          | 310                          | 310                                                              | 310                                             | 310 |                    |                  |  |  |
| <div><div><p>Maximum performance</p></div><div><p>Pressure drop</p></div></div> |           |                      |                              |                              |                                                                  |                                                 |     |                    |                  |  |  |
| Internal leakage on C ports                                                     |           |                      | MIN<br>cm <sup>3</sup> / min | MAX<br>cm <sup>3</sup> / min | Mineral oil with 32 cSt viscosity, at 40°C and 100 bar pressure. |                                                 |     |                    |                  |  |  |
|                                                                                 |           |                      | 10                           | 20                           |                                                                  |                                                 |     |                    |                  |  |  |
| OVER-ALL DIMENSIONS                                                             |           |                      |                              |                              |                                                                  |                                                 |     |                    |                  |  |  |
| U                                                                               | Ports (A) | Model                |                              |                              |                                                                  |                                                 |     |                    |                  |  |  |
| 3                                                                               | 3/8" Gas  | VS 81                |                              |                              |                                                                  |                                                 |     |                    |                  |  |  |
| 4                                                                               | 1/2" Gas  | VS 82                |                              |                              |                                                                  |                                                 |     |                    |                  |  |  |
| B                                                                               | SAE 6     | VS 84                |                              |                              |                                                                  |                                                 |     |                    |                  |  |  |
| C                                                                               | SAE 8     | VS 85                |                              |                              |                                                                  |                                                 |     |                    |                  |  |  |
| Weights                                                                         |           | 2.06 kg              |                              |                              |                                                                  |                                                 |     |                    |                  |  |  |
| MAXIMUM BLOCKING TORQUES                                                        |           |                      |                              |                              |                                                                  |                                                 |     |                    |                  |  |  |
| Tube<br>ch. 16mm: 22÷ 24Nm                                                      |           |                      | Coil retainer nut<br>5÷6Nm   |                              |                                                                  | Fixing screws<br>N°2 DIN 912-8.8 M6x40: 9÷ 10Nm |     |                    |                  |  |  |

# VS 80 Series

Solenoid Operated Selector Valves



| OPTIONS                                                                           |  |                                                  |  |                                               |                                                                                     |    |                                                        |    |  |                                                                                                                                                              |  |                                                 |  |
|-----------------------------------------------------------------------------------|--|--------------------------------------------------|--|-----------------------------------------------|-------------------------------------------------------------------------------------|----|--------------------------------------------------------|----|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------|--|
| J                                                                                 |  | Screwed manual override EF<br>Reference: LC1DZEF |  |                                               | J                                                                                   |    | Push-button manual override EP<br>Reference: 271-05099 |    |  |                                                                                                                                                              |  |                                                 |  |
| _F                                                                                |  |                                                  |  |                                               | _P                                                                                  |    |                                                        |    |  |                                                                                                                                                              |  |                                                 |  |
|  |  |                                                  |  |                                               |  |    |                                                        |    |  |                                                                                                                                                              |  |                                                 |  |
| OTHER ACTUATOR                                                                    |  |                                                  |  |                                               |                                                                                     |    |                                                        |    |  |                                                                                                                                                              |  |                                                 |  |
| J                                                                                 |  | X                                                |  | Push-turn manual actuator<br>Ref.: 26-0243000 |                                                                                     | J  |                                                        | X  |  | Oleopneumatic actuator OP<br>Reference: LC1ZP                                                                                                                |  | Pilot pressure<br>P. Max 200bar<br>P. Min 4bar* |  |
| H1                                                                                |  | SG                                               |  |                                               |                                                                                     | P1 |                                                        | 00 |  |                                                                                                                                                              |  |                                                 |  |
|  |  |                                                  |  |                                               |    |    |                                                        |    |  | With external drain (DE).                                                                                                                                    |  |                                                 |  |
|                                                                                   |  |                                                  |  |                                               |                                                                                     |    |                                                        |    |  | With internal drain (DI), allow for pilot ratio 6,5:1.<br>Example: at 100 bar pressure (C1 or C2), will need a minimum pilot pressure of 100:6,5 = 15,4 bar. |  |                                                 |  |
| ORDERING CODE                                                                     |  |                                                  |  |                                               |                                                                                     |    |                                                        |    |  |                                                                                                                                                              |  |                                                 |  |
| L705UJVVVXYZ                                                                      |  |                                                  |  |                                               |                                                                                     |    |                                                        |    |  |                                                                                                                                                              |  |                                                 |  |

|   |  |                |
|---|--|----------------|
| U |  | PORTS          |
| — |  | SEE PAGE 2.148 |

|   |  |                |
|---|--|----------------|
| W |  | CIRCUIT        |
| — |  | SEE PAGE 2.148 |

|   |  |                |
|---|--|----------------|
| V |  | DRAIN          |
| — |  | SEE PAGE 2.148 |

|    |  |                                |
|----|--|--------------------------------|
| Y  |  | CONNECTION                     |
| 00 |  | WITHOUT COIL AND CONNECTOR     |
| 01 |  | WITH COIL, WITHOUT CONNECTOR   |
| 02 |  | WITH CONNECTOR DIN 43650       |
| 03 |  | AMP JUNIOR                     |
| 07 |  | DT04-2P DEUTSCH                |
| 31 |  | CABLE 350 mm                   |
| 34 |  | CABLE 350 mm + DT04-2P DEUTSCH |

|   |  |                |
|---|--|----------------|
| Z |  | VERSION        |
| 0 |  | STANDARD       |
| V |  | SEALS IN VITON |

|     |  |                                         |
|-----|--|-----------------------------------------|
| J   |  | OPERATED                                |
| 11  |  | ELECTRICALLY OPERATED (DZ)              |
| 1F  |  | ELECTRICALLY OPERATED + EF              |
| 1P  |  | ELECTRICALLY OPERATED + EP              |
| P1  |  | OLEOPNEUMATICALLY OPERATED (OP)         |
| H1  |  | MANUALLY OPERATED (MN)                  |
| 20* |  | EL. OP. WITH EXPLOSION PROOF COILS (AD) |

\* ON REQUEST (ATEX)

|    |  |                  |  |                       |    |    |    |    |    |   |
|----|--|------------------|--|-----------------------|----|----|----|----|----|---|
| X  |  | VOLTAGE          |  | Available connections |    |    |    |    |    |   |
|    |  |                  |  | 00                    | 01 | 03 | 07 | 31 | 34 |   |
| 00 |  | WITHOUT COIL     |  |                       |    |    |    |    |    |   |
| OB |  | 12V DC           |  | X                     | X  | X  | X  | X  | X  | X |
| OC |  | 24V DC           |  | X                     | X  | X  | X  | X  | X  | X |
| AC |  | 27V DC           |  | X                     | X  |    | X  |    |    |   |
| OD |  | 48V DC           |  | X                     | X  |    |    |    |    |   |
| OV |  | 24 RAC (21.5 DC) |  | X                     | X  |    |    |    |    |   |
| OW |  | 110 RAC (98 DC)  |  | X                     | X  |    |    |    |    |   |
| OZ |  | 230 RAC (207 DC) |  | X                     | X  |    |    |    |    |   |

# VS 80 Series

## Coils



### COIL C48

J

1 \_

Weight : 0.500 kg. - Insulation Class: H

Working Duty: ED 100% only if the room temperature does not exceed 40°C.

Inlet voltage: should not exceed +5% / -10% of the nominal value.

Available voltages: Look at table. On request different voltages can be supplied.

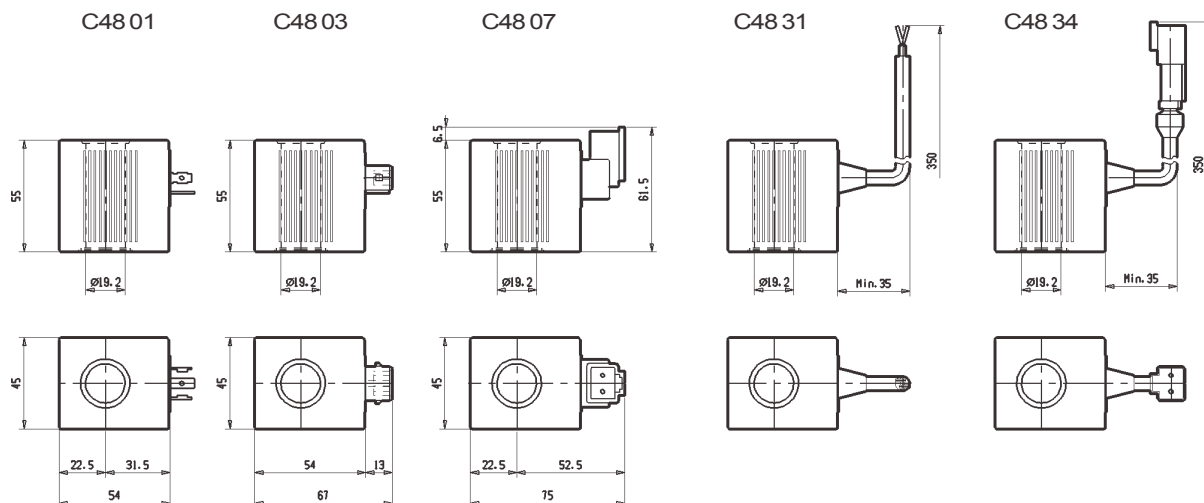
Low voltage: conforms to the 73/23/CEE and 89/336/CEE directives. Standard connections: DIN 43650-ISO 4400.

Versions with sheathed cables as well as with Deutsch and AMP JUNIOR connector are equipped with bi-directional diode.

Protection Class according to DIN 40050: only if the coil is assembled correctly with O'ring and retainer:

- IP65 with DIN 43650 connector, only if they are assembled with rubber sealings and the fixing screw is properly tightened.

- IP69k for versions with Deutsch connector.



| Reference   | Model                 | Connection           | Nominal voltage<br>volt | Marking  | Power<br>watt | Nominal current<br>ampere | Resistance<br># |        |
|-------------|-----------------------|----------------------|-------------------------|----------|---------------|---------------------------|-----------------|--------|
|             |                       |                      |                         |          |               |                           | ± 7%            | T=20°C |
| 271-0520    | C4801 12DC            | DIN 43650 - ISO 4400 | 12 DC                   | 12 VDC   | 36            | 3.01                      | 4,0             |        |
| 271-052000  | C4831 12DC            | CABLES               | 12 DC                   | 12 VDC   | 36            | 3.01                      | 4,0             |        |
| 271-052001  | C4834 12DC            | CABLES + DEUTSCH     | 12 DC                   | 12 VDC   | 36            | 3.01                      | 4,0             |        |
| 271-052004  | C4807 12DC            | DEUTSCH DT04-2P      | 12 DC                   | 12 VDC   | 36            | 3.01                      | 4,0             |        |
| 271-0520005 | C4803 12DC            | AMP JUNIOR           | 12 DC                   | 12 VDC   | 36            | 3.01                      | 4,0             |        |
| 271-0521    | C4801 24DC            | DIN 43650 - ISO 4400 | 24 DC                   | 24 VDC   | 36            | 1.53                      | 16,0            |        |
| 271-052005  | C4831 24DC            | CABLES               | 24 DC                   | 24 VDC   | 36            | 1.53                      | 16,0            |        |
| 271-052006  | C4834 24DC            | CABLES + DEUTSCH     | 24 DC                   | 24 VDC   | 36            | 1.53                      | 16,0            |        |
| 271-052009  | C4807 24DC            | DEUTSCH DT04-2P      | 24 DC                   | 24 VDC   | 36            | 1.53                      | 16,0            |        |
| 271-0520055 | C4803 24DC            | AMP JUNIOR           | 24 DC                   | 24 VDC   | 36            | 1.53                      | 16,0            |        |
| 271-052008  | C4807 27DC            | DEUTSCH DT04-2P      | 27 DC                   | 27 VDC   | 36            | 1.32                      | 20,5            |        |
| 271-05212   | C4801 27DC            | DIN 43650 - ISO 4400 | 27 DC                   | 27 VDC   | 36            | 1.32                      | 20,5            |        |
| 271-0522    | C4801 48DC            | DIN 43650 - ISO 4400 | 48 DC                   | 48 VDC   | 36            | 0.75                      | 63,6            |        |
| 271-0525    | C4801 230 - 50/60 RAC | DIN 43650 - ISO 4400 | 207 DC                  | 207 DC   | 36            | 0.17                      | 1163,0          |        |
| 271-0524    | C4801 110 - 50/60 RAC | DIN 43650 - ISO 4400 | 98 DC                   | 98 VDC   | 36            | 0.37                      | 261,0           |        |
| 271-0523    | C4801 24 - 50/60 RAC  | DIN 43650 - ISO 4400 | 21,5 DC                 | 21,5 VDC | 36            | 1.70                      | 12,0            |        |