

Series VT307

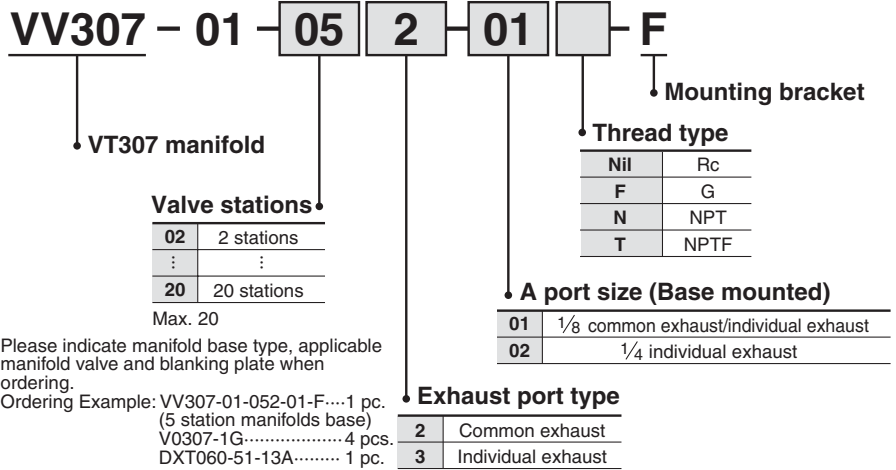
Manifold Specifications

VT307 manifold is B mount style and available both as a common exhaust and individual exhaust model.

Manifold valve can be easily converted from N.C. (Normally Closed) to N.O. (Normally Open) merely by turning over the switch cover.



How to Order Manifold



V100

SY

SYJ

VK

VZ

VT

VP

VG

VP

S070

VQ

VKF

VQZ

VZ

VS

VFN

Manifold Specifications

| Manifold type | B mount | | | |
|---------------------------|------------------------------|-------------------------------------|-------------|-------------|
| Max. number of stations | 20 stations ^{Note)} | | | |
| Applicable solenoid valve | VO307□-□□□ | | | |
| Exhaust port | | Port location (Direction)/Port size | | |
| Symbol | Type | P | A | R |
| 2 | Common | Base (Side) | Base (Side) | Base (Side) |
| | | 1/8 | 1/8 | 1/8 |
| 3 | Individual | Base (Side) | Base (Side) | Base (Top) |
| | | 1/4 | 1/8, 1/4 | 1/8 |

Note) For more than 6 stations, supply air both sides of P port. The common exhaust type should exhaust from both of the R port.

Option

| Description | Part no. |
|--|-----------------------------|
| Blanking plate (With gasket, screw) ^{Note)} | DXT060-51-13 ^{A B} |

Accessory for Applicable Solenoid

| Description | Part no. | Qty. |
|---|----------------------------|--------|
| Function plate (With gasket) ^{Note)} | DXT152-14-1 ^{A B} | 1 pc. |
| Mounting screw | NXT013-3 | 2 pcs. |

Note) DXT060-51-13B, DXT152-14-1B are for energizing continuously.

Flow Characteristics/Weight

| Valve model | Flow characteristics | | | | | | | | | | | | Weight Grommet |
|---|------------------------------|------|-------|------------------------------|------|-------|------------------------------|------|-------|------------------------------|------|-------|-------------------|
| | 1 → 2 (P → A) | | | 2 → 3 (A → R) | | | 3 → 2 (R → A) | | | 2 → 1 (A → P) | | | |
| | C [dm ³ /(s·bar)] | b | Cv | C [dm ³ /(s·bar)] | b | Cv | C [dm ³ /(s·bar)] | b | Cv | C [dm ³ /(s·bar)] | b | Cv | |
| VO307 | 0.34 | 0.28 | 0.089 | 0.34 | 0.22 | 0.082 | 0.36 | 0.28 | 0.091 | 0.34 | 0.18 | 0.080 | 0.14 kg |
| VO307V (Vacuum spec. type) | | | | | | | | | | | | | |
| VO307E (Continuous duty type) | | | | | | | | | | | | | |
| VO307Y (Energy-saving type) | | | | | | | | | | | | | |
| VO307W (Energy-saving, Vacuum spec. type) | 0.30 | 0.18 | 0.070 | 0.30 | 0.15 | 0.072 | 0.32 | 0.20 | 0.075 | 0.30 | 0.15 | 0.069 | |

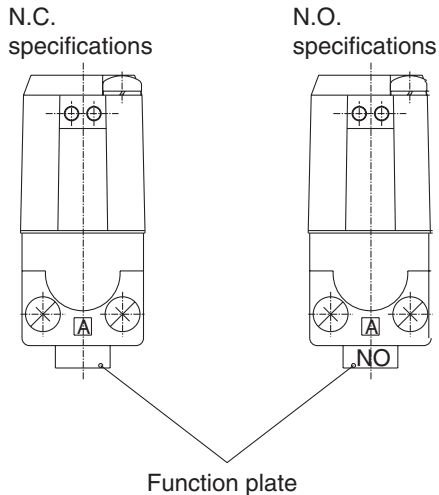
⚠ Precautions

Be sure to read before handling. For Safety Instructions and Solenoid Valve Precautions, refer to page 4-18-2.

Mounting

⚠ Warning

When mounting a valve on the manifold base, N.C. and N.O. can be reversed by a function plate orientation. Also, since cylinder also acts reversely, confirm if the function plate is correctly mounted or not.



⚠ Caution

1. Each valve is fixed to the manifold base with two M4 mounting screws. Tighten the screws evenly when re-mounting.
2. For mounting, tighten M4 or equivalent screws evenly into the mounting holes of the manifold base. Tightening torque of the mounting screw (M4): 1.4 N·m

Port Direction

⚠ Caution

1. For the common exhaust type, pressurization or evacuation of the R port can cause a malfunction.

Changing from N.C. to N.O.

⚠ Caution

This product is delivered as N.C. valve. If N.O. valve is needed, remove mounting screws of the required valve and turn over the function plate. (Make sure that there are gaskets on both sides of the plate.) Then, tighten the mounting screws to fix the valve to the manifold base.

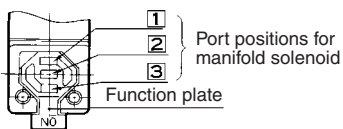


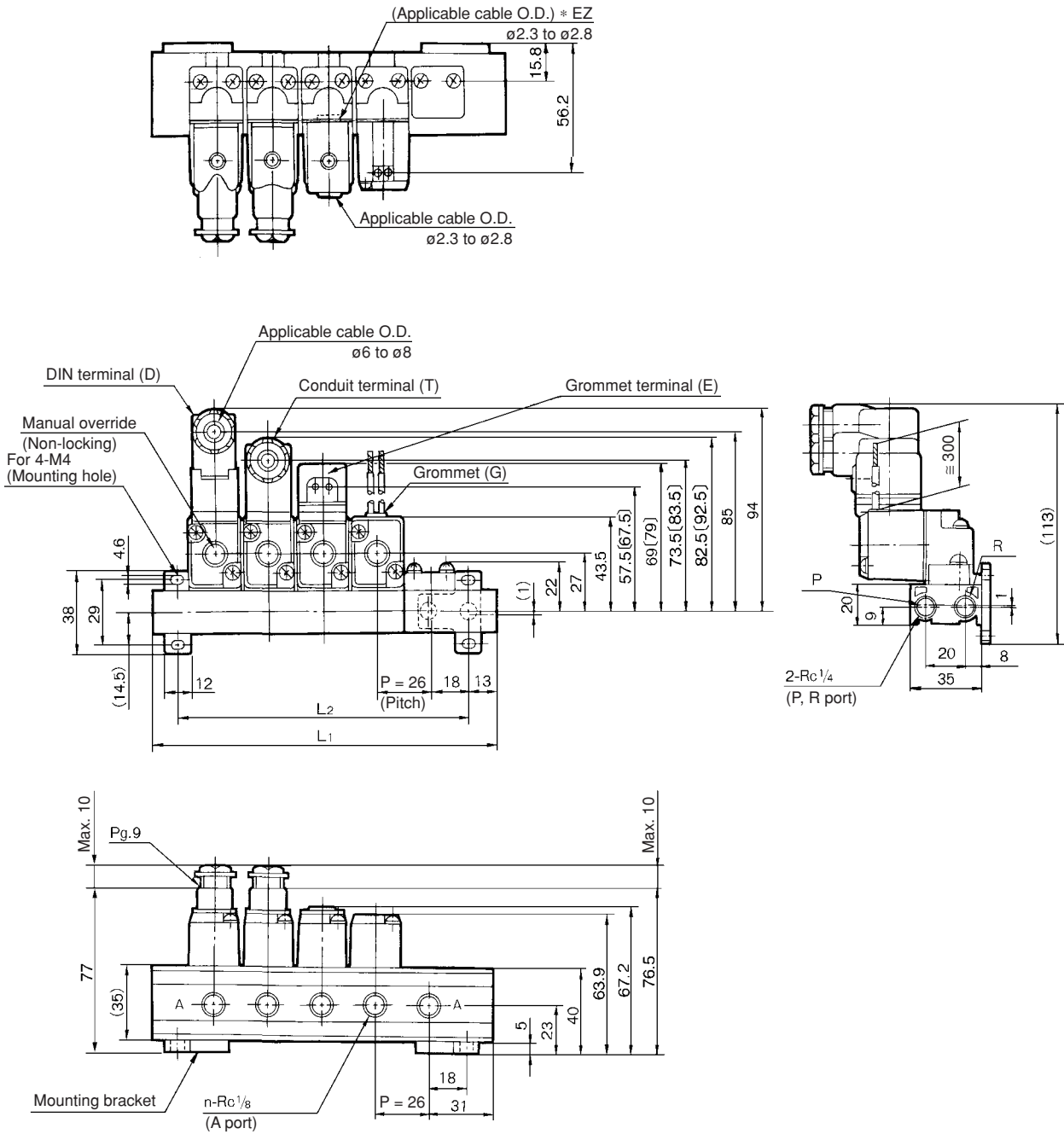
Figure: For N.C.

| Specifications | Function plate |
|----------------|----------------|
| N. C. | No mark |
| N. O. | NO |

3 Port Direct Operated Poppet Solenoid Valve Rubber Seal Series **VT307**

Dimensions: Common Exhaust (Interchangeable with VT301 for mounting)

VV307-01-□2-01-F



- V100
- SY
- SYJ
- VK
- VZ
- VT**
- VP
- VG
- VP
- S070
- VQ
- VKF
- VQZ
- VZ
- VS
- VFN



[]: With light/surge voltage suppressor

L Dimension

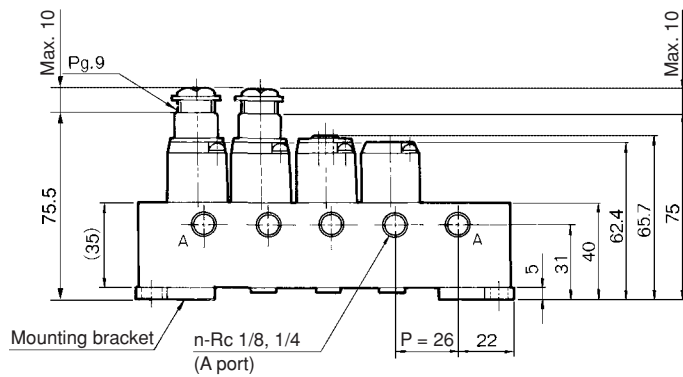
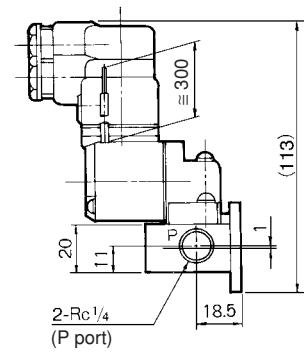
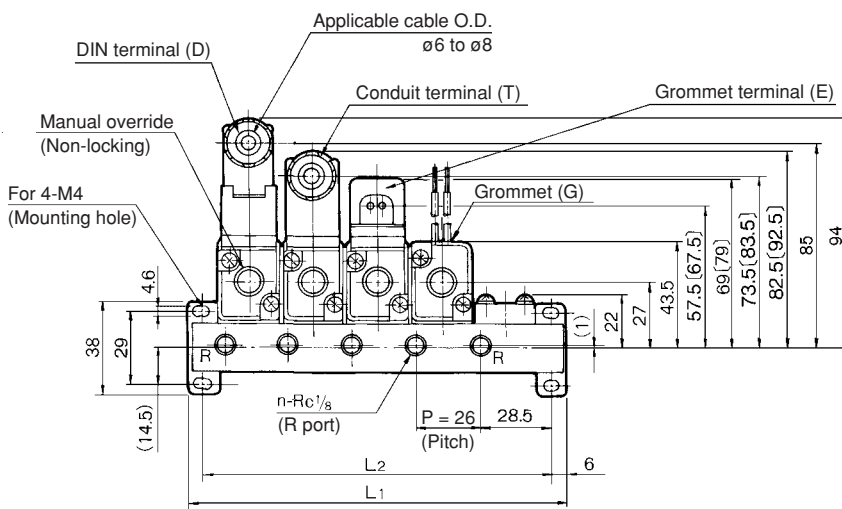
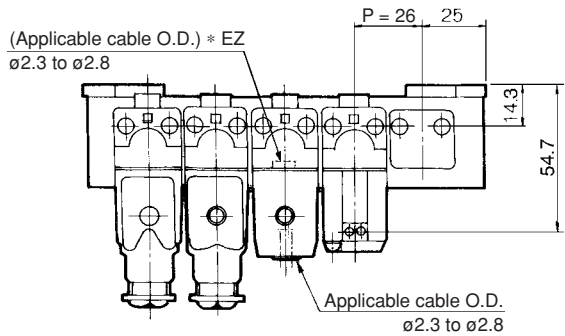
n: Stations

| L | n | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Formula |
|----------------|---|----|-----|-----|-----|-----|-----|-----|-----|-----|------------------------------|
| L ₁ | | 88 | 114 | 140 | 166 | 192 | 218 | 244 | 270 | 296 | L ₁ = 26 x n + 36 |
| L ₂ | | 62 | 88 | 114 | 140 | 166 | 192 | 218 | 244 | 270 | L ₂ = 26 x n + 10 |

Series VT307

Dimensions: Individual Exhaust (Interchangeable with VT301 for mounting)

VV307-01-□3-□-F



L Dimension

n: Stations

| Stations | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Formula |
|----------------|----|-----|-----|-----|-----|-----|-----|-----|-----|------------------------------|
| L ₁ | 76 | 102 | 128 | 154 | 180 | 206 | 232 | 258 | 284 | L ₁ = 26 x n + 24 |
| L ₂ | 64 | 90 | 116 | 142 | 168 | 194 | 220 | 246 | 272 | L ₂ = 26 x n + 12 |



[]: With light/surge voltage suppressor