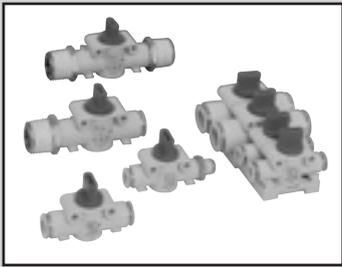
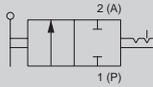


SCPD3  
SCM  
SSD2  
MDC2  
SMG  
LCM  
LCR  
LCG  
LCX  
STM  
STG  
STR2  
MRL2  
GRC  
Cylinder switch  
MN3E  
MN4E  
4GA/B  
M4GA/B  
MN4GA/B  
F.R (module unit)  
Clean F.R  
Precision R  
Press gauge  
Diff. press gauge  
Electro-pneumatic R  
Speed controller  
Auxiliary valve  
Fitting/tube  
Clean air unit  
Pressure sensor  
Flow rate sensor  
Valve for air blow  
Ending



# Quick valve 2QV Series

JIS symbol



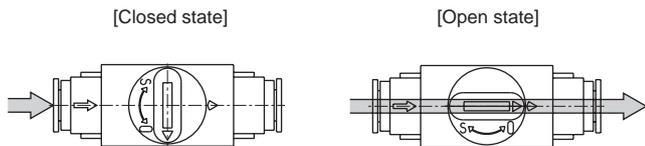
## Specifications

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.

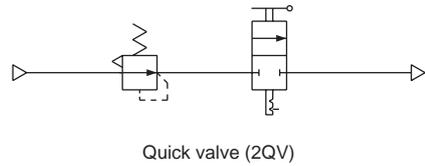
## Operational explanation

● 2 port valve (2QV Series)



## Examples

● Stop valve in air blow circuit



### How to order

● Quick valve

**2 QV - 04-04 - P70**

**A** Valve

**B** Port size  
(P port) - (A port)

Code		Content	
<b>A Valve</b>			
2	2 way valve		
<b>B Port size (P port) - (A port)</b>			
	<b>IN side</b>	<b>-</b>	<b>OUT side</b>
Standard	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
Option	6A-04	R1/8 (*2)	Push-in fitting ø4
	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
	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)
	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)
	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)	
8A-8A	R1/4 (*2)	R1/4 (*2)	
10A-10A	R3/8 (*2)	R3/8 (*2)	
15A-15A	R1/2 (*2)	R1/2 (*2)	
<b>C Clean room specifications</b>			
	Structure		Material restriction
P70	Dust generation preventing		-

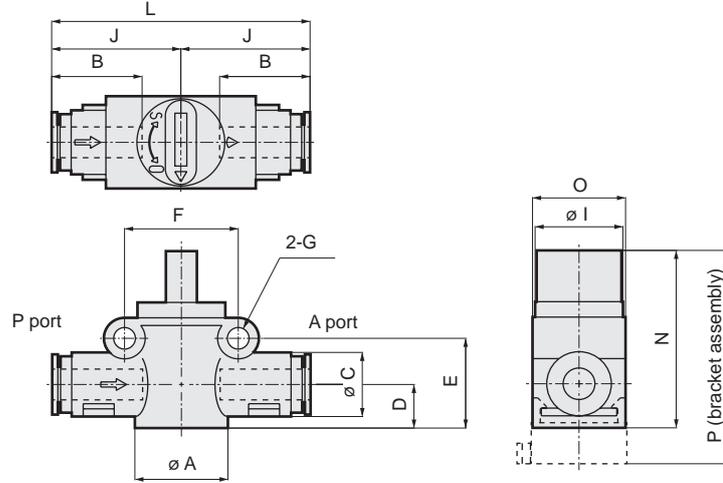
(\*1) Note that this may differ according to the body size.

(\*2) No sealant is applied.

SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E MN4E
4GA/B
M4GA/B
MN4GA/B
F.R.(module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

## Dimensions

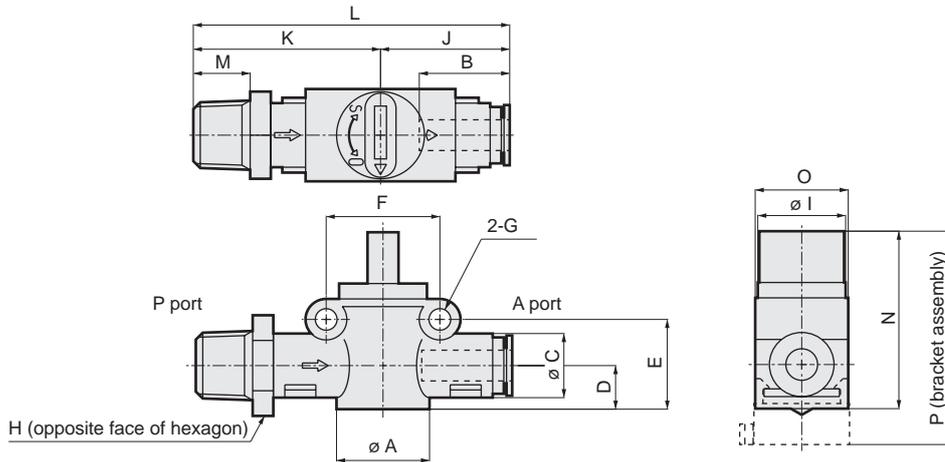
- Port size
  - P port (push-in fitting)/A port (push-in fitting)



	Applicable tube O.D. (mm)		Model No.	A	B	C	D	E	F	G	I	J	L	N	O	P	Weight (g)	Effective cross-sectional area (mm <sup>2</sup> )							
	P port	A port																P→A	A→R						
STR2	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						
MRL2	ø6	ø6	2QV-06-06-P70		17.5													19		14.5	26.5	53	34.5	18	41.5
GRC	ø8	ø8	2QV-08S-08S-P70		19	17.5						10.7													
Cylinder switch	ø8	ø8	2QV-08-08-P70	19	17.5		10.7	22.8	26.5	4.2	17		31.5	63	39.8	22	46.8	34	17.5						
MN3E MN4E	ø10	ø10	2QV-10-10-P70	22		21.5						20													
	ø12	ø12	2QV-12-12-P70	23	20													38							

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

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



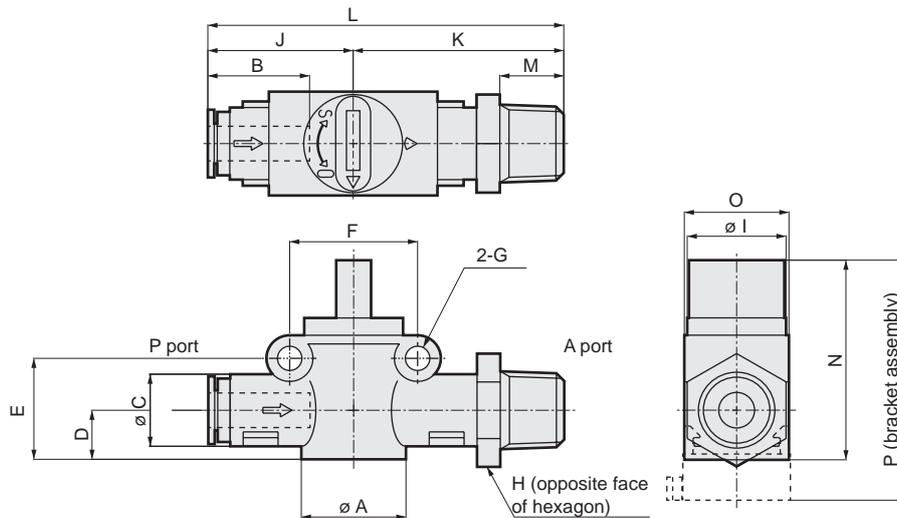
	Port thread R	Applicable tube O.D. (mm)	Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Weight (g)	Effective cross-sectional area (mm <sup>2</sup> )				
																					P port	A port	P→A	A→R	
Clean air unit	1/8	ø4	2QV-6A-04-P70	18	16	12.5	8.5	17.5	22	4.2	14	17	25	33.5	58.5	8	34.5	18	41.5	26	4.2	1.8			
Pressure sensor	1/8	ø6	2QV-6A-06-P70		17.5																19		14.5	26.5	53
Flow rate sensor	1/4	ø6	2QV-8A-06-P70		17.5	19							14.5	26.5	53	34.5									
Valve for air blow	1/4	ø8	2QV-8A-08S-P70	19	17.5		10.7	22.8	26.5	4.2	17	17					25	38	63	11	39.8	22	46.8	40	10.2
	3/8	ø8	2QV-10A-08-P70	19		17.5							10.7	22.8	26.5	4.2									17
	3/8	ø10	2QV-10A-10-P70	22	21.5		20																		
	1/2	ø10	2QV-15A-10-P70	22	21.5	20																			
Ending	1/2	ø12	2QV-15A-12-P70	23	20																				

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

### Dimensions

● Port size

- P port (push-in fitting)/A port (male thread)

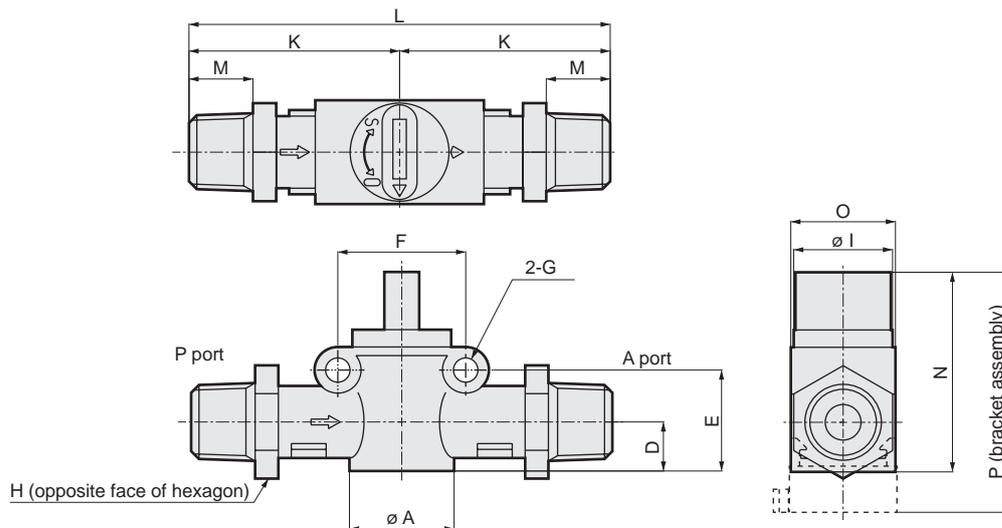


Applicable tube O.D. (mm)	Port thread R	Model No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Weight (g)	Effective cross-sectional area (mm <sup>2</sup> )			
			P port	A port	P→A	A→R																	
ø4	1/8	2QV-04-6A-P70	18	16	12.5	8.5	17.5	22	4.2	14	17	25	33.5	58.5	8	34.5	18	41.5	26	3.5	1.8		
ø6	1/8	2QV-06-6A-P70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

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

● Port size

- P port (male thread)/A port (male thread)



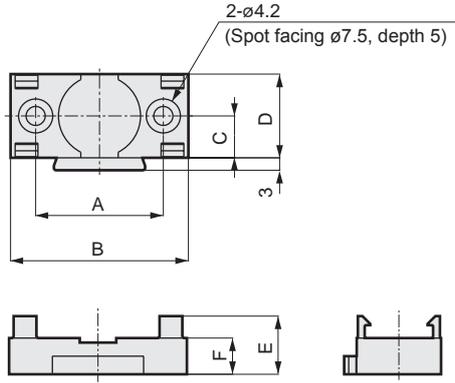
Port thread R		Model No.	A	D	E	F	G	H	I	K	L	M	N	O	P	Weight (g)	Effective cross-sectional area (mm <sup>2</sup> )	
P port	A port		P→A	A→R														
1/8	1/8	2QV-6A-6A-P70	18	8.5	17.5	22	4.2	14	17	33.5	67	8	34.5	18	41.5	42	9.5	1.8
1/4	1/4	2QV-8A-8A-P70						17		38	76	11				48	9.5	
3/8	3/8	2QV-10A-10A-P70	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%.

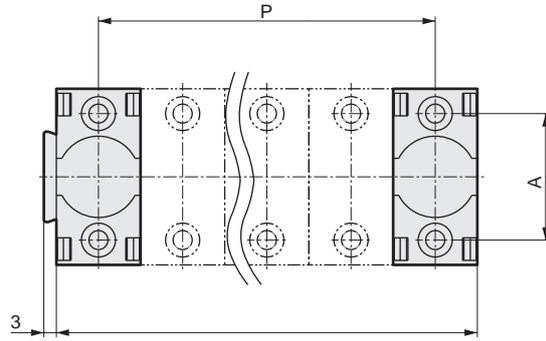
- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder Switch
- MN3E
- MN4E
- 4GA/B
- M4GA/B
- MN4GA/B
- F.R.(module unit)
- Clean F.R
- Precision R
- Press gauge
- Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending

## 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.

- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder switch
- MN3E  
MN4E
- 4GA/B
- M4GA/B
- MN4GA/B
- F.R (module unit)
- Clean F.R
- Precision R
- Press gauge  
Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending