

Hand Valve Series *VH*



Specifications

Fluid		Air
Proof pressure		1.5 MPa
Max. operating pressure	VH200/300/400	1.0 MPa
	VH600	0.7 MPa
Ambient temperature and operating fluid temperature		-5 to 60°C (No freezing)
Operating angle		90°
Lubrication		Not required (Use turbine oil Class 1 ISO VG32, if lubricated.)

Option

Bottom ported	VH300/400
Panel mounted	VH200/300/400
Different 1(P) port location (On handle side)	All models applicable *

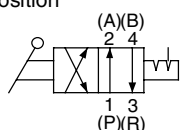


* Note that 1(P) port of VH600 is located on handle side as standard.

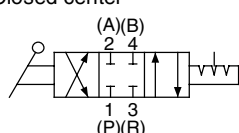
Model

JIS Symbol

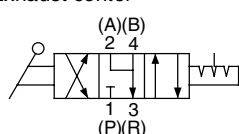
2 position



Closed center

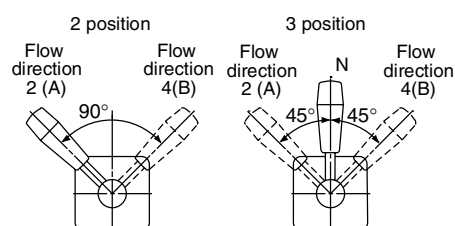


Exhaust center



Handle Operation Angle and Air Flow Direction

(Refer to the figures of piping direction to the right.)



Series	Port size Rc	Number of positions	Piping direction	Model		Effective area (mm ²)	Mass (kg)
				Body mounted	Panel mounted		
VH2	1/4	3 (Closed center)		VH200-02	VH210-02	7.5	0.42
		3 (Exhaust center)		VH201-02	VH211-02		
		2 (Position)		VH202-02	VH212-02		
VH3	1/4, 3/8	3 (Closed center)		VH300-02/03	VH310-02/03	Rc 1/4: 17	0.71
		3 (Exhaust center)		VH301-02/03	VH311-02/03		
		2 (Position)		VH302-02/03	VH312-02/03		
		3 (Closed center)		VH320-02/03	VH330-02/03	Rc 3/8: 20	
		3 (Exhaust center)		VH321-02/03	VH331-02/03		
		2 (Position)		VH322-02/03	VH332-02/03		
VH4	1/4 to 3/4	3 (Closed center)		VH400-02 to 06	VH410-02 to 06	Rc 1/4: 45	1.28
		3 (Exhaust center)		VH401-02 to 06	VH411-02 to 06	Rc 3/8: 49	
		2 (Position)		VH402-02 to 06	VH412-02 to 06		
		3 (Closed center)		VH420-02 to 06	VH430-02 to 06	Rc 1/2: 55	
		3 (Exhaust center)		VH421-02 to 06	VH431-02 to 06	Rc 3/4: 58	
		2 (Position)		VH422-02 to 06	VH432-02 to 06		
VH6	3/4, 1	3 (Closed center)		VH600-06/10	—	Rc 3/4: 185	9.7
		3 (Exhaust center)		VH601-06/10		Rc 1: 194	
		2 (Position)		VH602-06/10			

How to Order

VH 2 0 1 - 02 - - -

Hand valve

Body size (Base size)

2	1/4 base
3	3/8 base
4	1/2 base
6	1 base

Piping/Mounting

Symbol	Piping ^{Note)}	Mounting method
0	Side	Body
1	Side	Panel mounting
2	Bottom	Body
3	Bottom	Panel mounting

 Note) Only side piping is available for VH200 and VH600 and 3(R) port is located on the bottom.

Function

0	3 position closed center
1	3 position exhaust center
2	2 position

Made to Order

Nil	Standard
X116	Handle (Red)

Suffix symbol

Nil	Standard
L	Long handle (Applicable to VH300/400)
R	1(P) port 180° location change

* When specifying more than one option, indicate symbols alphabetically.

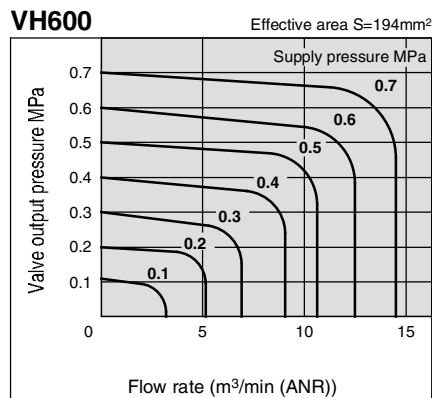
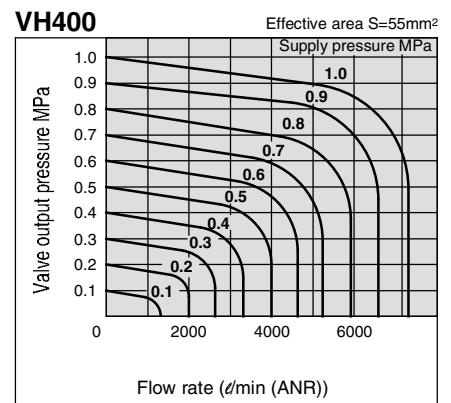
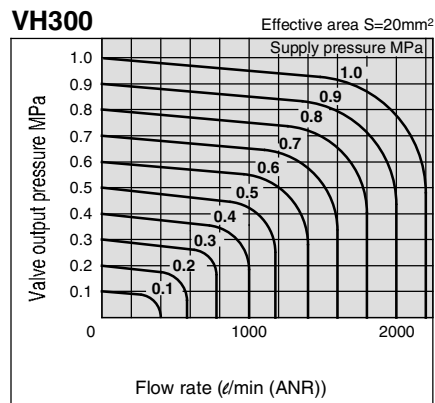
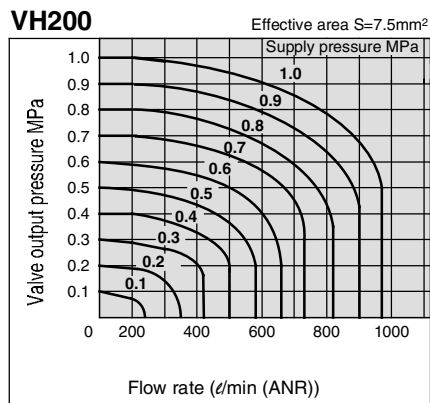
Port size (Nominal size)

Symbol	Port size (Nominal size)	Applicable body size
02	1/4	2, 3, 4
03	3/8	3, 4
04	1/2	4
06	3/4	6
10	1	6

Thread type

Nil	Rc
F	NPT
N	G

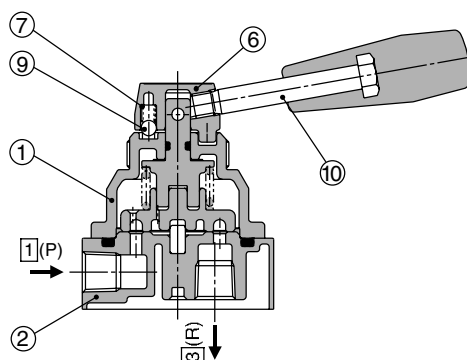
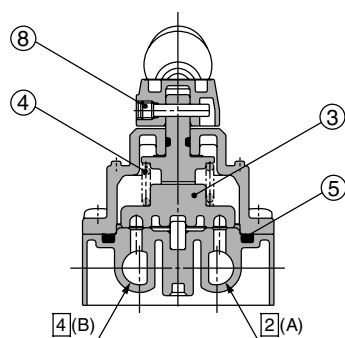
Flow Characteristics



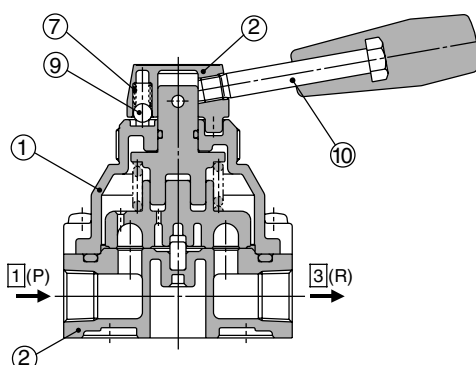
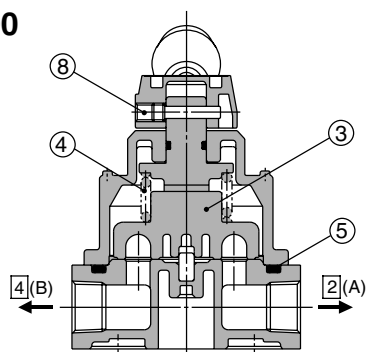
Series VH

Construction

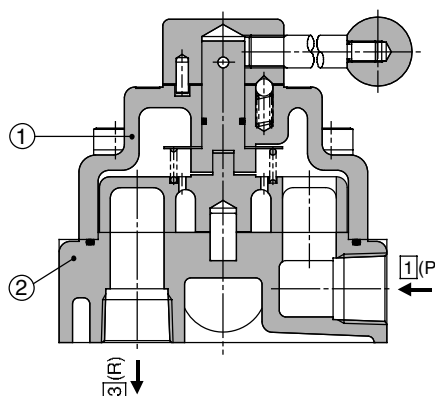
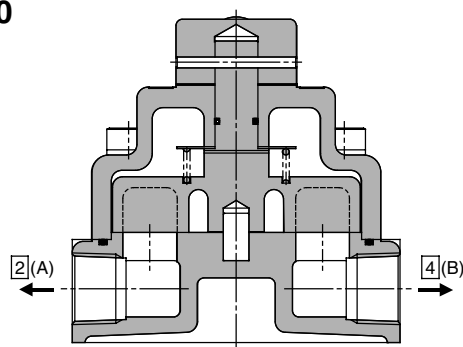
VH200



VH300/400



VH600



Component Parts

No.	Description	Material	
		VH200/300/400	VH600
1	Cover	Zinc die-casted	Cast iron
2	Body	Aluminium die-casted	Cast iron

Replacement Parts

Description	No.	Component parts	Material	Part no.		
				VH200	VH300	VH400
Maintenance and repair kit *	3	Slide ring	Resin			
	4	Slide ring spring	Piano wire	KT-VH2□□-N	KT-VH3□□-N	KT-VH4□□-N
	5	O-ring	NBR			
Handle head assembly *	6	Handle head	Zinc alloy			
	7	Spring	Piano wire	24403A	24413A	24413A
	8	Pin	Structural steel			
	9	Steel ball	SUJ			
Handle head assembly *	6	Handle head	Zinc alloy			
	7	Spring	Piano wire	244036A	244125A	244125A
	8	Pin	Structural steel			
	9	Steel ball	SUJ			
Handle	10	Handle	—			
		Standard		244032	244032	244032
		Long type		—	244127	244223
		Red		244035	244035	244035

Note) Replacement parts for the VH600 series are not available.

* Including grease.

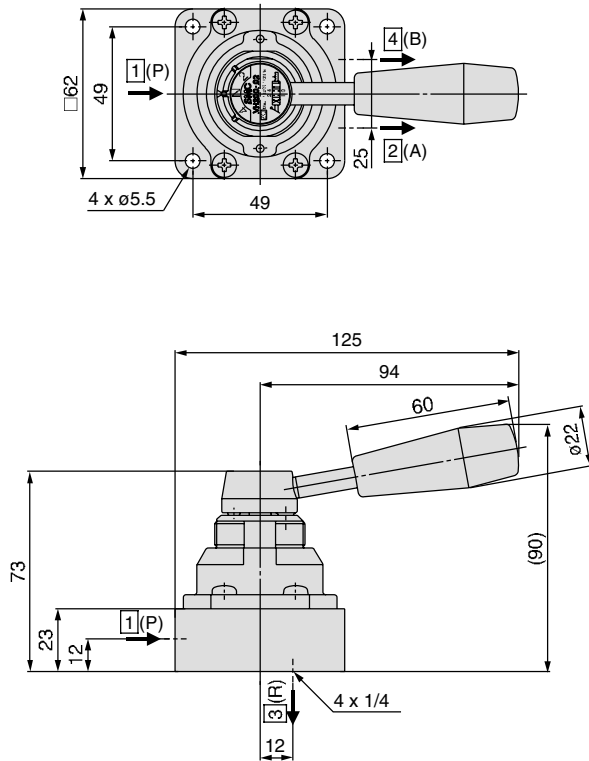
Part No. of Lock Nut for Panel Mounting

Series	Part no.
VH200	244010
VH300	24418
VH400	240258

Note) Not applicable to the VH 600 series.

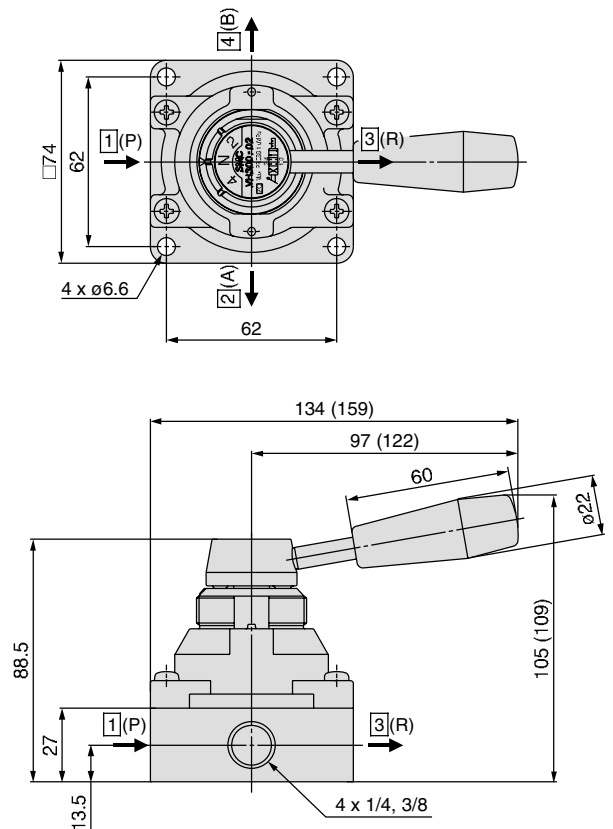
Dimensions: Body Mounted

VH20□-02

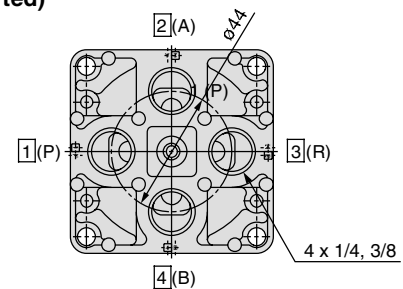


VH30□-02/03

 (): Long handle type



VH32□-02/03 (Bottom ported)

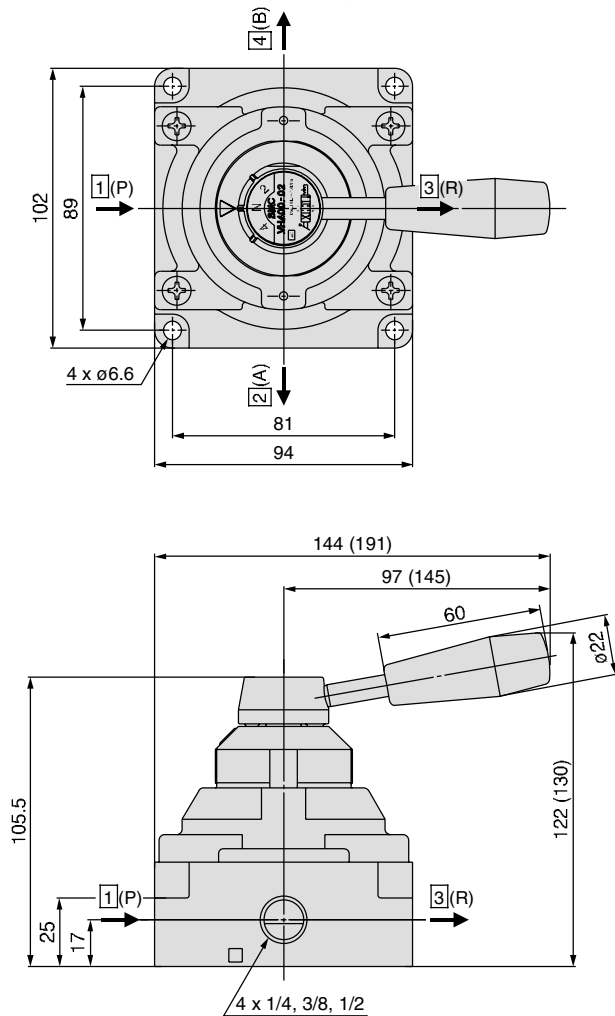


Series VH

Dimensions: Body Mounted

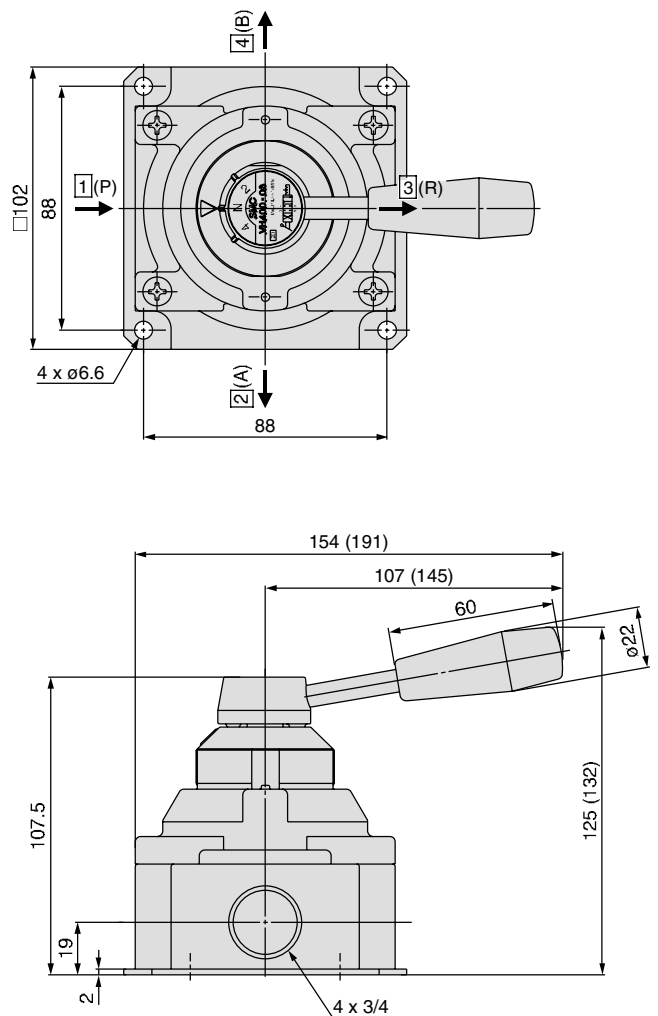
VH40□-02 to 04

(): Long handle type

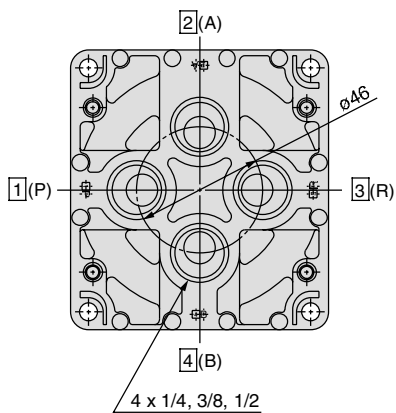


VH40□-06

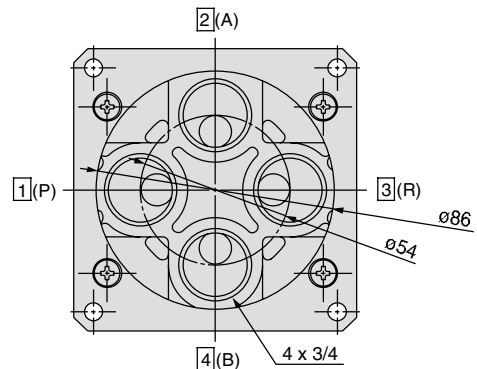
(): Long handle type



VH42□-02 to 04 (Bottom ported)

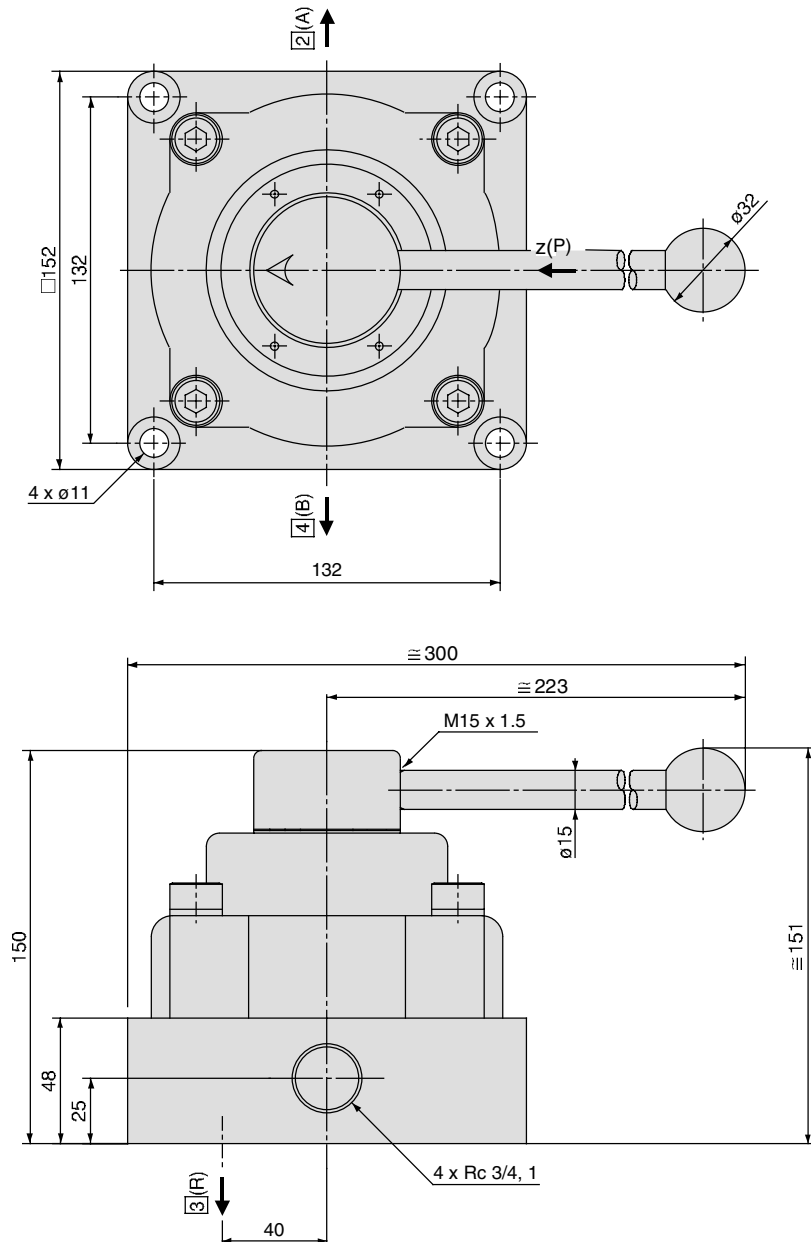


VH42□-06 (Bottom ported)



Dimensions: Body Mounted

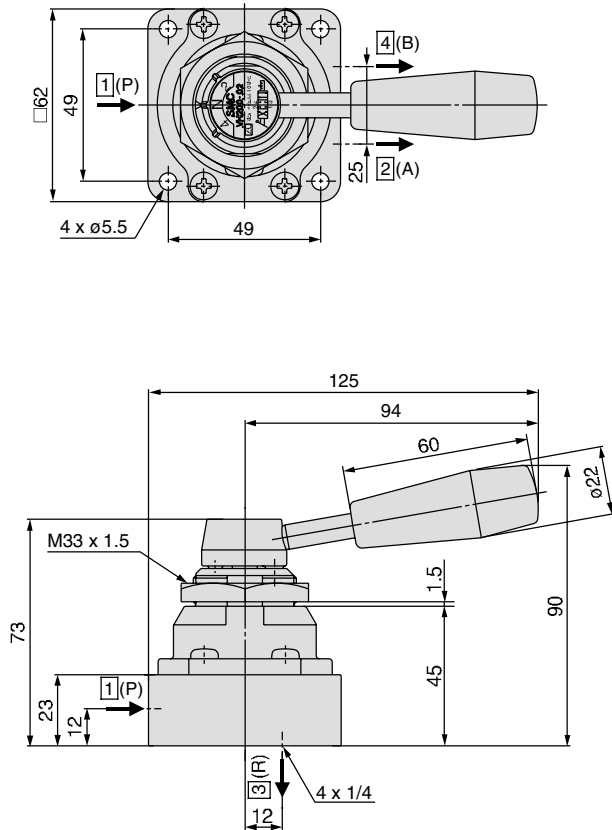
VH600-06/10



Series VH

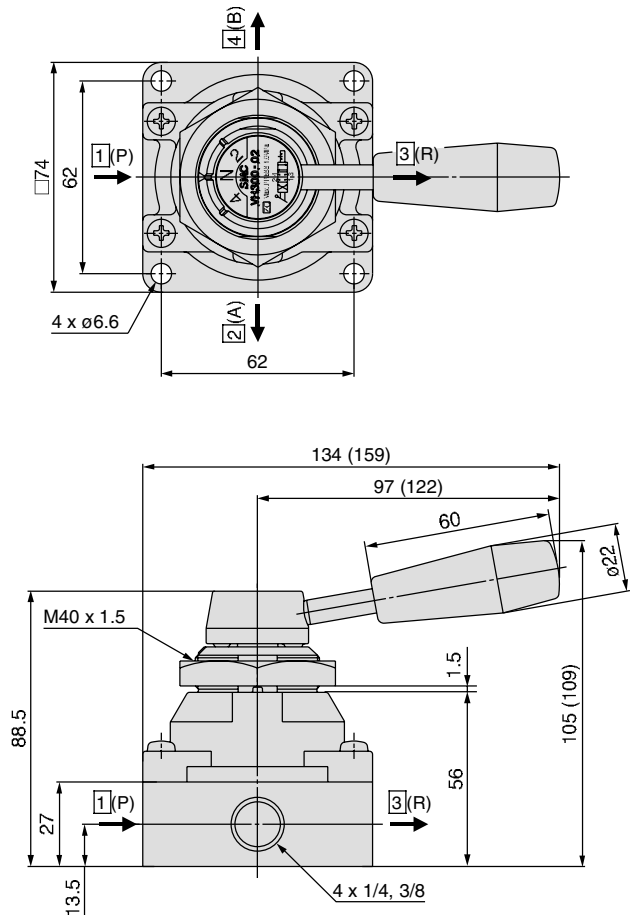
Dimensions: Panel Mounted

VH21□-02

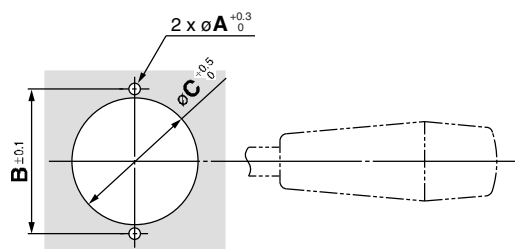


VH31□-02/03

() : Long handle type



Panel cut dimension

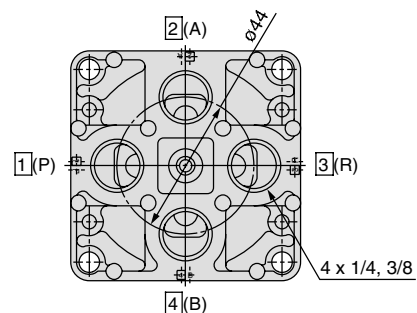


Max. panel thickness D

	A	B	C	D
VH200	3.2	40	35	3.5
VH300	3.2	51	41	6
VH400	3.2	64	51	8

VH33□-02/03

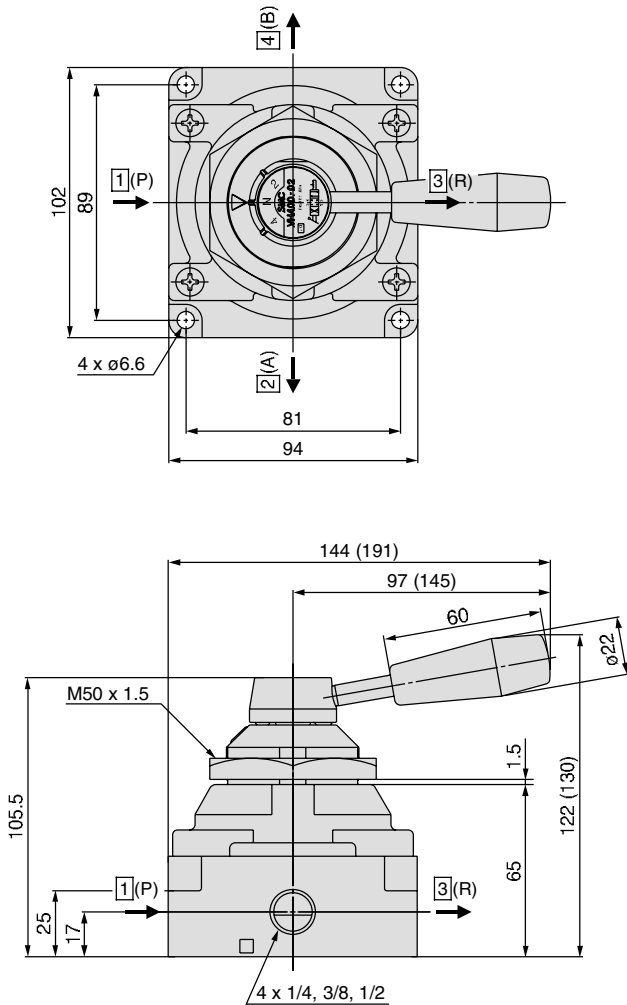
(Bottom ported)



Dimensions: Panel Mounted

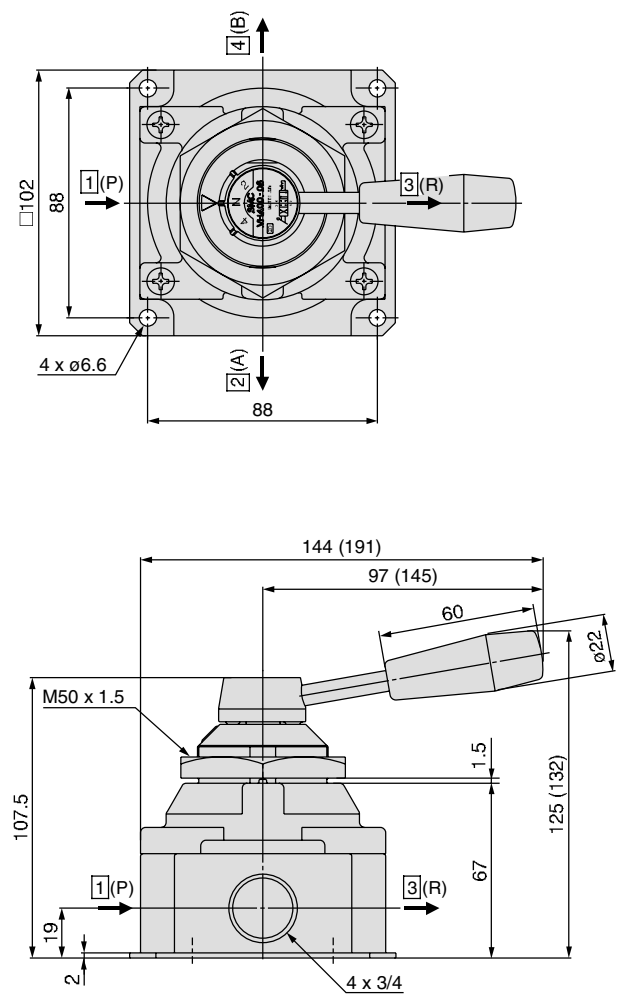
VH41□-02 to 04

(): Long handle type

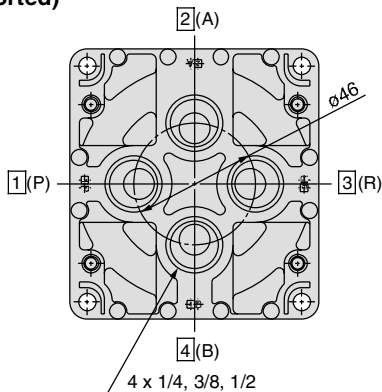


VH41□-06

(): Long handle type



VH43□-02 to 04 (Bottom ported)



VH43□-06 (Bottom ported)

