

Finger Valve

Series VHK

Large effective area: 2.0 to 17.5 mm²

Small knob operating force: 0.04 to 0.14 N·m

Poppet valve construction seldom suffers seal defection.

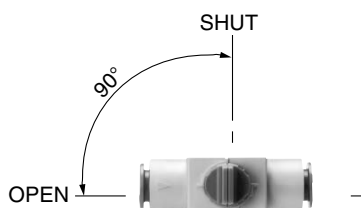
The series begins with the min. tubing O.D. of ø4.

Selection from four types in accordance with the piping specifications

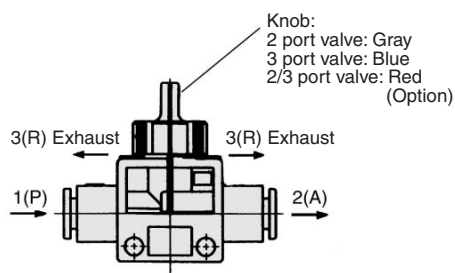
The 3 port valve discharges residual pressure from 2(A) with the handle set at SHUT.
(There is no exhaust port.)



The valve direction clearly indicates whether the valve is open or closed. (SHUT-OPEN: Counterclockwise)



2 port valves and 3 port valves can be distinguished by the color of their knobs.



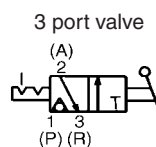
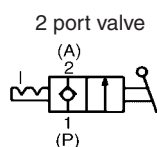
Specifications

Valve	2/3 port valves
Fluid	Air
Proof pressure	1.5 MPa
Max. operating pressure	1.0 MPa
Operating vacuum pressure *□	-100 kPa
Ambient temperature and operating fluid temperature	0 to 60°C
Applicable tubing material ^{Note)}	Nylon, Soft nylon, Polyurethane
Accessory (Option)	Bracket

Note) Use caution about the maximum operating pressure when soft nylon or polyurethane tubing is used. (Refer to "Best Pneumatics Vol. 15".)

* Use VHK2 (2 port valve) for vacuum application.

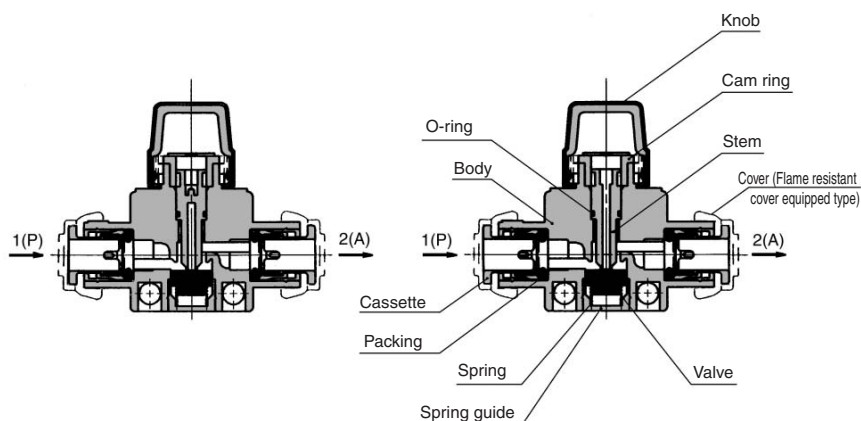
JIS Symbol



Construction

2 port valve: Series VHK2

3 port valve: Series VHK3



Component Parts

Body	Standard type	PBT
	Flame resistant type	Flame resistant PBT (UL standard V-0)
Knob	Standard type	PBT
	Flame resistant type	Flame resistant PBT (UL standard V-0)
Cover	Flame resistant CR	
Cam ring	POM	
Stem	POM	
Spring guide	Flame resistant CR (UL standard V-0) For flame resistant type with cover only	
Spring	Stainless steel	
Packing, O-ring, Valve	NBR	

How to Order

Flame resistant type VHK **2** — **02S** — **02S** **R** **L**

Flame resistant type VHK **2** **R** — **04F** — **04F** **R** **L** **C**

Valve model

2	2 port valve
3	3 port valve

Flame resistant type

04F	ø4
06F	ø6
08F	ø8
10F	ø10
12F	ø12
M5	M5 x 0.8
01S	R 1/8
02S	R 1/4
03S	R 3/8
04S	R 1/2

1(P) port size

04F	ø4
06F	ø6
08F	ø8
10F	ø10
12F	ø12
M5	M5 x 0.8
01S	R 1/8
02S	R 1/4
03S	R 3/8
04S	R 1/2

2(A) port size

04F	ø4
06F	ø6
08F	ø8
10F	ø10
12F	ø12
M5	M5 x 0.8
01S	R 1/8
02S	R 1/4
03S	R 3/8
04S	R 1/2

Bracket

Nil	None
L	With L-bracket

* Bracket and screws are attached.

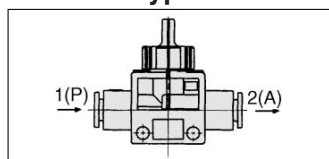
Flame resistant cover

Nil	No
C	With cover (For One-touch fitting only)

1(P) nob color

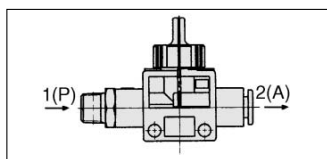
Nil (Standard)	2 port valve	Gray
	3 port valve	Blue
R (Option)	2 port valve	Red
	3 port valve	

Standard Type



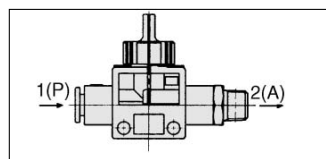
1(P): One-touch fitting
2(A): One-touch fitting

1(P)	2(A)				
	Applicable tubing O.D. (mm)				
Applicable tubing O.D. (mm)	ø4	ø6	ø8	ø10	ø12
	ø4	●			
	ø6	●	●		
	ø8		●	●	
	ø10			●	●
	ø12				●



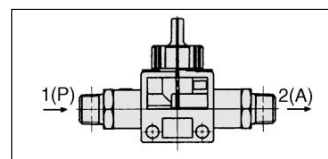
1(P): Male thread
2(A): One-touch fitting

1(P)	2(A)				
	Applicable tubing O.D. (mm)				
Port size R	M5	1/8	1/4	3/8	1/2
	M5	●	●		
	1/8	●	●	●	
	1/4		●	●	●
	3/8		●	●	●
	1/2			●	●



1(P): One-touch fitting
2(A): Male thread

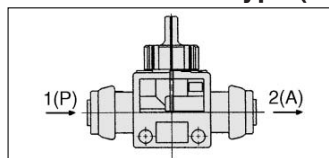
1(P)	2(A)				
	Port size R				
Applicable tubing O.D. (mm)	M5	1/8	1/4	3/8	1/2
	ø4	●	●		
	ø6	●	●	●	
	ø8		●	●	●
	ø10			●	●
	ø12			●	●



1(P): Male thread
2(A): Male thread

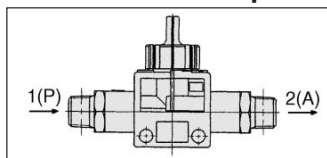
1(P)	2(A)				
	Port size R				
Port size R	M5	1/8	1/4	3/8	1/2
	M5	●			
	1/8	●	●		
	1/4		●	●	
	3/8			●	●
	1/2				●

Flame Resistant Type (UL-94 Standard V-0 equivalent)



1(P): One-touch fitting
2(A): One-touch fitting

1(P)	2(A)				
	Applicable tubing O.D. (mm)				
Applicable tubing O.D. (mm)	ø4	ø6	ø8	ø10	ø12
	ø4	●			
	ø6		●		
	ø8			●	
	ø10				●
	ø12				●

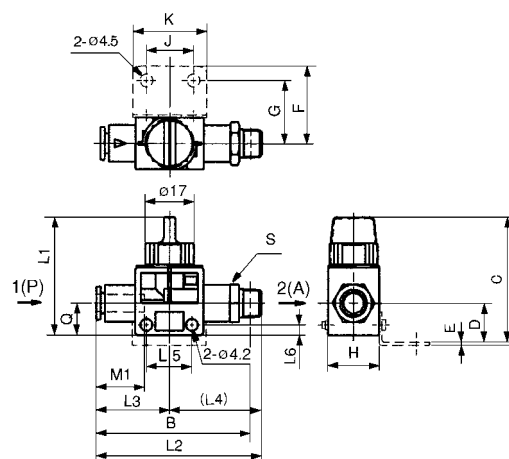
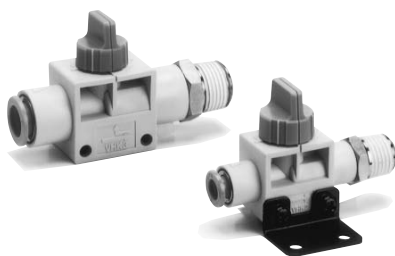


1(P): Male thread
2(A): Male thread

1(P)	2(A)			
	Port size R			
Port size R	1/8	1/4	3/8	1/2
	1/8	●		
	1/4		●	
	3/8			●
	1/2			●

Series VHK

1(P): One-touch Fitting, 2(A): Male Thread



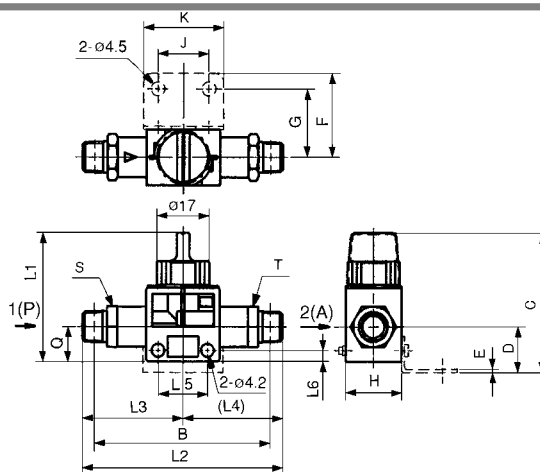
Applicable tubing O. D. (mm)	Connection thread R	Model	H	L1	L2	L3	L4	L5	L6	M1	Q	Effective area (mm ²)		Weight (g)	B**	S (Width across flats)	Bracket mounting dimensions									
												1(P) R 2(A)	2(A) R 3(R)*				Bracket assembly no.	C	D	E	F	G	J	K		
1(P)	2(A)																									
4	M5	VHK□-04F-M5	18	41	52.9	23.8	29.1	16.5	3.5	15.8	11	2.0	1.2	19	49	11	VHK-B1A	44.5	14.5	1	27	22	16.5	26		
	1/8	VHK□-04F-01S			55.4		31.6					3.4		21	51	13										
6	M5	VHK□-06F-M5	18	41	53.9	24.3	29.6	16.5	3.5	16.8	11	2.0	1.2	21	50	11	VHK-B1A	44.5	14.5	1	27	22	16.5	26		
	1/8	VHK□-06F-01S			56.9		32.6					7.2		23	53	13										
	1/4	VHK□-06F-02S			60.4		36.1							31	54	17										
	3/8	VHK□-06F-03S			62.4		38.1							41	56	14										
8	1/8	VHK□-08F-01S	18	41	62.2	26.2	36	16.5	3.5	18.7	11	9.7	1.2	31	58	17	VHK-B1A	44.5	14.5	1	27	22	16.5	26		
	1/4	VHK□-08F-02S			65.2		39							32	59	19										
	3/8	VHK□-08F-03S			66.2		40							40	60	22										
10	1/4	VHK□-10F-02S	22	46	73.8	30.5	43.3	21.5	4	20.8	14	16.1	3.2	49	68	17	VHK-B2A	49	17	1	30	25	21.5	31		
	3/8	VHK□-10F-03S			74.8		44.3							51											70	19
	1/2	VHK□-10F-04S			78.2		47.7							72											70	19
12	1/4	VHK□-12F-02S	22	46	76.3	31.5	44.8	21.5	4	21.8	14	17.5	3.2	63	70	22	VHK-B2A	49	17	1	30	25	21.5	31		
	3/8	VHK□-12F-03S			77.3		45.8							64											71	
	1/2	VHK□-12F-04S			80.2		48.7							70											72	



* 3 port valve

** Reference dimensions after insertion of R thread.

1(P)/2(A): Male Thread



Connection thread R		Model	H	L1	L2	L3	L4	L5	L6	Q	Effective area (mm ²)		Weight (g)	B**	S (Width across flats)	T (Width across flats)	Bracket mounting dimensions								
											1(P) R 2(A)	2(A) R 3(R)					Bracket assembly no.	C	D	E	F	G	J	K	
1(P)	2(A)																								
M5	M5	VHK□-M5-M5	18	41	58.2	29.1	29.1	16.5	3.5	11	2.0	1.2	23	51	11	11	VHK-B1A	44.5	14.5	1	27	22	16.5	26	
1/8	M5	VHK□-01S-M5	18	41	61.6	32.6	29	16.5	3.5	11	2.0	1.2	26	54	13	13	VHK-B1A	44.5	14.5	1	27	22	16.5	26	
	1/8	VHK□-01S-01S			65.2		32.6				8.6		30	57											
1/4	1/8	VHK□-02S-01S	18	41	71.6	39	32.6	16.5	3.5	11	9.0	1.2	39	62	17	13	VHK-B1A	44.5	14.5	1	27	22	16.5	26	
	1/4	VHK□-02S-02S			78		39				9.7		47	66											17
3/8	1/4	VHK□-03S-02S	22	46	85.1	44.3	40.8	21.5	4	14	13.7	3.2	65	73	19	17	VHK-B2A	49	17	1	30	25	21.5	31	
	3/8	VHK□-03S-03S			88.6		44.3				16.1		72	76											19
1/2	3/8	VHK□-04S-03S	22	46	93	48.7	44.3	21.5	4	14	15.1	3.2	90	79	22	19	VHK-B2A	49	17	1	30	25	21.5	31	
	1/2	VHK□-04S-04S			97.4		48.7				17.5		101	81											22



* 3 port valve

** Reference dimensions after insertion of R thread.