



Pneumatic, Vacuum and Auxiliary Components
Catalog No. CB-024SA

Quick valve

2QV/3QV-FP1 Series

- Port size: Push-in fitting $\varnothing 4, \varnothing 6, \varnothing 8, \varnothing 10, \varnothing 12$

JISCode



Features

- Straight flow path and large effective sectional area.
- Flame-resistant resin has been adopted as a standard material. (UL94 Standards V-0 equivalent)
- Manifold enabled by optional bracket.
- 2-port valve, 3-port valves are available.

Specifications

Item	2QV/3QV
Working fluid	Air
Max. working pressure MPa	1.0
Min. working pressure kPa	-100 (*1)
Proof pressure MPa	1.5
Fluid temperature °C	0 to 60
Ambient temperature °C	0 to 60
Switching angle °	90
Tube used	Soft nylon tube (tube F-15**) Urethane tube (tube U-95**, NU-**)
Mounting orientation	Arbitrary

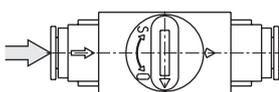
*1: When using a urethane tube (U-95**, NU-**) under vacuum, use an insert ring.

*2: Lubricant is used, so oil-prohibited specification is not available.

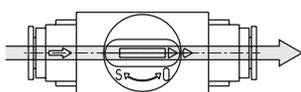
Operational explanation

- 2-port valve (2QV Series)

[Closed state]

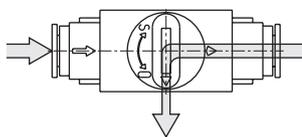


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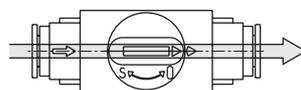


- 3-port valve (3QV Series)

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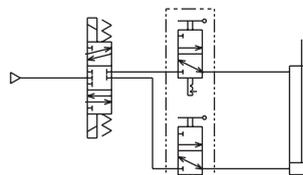


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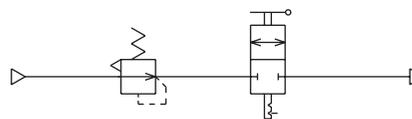
Applications

- Residual pressure exhaust valve in the air cylinder circuit



Quick valve (3QV)

- Stop valve in air blow circuit



Quick valve (2QV)

How to order

● Quick valve

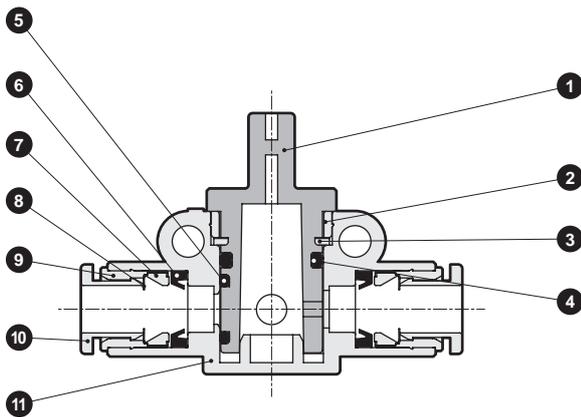
2 QV - **04-04** - FP1

A Valve

B Port size
(PPo-)-(APo-)

Code	Description
A Valve type	
2	2-way valve
3	3-way valve
B Port size (PPo-)-(APo-)	
	IN side - OUT side
04-04	Push-in fitting ø4 - Push-in fitting ø4
06-06	Push-in fitting ø6 - Push-in fitting ø6
08S-08S	Push-in fitting ø8 - Push-in fitting ø8
08-08	Push-in fitting ø8 - Push-in fitting ø8
10-10	Push-in fitting ø10 - Push-in fitting ø10
12-12	Push-in fitting ø12 - Push-in fitting ø12

Internal structure and parts list



Parts list

Part No.	Part name	Material
1	Rotary shaft	PBT (UL94 or V-0 equivalent)
2	Stopper	Copper alloy (electroless nickeling treatment) *1
		Stainless steel *2
3	Ring	Steel
4	O-ring	Nitrile rubber
5	O-ring	Nitrile rubber
6	Packing	Nitrile rubber
7	Chuck holder	Polyetherimide
8	Chuck	Stainless steel
9	Outer ring	Copper alloy (electroless nickeling treatment)
10	Push ring	PBT (UL94 or V-0 equivalent)
11	Body	PBT (UL94 or V-0 equivalent)

*1: Dimensions port sizes 04-04, 06-06, 08S-08S models are available.

*2: Dimensions port sizes 08-08, 10-10, 12-12 models are available.

For dimensions, refer to the 2QV/3QV Series in "Pneumatic, Vacuum and Auxiliary components (CB-024SA)".

FP1

FP2

Electric actuator

Pneumatic cylinders

Assistive device

Pneumatic valves

FR/L Auxiliary Components

Electronic Component

Vacuum components

Main line components

Fluid control valves

Main line components

Anti-bacterial/ bacteria-removing filter

Vacuum components

Fluid control valves