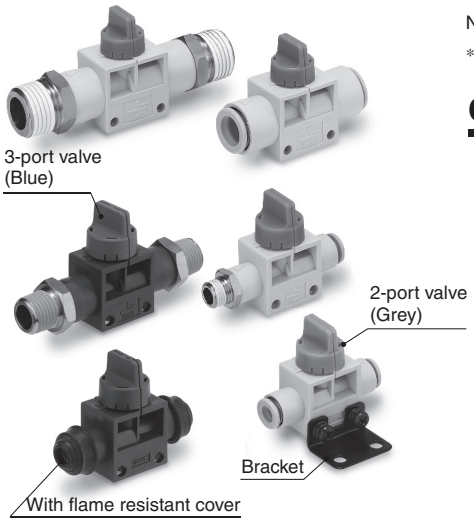
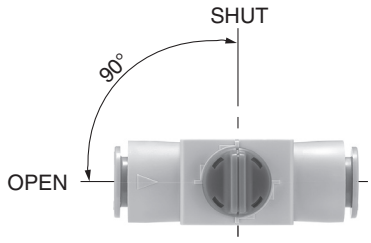
Finger Valve
VHK Series

RoHS

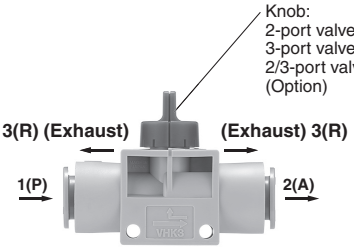
With a function to prevent the nob from coming out
Large effective area: 2.0 to 17.5 mm²
Reduced operating force
Poppet valve construction seldom suffers seal defection.
The series begins with the min. tubing O.D. of Ø 4.
Selection from four types in accordance with the piping specifications
The 3-port valve discharges residual pressure from 2(A) with the handle set at SHUT. (There is no exhaust port.)



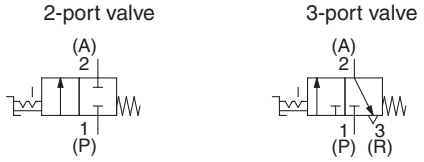
The valve direction clearly indicates whether the valve is open or closed. (SHUT-OPEN: Counterclockwise)



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



Symbol



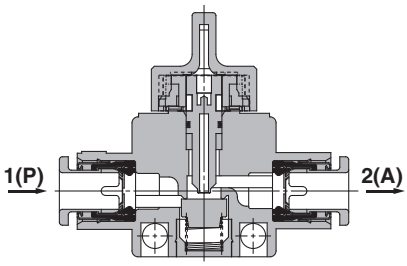
Specifications

Valve	2/3-port valves
Fluid	Air
Proof pressure	1.5 MPa
Max. operating pressure Note 1)	1.0 MPa
Operating vacuum pressure*	-100 kPa
Ambient temperature and operating fluid temperatures	0 to 60 °C
Applicable tubing material Note 2)	Nylon, Soft nylon, Polyurethane
Accessory (Option)	Bracket

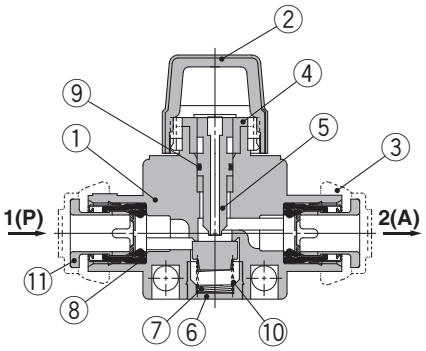
Note 1) Please note that when the valve is used at micro pressures of 0.1 MPa or less, valve leakage may be more than the standard value (5 cm^3/min).
Note 2) Use caution about the maximum operating pressure when soft nylon or polyurethane tubing is used.
* Use VHK2 (2-port valve) for vacuum application.

Construction

2-port valve: VHK2A series



3-port valve: VHK3A series



Component Parts

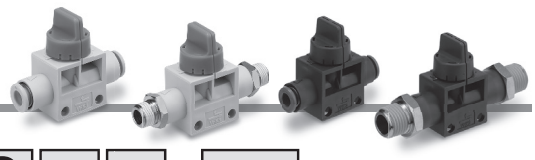
No.	Description	Material		Note
1	**Body**	Standard type	PBT	
		Flame resistant type	Flame resistant PBT (UL standard V-0)	
2	**Knob**	Standard type	POM	
		Flame resistant type	Flame resistant PBT (UL standard V-0)	
3	**Cover**	Flame resistant CR (UL standard V-0)		Applicable to the flame-resistant cover only
4	**Cam ring**	POM		
5	**Stem**	POM		
6	**Spring guide**	Brass Electroless nickel plated		
7	**Spring**	Stainless steel		
8	**Seal**	NBR		
9	**O-ring**	NBR		
10	**Valve**	NBR		
11	**Cassette**	Standard type	POM	
		Flame resistant type	Flame resistant PBT (UL standard V-0)	

Replacement Parts

Description	Model	
	• One-touch fitting Applicable tubing O.D. Ø 8 or less	• One-touch fitting Applicable tubing O.D. Ø 10 or more • 1(P)-Male thread • 2(A)-Male thread Port size R3/8 or more
	Part no.	
Bracket assembly Note 2)	VHK-B1A Note 1)	VHK-B2A Note 1)

Note 1) For details on selection of each bracket assembly part no., refer to the tables on pages 2, 3 and 4.
Note 2) The bracket, bolts, nuts, and washers are supplied with the bracket assembly.

VHK-A Series



How to Order

Standard type VHK 2 A — 02S – 02S □ □ – □

Flame resistant type VHK 2 A R – 04F – 04F □ □ □ ● Made to Order

Valve model

2	2-port valve
3	3-port valve

Flame resistant type

1(P) port size

04F	Ø 4
06F	Ø 6
08F	Ø 8
10F	Ø 10
12F	Ø 12
M5	M5 x 0.8
01S	R1/8
02S	R1/4
03S	R3/8
04S	R1/2

2(A) port size

04F	Ø 4
06F	Ø 6
08F	Ø 8
10F	Ø 10
12F	Ø 12
M5	M5 x 0.8
01S	R1/8
02S	R1/4
03S	R3/8
04S	R1/2

Bracket

—	None
L	With L-bracket

∗ Bracket and screws are attached.

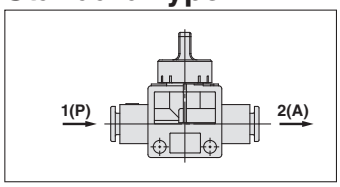
Knob colour

— (standard)	2-port valve	Grey
	3-port valve	Blue
R (Option)	2-port valve	Red
	3-port valve	

Flame resistant cover

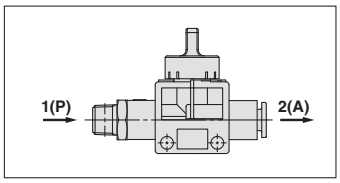
—	None
C	With cover (For One-touch fitting only)

Standard Type



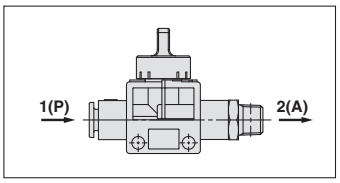
1(P): One-touch fitting
2(A): One-touch fitting

1(P) \ 2(A)	Applicable tubing O.D. [mm]				
	Ø 4	Ø 6	Ø 8	Ø 10	Ø 12
Ø 4	●				
Ø 6	●	●			
Ø 8		●	●		
Ø 10			●	●	
Ø 12				●	●



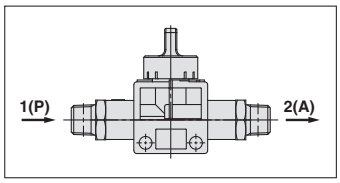
1(P): Male thread
2(A): One-touch fitting

1(P) \ 2(A)	Applicable tubing O.D. [mm]				
	Ø 4	Ø 6	Ø 8	Ø 10	Ø 12
M5	●	●			
1/8	●	●	●		
1/4		●	●	●	●
3/8		●	●	●	●
1/2				●	●



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

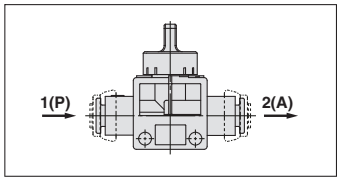
1(P) \ 2(A)	Port size R				
	M5	1/8	1/4	3/8	1/2
Ø 4	●	●			
Ø 6	●	●	●	●	
Ø 8		●	●	●	
Ø 10			●	●	●
Ø 12			●	●	●



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

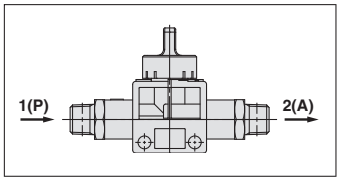
1(P) \ 2(A)	Port size R				
	M5	1/8	1/4	3/8	1/2
M5	●				
1/8	●	●			
1/4		●	●		
3/8			●	●	
1/2				●	●

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



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

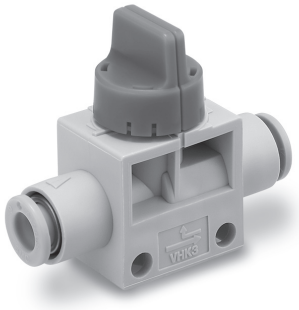
1(P) \ 2(A)	Applicable tubing O.D. [mm]				
	Ø 4	Ø 6	Ø 8	Ø 10	Ø 12
Ø 4	●				
Ø 6		●			
Ø 8			●		
Ø 10				●	
Ø 12					●

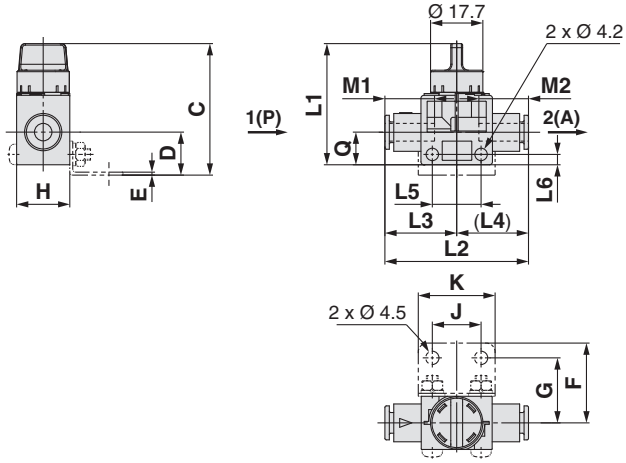


1(P): Male thread
2(A): Male thread

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

1(P)/2(A): One-touch Fitting

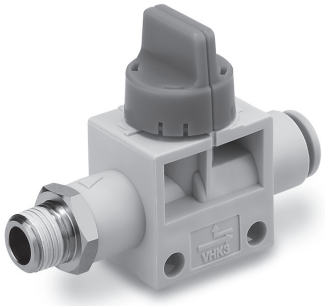


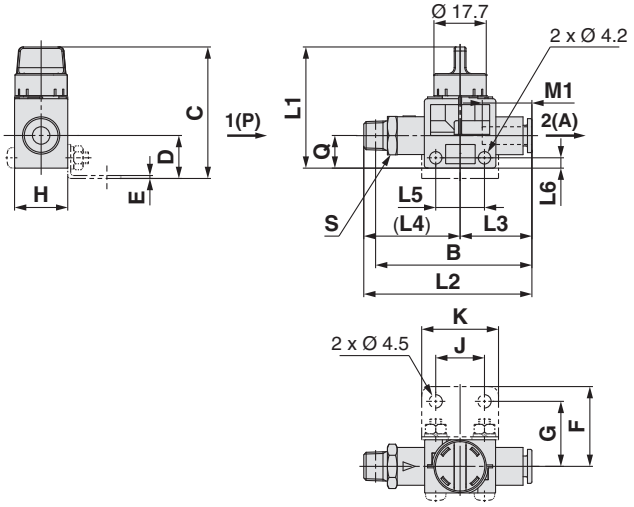


Applicable tubing O.D. [mm]		Model	H	L1	L2	L3	L4	L5	L6	M1	M2	Q	Flow rate characteristics 1(P)→2(A)			Flow rate characteristics 2(A)→3(R)*1			Weight (g)	Bracket mounting dimensions							
1(P)	2(A)												C[dm³/(s·bar)]	b	Cv	C[dm³/(s·bar)]	b	Cv		Bracket assembly no.	C	D	E	F	G	J	K
4	4	VHK□A-04F-04F	18	41	47.6	23.8	23.8	16.5	3.5	15.8	15.8	11	0.7	0.15	0.14	0.25	0.6	0.06	15	VHK-B1A	44.5	14.5	1	27	22	16.5	26
6	4	VHK□A-06F-04F			48	24.3	23.7			16.8	15.8		1.0		0.21				15								
	6	VHK□A-06F-06F			48.5		24.3				16.8		1.4		0.35				16								
8	6	VHK□A-08F-06F			50.5	26.2	24.3			18.7	16.8		2		0.36				16								
	8	VHK□A-08F-08F			52.4		26.2				18.7		1.9		0.39				17								
10	8	VHK□A-10F-08F	22	46	58.5	30.5	28	21.5	4	20.8	18.7	14	2.7		0.55	0.67		0.16	28	VHK-B2A	49	17	1	30	25	21.5	31
	10	VHK□A-10F-10F			61		30.5				20.8		3.1		0.65				29								
12	10	VHK□A-12F-10F			62	31.5	30.5			21.8	20.8		3.3		0.68				31								
	12	VHK□A-12F-12F			63		31.5				21.8		3.4		0.70				32								

∗1 3-port valve

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

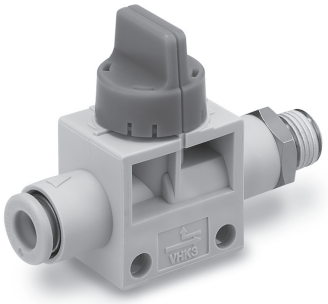


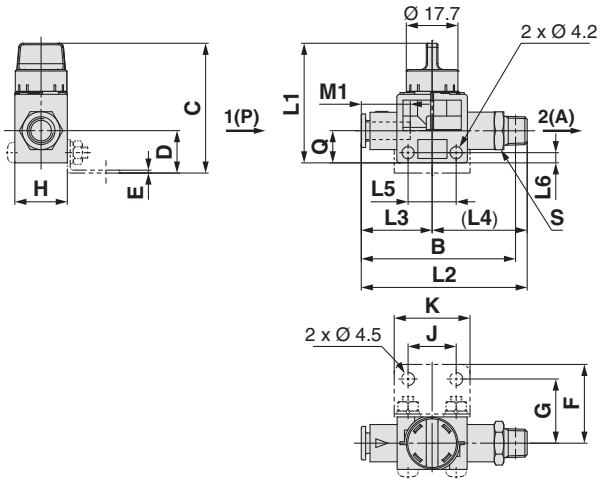


Connection thread R	Applicable tubing O.D. [mm]	Model	H	L1	L2	L3	L4	L5	L6	M1	Q	Flow rate characteristics 1(P)→2(A)			Flow rate characteristics 2(A)→3(R)*1			Weight (g)	*2 B	S (Width across flat)	Bracket mounting dimensions							
1(P)	2(A)											C[dm³/(s·bar)]	b	Cv	C[dm³/(s·bar)]	b	Cv				Bracket assembly no.	C	D	E	F	G	J	K
M5	4	VHK□A-M5-04F	18	41	52.9	23.8	29.1	16.5	3.5	15.8	11	0.4	0.15	0.10	0.25	0.6	0.06	19	49	11	VHK-B1A	44.5	14.5	1	27	22	16.5	26
	6	VHK□A-M5-06F			53.9	24.3	29.6			16.8		0.4		0.10				21	50	13								
1/8	4	VHK□A-01S-04F			55.4	23.8	31.6			15.8		0.7		0.17				21	51	11								
	6	VHK□A-01S-06F			56.9	24.3	32.6			16.8		1.4		0.35				23	53	13								
	8	VHK□A-01S-08F			62.2	26.2	36			18.7		1.9		0.47				31	58	17								
1/4	6	VHK□A-02S-06F			60.4	24.3	36.1			16.8		1.4		0.35	0.67			31	54	14								
	8	VHK□A-02S-08F			65.2	26.2	39			18.7		1.9		0.47				32	59	17								
	10	VHK□A-02S-10F	22	46	73.8	30.5	43.3	21.5	4	20.8	14	3.1		0.78			0.16	49	68	19	VHK-B2A	49	17		30	25	21.5	31
	12	VHK□A-02S-12F			76.3	31.5	44.8			21.8		3.4		0.85				63	70	22								
3/8	6	VHK□A-03S-06F	18	41	62.4	24.3	38.1	16.5	3.5	16.8	11	1.4		0.35			0.06	41	56	17	VHK-B1A	44.5	14.5	1	27	22	16.5	26
	8	VHK□A-03S-08F			66.2	26.2	40			18.7		1.9		0.47				40	60	17								
	10	VHK□A-03S-10F	22	46	74.8	30.5	44.3	21.5	4	20.8	14	3.1		0.78			0.16	51	68	19	VHK-B2A	49	17		30	25	21.5	31
	12	VHK□A-03S-12F			77.3	31.5	45.8			21.8		3.4		0.85				64	71	22								
1/2	10	VHK□A-04S-10F			78.2	30.5	47.7			20.8		3.1		0.78				72	70	22	VHK-B1A							
	12	VHK□A-04S-12F			80.2	31.5	48.7			21.8		3.4		0.85				70	72	22								

∗1 3-port valve ∗2 Reference dimensions after insertion of R thread.

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

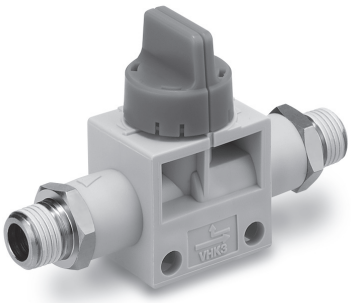


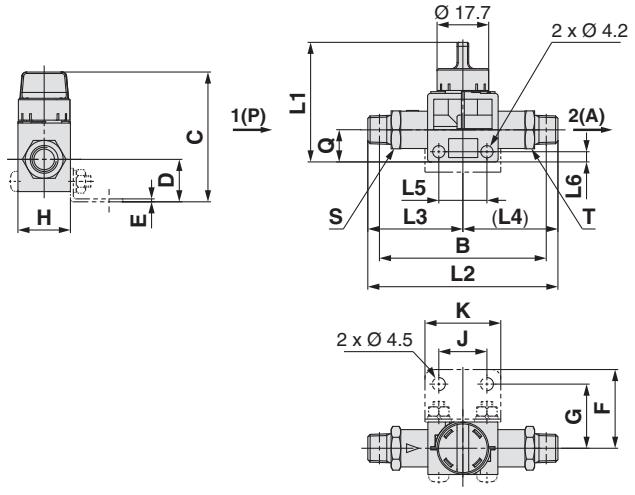


Applicable tubing O.D. [mm]	Connection thread R	Model	H	L1	L2	L3	L4	L5	L6	M1	Q	Flow rate characteristics 1(P)→2(A) C [dm³/(s·bar)]	b	Cv	Flow rate characteristics 2(A)→3(R)*1 C [dm³/(s·bar)]	b	Cv	Weight (g)	*2 B	S (Width across flat)	Bracket mounting dimensions Bracket assembly no.	C	D	E	F	G	J	K
1(P)	2(A)																											
4	M5	VHK□A-04F-M5	18	41	52.9	23.8	29.1	16.5	3.5	15.8	11	0.4	0.15	0.08	0.25	0.6	0.08	19	49	11	VHK-B1A	44.5	14.5	1	27	22	16.5	26
	1/8	VHK□A-04F-01S			55.4		31.6					0.7		0.14				21	51									
6	M5	VHK□A-06F-M5			53.9	24.3	29.6			16.8		0.4		0.08				21	50	13								
	1/8	VHK□A-06F-01S			56.9		32.6					1.4		0.35				23	53									
	1/4	VHK□A-06F-02S			60.4		36.1							0.29				31	54	14								
	3/8	VHK□A-06F-03S			62.4		38.1											41	56	17								
8	1/8	VHK□A-08F-01S			62.2	26.2	36			18.7		1.9		0.39				31	58									
	1/4	VHK□A-08F-02S			65.2		39											32	59									
	3/8	VHK□A-08F-03S			66.2		40											40	60									
10	1/4	VHK□A-10F-02S	22	46	73.8	30.5	43.3	21.5	4	20.8	14	3.1		0.65	0.67		0.21	49	68	19	VHK-B2A	49	17		30	25	21.5	31
	3/8	VHK□A-10F-03S			74.8		44.3											51										
	1/2	VHK□A-10F-04S			78.2		47.7											72	70	22								
12	1/4	VHK□A-12F-02S			76.3	31.5	44.8			21.8		3.4		0.70				63										
	3/8	VHK□A-12F-03S			77.3		45.8											64	71									
	1/2	VHK□A-12F-04S			80.2		48.7											70	72									

*1 3-port valve *2 Reference dimensions after insertion of R thread.

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

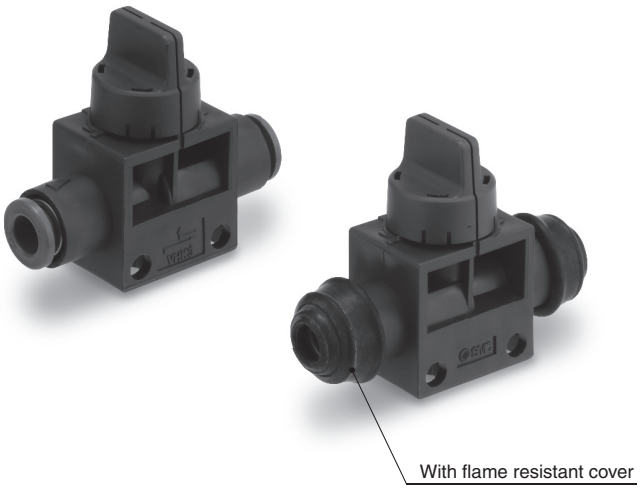


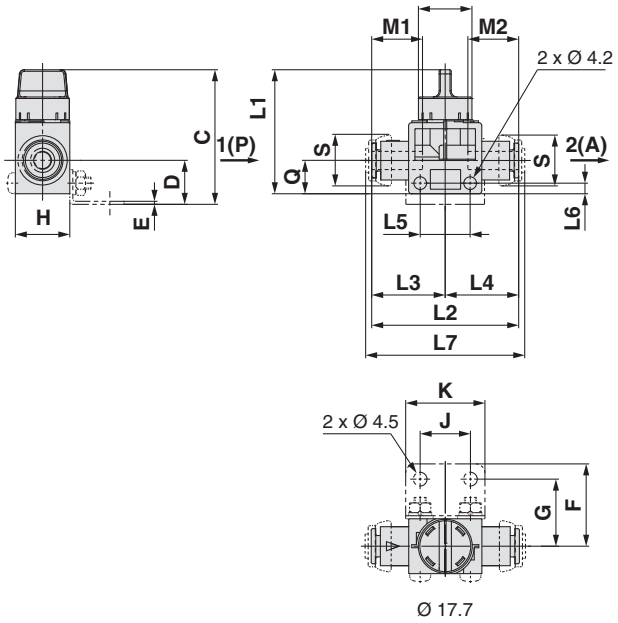


Connection thread R		Model	H	L1	L2	L3	L4	L5	L6	Q	Flow rate characteristics 1(P)→2(A) C [dm³/(s·bar)]	b	Cv	Flow rate characteristics 2(A)→3(R)*1 C [dm³/(s·bar)]	b	Cv	Weight (g)	*2 B	S (Width across flat)	T (Width across flat)	Bracket mounting dimensions Bracket assembly no.	C	D	E	F	G	J	K
1(P)	2(A)																											
M5	M5	VHK□A-M5-M5	18	41	58.2	29.1	29.1	16.5	3.5	11	0.4	0.15	0.08	0.25	0.6	0.06	23	51	11	11	VHK-B1A	44.5	14.5	1	27	22	16.5	26
1/8	M5	VHK□A-01S-M5			61.6	32.6	29										26	54	13									
	1/8	VHK□A-01S-01S			65.2		32.6				1.6		0.35				30	57		13								
1/4	1/8	VHK□A-02S-01S			71.6	39					1.8		0.37				39	62	17									
	1/4	VHK□A-02S-02S			78		39				1.9		0.39				47	66		17								
3/8	1/4	VHK□A-03S-02S	22	46	85.1	44.3	40.8	21.5	4	14	2.7		0.56	0.67		0.16	65	73	19		VHK-B2A	49	17	1	30	25	21.5	31
	3/8	VHK□A-03S-03S			88.6		44.3				3.1						72	76		19								
1/2	3/8	VHK□A-04S-03S			93	48.7					2.8		0.61				90	79	22									
	1/2	VHK□A-04S-04S			97.4		48.7				3.4		0.71				101	81		22								

*1 3-port valve *2 Reference dimensions after insertion of R thread.

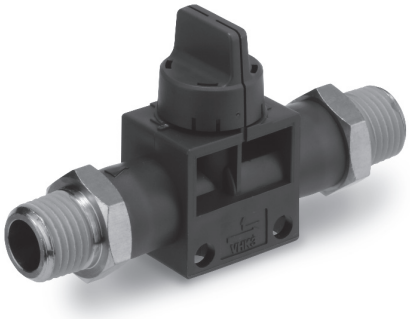
Flame Resistant Type: 1(P)/2(A): One-touch Fitting

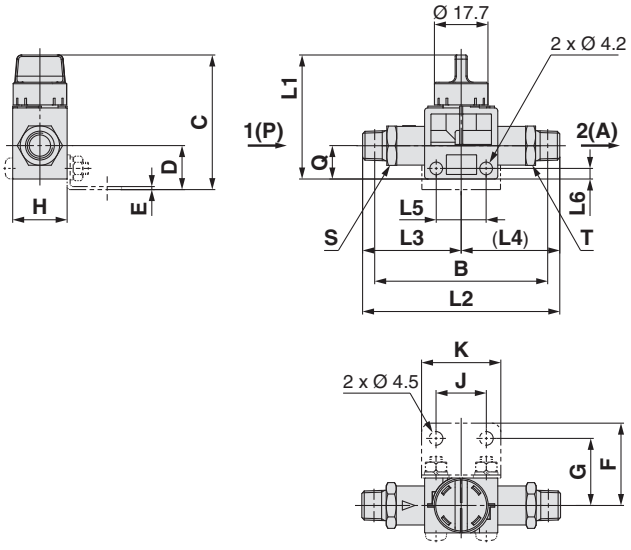




Applicable tubing O. D. [mm]		Model	H	L1	L2	L3	L4	L5	L6	L7	Q	M1	M2	Flow rate characteristics						Weight (g)	S	Bracket mounting dimensions							
														1(P)→2(A)			2(A)→3(R)					Bracket assembly no.	C	D	E	F	G	J	K
1(P)	2(A)													C[dm³/(s·bar)]	b	Cv	C[dm³/(s·bar)]	b	Cv										
4	**4**	**VHK□AR-04F-04F**	18	41	47.6	23.8	28.8	16.5	3.5	51.6	11	15.8	15.8	0.4	0.15	0.14	0.25	0.6	0.08	15	Ø 14.4	VHK-B1A	44.5	14.5	1	27	22	16.5	26
6	**6**	**VHK□AR-06F-06F**			48,6	24.3	24.3			52.6		16.8	16.8	0.4		0.35				16	Ø 16.8								
8	**8**	**VHK□AR-08F-08F**			52.4	26.2	26.2			56.4		18.7	18.7	1.9		0.39				17	Ø 19.2								
10	**10**	**VHK□AR-10F-10F**	22	46	61	30.5	30.5	21.5	4	65	4	20.8	20.8	3.1		0.65	0.67		0.21	29	Ø 23.3	VHK-B2A	49	17		30	25	21.5	31
12	**12**	**VHK□AR-12F-12F**			63	31.5	31.5			67		21.8	21.8	3.4		0.70				32	Ø 25.7								

Flame Resistant Type: 1(P)/2(A): Male Thread





∗Reference dimensions after insertion of R thread

Connection thread R		Model	H	L1	L2	L3	L4	L5	L6	Q	B∗	Flow rate characteristics						Weight (g)	S (Width across flat)	T (Width across flat)	Bracket mounting dimensions							
												1(P)→2(A)			2(A)→3(R)						Bracket assembly no.	C	D	E	F	G	J	K
1(P)	2(A)											C[dm³/(s·bar)]	b	Cv	C[dm³/(s·bar)]	b	Cv											
1/8	1/8	**VHK□AR-01S-01S**	18	41	65.2	32.6	32.6	16.5	3.5	11	57	1.6	0.15	0.35	0.25	0.6	0.08	30	13	13	VHK-B1A	44.5	14.5	1	27	22	16.5	26
1/4	1/4	**VHK□AR-02S-02S**			78	39	39				66	1.9		0.39				47	17	17								
3/8	3/8	**VHK□AR-03S-03S**	22	46	88.6	44.3	44.3	21.5	4	14	76	3.1		0.66	0.67		0.21	72	19	19	VHK-B2A	49	17	1	30	25	21.5	31
1/2	1/2	**VHK□AR-04S-04S**			97.4	48.7	48.7				81	3.7		0.71				101	22	22								

VHK-A Series
Made to Order

Please contact SMC for detailed dimensions, specifications, and lead times.

Made to Order

1 IN/OUT Size: Altered 1/4" Valve — X205

VHK 2 A–07F–07F □ □ –X205

Valve model

2	2-port valve
3	3-port valve

1(P) port size: 1/4"

2(A) port size: 1/4"

Knob colour

— (standard)	2-port valve	Grey
	3-port valve	Blue
R (Option)	2-port valve	Red
	3-port valve	

Bracket

—	None
L	With L-bracket

∗ Bracket and screws are attached.

IN/OUT size: Altered 1/4" valve

2 IN/OUT Size: Altered 5/16" Valve — X216

VHK 2 A–09F–09F □ □ –X216

Valve model

2	2-port valve
3	3-port valve

1(P) port size: 5/16"

2(A) port size: 5/16"

Knob colour

— (standard)	2-port valve	Grey
	3-port valve	Blue
R (Option)	2-port valve	Red
	3-port valve	

Bracket

—	None
L	With L-bracket

∗ Bracket and screws are attached.

IN/OUT size: Altered 5/16" valve

3 IN/OUT Size: Altered 3/8" Valve — X209

VHK 2 A–11F–11F □ □ –X209

Valve model

2	2-port valve
3	3-port valve

1(P) port size: 3/8"

2(A) port size: 3/8"

Knob colour

— (standard)	2-port valve	Grey
	3-port valve	Blue
R (Option)	2-port valve	Red
	3-port valve	

Bracket

—	None
L	With L-bracket

∗ Bracket and screws are attached.

IN/OUT size: Altered 3/8" valve

4 IN/OUT Size: Altered 1/2" Valve — X247

VHK 2 A–13F–13F □ □ –X247

Valve model

2	2-port valve
3	3-port valve

1(P) port size: 1/2"

2(A) port size: 1/2"

Knob colour

— (standard)	2-port valve	Grey
	3-port valve	Blue
R (Option)	2-port valve	Red
	3-port valve	

Bracket

—	None
L	With L-bracket

∗ Bracket and screws are attached.

IN/OUT size: Altered 1/2" valve

VHK-A Series
Specific Product Precautions

Be sure to read this before handling the products.

Design

⚠ Warning

1. **Please contact SMC when fluids other than air are used.**
2. **Do not supply air pressure from 2(A) port. The air will leak out from 1(P) port.**
3. **Since the valve allows a small volume of air leakage, it may not be suitable for holding pressure in a pressure vessel.**

Selection

⚠ Caution

Operation method:

The valve must be switched to OPEN or SHUT instantly and securely. Stopping the handle halfway between the extreme positions may cause malfunction.

Mounting

⚠ Caution

L type bracket mounting:

Apply a tightening torque of 0.5 to 0.6 N·m to the bolts when the bracket is mounted on the body.

Piping

⚠ Caution

Precautions for handling the male threads of the R pipe fitting with seal

1. Use a wrench to secure the hexagon portion to screw in the fitting. If thesize of the wrench is not appropriate it will be stripped.

2. To screw in the fitting, first hand-tighten; then, use a tool to rotate it 2 to 3turns. If it is tightened excessively, more sealing agent will be forced out. Therefore, make sure to remove the extra sealing agent.

3. Re-use of fittings:

1) Ordinarily, the fitting can be reused 2 to 3 times.

2) Before reusing the fitting, clear off the sealing agent that remains on the removed pipe fitting using an air blower. If the sealing agent is peeled off and enters the peripheral equipment, it can cause air leakage.

3) If the sealing effect has been lost, wrap a seal tape over the sealing agent to reuse the fitting. Do not use any sealing agent other than seal tape.

One-touch Fitting

⚠ Caution

1. When tubing of brands other than SMC's are used, verify that the tubing O.D. satisfies the following accuracy;

• Nylon tubing ····· Within ±0.1 mm

• Soft nylon tubing ····· Within ±0.1 mm

• Polyurethane tubing ····· Within +0.1 mm, -0.2 mm

If the tube's external accuracy is not satisfied, it may not be possible to connect the tube. Even if it is connected, air leakage or tube disconnection may result.

⚠ Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of **"Caution," "Warning"** or **"Danger."** They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC) [1], and other safety regulations.

⚠ **Caution:**	**Caution** indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
⚠ **Warning:**	**Warning** indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
⚠ **Danger:**	**Danger** indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

1) ISO 4414: Pneumatic fluid power – General rules relating to systems.
ISO 4413: Hydraulic fluid power – General rules relating to systems.
IEC 60204-1: Safety of machinery – Electrical equipment of machines. (Part 1: General requirements)
ISO 10218-1: Manipulating industrial robots - Safety.
etc.

⚠ Warning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.
Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalogue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.
The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.
1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.

4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.
1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalogue.
3. An application which could have negative effects on people, property, or animals requiring special safety analysis.
4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

⚠ Caution

1. The product is provided for use in manufacturing industries.
The product herein described is basically provided for peaceful use in manufacturing industries.
If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary.
If anything is unclear, contact your nearest sales branch.

Limited warranty and Disclaimer/Compliance Requirements

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements".Read and accept them before using the product.

Limited warranty and Disclaimer

1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first. [2] Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue for the particular products.

2) Vacuum pads are excluded from this 1 year warranty.
A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

⚠ Caution

SMC products are not intended for use as instruments for legal metrology.
Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country.
Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

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