

Valve Built-in Connector

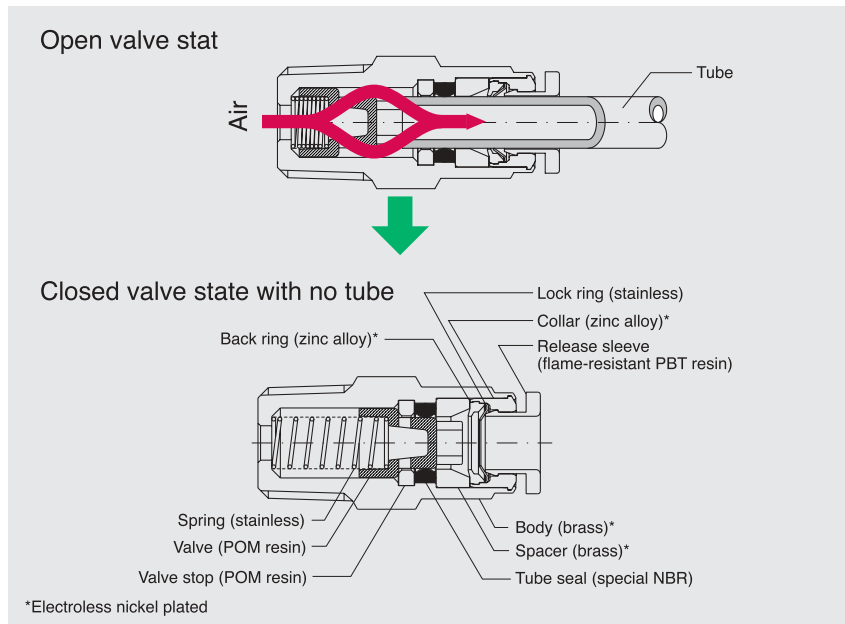
PushOne® Type

Features

- Valve inside fitting is opened/closed by attaching/detaching tube
The valve is automatically closed by detaching the tube.
- PushOne® connection of tube
Jigs and tools are not required for connecting the tubes.
- Electroless nickel plated
Preventing degradation of surface and dissolution of copper ions into fluid
- Sealing-processed R thread.
Sealing tape is not required.



Cross-sectional structure diagram



Operating fluid, working temperature range

Operating fluid	Working temperature range
Air	+20°C~+60°C

Pressure condition

Maximum working pressure: 1.0MPa

Handling instructions

- ⚠ **Caution** When the working conditions of tubes and fittings differ, use them under the lower specified conditions.
 - ⚠ **Caution** Cannot be used at a negative pressure.
 - ⚠ **Caution** Detach tube when it is unpressurized.
 - ⚠ **Caution** Do not bend the pipe sharply near the tube insertion port (sleeve end) of the fitting. Keep the tube straight for twice as long as the tube diameter from the insertion port.
- 👉 See page142 for the common handling instructions for control, switch and detachable series products.

Applicable tube

Polyurethane tube	Nylon tube	Flame-resistant tube	Polyolefine resin tube	Fluorocarbon resin tube
U2...P.12 U1...P.13 U5...P.14	N2...P.15 N5...P.16 N1...P.17	FS...P.20 FW...P.21 FWU...P.22	PL...P.26 PN...P.27	TA...P.28 TP...P.29

(*1) Combinatory use of PL, PN, TA or TP tube and valve built-in connector mixes general and clean type performances.
When using them in a clean environment, pay attention to the clean level that could be lowered.

Connector

●Millimeter size type



Product number	Applicable tube outer diameter (mm)	T Thread size (M,R)	L (mm)	A (mm)	F Tube insertion length (mm)	H×φ Width across flat (mm)	D (mm)	d ₁ (mm)	Effective cross-sectional area (mm ²)	Weight (g)
ECV4-M5	4	M5×0.8	32.6	4.0	16	10.0×11.0	10.0	2.0	2.0	11.0
ECV6-PT1/8	6	R1/8	40.4	8.0	17	14.0×15.4	13.0	4.0	6.5	26.0
ECV6-PT1/4	6	R1/4	31.4	11.0	17	14.0×15.4	13.0	4.0	6.5	21.0

