VC

VDW

VQ

VX2

VX

VX3

VXA

VN

LVC

LVA

LVH

LVD

LVQ

LQ

LVN

TI/ TIL

PA

PAX

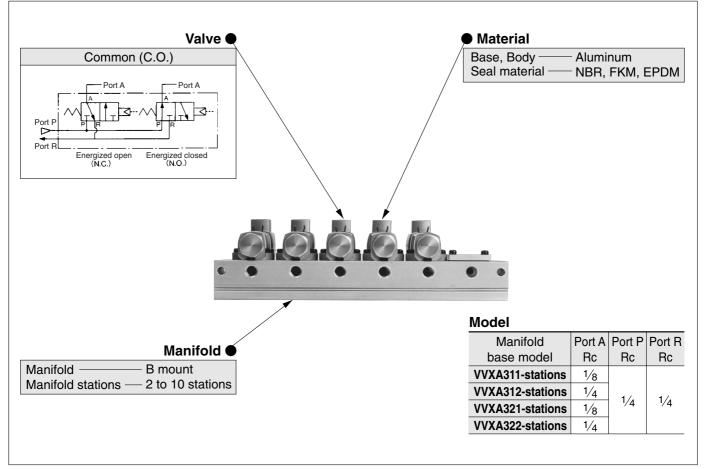
PB

Direct Air Operated 3 Port Valve/Manifold For Air, Gas, Vacuum and Oil Series VVXA31/32



- A wide variety of applicable fluids. Combination of seal materials (NBR, FKM, or EPDM) can be selected freely, depending on the purpose.
- Able to replace valves with the piping remained unchanged.
- N.C./N.O. switchover is easy.
- Weight-saving aluminum base and body. (Not applicable to water or steam.)

Variations



Series VVXA31/32

The VX* series will be revised shortly.

Common (C.O.)

Fluid

Standard specifications	Option Note)
Air (Standard, Dry)	Vacuum (up to 1.3 x 10 ⁻¹ Pa)(V)
Vacuum (up to 1.3 x 10 ² Pa)	Non-leak (10 ⁻⁶ Pa·m ³ /s or less)······(V)
Turbine oil	
Carbon dioxide (CO2), Nitrogen gas (N2)	
	Other



Note) Refer to page 17-3-14 "Applicable Fluids Check List" for details of special fluids outside of the standard options and specifications.

Manifold Specifications

Manifold	B Mount		
Manifold type	Common supply, Common exhaust, Individual out		
Number of valves	2 to 10 stations		
Blanking plate	VVXA31	VX011-004	
(with gasket, screws)	VVXA32	VX011-005	

Manifold Base And Applicable Valve Part No.

Manifold base Individual port Rc		Applicable valve	Base weight (g)	
VVXA311-stations	1/8	VXA31 15-00	n x 100 + 50	
VVXA312-stations	1/4	VASTD5-00		
VVXA321-stations	1/8	VXA32□5-00	n x 160 + 70	
VVXA322-stations	1/4	VXA32 🗆 5-00	11 x 100 + 70	

Model/Valve Specifications

			Flow characteristics				Max system	Proof	
Model		C	Oil		Air			pressure	Weight (g)
		Av x 10 ⁻⁶ (m ²)	Cv converted	C [dm3/(s·bar)]	b	Cv	(MPa)	(MPa)	(9)
VXA3115-00	1.0	1.9	0.08	0.29	0.32	0.08	-		100
VXA3125-00	0.5	3.8	0.16	0.60	0.25	0.15			150
VXA3225-00	1.0	4.6	0.19	0.64	0.40	0.17		230	230
VXA3135-00	0.3	8.0	0.24	0.82	0.20	0.20	1.0	1.5	150
VXA3235-00	0.6	9.0	0.33	1.10	0.25	0.27	_	230	000
VXA3245-00	0.3	12	0.60	1.66	0.20	0.38			230
	VXA3115-00 VXA3125-00 VXA3225-00 VXA3135-00 VXA3235-00	Model pressure differential (MPa) VXA3115-00 1.0 VXA3125-00 0.5 VXA3225-00 1.0 VXA3135-00 0.3 VXA3235-00 0.6	Model differential (MPa)	Model pressure differential (MPa) Oil VXA3115-00 1.0 1.9 0.08 VXA3125-00 0.5 3.8 0.16 VXA3225-00 1.0 4.6 0.19 VXA3135-00 0.3 8.0 0.24 VXA3225-00 0.6 9.0 0.33	Model pressure differential (MPa) Oit Cuconverted C[dm ² /(sbar)] VXA3115-00 1.0 1.9 0.08 0.29 VXA3125-00 0.5 3.8 0.16 0.60 VXA3225-00 1.0 4.6 0.19 0.64 VXA3135-00 0.3 8.0 0.24 0.82 VXA3235-00 0.6 9.0 0.33 1.10	Model pressure differential (MPa) Oil Air VXA3115-00 1.0 1.9 0.08 0.29 0.32 VXA3125-00 0.5 3.8 0.16 0.60 0.25 VXA3225-00 1.0 4.6 0.19 0.64 0.40 VXA3135-00 0.3 8.0 0.24 0.82 0.20 VXA3235-00 0.6 9.0 0.33 1.10 0.25	Model pressure differential (MPa) OII Air Av x 10 ^s (m ²) Cv converted C[dm ³ /(sbar)] b Cv VXA3115-00 1.0 1.9 0.08 0.29 0.32 0.08 VXA3125-00 0.5 3.8 0.16 0.60 0.25 0.15 VXA3135-00 1.0 4.6 0.19 0.64 0.40 0.17 VXA3135-00 0.3 8.0 0.24 0.82 0.20 0.20 VXA3235-00 0.6 9.0 0.33 1.10 0.25 0.27	Model pressure differential (MPa) Oil Air pressure pressure (MPa) Max system Pressure (MPa) VXA3115-00 1.0 1.9 0.08 0.29 0.32 0.08 VXA3125-00 0.5 3.8 0.16 0.60 0.25 0.15 VXA3135-00 0.3 8.0 0.24 0.82 0.20 0.20 VXA3235-00 0.6 9.0 0.33 1.10 0.25 0.27	Model pressure differential (MPa) Oil Air pressure pressure (MPa) pressure (MPa) pressure pressure (MPa) VXA3125-00 0.5 3.8 0.16 0.60 0.25 0.15 1.0 1.0 1.5 VXA3135-00 0.6 9.0 0.33 1.10 0.25 0.27 1.0

Note) • Add the V type (VXA31) 80 g, (VXA32) 130 g

• Refer to "Glossary" on page 17-3-15 for details of max. operating pressure differential and max. system pressure.

Operating Fluid and Ambient Temperature

-	Opera	Ambient			
Temperature	Air	Oil	Vacuum ⁽³⁾	temperature	
conditions	(Standard)	(Standard)	(V)	(°C)	
Maximum	60	40	40	40	
Minimum	-5 ⁽¹⁾	-5 ⁽²⁾	-5	-5	

Note 1) Dew point: -5°C or less Note 2) 500 cSt or less

Note 3) "V" in parentheses is option symbol.

Tightness of Valve (Leak rate)

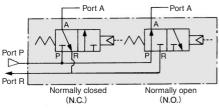
Fluid Seal material	Air	Liquid	Non-leak, Vacuum ⁽²⁾	
NBR, FKM, EPDM	1 cm ³ /min or less	0.1 cm ³ /min or less ⁽¹⁾	10 ⁻⁶ Pa⋅m ³ /s or less	

Note 1) Differs depending on the operating conditions such as pressure, etc. Note 2) Value on option "V" (Non-leak, Vacuum).

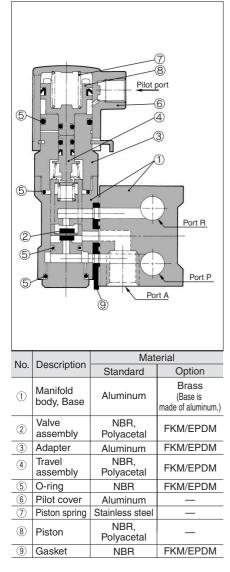
Pilot Pressure

Model	Pressure (MPa)
VXA31□5 VXA32□5	0.25 to 0.7



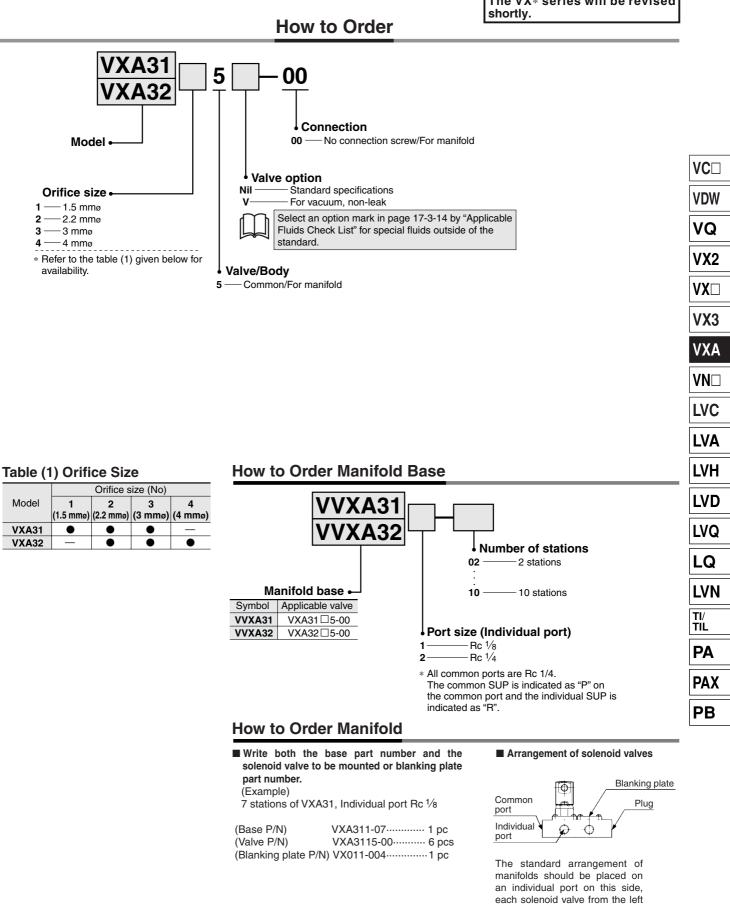


Construction/ **Principal Parts Material**



Direct Air Operated 3 Port Valve/Manifold For Air, Gas, Vacuum and Oil Series VVXA31/3

The VX* series will be revised



⊘SMC

side and a blank plate in the right side. The right side of the common

port provides plug.

Series VVXA31/32

The VX* series will be revised shortly.

Dimensions

