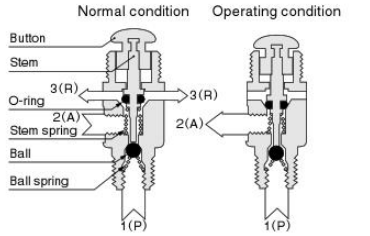
# TAC

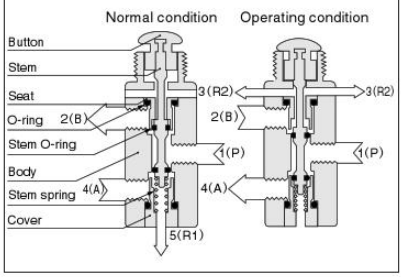
## Basic Valves (Push Button Type Valves)

### Operating principles

**3-port (3P)**

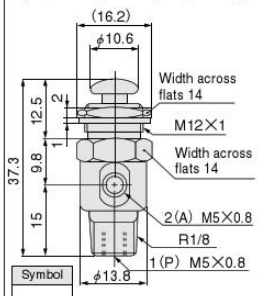



**5-port (4P)**



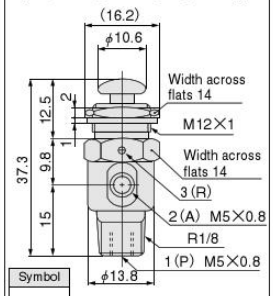

### Dimensions (mm)

Model
**2P**
2-port, normally closed spring return type



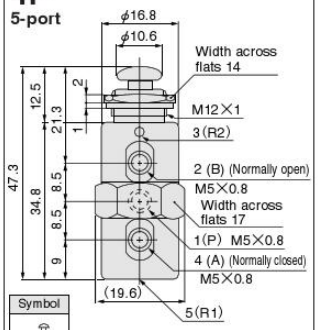

Note: Cannot be used as a normally open type.

Model
**3P**
3-port, normally closed spring return type



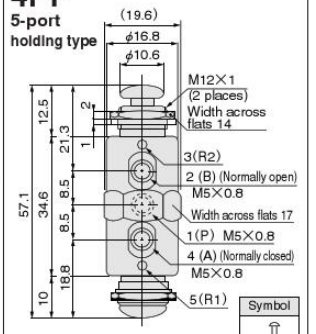

Note: Cannot be used as a normally open type.

Model
**4P**
5-port




Note : With the B port or A port being plugged, the unit can be used as a 3-port normally closed or normally open type valve.

Model
**4PP**
5-port holding type




Note : With the B port or A port being plugged, the unit can be used as a 3-port normally closed or normally open type.

### Major parts and materials

Body ·····Brass (nickel plated)
Stem ·····Stainless steel
O-ring·····Synthetic rubber

### Minimum operating force of push button

N [lbf]

| Type \ Air pressure MPa | 0.2 [29psi.] | 0.4 [58psi.] | 0.7 [102psi.] |
|---|---|---|---|
| 2P | 29.4 [6.61] (19.6 [4.41]) | 44.1 [9.91] (21.6 [4.86]) | 63.7 [14.32] (23.5 [5.28]) |
| 3P | 19.6 [4.41] | 24.5 [5.51] | 29.4 [6.61] |
| 4P | 19.6 [4.41] | 21.6 [4.86] | 23.5 [5.28] |
| 4PP | 4.9 [1.10] | 5.9 [1.33] | 6.9 [1.55] |

Notes: 1. Figures in parentheses ( ) are for when the 2(A) port is open to the atmosphere.
2. For the operating force while used in combination with operators, see the pages of each operator.

### Specifications

| Item \ Model | 2P | 3P | 4P | 4PP |
|---|---|---|---|---|
| Operation type | Push button spring return | | | Double push button holding type |
| Number of ports | 2 (Normally closed) | 3 (Normally closed) | 5 | |
| Port size | M5×0.8 | | | |
| Media | Air | | | |
| Operating pressure range MPa {kgf/cm²} [psi.] | 0～0.9 {0～9.2} [0～131] | | | |
| Proof pressure MPa {kgf/cm²} [psi.] | 1.35 {13.8} [196] | | | |
| Operating temperature range (atmosphere and media) °C [°F] | 0～60 [32～140] | | | |
| Effective area mm² | 1.8 | | 2.5 | |
| Flow coefficient Cv | 0.08 | | 0.12 | |
| Mounting direction | Any | | | |
| Maximum operating frequency Hz | 5 | | | |
| Valve stroke mm [in.] | 2.4 [0.094] (Pre-stroke 0.8 [0.031] / Main stroke 0.8 [0.031] / Over stroke 0.8 [0.031]) | | | |
| Lubrication | Required {Turbine Oil Class 1 [ISO VG32] or equivalent} | | | |
| Mass g [oz.] | 35 [1.23] | 30 [1.06] | 66 [2.33] | 71 [2.50] |
| Standard accessories Lock nut (110-21A) Lock washer (100-35) | 1 pc. each | | | 2 pcs. each |