

Steam Valve

Series VND

2 Port Valve for Steam

2 Port Valve for Steam Max. **180°C**

**By adopting of PTFE seal,
the valve is suited for steam.**

Body material: Bronze, Stainless steel

Large valve capacity

Wide variations

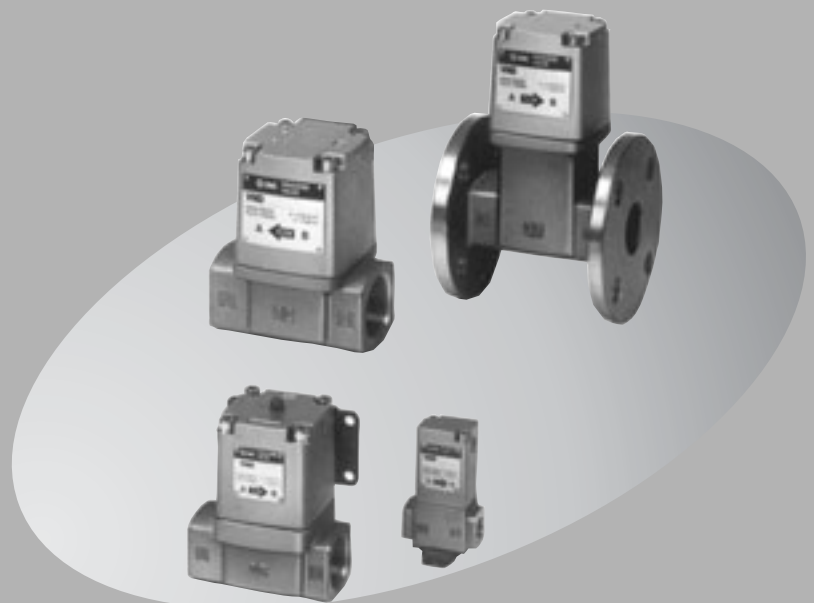
2 types — N.C., N.O.
Threaded type (6A to 50A)
Flange type (32F to 50F)

**With indicator light
(Option)**

Selectable with indicator (for visual verification of operation)

**Cylinder actuation
by external pilot air**

PTFE seal



VNA

VNB

SGC

VNC

VNH

VND

VCC

Steam Valve: 2 Port Valve For Steam

Series VND

How to Order

Air operated VND 2 0 D S - 15A -

Body option

Nil	Standard (Copper alloy)
S*	Stainless steel body

* Threaded type only

Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

Valve size

Symbol	Orifice dia. (mm)	Symbol			Symbol	Port size Rc
		0	2	4		
1	ø7	N.C.	N.O.	N.C.	6A	1/8
		—	●	●	8A	1/4
		—	●	●	10A	3/8
2	ø15	●	●	—	10A	3/8
		●	●	—	15A	1/2
3	ø20	●	●	—	20A	3/4
4	ø25	●	●	—	25A	1
5	ø32	●	●	—	32A	1 1/4
		●	●	—	32F	1/4 B Flange
6	ø40	●	●	—	40A	1 1/2
		●	●	—	40F	1/2 B Flange
7	ø50	●	●	—	50A	2
		●	●	—	50F	2B Flange

Valve type

Port size

Option

Nil	None
B*	With bracket
L	With indicator light (visual verification of operation)
BL*	With bracket and indicator light (visual verification of operation)

* Brackets (for valve size 1/2/3/4 only) will be assembled at the time of shipment.
Bracket part no.
Valve size 1: VN1-A16 (with thread)
Valve size 2 to 4: VN□-16

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Model

Model	Port size		Orifice dia. ø (mm)	Flow characteristics Av x 10 ⁻⁶ m ²	Mass (kg)
	Rc	Flange <small>Note)</small>			
VND10□D-6A	1/8	—	7	26	0.3
VND10□D-8A	1/4	—		28	
VND10□D-10A	3/8	—		31	
VND20□D-10A	—	—	15	120	0.6
VND20□D-15A	1/2	—		130	
VND30□D-20A	3/4	—	20	240	0.9
VND40□D-25A	1	—	25	380	1.4
VND50□D-32A	1 1/4	—	32	440	2.3
VND50□D-32F	—	32			5.5
VND60□D-40A	1 1/2	—	40	920	3.6
VND60□D-40F	—	40			7.2
VND70□D-50A	2	—	50	1500	5.7
VND70□D-50F	—	50			10.8



Note) The companion flange is JIS B 2210 10K (standard) or its equivalent.

Valve Specifications

Fluid (Main piping)		Steam	
Fluid temperature		-5 to 180°C <small>Note 1)</small>	
Ambient temperature		-5 to 60°C <small>Note 1)</small>	
Proof pressure		1.5 MPa	
Operating pressure range		0 to 0.97 MPa	
External pilot air	Pressure	N.C.	0.3 to 0.7 MPa
		N.O.	0.1 + 0.25 x (Operating pressure) to 0.25 + 0.25 x (Operating pressure) MPa Refer to below "Graph (1)".
	Lubrication	Not required	
	Temperature	-5 to 60°C <small>Note 1)</small>	
Mounting orientation		Unrestricted	



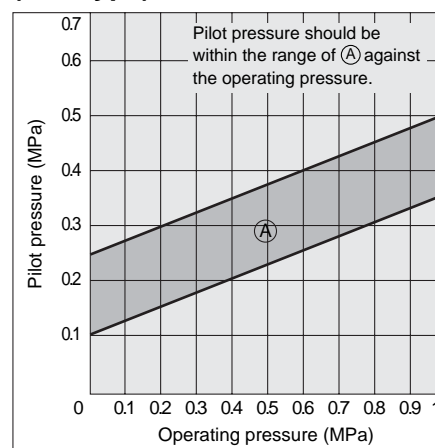
Note 1) No freezing

Note 2) Non-lubricant specifications are not available for this product.

JIS Symbol

Valve type	N.C.		N.O.	
	Normally closed		Normally open	
VND1				
VND 2, 3, 4, 5, 6, 7				

Graph (1) VND□ 02 D Pilot Pressure (N.O. type)



VNA

VNB

SGC

VNC

VNH

VND

VCC