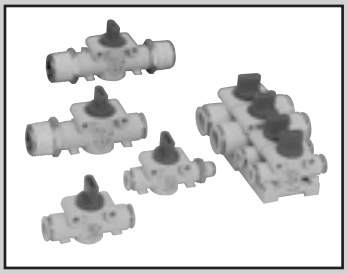
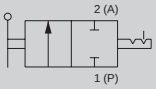


Quick valve

2QV Series

JIS symbol



Specifications

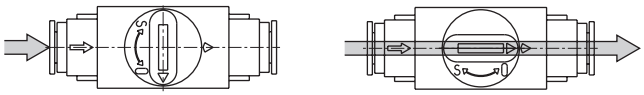
Descriptions		2QV
Working fluid		Air
Max. working pressure	MPa	1.0
Min. working pressure	kPa	-100 kPa (*1)
Proof pressure	MPa	1.5
Fluid temperature	°C	0 to 60
Ambient temperature	°C	0 to 60
Switching angle	°	90
Applicable tube		Urethane tube (tube U-95**, NU-**)
Mounting orientation		Free

*1: When using urethane tube (U-95**, NU-**) at vacuum, use an insert ring.
*2: Lubricant is used, so oil-prohibited specification is not available.

Operational explanation

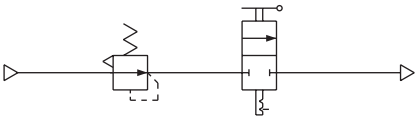
● 2 port valve (2QV Series)

[Closed state] [Open state]



Examples

● Stop valve in air blow circuit



Quick valve (2QV)

How to order

● Quick valve

2 QV - 04-04 - P70

Ⓐ Valve

Ⓑ Port size (P port) - (A port)

Ⓒ Clean room specifications

Code	Content
Ⓐ Valve	
2	2 way valve

	Ⓑ Port size (P port) - (A port)				Bracket (*1)
		IN side	-	OUT side	
Standard	**04-04**	Push-in fitting ø4	-	Push-in fitting ø4	2QV-P1-P70
	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	2QV-P2-P70
	10-10	Push-in fitting ø10	-	Push-in fitting ø10	
	12-12	Push-in fitting ø12	-	Push-in fitting ø12	
Option	**6A-04**	R1/8 (*2)	-	Push-in fitting ø4	2QV-P1-P70
	6A-06	R1/8 (*2)	-	Push-in fitting ø6	
	8A-06	R1/4 (*2)	-	Push-in fitting ø6	
	8A-08S	R1/4 (*2)	-	Push-in fitting ø8	
	10A-08	R3/8 (*2)	-	Push-in fitting ø8	2QV-P2-P70
	10A-10	R3/8 (*2)	-	Push-in fitting ø10	
	15A-10	R1/2 (*2)	-	Push-in fitting ø10	
	15A-12	R1/2 (*2)	-	Push-in fitting ø12	
	04-6A	Push-in fitting ø4	-	R1/8 (*2)	2QV-P1-P70
	06-6A	Push-in fitting ø6	-	R1/8 (*2)	
	06-8A	Push-in fitting ø6	-	R1/4 (*2)	
	08S-8A	Push-in fitting ø8	-	R1/4 (*2)	
	08-10A	Push-in fitting ø8	-	R3/8 (*2)	2QV-P2-P70
	10-10A	Push-in fitting ø10	-	R3/8 (*2)	
	10-15A	Push-in fitting ø10	-	R1/2 (*2)	
	12-15A	Push-in fitting ø12	-	R1/2 (*2)	
	6A-6A	R1/8 (*2)	-	R1/8 (*2)	2QV-P1-P70
	8A-8A	R1/4 (*2)	-	R1/4 (*2)	
	10A-10A	R3/8 (*2)	-	R3/8 (*2)	2QV-P2-P70
	15A-15A	R1/2 (*2)	-	R1/2 (*2)	

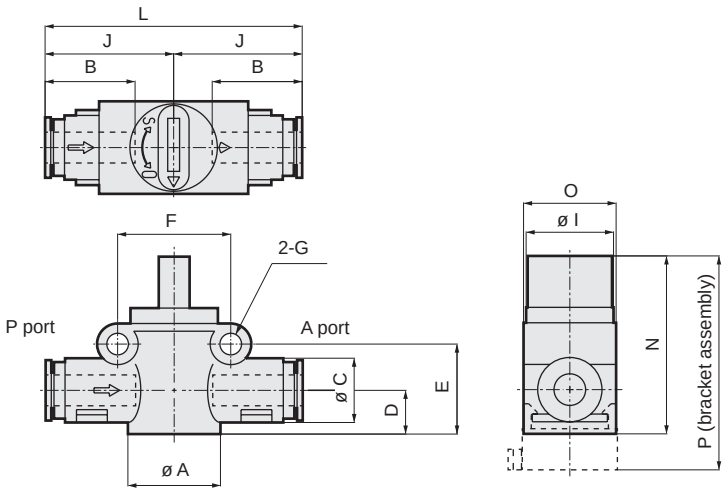
Ⓒ Clean room specifications		
	Structure	Material restriction
P70	Dust generation preventing	–

(*1) Note that this may differ according to the body size.

(*2) No sealant is applied.

Dimensions

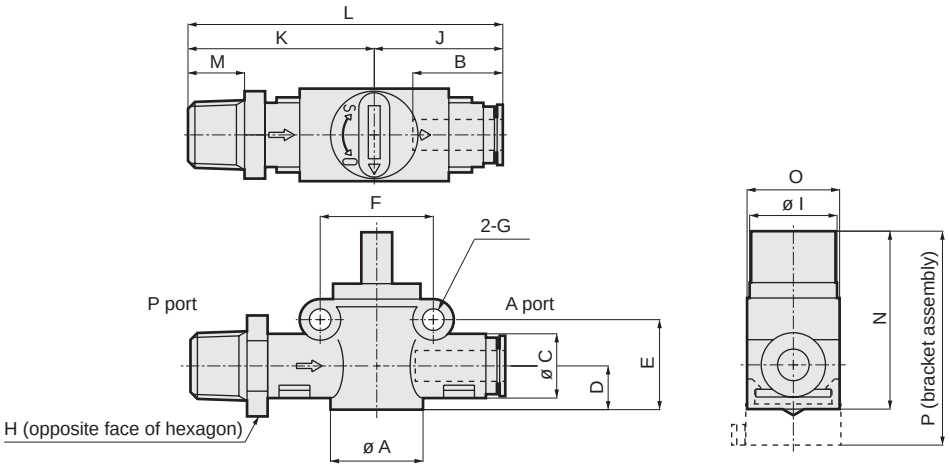
● Port size
• P port (push-in fitting)/A port (push-in fitting)



Applicable tube O.D. (mm)		Model No.	A	B	C	D	E	F	G	I	J	L	N	O	P	Weight	Effective cross-sectional area (mm²)	
P port	A port															(g)	P→A	A→R
ø4	ø4	2QV-04-04-P70	18	16	12.5	8.5	17.5	22	4.2	17	25	50	34.5	18	41.5	20	4.2	1.8
ø6	ø6	2QV-06-06-P70		17.5												21	9.3	
ø8	ø8	2QV-08S-08S-P70		19	14.5						26.5	53				23	10.2	
ø8	ø8	2QV-08-08-P70	22	19	17.5	10.7	22.8	26.5	4.2	17	31.5	63	39.8	22	46.8	34	17.5	4.0
ø10	ø10	2QV-10-10-P70		21.5												35	22.5	
ø12	ø12	2QV-12-12-P70		23	20						33	66				38	22.5	

* Tolerance of effective cross-sectional area is ±10%.

● Port size
• P port (male thread)/A port (push-in fitting)

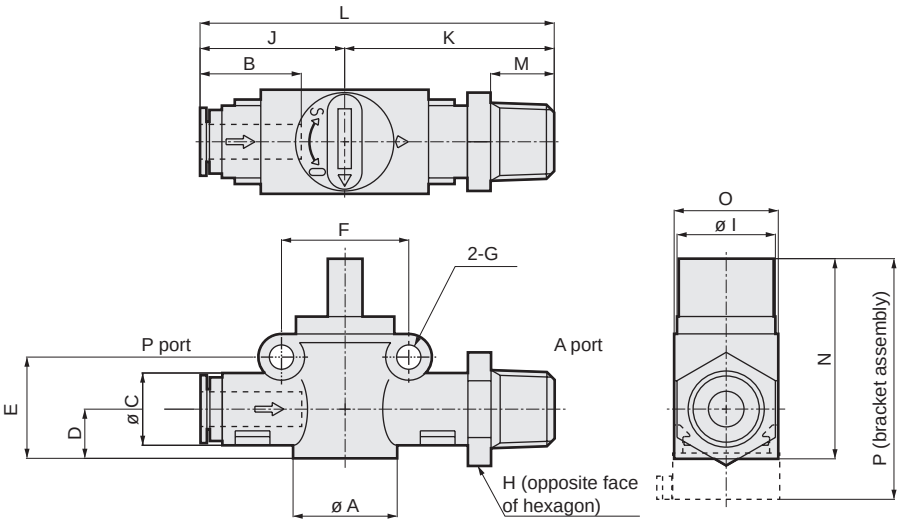


Port thread R	Applicable tube O.D. (mm)	Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Weight (g)	Effective cross-sectional area (mm²)	
P port	A port																			P→A	A→R
1/8	ø4	2QV-6A-04-P70	18	16	12.5	8.5	17.5	22	4.2	14	17	25	33.5	58.5	8	34.5	18	41.5	26	4.2	1.8
1/8	ø6	2QV-6A-06-P70		17.5															32	9.3	
1/4	ø6	2QV-8A-06-P70								17			38	63	11				35	9.3	
1/4	ø8	2QV-8A-08S-P70		19	14.5							26.5		64.5					40	10.2	
3/8	ø8	2QV-10A-08-P70	22	19	17.5	10.7	22.8	26.5	4.2	17	17	31.5	44.5	76	12	39.8	22	46.8	57	16.3	4.0
3/8	ø10	2QV-10A-10-P70		21.5						19									63	21.4	
1/2	ø10	2QV-15A-10-P70								22			47.5	79	15				76	21.4	
1/2	ø12	2QV-15A-12-P70		23	20							33	49	82					85	21.4	

* Tolerance of effective cross-sectional area is ±10%.

Dimensions

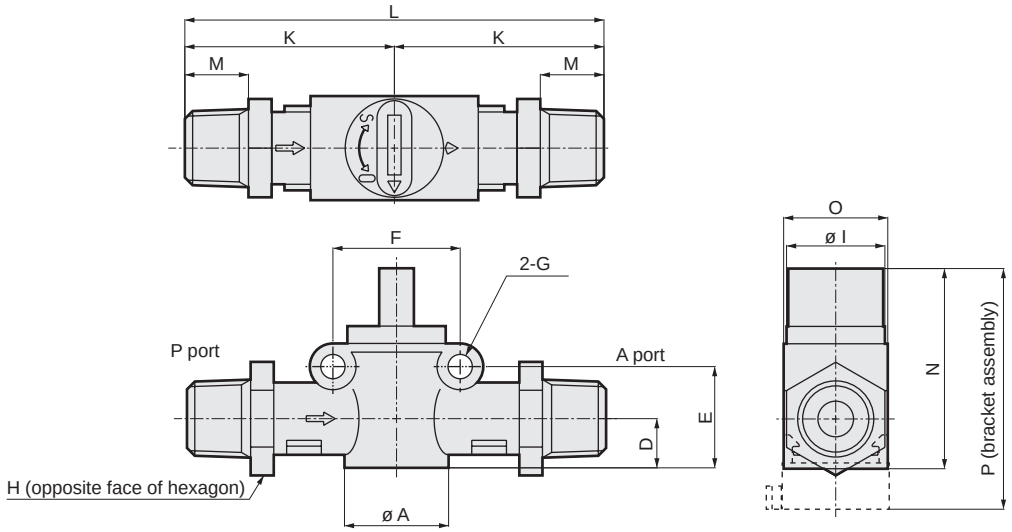
● Port size
・P port (push-in fitting)/A port (male thread)



Applicable tube O.D. (mm)	Port thread R	Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Weight (g)	Effective cross-sectional area (mm²)	
P port	A port																			P→A	A→R
ø4	1/8	2QV-04-6A-P70	18	16	12.5	8.5	17.5	22	4.2	14	17	25	33.5	58.5	8	34.5	18	41.5	26	3.5	1.8
ø6	1/8	2QV-06-6A-P70		17.5															32	9.3	
ø6	1/4	2QV-06-8A-P70								17			38	63	11				35	9.3	
ø8	1/4	2QV-08S-8A-P70		19	14.5							26.5		64.5					40	10.2	
ø8	3/8	2QV-08-10A-P70	22	19	17.5	10.7	22.8	26.5	4.2	17	17	31.5	44.5	76	12	39.8	22	46.8	57	15.8	4.0
ø10	3/8	2QV-10-10A-P70		21.5						19									63	21.4	
ø10	1/2	2QV-10-15A-P70								22			47.5	79	15				76	21.4	
ø12	1/2	2QV-12-15A-P70		23	20.0							33	49	82					85	21.4	

* Tolerance of effective cross-sectional area is ±10%.

● Port size
・P port (male thread)/A port (male thread)

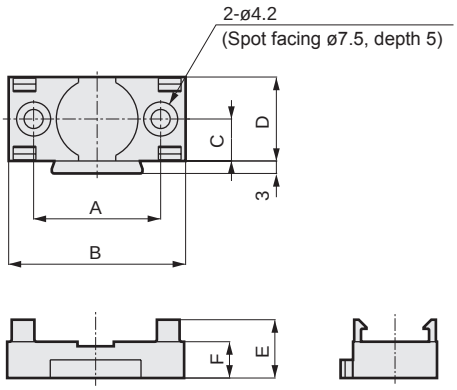


Port thread R		Model No.	A	D	E	F	G	H	I	K	L	M	N	O	P	Weight (g)	Effective cross-sectional area (mm²)	
P port	A port																P→A	A→R
1/8	1/8	2QV-6A-6A-P70	18	8.5	17.5	22	4.2	14	17	33.5	67	8	34.5	18	41.5	42	9.5	1.8
1/4	1/4	2QV-8A-8A-P70						17		38	76	11				48	9.5	
3/8	3/8	2QV-10A-10A-P70	22	10.7	22.8	26.5	4.2	19	17	44.5	89	12	39.8	22	46.8	90	21.4	4.0
1/2	1/2	2QV-15A-15A-P70						22		47.5	95	15				116	21.4	

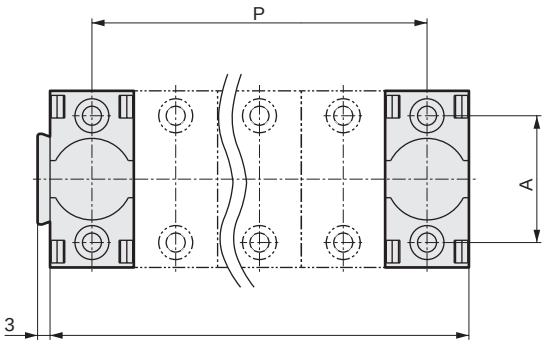
* Tolerance of effective cross-sectional area is ±10%.

Dimensions

● Dedicated bracket



● Installation spacing dimensions for manifolds



Model No.	A	B	C	D	E	F	P	L	Subject A dimension	Weight (g)
2QV-P1-P70	28	39	9.25	18.5	13	8	D × (n-1)	D × n	18	5.4
2QV-P2-P70	32	44	11.25	22.5	12.5	8			22	7.2

n = station No.

MEMO

Pneumatic components: Warning/caution

Always read this section before use.

Design & selection

⚠ WARNING

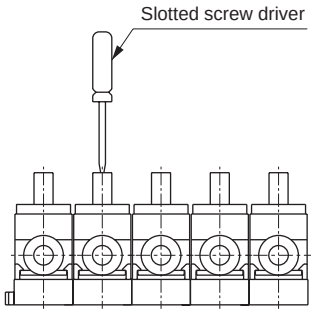
■ Do not constantly push down or apply a load onto the push-ring of the push-in fitting.

- The tube may lose its ability to hold.
- When transporting an assembled product, avoid positions in which the push ring is constantly pressed down.

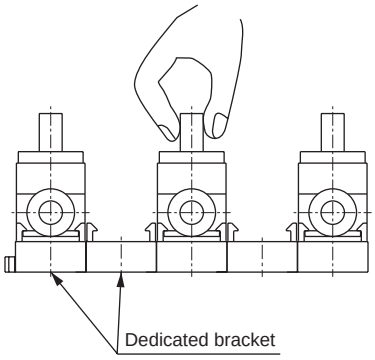
Mounting / Installation / adjustment

⚠ CAUTION

■ If the manifolds are installed to save space, it may be difficult to operate the value manually.
It is recommended to operate the manifold by inserting a slotted screw driver into the slot on the top.



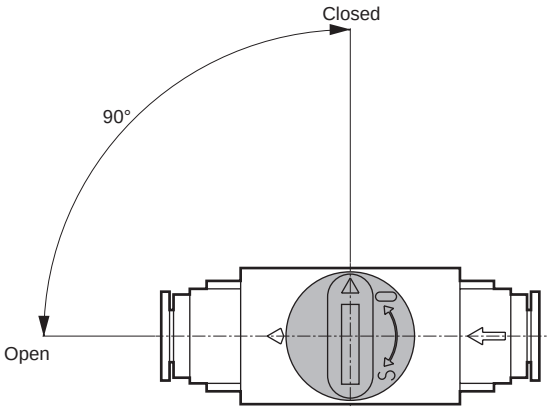
■ If manifolds are installed with a priority on manual operation, valves are operated easily by installing them every other space.



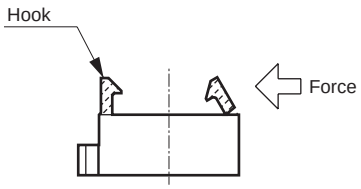
During use & maintenance

⚠ CAUTION

■ Operation angle of this product is 90˚.
Do not turn the product more than 90˚.

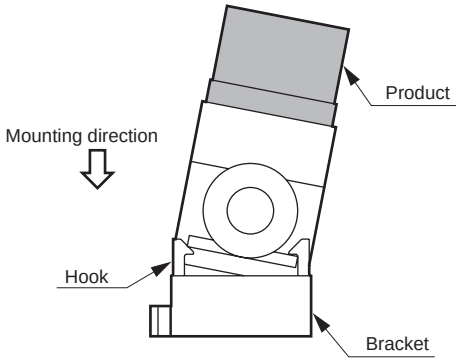


■ The dedicated bracket's hooks can be damaged by external force. Use brackets correctly.

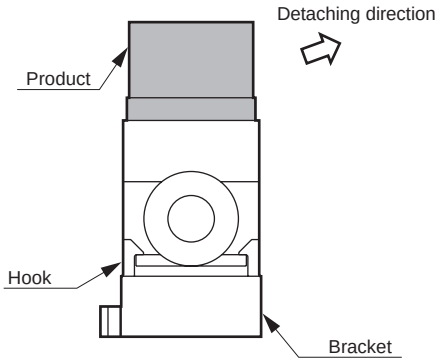


■ How to use bracket

❶ Fix the bracket before starting use. To mount, insert the product at a slant into the bracket, and then fit into hooks.



❷ To remove the product, tilt it slightly to the side, and release only one hook.



❸ When mounting a manifold, put the project on the bracket into the other bracket's slot.