



## Series 7

$C_v = .47 - .95$

## Solenoid and Air-Pilot Operated Valves

(VDMA 24563 )

ISO 15407-1, Size 26mm (size 01) and 18mm (size 02)

Side outlet manifold, Manifold assembly (non-plug-in)

5-way/2-position and 5-way/3-position



The Series 7 electropneumatically and pneumatically operated valves have been designed to comply with ISO 15407-1 (VDMA 24563) standards size 26mm (VDMA 01) and size 18mm (VDMA 02).

The electropneumatically operated valves have the following types of operation available:

- Air-Pilot, and air-spring return
- Air-Pilot operation and return



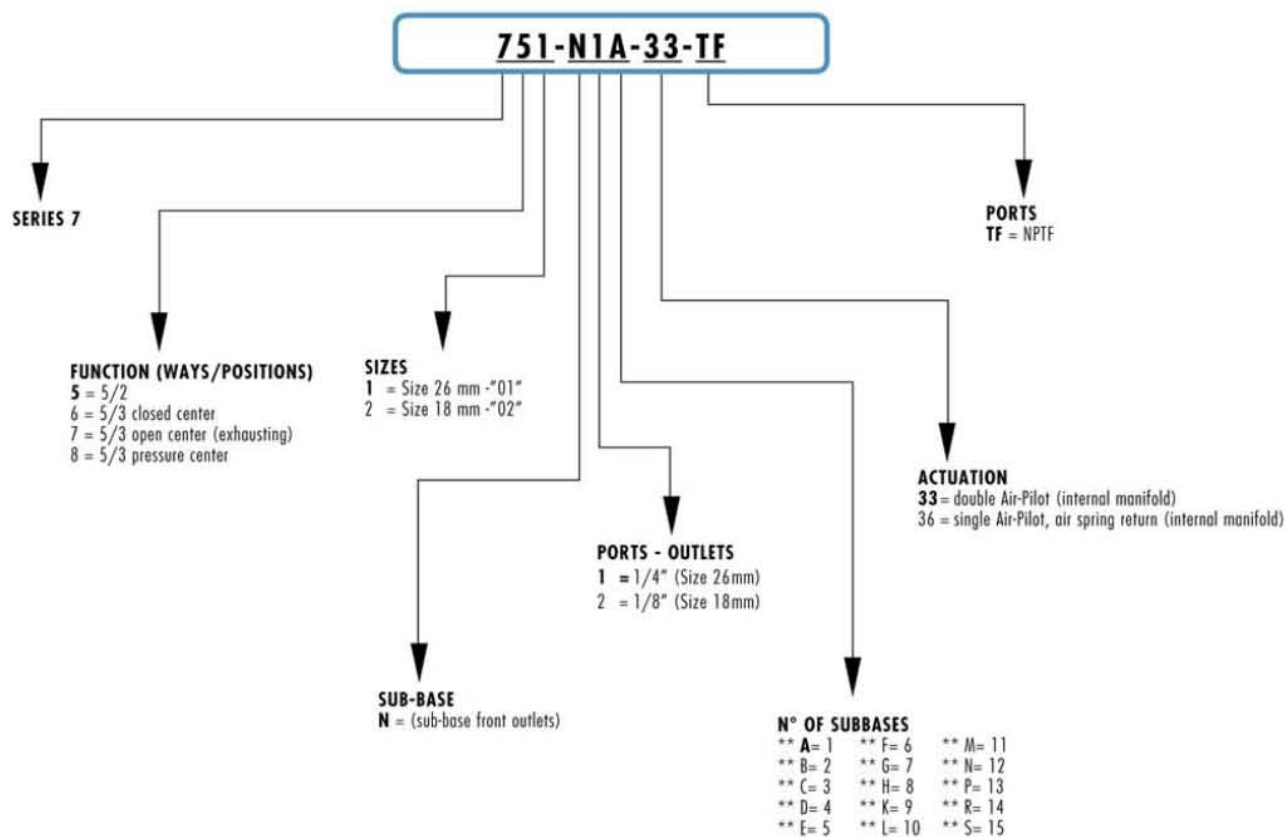
### TECHNICAL SPECIFICATIONS

|                       |                                                                    |
|-----------------------|--------------------------------------------------------------------|
| Construction          | Packed spool-type                                                  |
| Valve group           | 5-way/2-position, 5-way/3-position                                 |
| Materials             | Anodized aluminum body, spool, base nylon end covers, BUNA-N seals |
| Mounting              | through holes in valve body onto manifold segments                 |
| Operating temperature | 0° C min. +50° C max, (32°F — 122°F)                               |
| Lubricant             | without lubrication**                                              |
| Size                  | 26 mm - size VDMA 01; 18 mm - size VDMA 02                         |
| Installation          | in any position                                                    |

### PNEUMATIC DATA

|                    |                                                                                                       |
|--------------------|-------------------------------------------------------------------------------------------------------|
| Operating pressure | P: max 7 bar (102 psi). See tables for minimum operating pressures.                                   |
| Nominal pressure   | 6 bar - 87 psi (used for flow calculations)                                                           |
| Nominal flow       | *Qn Size 26 mm: 900 NL/min; 31.8 SCFM ; $C_v = .95$<br>Size 18 mm: 450 NL/min; 15.9 SCFM; $C_v = .47$ |
| Fluid              | filtered air (5 micron or less), without lubrication**                                                |

\*Qn = determined with supply pressure of 6 bar and with  $\Delta p = 1$  bar \*\* If lubricated air is used, it is recommended to use ISOVG32 oil and never to interrupt the lubrication.


**CODING OF VALVES AND SOLENOID VALVES SERIES 7 WITH SUB-BASES - (ORDERED SEPARATELY)**


\* on request only.

\*\* complete with the two end blocks.

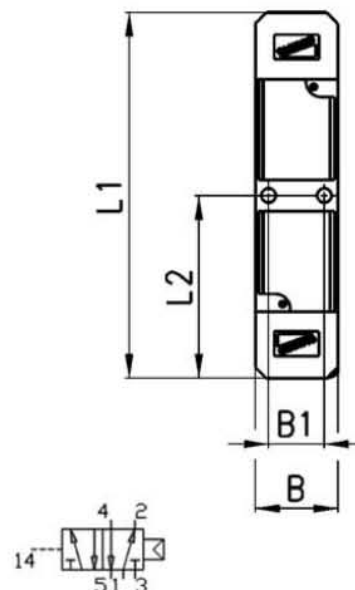
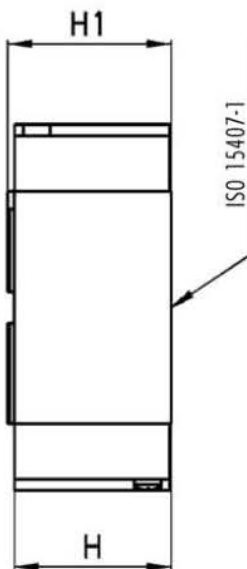

 $C_v = .47 - .95$ 
**5-way/2-position valves VDMA 01 - VDMA 02, Single Air-Pilot, Air-Spring Return**
 $C_v = .47 - .95$ 

The Series 7 solenoid valves with VDMA 01 - 02 interface which have Air-Pilot actuation and air-spring return, (via manifold porting) are suitable for mounting on a sub-base.

For the correct use of the valve, the pilot pressure must be the same or higher than the operating pressure.

The minimum operating pressure is 3 bar - 43.5 psi.

**Note:** Interface seals and fixing screws are packaged with the valve.


**DIMENSIONS**

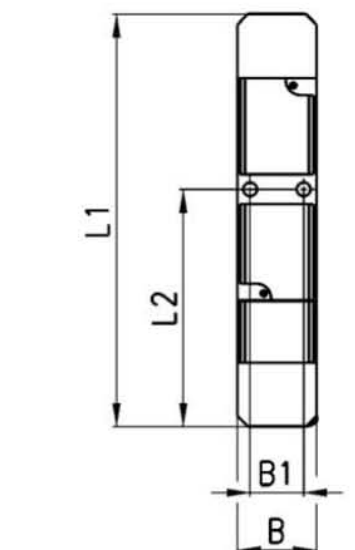
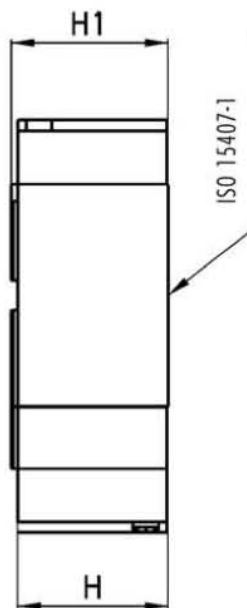
| Mod.              | Size<br>ISO | B    | B1   | L1   | L2    | H    | H1   |
|-------------------|-------------|------|------|------|-------|------|------|
| <b>751-000-36</b> | 01-26mm     | 26.5 | 19   | 99.7 | 49.85 | 39   | 40.5 |
| <b>752-000-36</b> | 02-18mm     | 18.5 | 12.5 | 82.2 | 41.1  | 35.2 | 36.7 |

**5-way/2-position valves VDMA 01 - VDMA 02, Double Air-Pilot**
 $C_v = .47 - .95$ 

The Series 7 solenoid valves with VDMA 01 - 02 interface which have Air-Pilot actuation and return (via manifold porting) are suitable for mounting on a sub-base.

The minimum operating pressure is 2 bar - 29 psi.

**Note:** Interface seals and fixing screws are packaged with the valve.


**DIMENSIONS**

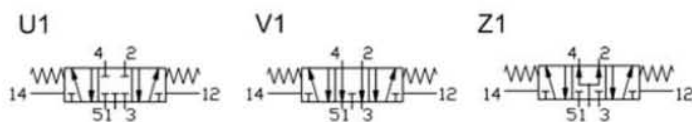
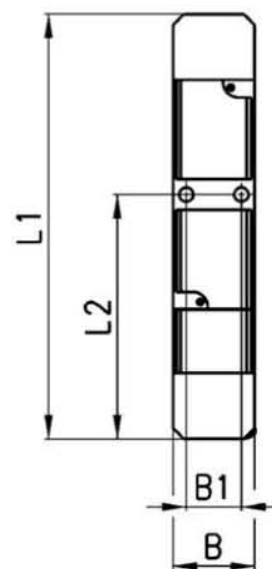
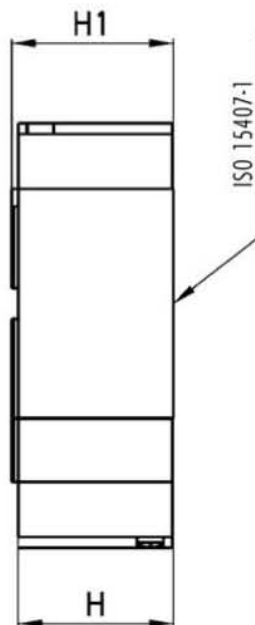
| Mod.              | Size<br>ISO | B    | B1   | L1   | L2    | H    | H1   |
|-------------------|-------------|------|------|------|-------|------|------|
| <b>751-000-33</b> | 01-26mm     | 26.5 | 19   | 99.7 | 49.85 | 39   | 40.5 |
| <b>752-000-33</b> | 02-18mm     | 18.5 | 12.5 | 82.2 | 41.1  | 35.2 | 36.7 |


 $C_v = .47 - .95$ 
**5-way/3-position valves ISO 26 mm - 18 mm, Double Air-Pilot, Spring Return to Center**
 $C_v = .47 - .95$ 

The Series 7 solenoid valves with VDMA 01 - 02 interface which have Air-Pilot actuation and mechanical spring return are suitable for mounting on a sub-base.

The minimum operating pressure is 3 bar - 43.5 psi.

**Note:** Interface seals and fixing screws are packaged with the valve.


**DIMENSIONS**

| Mod.              | Size<br>ISO | B    | B1   | L1    | L2    | H    | H1   | Min. operating<br>pressure | Symbol | Function |
|-------------------|-------------|------|------|-------|-------|------|------|----------------------------|--------|----------|
| <b>761-000-33</b> | 26 mm       | 26.5 | 19   | 117.7 | 61.85 | 39   | 40.5 | 3                          | U1     | CC       |
| <b>762-000-33</b> | 18 mm       | 18.5 | 12.5 | 96.7  | 55.6  | 35.2 | 36.7 | 3                          | U1     | CC       |
| <b>771-000-33</b> | 26 mm       | 26.5 | 19   | 117.7 | 61.85 | 39   | 40.5 | 3                          | V1     | CO       |
| <b>772-000-33</b> | 18 mm       | 18.5 | 12.5 | 96.7  | 55.6  | 35.2 | 36.7 | 3                          | V1     | CO       |
| <b>781-000-33</b> | 26 mm       | 26.5 | 19   | 117.7 | 61.85 | 39   | 40.5 | 3                          | Z1     | PC       |
| <b>782-000-33</b> | 18 mm       | 18.5 | 12.5 | 96.7  | 55.6  | 35.2 | 36.7 | 3                          | Z1     | PC       |

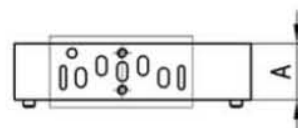
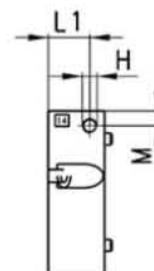
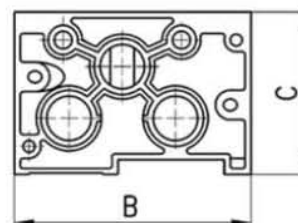
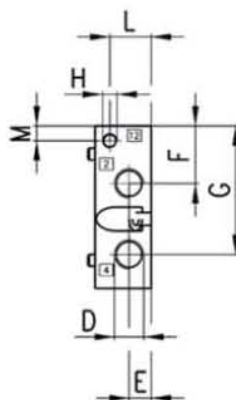
**3**
**AIR PILOT VALVES**





Manifold bases with common inlet and exhaust ports and with outlet ports on the front

**Note:** complete with screws and seal.

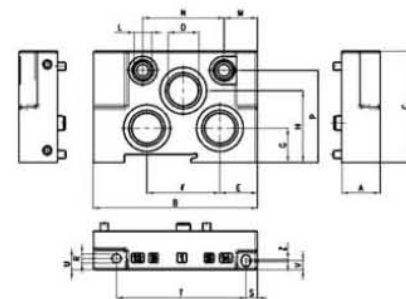
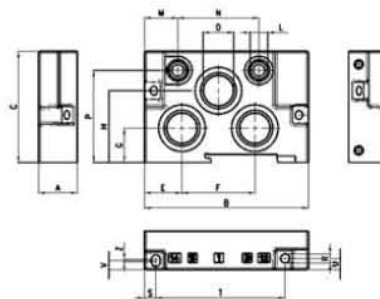


#### DIMENSIONS

|                   |                                   | NPTF     |    |     |    |     |     |      |      |    |      |      |     |
|-------------------|-----------------------------------|----------|----|-----|----|-----|-----|------|------|----|------|------|-----|
| Mod.              |                                   | Size ISO | A  | B   | C  | D   | E   | F    | G    | H  | L    | L1   | M   |
| <b>701C-N1ATF</b> | for sub-base with separate pilots | 26 mm    | 27 | 107 | 65 | 1/4 | 11  | 23   | 53   | M5 | 20.7 | 20.7 | 6.5 |
| <b>702C-N2ATF</b> | for sub-base with separate pilots | 18 mm    | 19 | 81  | 55 | 1/8 | 7.5 | 19.5 | 44.5 | M5 | 13   | 6    | 7   |
| <b>701C-N1CTF</b> | for manifold pilot side ported    | 26 mm    | 27 | 107 | 65 | 1/4 | 11  | 23   | 53   | M5 | 20.7 | 20.7 | 6.5 |
| <b>702C-N2CTF</b> | for manifold pilot side ported    | 18 mm    | 19 | 81  | 55 | 1/8 | 7.5 | 19.5 | 44.5 | M5 | 13   | 6    | 7   |

End blocks for manifold bases with common inlet and exhaust ports

**Note:** complete with screws and seal.



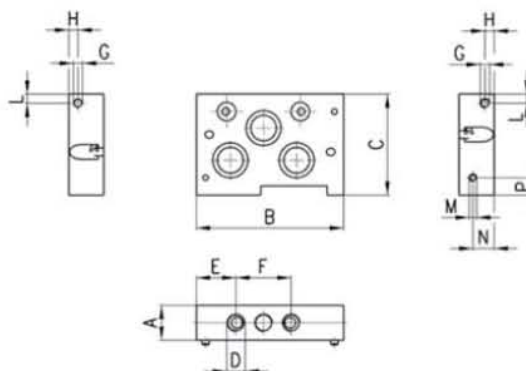
#### DIMENSIONS

|                     |          | NPTF |     |    |      |      |    |      |      |     |      |    | NPTF |     |      |       |     |      |     |  |  |  |  |
|---------------------|----------|------|-----|----|------|------|----|------|------|-----|------|----|------|-----|------|-------|-----|------|-----|--|--|--|--|
| Mod.                | Size ISO | A    | B   | C  | D    | E    | F  | G    | H    | L   | M    | N  | P    | R   | S    | T     | U   | V    | Z   |  |  |  |  |
| <b>701C - HN1TF</b> | 25 mm    | 27   | 107 | 65 | 1/2" | 23   | 60 | 24.5 | 43   | 1/8 | 21.5 | 58 | 55.5 | 4.5 | 7.5  | 61.5  | 6   | 6.2  | 4   |  |  |  |  |
| <b>702C - HN2TF</b> | 18 mm    | 19   | 81  | 55 | 3/8" | 18.5 | 36 | 17   | 35.5 | 1/8 | 16.5 | 40 | 45.5 | 4.5 | 4.65 | 63.85 | 5.5 | 4.35 | 1.3 |  |  |  |  |


**3**
**AIR PILOT VALVES**

Supply unit for manifold bases, (for auxillary pressure supply or different pressure zones) with common inlet and exhaust ports

**Note:** complete with screws and seal.


**DIMENSIONS**

| NPTF              |          |    |     |    |     |      |    |    |     |    |    |      |     |
|-------------------|----------|----|-----|----|-----|------|----|----|-----|----|----|------|-----|
| Mod.              | Size ISO | A  | B   | C  | D   | E    | F  | G  | H   | L  | M  | N    | P   |
| <b>701C-N1NTF</b> | 26 mm    | 27 | 100 | 65 | 1/4 | 27   | 38 | M5 | 6.5 | 10 | M4 | 10   | 10  |
| <b>702C-N2NTF</b> | 18 mm    | 19 | 80  | 55 | 1/8 | 21.5 | 30 | M5 | 5   | 5  | M4 | 11.5 | 9.5 |

Diaphragm for manifold bases with common inlet and exhaust ports and with outlet ports on the front

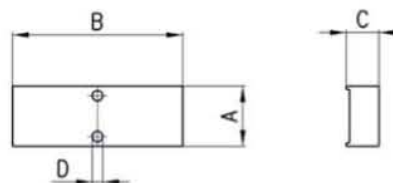
Blocking Disc


**DIMENSIONS**

| Mod.               | Size       |
|--------------------|------------|
| <b>701C-N1A-TP</b> | 01 (26 mm) |
| <b>702C-N2A-TP</b> | 02 (18 mm) |

Excluder tap - blanking plate for manifold bases

**Note:** complete with screws and seal.


**DIMENSIONS**

| Mod.          | Size ISO | A    | B    | C  | D   |
|---------------|----------|------|------|----|-----|
| <b>701-TP</b> | 26 mm    | 26.5 | 61.7 | 10 | 4.2 |
| <b>702-TP</b> | 18 mm    | 18.5 | 52.2 | 10 | 3.2 |

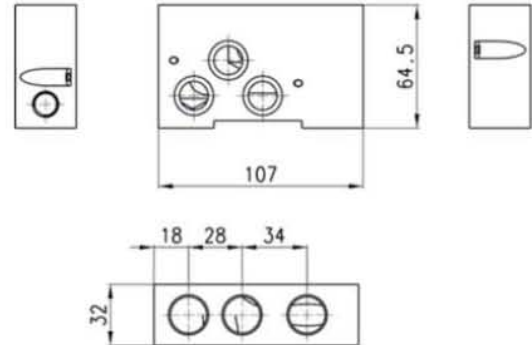


3

AIR PILOT VALVES

Interfacd ISO 01 / ISO 02 - adapter: from 26mm (01) to 18mm (02)

The following is supplied:  
N° 1 top S2610 3/8  
N° 5 OR  
N° 2 screws



Mod.

**701C-702C-A-TF**