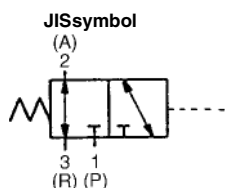
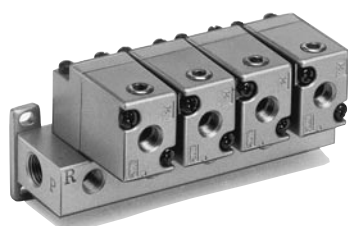


3Port Air Operated Valve

Series VTA301



Model

Model ⁽¹⁾	Style	Port size Pc (PT)	Effective area (mm ²)(Nl/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



Note1) Suffix "-B" for bracket equipped model.

Note2) 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 ISO VG 32 if lubricating)
Impact/Vibration resistance ⁽¹⁾	150/50 m/s ²
Enclosure	Dustproof



Note1) Impact resistance: Normal function occurs on the test using dropping style impact tester, to axis and right angled direction of main valve each time when energized and de-energized. (Value in the initial stage.)

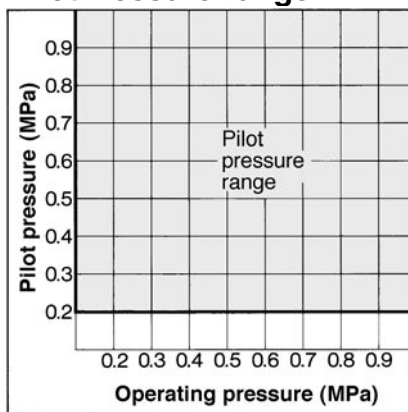
Vibration resistance: Normal function occurs on the test with 45 to 1000 Hz, one sweep, to axis and right angled direction of main valve each time when energized and de-energized. (Value in the initial stage.)

⚠ 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: 1.4 Nm
- 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	Port size
02	1 Individual EXH	Symbol
:	:	Port size
20	3 Common EXH	EXH port style
		01 Rc (PT) 1/8 Individual EXH
		02 Rc (PT) 1/4 Common EXH

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

<Example>

VVTA300-051-01 1

pc.

VOA301 4 pcs.

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

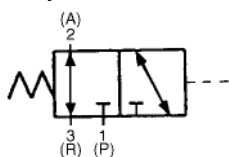
6 Valve Functions Available by Changing of Piping Port.

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

Series VTA315



JISsymbol

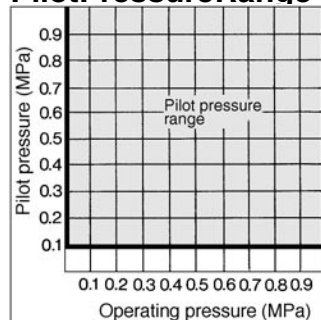


Caution



1. Each valve is fixed on the manifold by mounting screw M4-2. Please tighten the bolts properly when valves are reassembled. Screw tightening torque: 1.4 Nm
2. 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.

PilotPressureRange



Model

Model	Style	Portsize Rc(PT)	Effectivearea ⁽²⁾ (mm ²)(Nl/min)	Pilotportsize 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.

ManifoldModel

Model	Applicable manifold model	Accessory
VOA315	Common/Individual exhaust	O-ring("P-8":4pcs.) Bolt(M4X0.7X28:2pcs.)

Specifications

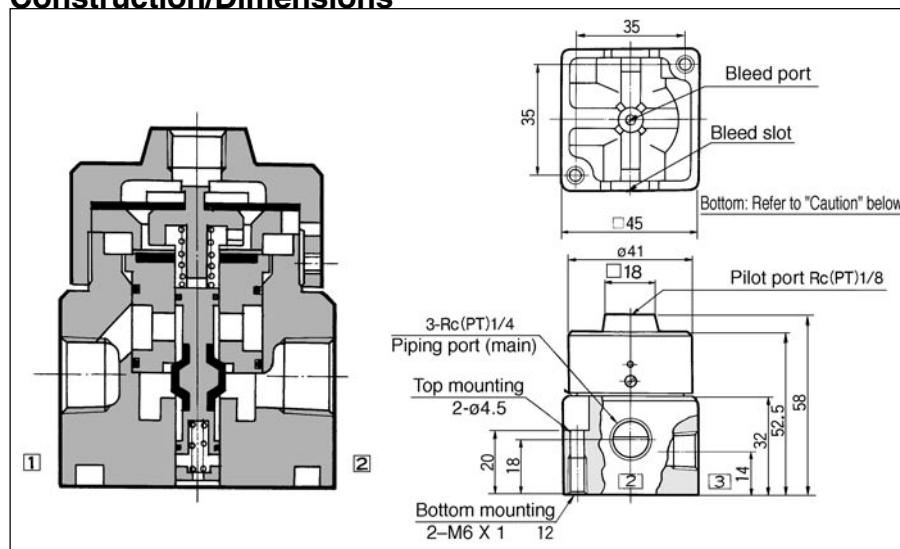
Fluid	Air
Operating pressure range	0 to 1.0 MPa
Pilot pressure range	0.1 to 1.0 MPa
Ambient and fluid temperature	0 (Not freezing) to 60 °C
Lubrication	Not required (Use turbine oil class 1 ISO VG 32 if lubricating)
Impact/Vibration resistance ⁽¹⁾	150/50 m/s ²
Enclosure	Dustproof



Note 1) Impact resistance: Normal function occurs on the test using drop impact tester, to axis and right angled direction of main valve, each one time when energized and de-energized. (Value in the initial stage.)

Vibration resistance : Normal function occurs on the test at 45 to 1000 Hz, one sweep, to axis and right angled 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.)

HowtoOrderManifold

VVT A32



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

EX)

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

Pipingspecifications				Stations		Accessory (Mountingbracket)		Exhauststyle	
Symbol	P	A	R	02	2stations	O	Without	1	Commonexhaust
0	Side	Side	Side	...	...	A	With	2	Individualexhaust
1	Side	Bottom	Side	20	20stations				



SamemanifoldvalveasseriesVVT320areavailable.