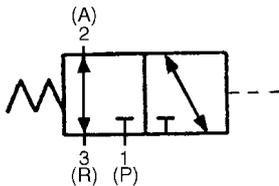


# Series VTA315



JIS Symbol



## Specifications

Fluid	Air
Operating pressure range (MPa)	0 to 1.0
Pilot pressure range (MPa)	0.1 to 1.0
Ambient and fluid temperature (°C)	-10 to 60°C (No freezing. Refer to page 5-11-4.)
Lubrication	Not required (Use turbine oil Class 1 ISO VG32, if lubricated.)
Impact/Vibration resistance (m/s <sup>2</sup> ) Note)	150/50
Enclosure	Dustproof



Note) Impact resistance: No malfunction from test using drop impact tester, to axis and right angle directions of main valve, each one time when pilot signal ON and OFF. (Value in the initial stage)

Vibration resistance: No malfunction occurs on the test with one sweep from 45 to 1000 Hz, to axis and right angle directions of main valve each time when energized and de-energized. (Value in the initial stage)

## Flow Characteristics/Weight

Valve model	Flow characteristics												Weight (kg)
	1 → 2 (P → A)			2 → 3 (A → R)			3 → 2 (R → A)			2 → 1 (A → P)			
	C [dm <sup>3</sup> /(s·bar)]	b	Cv	C [dm <sup>3</sup> /(s·bar)]	b	Cv	C [dm <sup>3</sup> /(s·bar)]	b	Cv	C [dm <sup>3</sup> /(s·bar)]	b	Cv	
VTA315	1.6	0.30	0.39	1.7	0.39	0.45	1.9	0.38	0.49	1.7	0.36	0.45	0.16
VOA315	1.4	0.12	0.33	1.2	0.18	0.29	1.5	0.16	0.35	1.2	0.13	0.28	

## ⚠ Precautions

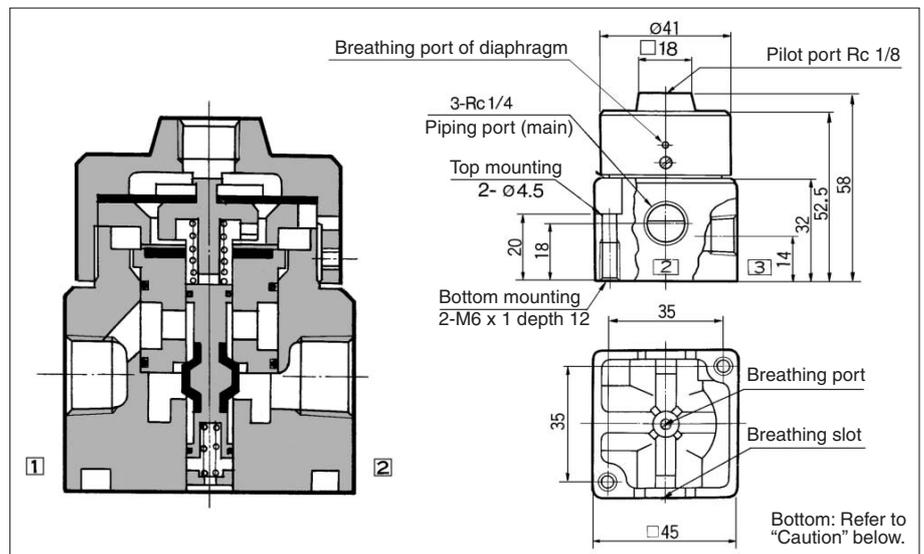
Be sure to read before handling. Refer to pages 5-11-2 to 6 for Safety Instruction and Solenoid Valve Precautions.

### For manifold

#### ⚠ Caution

- Each valve is fixed on the manifold with two M4 mounting screws. Please tighten the screws properly when valves are reassembled.  
Screw tightening torque: 1.4 N·m
- When using 6 or more stations on the manifold, supply pressure from both sides of P port.  
In the case of common exhaust type, exhaust air from both sides of R port as well.

## Construction/Dimensions



#### ⚠ Caution

- This valve has a breathing port for the main valve at the bottom. To prevent malfunctions, do not clog the breathing port.  
(When mounted on a metal surface, breathing air can go through from the breathing port to the breathing groove; however, when the valve is mounted on a rubber surface, the breathing air may be blocked by the deformation of rubber.)
- Take measures to prevent ingress of dust and foreign matter from the exhaust port and other unused ports. Also, take measures to prevent ingress of water and foreign matter from the breathing port of the diaphragm.