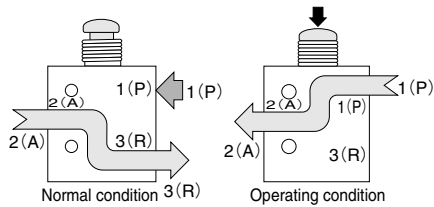


TAC²

Operating principles

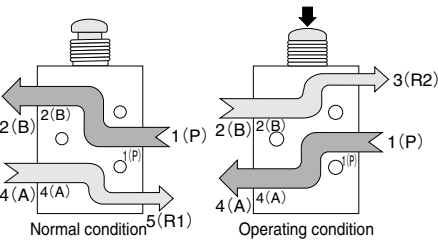
All ports can be used to allow flows in the reverse direction.

3-port 31P



※ When used as a 3-port normally closed type

5-port 41P

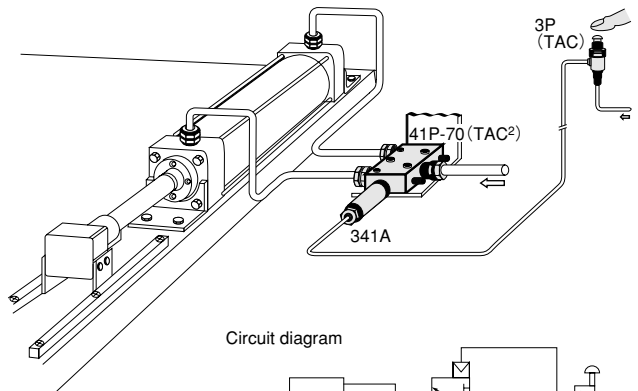


● When used as a 5-port valve

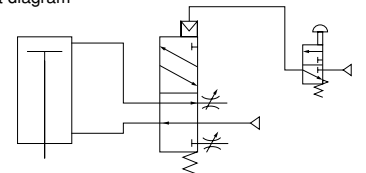
Specifications

Media		Air
Operating pressure range	MPa {kgf/cm ² } [psi.]	0.05~0.9 {0.5~9.2} [7~31] (For pilot pressure, see the numeric values of each operator)
Proof pressure	MPa {kgf/cm ² } [psi.]	1.35 {13.8} [196]
Effective area	mm ²	5.5
Flow coefficient	Cv	0.27
Air flow rate (at 0.7MPa [102psi.])	ℓ / min [ft ³ /min.] (ANR)	Approximately 500 [17.7]
Operating temperature range (atmosphere and media)	°C [°F]	0~60 [32~140]
Maximum operating frequency	Hz	5
Valve stroke	mm [in.]	2.4 [0.094] $\left(\begin{array}{l} \text{Pre-stroke 0.8 [0.031]} \\ \text{Main stroke 0.8 [0.031]} \\ \text{Over stroke 0.8 [0.031]} \end{array} \right)$
Lubrication		Required (Turbine Oil Class 1 (ISO VG32) or equivalent)
Port size		Rc1/8 female thread (3(R2), 5(R1) port of 5-port valve: M5×0.8)
Materials	Body Stem	Aluminum alloy (electroless nickel plating) (Stem of 31V, 41V : Stainless steel)
	O-ring	Synthetic rubber

Application example

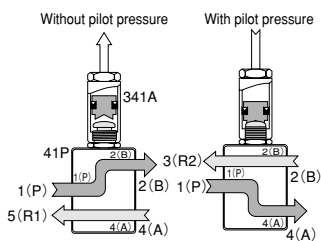


Circuit diagram

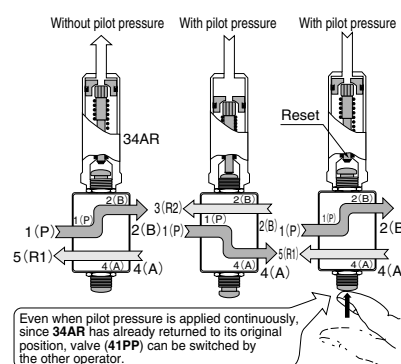


Example of valve and operator combination, and its operation

41P, 341A



41PP, 34AR (self return type)



While the 34AR operates immediately after receiving pilot pressure, it returns to its original position after 0.3~0.5 second.

Note: Ensure that adequately large flow rate of pilot air is applied to 34AR. (Do not supply flows gradually.)

Even when pilot pressure is applied continuously, since 34AR has already returned to its original position, valve (41PP) can be switched by the other operator.