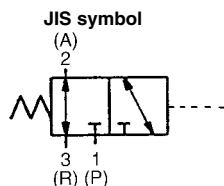


3 Port Air Operated Valve

Series VTA301



Model

Model ⁽¹⁾	Style	Port size Pc(PT)	Effective area (mm ²)(N ₀ /min) ⁽²⁾	Pilot port size Rc(PT)	Weight (kg) ⁽²⁾
VTA301-01	Universal porting style	1/8	2.3(127.60)	1/8	0.11 With bracket
VTA301-02	Universal porting style	1/4	3.2(176.67)	1/8	0.11 With bracket



Note 1) Suffix "B" for bracket equipped model.
Note 2) Value for a single valve unit.

Manifold Model

Model	Applicable manifold model	Accessory (Part No.)
VOA301	Common/Individual EXH	Function plate (DXT060-32-4A)

Specifications

Fluid	Air
Operating pressure range	0 to 1.0 MPa
Pilot pressure range	0.2 to 1.0 MPa
Ambient and fluid temperature	(No freezing) to 50°C
Lubrication	Not required (Use turbine oil class 1 ISOVG32 if lubricating)
Impact/Vibration resistance ⁽¹⁾	150/50 m/s ²
Enclosure	Dust proof



Note 1) Impact resistance: No malfunction occurs on the test using dropping style impact tester, to axis and right angle directions of main valve each one time when energized and de-energized. (Value in the initial stage.)

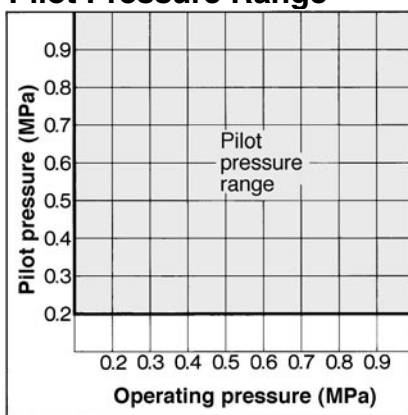
Vibration resistance: No malfunction occurs on the test with at 45 to 1000Hz, one sweep, to axis and right angle directions of main valve each time when energized and de-energized. (Value in the initial stage.)

⚠ Precautions

Manifold ⚠ Caution

- Each valve is fixed on the manifold by mounting screw M4-2. Please tighten the bolts properly when valves are reassembled.
Screw tightening torque: 1.4Nm
- M4 or equivalent bolts should be tightened evenly to mount the valve to the manifold base.
- In case of common exhaust style, pressurization or vacuum suction through R port is not possible.
- In case of 6 stations or more, supply pressure from both sides of P port. In the case of common exhaust style, exhaust air from both sides of R port as well.

Pilot Pressure Range



How to Order Manifold

VVTA300-□-□-□

• Stations • EXH port style • A port size

Stations	EXH port style	A port size
02	2	1 Individual EXH
20	20	3 Common EXH

* Please indicate valve to be manifolded and blank plate as manifold base style when ordering.
<Example>
VVTA300-051-011 pc.

VOA3014 pcs.
DXT060-51-13A ... 1 pc.

6 Valve Functions Available by Changing of Piping Port.

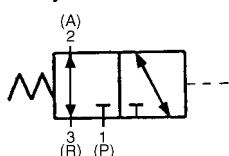
	3 port N.C.	3 port N.O.	2 port N.C.	2 port N.O.	Selector	Divider
Pilot OFF						
Pilot ON						

3 Port Air Operated Valve

Series VTA315



JIS symbol

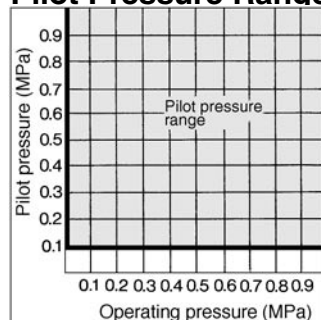


For manifold

⚠ Caution

- Each valve is fixed on the manifold by mounting screw M4-2. Please tighten the bolts properly when valves are reassembled. Screw tightening torque: 1.4Nm
- In case of 6 stations or more manifold, supply pressure from both sides of P port. In the case of common exhaust style, exhaust air from both sides of R port as well.

Pilot Pressure Range



Model

Model	Style	Port size Rc(PT)	Effective area ⁽²⁾ (mm ²)(Nl/min)	Pilot port size Rc(PT)	Weight (kg)
VTA315-02	Universal porting style	1/4	7.2(392.60)	1/8	0.18



Note 1) Value for a single valve unit. Different specifications apply for a manifold.

Manifold Model

Model	Applicable manifold model	Accessory
VOA315	Common/Individual exhaust	O ring("P-8": 4 pcs.), Bolt(M4 X 0.7 X 28: 2 pcs.)

Specifications

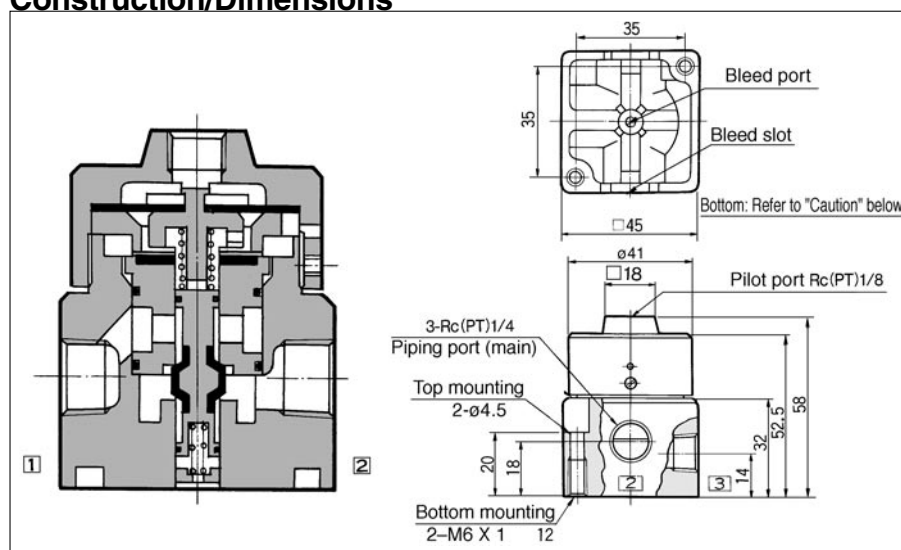
Fluid	Air
Operating pressure range	0 to 1.0 MPa
Pilot pressure range	0.1 to 1.0 MPa
Ambient and fluid temperature	0 (No freezing) to 60°C
Lubrication	Not required (Use turbin oil class1 ISOVG32 if lubricating)
Impact/Vibration resistance ⁽¹⁾	150/50 m/s ²
Enclosure	Dust proof



Note 1) Impact resistance: No malfunction occurs on the test using drop impact tester, to axis and right angle directions of main valve, each one time when energized and de-energized. (Value in the initial stage.)

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

Construction/Dimensions



⚠ Caution

This valve has a bleed port for main valve at the bottom. Do not shut the bleed port to prevent malfunctions. (When mounted on metal surface, bleed air can go through from bleed port to bleed groove; however, when mounted on rubber surface, bleed air may be blocked by deformation of rubber.)

How to Order Manifold

VVTA32

Please indicate valve to be manifolded and blank plate as manifold base style when ordering.

EX)

VVTA320-0501..... 1 pc.
VOA315..... 4 pc.
DXT010-36-2A..... 1 pc.

Piping specifications				Stations		Accessory (Mounting bracket)		Exhaust style	
Symbol	P	A	R	02	2stations	O	Without	1	Common exhaust
0	Side	Side	Side	A	With	2	Individual exhaust
1	Side	Bottom	Side	20	20stations				



Same manifold valve as series VVT320 are available.