

3 Port Air Operated Valve

Series VGA342



Specifications

| | |
|--------------------------------------------|--------------------------------------------------------------|
| Operating style | Air operated style |
| Actuation style | NC/NO (Changeable) |
| Return style | Air+Spring |
| Fluid | Air |
| Operating pressure range | 0.2 to 0.9MPa |
| Pilot pressure | Same as operating pressure |
| Ambient and fluid temperature | Max 50°C |
| Lubrication | Not required (Use turbin oil class 1 ISOVG32 if lubricating) |
| Impact/Vibration resistance ⁽¹⁾ | 150/50 m/s ² |



Note 1) Impact resistance: No malfunction occurs on the test using dropping impact tester, to axis and right angle directions of main valve each time when energized and deenergized. (Value in the initial stage.)

Vibration resistance: No malfunction occurs on the test with from 45 to 1000Hz, one sweep, to axis and right angl directions of main valve each time when energized and de-energized. (Value in the initial stage.)

JIS symbol

N.C.

N.O.

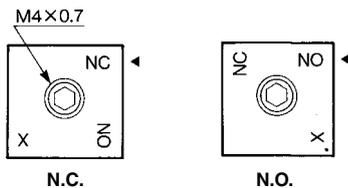


⚠️ Precautions

Be sure to read before handling.
Refer to p.0-33 to 0-36 for
Safety Instructions and
common precautions.

⚠️ Caution

① Change of fluid passage



Please note that the pressure in the valve should be exhausted when changing the fluid passage.
Loosen the hexagon socket head cap screw M4X0.7.
Rotate the NC/NO switching plate and adjust the desired passage NO/NC to ◀ symbol on the adapter plate.
However, X symbol at the corner is not applicable. For the piping, follow to the table below.

Piping

| Fluid passage | Port | P | A | R |
|---------------|------|-------------------------|----------------|-------------------------|
| N.C. | | Supply side | Secondary side | EXH side (2 port: Plug) |
| N.O. | | EXH side (2 port: Plug) | Secondary side | Supply side |

② Others

M5 size hole at the left side of the adopter plate is bleed port for spool valve. Do not plug or tighten it.

Effective Area

| Port size | Effective area (mm ²) | Rc(PT) 1/2 | Rc(PT) 3/4 | Rc(PT) 1 |
|---------------|-----------------------------------|------------|------------|----------|
| | | P→A | 140 | 185 |
| | A→R | 145 | 195 | 235 |
| Flow (Nl/min) | P→A | 7655.70 | 10109.45 | 10430.55 |
| | A→R | 7950.15 | 10600.20 | 11678.65 |

How to Order

VGA342-04 [] A

Port size

- 04 — Rc(PT) 1/2
- 06 — Rc(PT) 3/4
- 10 — Rc(PT) 1

Port thread

- (Standard) — Rc(PT)
- (Option)
 - F — G(PF)
 - N — NPT
 - T — NPTF

Fluid passage

- A — Normally closed (N.C.)
- B — Normally open (N.O.)

Dimensions

