

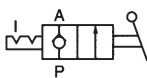
SERIES VHK
SELECTOR TYPE 2-AND 3-WAY VALVES

- ✓ Large effective orifice of 2.0~17.5 mm²
- ✓ Small knob operating force of 0.43~1.4 kgf/cm²
- ✓ Poppet valve construction with little seal defect
- ✓ Classification of a knob by colour difference facilitates distinction between two-way and three-way valves.

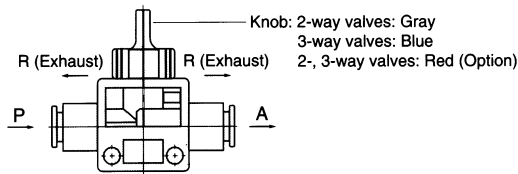
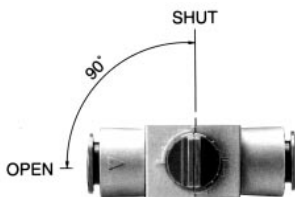


SYMBOLS
VHK FINGER VALVE

2-way valves



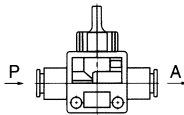
3-way valves



TECHNICAL
SPECIFICATIONS

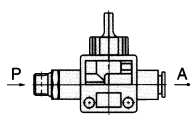
Valve type	2-way,3-way valves
Fluid	Air
Max. Operation pressure	1.0MPa {10.2kgf/cm ² }
Ambient & Fluid temperature	0~60°C
Proof Pressure	1.5MPa {15.3kgf/cm ² }
*Operating vacuum pressure	-100kPa(10 Torr)
Applicable tube material	Nylon,soft nylon,polyurethane
Accessory (option)	Bracket

*Use VHK (2-way valves) for vacuum use



P: One-touch; A: One-touch

P \ A		Applicable tube O.D. (mm)				
		ø4	ø6	ø8	ø10	ø12
Applicable tube O.D. (mm)	ø4	•				
	ø6	•	•			
	ø8		•	•		
	ø10			•	•	
	ø12				•	•



P: Male thread; A: One-touch

P \ A		Applicable tube O.D. (mm)				
		ø4	ø6	ø8	ø10	ø12
Port Size R(PT)	M5	•	•			
	1/8	•	•	•		
	1/4		•	•	•	•
	3/8		•	•	•	•
	1/2				•	•

HOW TO
ORDER
VHK FINGER VALVE

VHK — — — —

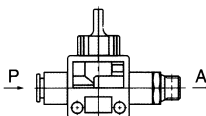
VALVE TYPE
22-way valves
33-way valves

P-PORT SIZE
A-PORT SIZE

04F ...ø4
06F ...ø6
08F ...ø8
10F ...ø10
12F ...ø12
M5 ...M5x0.8
01S ...R(PT)1/8
02S ...R(PT)1/4
03S ...R(PT)3/8
04S ...R(PT)1/2

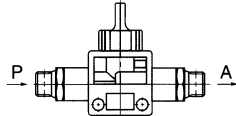
KNOB COLOUR
Nil2-way valves ...Grey
(standard) 3-way valves ...Blue
R2-way valves ...Red
(option) ...3-way valves ...Red

BRACKET
Nil ...None
Lwith L-bracket
*Bracket & screws are packed
simultaneously



P: One-touch; A: Male thread

P \ A		Port Size R(PT)				
		M5	1/8	1/4	3/8	1/2
Applicable tube O.D. (mm)	ø4	•	•			
	ø6	•	•	•	•	
	ø8		•	•	•	
	ø10			•	•	•
	ø12			•	•	•



P: Male thread; A: Male thread

P \ A		Port Size R(PT)				
		M5	1/8	1/4	3/8	1/2
Port Size R(PT)	M5	•				
	1/8	•	•			
	1/4		•	•		
	3/8			•	•	
	1/2				•	•

STOCKED PRODUCTS
FOR A LIST OF STOCKED PRODUCTS,
PLEASE SEE THE CURRENT SMC PRICE LIST

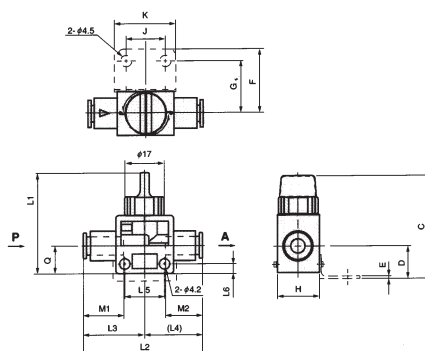


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DETAILS ON THIS
PRODUCT REQUEST
CATALOGUE REFERENCE
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FINGER VALVE SERIES VHK

DIMENSIONS

P: A – ONE-TOUCH FITTINGS

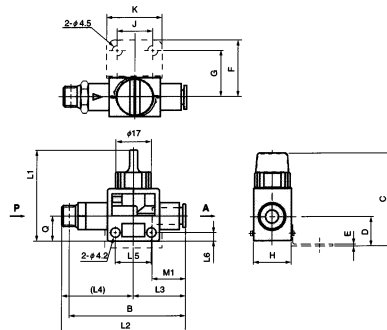


Applicable tube (mm)		Model	H	L1	L2	L3	L4	L5	L6	M1	M2	Q	Effective orifice (mm ²)		Weight g	Bracket mounting dimension							
P	A												P-A	•A-R		Bracket ass'y no.	C	D	E	F	G	J	K
Ø4	Ø4	VHK●-04F-04F	18	41	47.6	23.8	23.8	16.5	3.5	15.8	15.8	11	3.4	1.2	15	VHK-B1A	44.5	14.5	1	27	22	16.5	26
Ø6	Ø4	VHK●-06F-04F	18	41	48	24.3	23.7	16.5	3.5	16.8	15.8	11	5.1	1.2	15	VHK-B1A	44.5	14.5	1	27	22	16.5	26
Ø6	Ø6	VHK●-06F-06F	18	41	48.6	24.3	24.3	16.5	3.5	16.8	16.8	11	7.2	1.2	16	VHK-B1A	44.5	14.5	1	27	22	16.5	26
Ø8	Ø6	VHK●-08F-06F	18	41	50.5	26.2	24.3	16.5	3.5	18.7	16.8	11	9	1.2	16	VHK-B1A	44.5	14.5	1	27	22	16.5	26
Ø8	Ø8	VHK●-08F-08F	18	41	52.4	26.2	26.2	16.5	3.5	18.7	18.7	11	9.7	1.2	17	VHK-B1A	44.5	14.5	1	27	22	16.5	26
Ø10	Ø8	VHK●-10F-08F	22	46	58.5	30.5	28	21.5	4	20.8	18.7	14	13.7	3.2	28	VHK-B2A	49	17	1	30	25	21.5	31
Ø10	Ø10	VHK●-10F-10F	22	46	61	30.5	30.5	21.5	4	20.8	20.8	14	16.1	3.2	29	VHK-B2A	49	17	1	30	25	21.5	31
Ø12	Ø10	VHK●-12F-10F	22	46	62	31.5	30.5	21.5	4	21.8	20.8	14	17	3.2	31	VHK-B2A	49	17	1	30	25	21.5	31
Ø12	Ø12	VHK●-12F-12F	22	46	63	31.5	31.5	21.5	4	21.8	21.8	14	17.5	3.2	32	VHK-B2A	49	17	1	30	25	21.5	31

*For three-way valves

DIMENSIONS

P: MALE THREAD – A: ONE-TOUCH FITTINGS



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

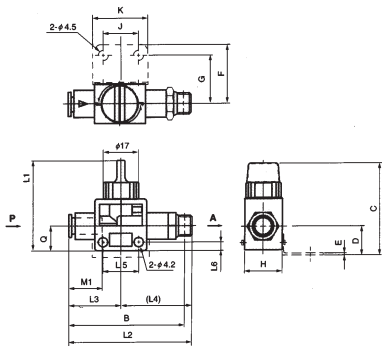
*For three-way valves

*Reference dimensions after insertion of R(PT) thread)


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E132

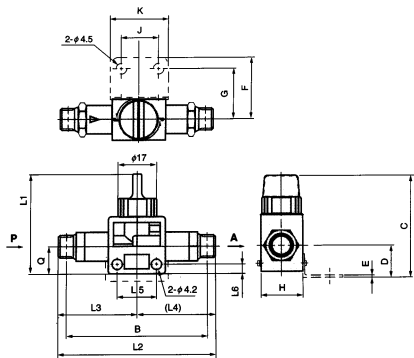
DIMENSIONS
P: ONE-TOUCH FITTINGS – A: MALE THREAD



Applicable tube (mm)	Connection thread R(PT)	Model	H	L1	L2	L3	L4	L5	L6	M1	Q	Effective orifice (mm ²)		Weight g	•B	Bracket mounting dimension							
												P-A	•A-R			Assembly no.	C	D	E	F	G	J	K
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	VHK-B1A	44.5	14.5	1	27	22	16.5	26
4	⅜	VHK●-04F-01S	18	41	55.4	23.8	31.6	16.5	3.5	15.8	11	3.4	1.2	21	51	VHK-B1A	44.5	14.5	1	27	22	16.5	26
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	VHK-B1A	44.5	14.5	1	27	22	16.5	26
6	⅜	VHK●-06F-01S	18	41	56.9	24.3	32.6	16.5	3.5	16.8	11	7.2	1.2	23	53	VHK-B1A	44.5	14.5	1	27	22	16.5	26
6	⅜	VHK●-06F-02S	18	41	60.4	24.3	36.1	16.5	3.5	16.8	11	7.2	1.2	31	54	VHK-B1A	44.5	14.5	1	27	22	16.5	26
6	⅜	VHK●-06F-03S	18	41	62.4	24.3	38.1	16.5	3.5	16.8	11	7.2	1.2	41	56	VHK-B1A	44.5	14.5	1	27	22	16.5	26
8	⅜	VHK●-08F-01S	18	41	62.2	26.2	36	16.5	3.5	18.7	11	9.7	1.2	31	58	VHK-B1A	44.5	14.5	1	27	22	16.5	26
8	⅜	VHK●-08F-02S	18	41	65.2	26.2	39	16.5	3.5	18.7	11	9.7	1.2	32	59	VHK-B1A	44.5	14.5	1	27	22	16.5	26
8	⅜	VHK●-08F-03S	18	41	66.2	26.2	40	16.5	3.5	18.7	11	9.7	1.2	40	60	VHK-B1A	44.5	14.5	1	27	22	16.5	26
10	⅜	VHK●-10F-02S	22	46	73.8	30.5	43.3	21.5	4	20.8	14	16.1	3.2	49	68	VHK-B2A	49	17	1	30	25	21.5	31
10	⅜	VHK●-10F-03S	22	46	74.8	30.5	44.3	21.5	4	20.8	14	16.1	3.2	51	68	VHK-B2A	49	17	1	30	25	21.5	31
10	½	VHK●-10F-04S	22	46	78.2	30.5	47.7	21.5	4	20.8	14	16.1	3.2	72	70	VHK-B2A	49	17	1	30	25	21.5	31
12	⅜	VHK●-12F-02S	22	46	76.3	31.5	44.8	21.5	4	21.8	14	17.5	3.2	63	70	VHK-B2A	49	17	1	30	25	21.5	31
12	⅜	VHK●-12F-03S	22	46	77.3	31.5	45.8	21.5	4	21.8	14	17.5	3.2	64	71	VHK-B2A	49	17	1	30	25	21.5	31
12	½	VHK●-12F-04S	22	46	80.2		48.7	21.5	4	21.8	14	17.5	3.2	70	72	VHK-B2A	49	17	1	30	25	21.5	31

•For three-way valves •Reference dimensions after insertion of R(PT) thread)

DIMENSIONS
P:A – MALE THREAD



Connection thread R(PT)		Model	H	L1	L2	L3	L4	L5	L6	Q	Effective orifice (mm ²)		Weight g	•B	Bracket mounting dimension							
P	A										P-A	•A-R			Bracket ass'y no.	C	D	E	F	G	J	K
M5	M5	VHK●-M5-M5	18	41	58.2	29.1	29.1	16.5	3.5	11	2.0	1.2	23	51	VHK-B1A	44.5	14.5	1	27	22	16.5	26
⅜	M5	VHK●-01S-M5	18	41	61.6	32.6	29	16.5	3.5	11	2.0	1.2	26	54	VHK-B1A	44.5	14.5	1	27	22	16.5	26
⅜	⅜	VHK●-01S-01S	18	41	65.2	32.6	32.6	16.5	3.5	11	8.6	1.2	30	57	VHK-B1A	44.5	14.5	1	27	22	16.5	26
⅜	⅜	VHK●-02S-01S	18	41	71.6	39	32.6	16.5	3.5	11	9.0	1.2	39	62	VHK-B1A	44.5	14.5	1	27	22	16.5	26
⅜	⅜	VHK●-02S-02S	18	41	78	39	39	16.5	3.5	11	9.7	1.2	47	66	VHK-B1A	44.5	14.5	1	27	22	16.5	26
⅜	⅜	VHK●-03S-02S	22	46	85.1	44.3	40.8	21.5	4	14	13.7	3.2	65	73	VHK-B2A	49	17	1	30	25	21.5	31
⅜	⅜	VHK●-03S-03S	22	46	88.6	44.3	44.3	21.5	4	14	16.1	3.2	72	76	VHK-B2A	49	17	1	30	25	21.5	31
½	⅜	VHK●-04S-03S	22	46	93	48.7	44.3	21.5	4	14	15.1	3.2	90	79	VHK-B2A	49	17	1	30	25	21.5	31
½	½	VHK●-04S-04S	22	46	97.4	48.7	48.7	21.5	4	14	17.5	3.2	101	81	VHK-B2A	49	17	1	30	25	21.5	31

•For three-way valves •Reference dimensions after insertion of R(PT) thread)