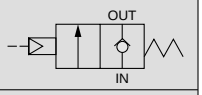
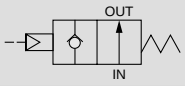
Direct Air Operated 2 Port Valve

Series VXA21/22

For Air, Water, Oil

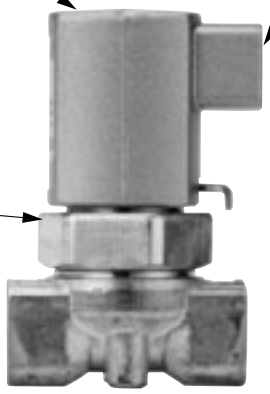
Single Unit

Valve

Normally closed (N.C.)	
Normally open (N.O.)	

Material

Body — Brass (C37), Stainless steel
Seal — NBR, FKM, EPDM

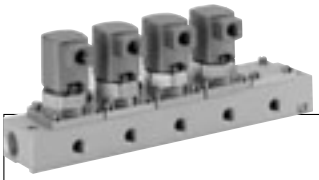


Pilot port (Free take off direction)

Port size — Rc 1/8
Pilot pressure — 0.25 to 0.7 MPa

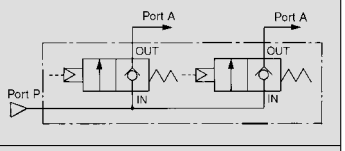
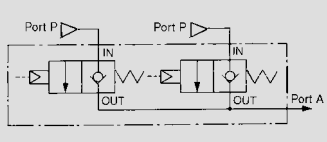
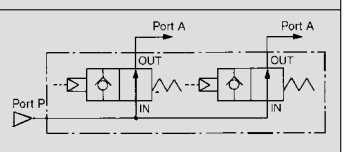
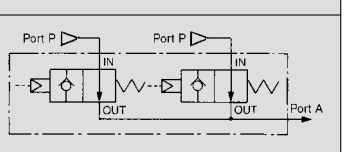
Model

Model	Port size Rc	Orifice dia. (mmø)
VXA212$^{2}_{0}$	1/8, 1/4	3
VXA213$^{2}_{0}$	1/8, 1/4	4.5
VXA223$^{2}_{0}$	1/4, 3/8	4.5
VXA224$^{2}_{0}$	1/4, 3/8	6
VXA225$^{2}_{0}$	1/4, 3/8	8
VXA226$^{2}_{0}$	1/4, 3/8, 1/2	10



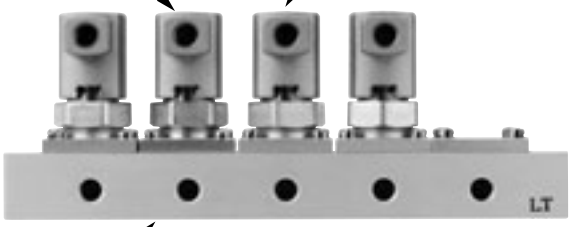
Manifold

Valve

Normally closed (N.C.)	Common SUP type	
	Individual SUP type	
Normally open (N.O.)	Common SUP type	
	Individual SUP type	

Material

Base, Body — Aluminum
Seal — NBR, FKM, EPDM



Manifold

Manifold system — B mount
Manifold station — 2 to 10 station

Model

Manifold base	Individual port Rc	Common port Rc
VVXA211-station	1/8	3/8
VVXA212-station	1/4	
VVXA221-station	1/8	
VVXA222-station	1/4	

Common Specifications

Standard Specifications

Valve specifications	**Type**		Single Unit	Manifold
	Valve construction		Pilot operated poppet	
	Withstand pressure	**MPa**	1.5	
	Body material		Brass (C37), Stainless steel	Aluminum
	Seal material		NBR, FKM, EPDM	NBR, FKM, EPDM

Contents

Applicable Fluid Check List

Direct Air Operated 2 Port Valve Series VXA21/22

All Options (Single Unit)

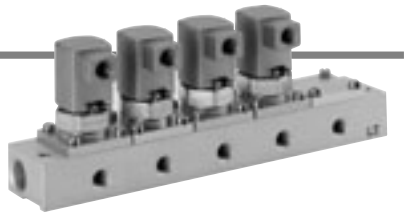
Refer to pages 208, 212, and 214 for specifications and models.

VXA2□□ 0 2 □ – □□ – 1 – □

Option symbol

Fluid and application	Option symbol	Seal material	Body material	Holder material (drive part)
Air	**Nil**	NBR	Brass (C37)	PPS
	G		Stainless steel	
Medium vacuum (0.1 Pa·abs), Non-leak Note 1)	**V** Note 2)	FKM	Brass (C37)	
	M Note 2)		Stainless steel	
Water	**Nil**	NBR	Brass (C37)	
	G		Stainless steel	
Oil Note 3)	**A**	FKM	Brass (C37)	
	H		Stainless steel	
Other combination	**B**	EPDM	Brass (C37)	
	J		Stainless steel	

All Options (Manifold)



Refer to pages 210 and 216 for specifications and models.

VXA2□□ 1 3 □ – 00 – 1

Option symbol

Fluid and application	Option symbol	Seal material	Body material	Holder material (drive part)
Air	**Nil**	NBR	Aluminum	PPS
Medium vacuum, Non-leak Note 1)	**V** Note 2)	FKM		
Oil Note 3)	**A**	FKM		
Other combination	**B**	EPDM		

Note 1) The leakage amount (10^{-6} Pa·m³/s) of "V" options are values when differential pressure is 0.1 MPa.
Note 2) Use grease for vacuums on sliding parts. Use silicon grease elsewhere.
Note 3) The dynamic viscosity of the fluid must not exceed 50 mm²/s or less.

∗ If using for other fluids, please consult with SMC.

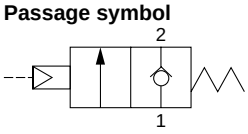
For Air /Single Unit

(Inert gas, Non-leak, Medium vacuum)

Model/Valve Specifications

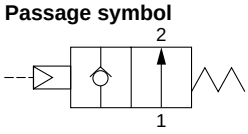
N.C.

Passage symbol



N.O.

Passage symbol



Model/Valve

Port size	Orifice diameter (mmø)	Model	Max. operating pressure differential (MPa)	Pilot pressure (MPa)	Flow characteristics Air C[dm³/(s·bar)]	Flow characteristics Air b	Flow characteristics Air Cv	Max. system pressure (MPa)	Proof pressure (MPa)	Mass (g)
1/8 (6A)	3	**VXA212□**	1.0	0.25 to 0.7	1.3	0.50	0.38	1.0	1.5	170
	4.5	**VXA213□**	0.5		2.3	0.45	0.70			
1/4 (8A)	3	**VXA212□**	1.0		1.3	0.50	0.38			
	4.5	**VXA213□**	0.5		2.5	0.45	0.75			
		VXA223□	1.0							250
	6	**VXA224□**	0.6		3.3	0.50	1.1			
	8	**VXA225□**	0.2		6.4	0.40	1.8	0.4		340
	10	**VXA226□**	0.1		8.8	0.40	2.3			
3/8 (10A)	4.5	**VXA223□**	1.0		2.5	0.45	0.75	1.0		250
	6	**VXA224□**	0.6		3.3	0.50	1.1			
	8	**VXA225□**	0.2		6.4	0.40	1.8	0.4		340
	10	**VXA226□**	0.1		11.0	0.38	2.8			
1/2 (15A)	10	**VXA226□**	0.1		11.0	0.38	2.8			420

• Refer to “Glossary of Terms” on page 26 for details on the max. operating pressure differential and the max. system pressure.

Fluid and Ambient Temperature

Fluid temperature (°C)		Ambient temperature (°C)
Valve option symbol		
Nil, Others	**V, M**	
–5 Note) to 60	–5 Note) to 40	–5 to 40

Note) Dew point temperature: –5°C or less

Valve Leakage Rate

Internal Leakage

Seal material	Leakage rate	
	Air	Non-leak, Note) Medium vacuum
NBR, EPDM, FKM	1 cm³/min or less	10^{-6} Pa·m³/sec or less

External Leakage

Seal material	Leakage rate	
	Air	Non-leak, Note) Medium vacuum
NBR, EPDM, FKM	1 cm³/min or less	10^{-6} Pa·m³/sec or less

Note) Value for option “V”, “M” (Non-leak, Medium vacuum)

How to Order (Single Unit)

VXA **21** **2** **0** □ – **01** □ – **1** – □

Model
Refer to the table (1) shown below for availability.

Orifice diameter
Refer to the table (1) shown below for availability.

Valve/Body configuration

0	N.C. / Single unit
2	N.O. / Single unit

Valve option
Refer to the table (2) shown below for availability.

Port size
Refer to the table (1) shown below for availability.

Thread type

Nil	Rc
T	NPTF
F	G
N	NPT

Bracket

Nil	None
B	With bracket

∗ VX021N-12A and VX022N-12A are packed in the same container as the main body.
∗ Refer to the table (3) if a bracket is ordered separately.

Table (1) Model/Orifice Diameter/Port Size

Solenoid valve (Port size)			Orifice symbol (Diameter)				
Model	**VXA21**	**VXA22**	**2** (3 mmø)	**3** (4.5 mmø)	**4** (6 mmø)	**5** (8 mmø)	**6** (10 mmø)
Port no. (Port size)	**01** (1/8)	–	●	●	–	–	–
	02 (1/4)	–	●	●	–	–	–
	–	**02** (1/4)	–	●	●	●	●
	–	**03** (3/8)	–	●	●	●	●
	–	**04** (1/2)	–	–	–	–	●

Table (2) Valve Option

Option symbol	Seal material	Body material	Holder material	Note
Nil	NBR	Brass (C37)	PPS	–
G		Stainless steel		
V Note)	FKM	Brass (C37)		Non-leak (10^{-6} Pam^3/sec), Medium vacuum (0.1 Pa.abs)
M Note)		Stainless steel		

Note) Use grease for vacuums on sliding parts. Use silicon grease elsewhere.

Table (3) Bracket Part No.

Model	Part no.
VXA21 $^{20}_{32}$	VX021N-12A
VXA22 $^{30}_{42}$	VX022N-12A
VXA22 $^{50}_{62}$	VX023N-12A-L

Dimensions → page 220 (Single unit)

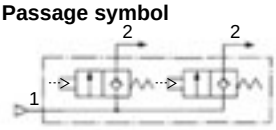
For Air /Manifold

(Inert gas, Non-leak, Medium vacuum)

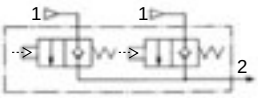
Model for Manifold/Valve Specifications

N.C.

Passage symbol



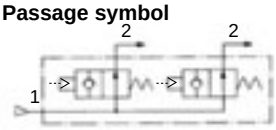
Common SUP type



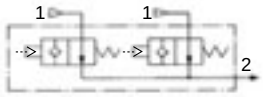
Individual SUP type

N.O.

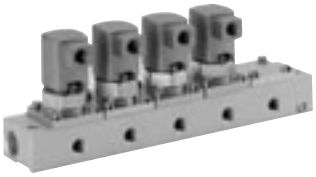
Passage symbol



Common SUP type



Individual SUP type



Model for Manifold/Valve Specifications

Orifice diameter (mmø)	Model	Max. operating pressure differential (MPa)	Pilot pressure (MPa)	Flow characteristics			Max. system pressure (MPa)	Proof pressure (MPa)	Note) Mass (g)
				Air					
				C[dm³/(s·bar)]	b	Cv			
3	**VXA212$\frac{1}{3}$-00**	1.0	0.25 to 0.7	1.3	0.50	0.38	1.0	1.5	120
4.5	**VXA213$\frac{1}{3}$-00**	0.5		2.3	0.45	0.70			
	VXA223$\frac{1}{3}$-00	1.0							160
6	**VXA224$\frac{1}{3}$-00**	0.6		3.3	0.50	1.1			

• Refer to “Glossary of Terms” on page 26 for details on the max. operating pressure differential and the max. system pressure.

Fluid and Ambient Temperature

Fluid temperature (°C)		Ambient temperature (°C)
Solenoid valve option symbol		
Nil, A, B	**V**	
–5 Note) to 60	–5 Note) to 40	–5 to 40

Note) Dew point temperature: –5°C or less

Valve Leakage Rate

Internal Leakage

Seal material	Leakage rate	
	Air	Non-leak, Note) Medium vacuum
NBR, EPDM, FKM	1 cm³/min or less	10^{-6} Pa·m³/sec or less

External Leakage

Seal material	Leakage rate	
	Air	Non-leak, Note) Medium vacuum
NBR, EPDM, FKM	1 cm³/min or less	10^{-6} Pa·m³/sec or less

Note) Value for option “V” (Non-leak, Medium vacuum)

How to Order (Valve for Manifold)

VXA 21 2 1 □ – 00 – 1

Model
Refer to the table (1) shown below for availability.

Orifice diameter
Refer to the table (1) shown below for availability.

Valve/Body configuration

1	N.C. (For manifold)
3	N.O. (For manifold)

Valve option
Refer to the table (2) shown below for availability.

How to Order Manifold Bases

VVXA21 / VVXA22 1 □ – 07 – 1

Number of manifolds

02	2 stations
⋮	⋮
10	10 stations

Port size (Individual port)

1	Rc 1/8
2	Rc 1/4

∗ All IN ports are Rc 3/8.

Base

Nil	Common SUP type
V	Individual SUP type

Manifold base

● Blanking plate part no.

For VXA21: VX011-001 □
For VXA22: VX011-006 □

Seal material

N	NBR
F	FKM
E	EPDM

Table (1) Model/Orifice Diameter

Solenoid valve	Orifice symbol (Diameter)		
	2 (3 mmø)	**3** (4.5 mmø)	**4** (6 mmø)
VXA21	●	●	–
VXA22	–	●	●

Table (2) Valve Option

Option symbol	Body, Base material	Seal material	Holder material	Note
Nil	Aluminum	NBR	PPS	–
A		FKM		
B		EPDM		
V Note)		FKM		Non-leak (10^{-6} Pam^3/sec), Medium vacuum (0.1 Pa.abs)

Note) Use grease for vacuums on sliding parts. Use silicon grease elsewhere.

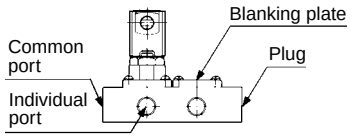
How to Order Manifold

■ **Write both the base part number and the solenoid valve to be mounted or blanking plate part number.**
(Example) 7 stations of VXA21 common pressure, individual port Rc 1/8.

(Base) VVXA211-07-1·····1 pc.
(Valve) ∗ VXA2121-00-1·····6 pcs.
(Blanking plate) ∗ VX011-001N·····1 pc.

"∗" is the symbol for mounting. When shipping mounted on a base, add an "∗" in front of the valve and blanking plate model.

■ **Arrangement of solenoid valves**



The standard arrangement of manifolds should be placed on an individual port on this side, each solenoid valve from the left side and a blank plate in the right side. The right side of the common port provides plug.

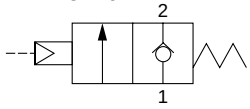
Dimensions → page 221 (Manifold)

For Water /Single Unit

Model/Valve Specifications

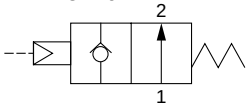
N.C.

Passage symbol



N.O.

Passage symbol



Model/Valve Specifications

Port size	Orifice diameter (mmø)	Model	Pilot pressure (MPa)	Max. operating pressure differential (MPa)	Flow characteristics Water Av x 10^{-6} m^2	Flow characteristics Water Cv converted	Max. system pressure (MPa)	Proof pressure (MPa)	Mass (g)
1/8 (6A)	3	**VXA212**$^{0}_{2}$	0.25 to 0.7	1.0	7.9	0.33	1.0	1.5	170
	4.5	**VXA213**$^{0}_{2}$		0.5	15	0.61			
1/4 (8A)	3	**VXA212**$^{0}_{2}$		1.0	7.9	0.33			
	4.5	**VXA213**$^{0}_{2}$		0.5	15	0.61			
		VXA223$^{0}_{2}$		1.0					250
	6	**VXA224**$^{0}_{2}$		0.6	26	1.1			
	8	**VXA225**$^{0}_{2}$		0.2	41	1.7	0.4		340
	10	**VXA226**$^{0}_{2}$		0.1	46	1.9			
3/8 (10A)	4.5	**VXA223**$^{0}_{2}$		1.0	15	0.61	1.0		250
	6	**VXA224**$^{0}_{2}$		0.6	26	1.1			
	8	**VXA225**$^{0}_{2}$		0.2	41	1.7	0.4		340
	10	**VXA226**$^{0}_{2}$		0.1	58	2.4			
1/2 (15A)	10	**VXA226**$^{0}_{2}$		0.1	58	2.4			420

• Refer to “Glossary of Terms” on page 26 for details on the max. operating pressure differential and the max. system pressure.

Fluid and Ambient Temperature

Fluid temperature (°C)	Ambient temperature (°C)
Valve option symbol	
Nil, G, B, J	
1 to 40	–5 to 40

Note) With no freezing

Valve Leakage Rate

Internal Leakage

Seal material	Leakage rate (Water)
NBR, EPDM	0.1 cm^3/min or less

External Leakage

Seal material	Leakage rate (Water)
NBR, EPDM	0.1 cm^3/min or less

How to Order (Single Unit)

VXA 21 2 0 □ – 01 □ – 1 – □

Model
Refer to the table (1) shown below for availability.

Orifice diameter
Refer to the table (1) shown below for availability.

Valve/Body configuration

0	N.C. / Single unit
2	N.O. / Single unit

Valve option
Refer to the table (2) shown below for availability.

Port size
Refer to the table (1) shown below for availability.

Thread type

Nil	Rc
T	NPTF
F	G
N	NPT

Bracket

Nil	None
B	With bracket

* VX021N-12A and VX022N-12A are packed in the same container as the main body.
* Refer to the table (3) if a bracket is ordered separately.

Table (1) Model/Orifice Diameter/Port Size

Valve (Port size)			Orifice symbol (Diameter)				
Model	**VX21**	**VX22**	**2** (3 mmø)	**3** (4.5 mmø)	**4** (6 mmø)	**5** (8 mmø)	**6** (10 mmø)
Port no. (Port size)	**01** (1/8)	—	●	●	—	—	—
	02 (1/4)	—	●	●	—	—	—
	—	**02** (1/4)	—	●	●	●	●
	—	**03** (3/8)	—	●	●	●	●
	—	**04** (1/2)	—	—	—	—	●

Table (2) Valve Option

Option symbol	Seal material	Body material	Holder material	Note
Nil	NBR	Brass (C37)	PPS	—
G		Stainless steel		
B	EPDM	Brass (C37)		
J		Stainless steel		

Table (3) Bracket Part No.

Model	Part no.
VX21$^{20}_{32}$	VX021N-12A
VX22$^{30}_{42}$	VX022N-12A
VX22$^{50}_{62}$	VX023N-12A-L

Dimensions → page 220 (Single unit)

For Oil /Single Unit

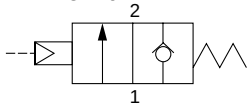
⚠ When the fluid is oil.

The dynamic viscosity of the fluid must not exceed 500 mm²/s.

Model/Valve Specifications

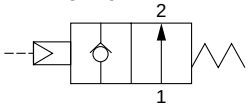
N.C.

Passage symbol



N.O.

Passage symbol



Model/Valve Specifications

Port size	Orifice diameter (mmø)	Model	Max. operating pressure differential (MPa)	Pilot pressure (MPa)	Flow characteristics Oil Av x 10^{-6} m^2	Flow characteristics Oil Cv converted	Max. system pressure (MPa)	Proof pressure (MPa)	Mass (g)
1/8 (6A)	3	**VXA212$^{0}_{2}$**	1.0	0.25 to 0.7	7.9	0.33	1.0	1.5	170
	4.5	**VXA213$^{0}_{2}$**	0.5		15	0.61			
1/4 (8A)	3	**VXA212$^{0}_{2}$**	1.0		7.9	0.33			
	4.5	**VXA213$^{0}_{2}$**	0.5		15	0.61			
		VXA223$^{0}_{2}$	1.0						250
	6	**VXA224$^{0}_{2}$**	0.6		26	1.1			
	8	**VXA225$^{0}_{2}$**	0.2		41	1.7	0.4		340
	10	**VXA226$^{0}_{2}$**	0.1		46	1.9			
3/8 (10A)	4.5	**VXA223$^{0}_{2}$**	1.0		15	0.61	1.0		250
	6	**VXA224$^{0}_{2}$**	0.6		26	1.1			
	8	**VXA225$^{0}_{2}$**	0.2		41	1.7	0.4		340
	10	**VXA226$^{0}_{2}$**	0.1		58	2.4			
1/2 (15A)	10	**VXA226$^{0}_{2}$**	0.1		58	2.4			420

• Refer to “Glossary of Terms” on page 26 for details on the max. operating pressure differential and the max. system pressure.

Fluid and Ambient Temperature

Fluid temperature (°C)	Ambient temperature (°C)
Valve option symbol	
A, H	
–5 Note) to 40	–5 to 40

Note) Dynamic viscosity: 500 mm²/s or less

Valve Leakage Rate

Internal Leakage

Seal material	Leakage rate (Oil)
FKM	0.1 cm^3/min or less

External Leakage

Seal material	Leakage rate (Oil)
FKM	0.1 cm^3/min or less

How to Order (Single Unit)

VXA 21 2 0 A – 01 □ – 1 – □

Model
Refer to the table (1) shown below for availability.

Orifice diameter
Refer to the table (1) shown below for availability.

Valve/Body configuration

0	N.C. / Single unit
2	N.O. / Single unit

Valve option
Refer to the table (2) shown below for availability.

Port size
Refer to the table (1) shown below for availability.

Thread type

Nil	Rc
T	NPTF
F	G
N	NPT

Bracket

Nil	None
B	With bracket

∗ VX021N-12A and VX022N-12A are packed in the same container as the main body.
∗ Refer to the table (3) if a bracket is ordered separately.

Table (1) Model/Orifice Diameter/Port Size

Solenoid valve (Port size)			Orifice symbol (Diameter)				
Model	**VX21**	**VX22**	**2** (3 mmø)	**3** (4.5 mmø)	**4** (6 mmø)	**5** (8 mmø)	**6** (10 mmø)
Port no. (Port size)	**01** (1/8)	—	●	●	—	—	—
	02 (1/4)	—	●	●	—	—	—
	—	**02** (1/4)	—	●	●	●	●
	—	**03** (3/8)	—	●	●	●	●
	—	**04** (1/2)	—	—	—	—	●

Table (2) Valve Option

Option symbol	Seal material	Body material	Holder material
A	FKM	Brass (C37)	PPS
H		Stainless steel	

The additives contained in oil are different depending on the type and manufacturers, so the durability of seal materials will vary. For details, please consult with SMC.

Table (3) Bracket Part No.

Model	Part no.
VX21$^{20}_{32}$	VX021N-12A
VX22$^{30}_{42}$	VX022N-12A
VX22$^{30}_{62}$	VX023N-12A-L

Dimensions → page 220 (Single unit)

For Oil /Manifold

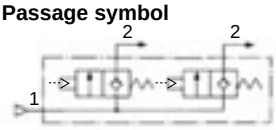
⚠ When the fluid is oil.

The dynamic viscosity of the fluid must not exceed 500 mm²/s.

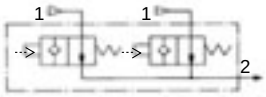
Valve for Manifold/Valve Specifications

N.C.

Passage symbol



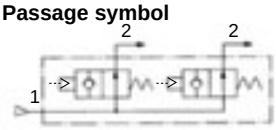
Common SUP type



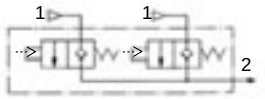
Individual SUP type

N.O.

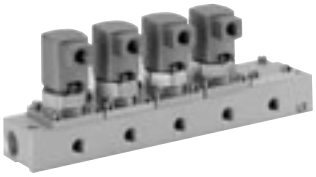
Passage symbol



Common SUP type



Individual SUP type



Valve for Manifold/Valve Specifications

Orifice diameter (mmø)	Model	Max. operating pressure differential (MPa)	Pilot pressure (MPa)	Flow characteristics Air		Max. system pressure (MPa)	Proof pressure (MPa)	Mass (g) Note)
				Av x 10^{-6} m^2	Cv converted			
3	**VXA212$\frac{1}{3}$-00**	1.0	0.25 to 0.7	7.9	0.33	1.0	1.5	120
4.5	**VXA213$\frac{1}{3}$-00**	0.5		15	0.61			
	VXA223$\frac{1}{3}$-00	1.0						160
6	**VXA224$\frac{1}{3}$-00**	0.6		26	1.1			

• Refer to “Glossary of Terms” on page 26 for details on the max. operating pressure differential and the max. system pressure.

Fluid and Ambient Temperature

Fluid temperature (°C)	Ambient temperature (°C)
Valve option symbol	
A	
–5 Note) to 40	–5 to 40

Note) Dynamic viscosity: 500 mm²/s or less

Valve Leakage Rate

Internal Leakage

Seal material	Leakage rate
FKM	0.1 cm^3/min or less

External Leakage

Seal material	Leakage rate
FKM	0.1 cm^3/min or less

How to Order (Valve for Manifold)

VXA 21 2 1 A – 00 – 1

Model
Refer to the table (1) shown below for availability.

Orifice diameter
Refer to the table (1) shown below for availability.

Valve/Body configuration

1	N.C. (For manifold)
3	N.O. (For manifold)

Valve option
Refer to the table (2) shown below for availability.

How to Order Manifold Bases

VVXA21
VVXA22 **1** **□** – **07** – **1**

Port size (Individual port)

1	Rc 1/8
2	Rc 1/4

∗ All IN ports are Rc 3/8.

Base

Nil	Common SUP type
V	Individual SUP type

Number of manifolds

02	2 stations
⋮	⋮
10	10 stations

Manifold base

● **Blanking plate part no.**

For VXA21: VX011-001 F
For VXA22: VX011-006 F

Seal material

F	FKM

Table (1) Model/Orifice Diameter

Solenoid valve	Orifice symbol (Diameter)		
	2 (3 mmø)	3 (4.5 mmø)	4 (6 mmø)
VXA21	●	●	–
VXA22	–	●	●

Table (2) Valve Option

Option symbol	Body, Base material	Seal material	Holder material	Note
A	Aluminum	FKM	PPS	–

How to Order Manifold

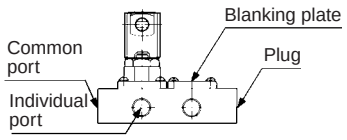
■ **Write both the base part number and the solenoid valve to be mounted or blanking plate part number.**

(Example) 7 stations of VXA21 common pressure, individual port Rc 1/8.

(Base) VVXA211-07-1·····1 pc.
(Valve) ∗ VXA2121-00-1·····6 pcs.
(Blanking plate) ∗ VX011-001F·····1 pc.

"∗" is the symbol for mounting. When shipping mounted on a base, add an "∗" in front of the valve and blanking plate model.

■ **Arrangement of solenoid valves**

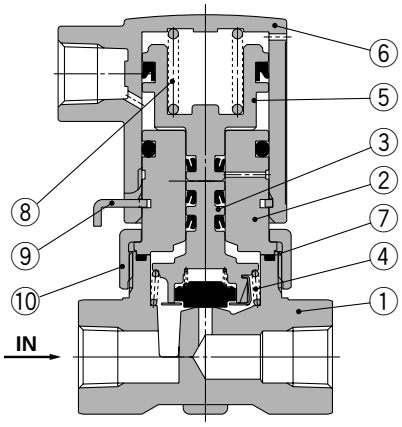


The standard arrangement of manifolds should be placed on an individual port on this side, each solenoid valve from the left side and a blank plate in the right side. The right side of the common port provides plug.

Dimensions → page 221 (Manifold)

Construction: Single Unit

Normally closed (N.C.)
Body material: Brass (C37), Stainless steel

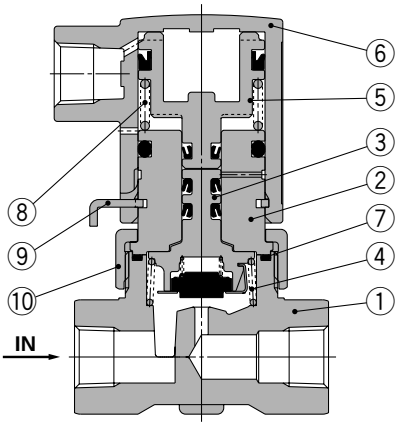


Component Parts

No.	Description	Material	
		Body material Brass (C37) specification	Body material stainless steel specification
1	**Body**	Brass (C37)	Stainless steel
2	**Adapter**	C36	Stainless steel
3	**Holder assembly**	(NBR, FKM, EPDM), Stainless steel, PPS	
4	**Return spring**	Stainless steel	
5	**Piston assembly**	(NBR), Polyacetal	
6	**Pilot cover**	ADC12	
7	**O-ring**	(NBR, FKM, EPDM)	
8	**Piston spring**	Stainless steel	
9	**Retainer**	Stainless steel	
10	**Nut**	Brass (C37)	Brass (C37), Ni plated

The materials in parentheses are the seal materials.

Normally open (N.O.)
Body material: Brass (C37), Stainless steel



Component Parts

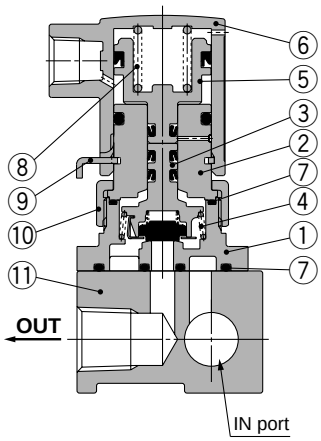
No.	Description	Material	
		Body material Brass (C37) specification	Body material stainless steel specification
1	**Body**	Brass (C37)	Stainless steel
2	**Adapter**	C36	Stainless steel
3	**Holder assembly**	(NBR, FKM, EPDM), Stainless steel, PPS	
4	**Return spring**	Stainless steel	
5	**Piston assembly**	(NBR), Polyacetal	
6	**Pilot cover**	ADC12	
7	**O-ring**	(NBR, FKM, EPDM)	
8	**Piston spring**	Stainless steel	
9	**Retainer**	Stainless steel	
10	**Nut**	Brass (C37)	Brass (C37), Ni plated

The materials in parentheses are the seal materials.

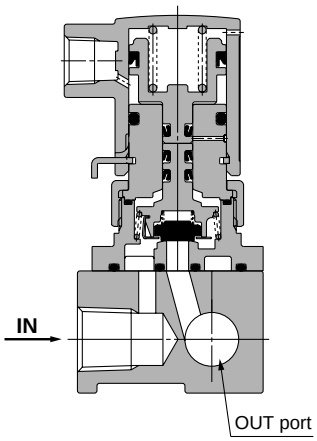
Construction: Manifold

Normally closed (N.C.)
Base material: Aluminum

Common SUP type



Individual SUP type



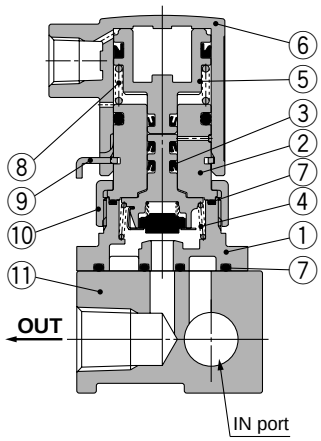
Component Parts

No.	Description	Material
1	**Body**	Aluminum
2	**Adapter**	C36
3	**Holder assembly**	(NBR, FKM, EPDM), Stainless steel, PPS
4	**Return spring**	Stainless steel
5	**Piston assembly**	NBR, Polyacetal
6	**Pilot cover**	ADC12
7	**O-ring**	(NBR, FKM, EPDM)
8	**Piston spring**	Stainless steel
9	**Retainer**	Stainless steel
10	**Nut**	Brass (C37)
11	**Base**	Aluminum

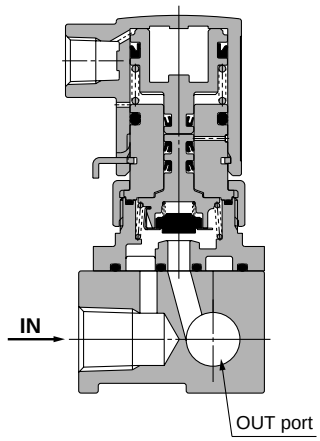
The materials in parentheses are the seal materials.

Normally open (N.O.)
Base material: Aluminum

Common SUP type



Individual SUP type



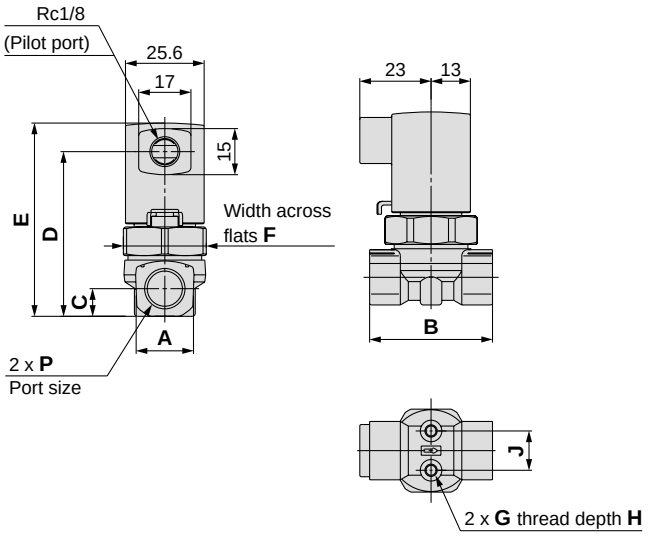
Component Parts

No.	Description	Material
1	**Body**	Aluminum
2	**Adapter**	C36
3	**Holder assembly**	(NBR, FKM, EPDM), Stainless steel, PPS
4	**Return spring**	Stainless steel
5	**Piston assembly**	NBR, Polyacetal
6	**Pilot cover**	ADC12
7	**O-ring**	(NBR, FKM, EPDM)
8	**Piston spring**	Stainless steel
9	**Retainer**	Stainless steel
10	**Nut**	Brass (C37)
11	**Base**	Aluminum

The materials in parentheses are the seal materials.

Dimensions: Single Unit/Body Material: Brass (C37), Stainless Steel

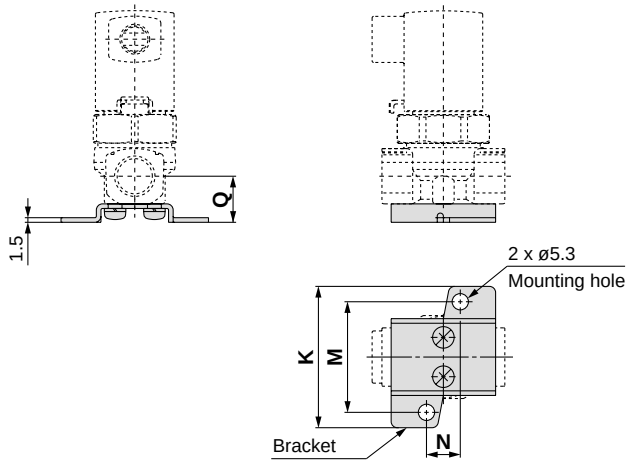
Normally closed (N.C.): VXA21□0/VXA22□0
Normally open (N.O.): VXA21□2/VXA22□2



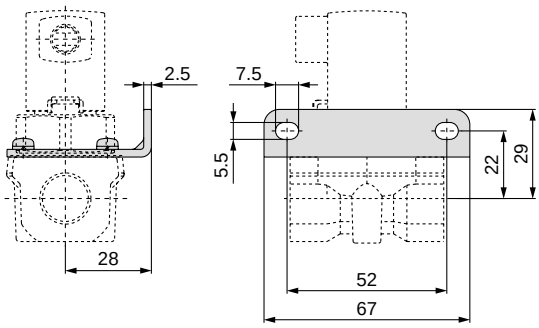
(mm)

Model		Orifice diameter	Port size P	A	B	C	D	E	F	G	H	J
N.C.	N.O.											
VXA21□0	**VXA21□2**	ø3, ø4.5	1/8, 1/4	19	40	9	54	63	27	M4	6	12.8
VXA22(3,4)0	**VXA22(3,4)2**	ø4.5, ø6	1/4, 3/8	22	45	10.5	60	69	32	M5	8	19
VXA22(5,6)0	**VXA22(5,6)2**	ø8, ø10	1/4, 3/8, 1/2	29	50	14	66	76	32	M5	8	23

Specifications with bracket
Orifice ø3, ø4.5, ø6



Orifice ø8, ø10

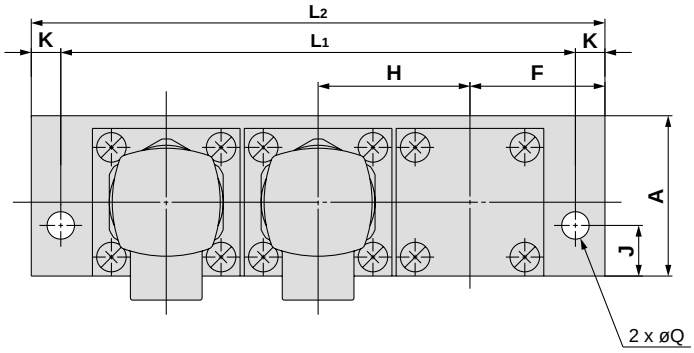


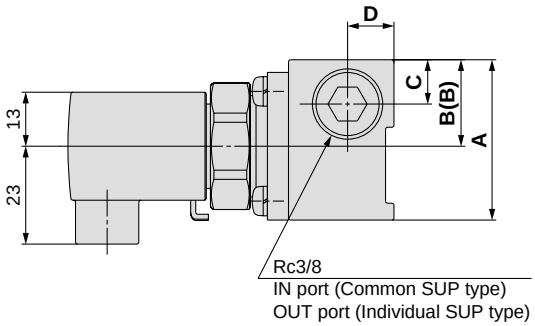
(mm)

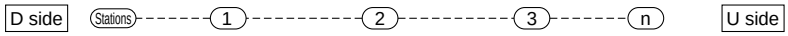
Model		Orifice diameter	Port size P	Bracket mounting			
N.C.	N.O.			K	M	N	Q
VXA21□0	**VXA21□2**	ø3, ø4.5	1/8, 1/4	46	36	11	15
VXA22(3,4)0	**VXA22(3,4)2**	ø4.5, ø6	1/4, 3/8	56	46	13	17.5

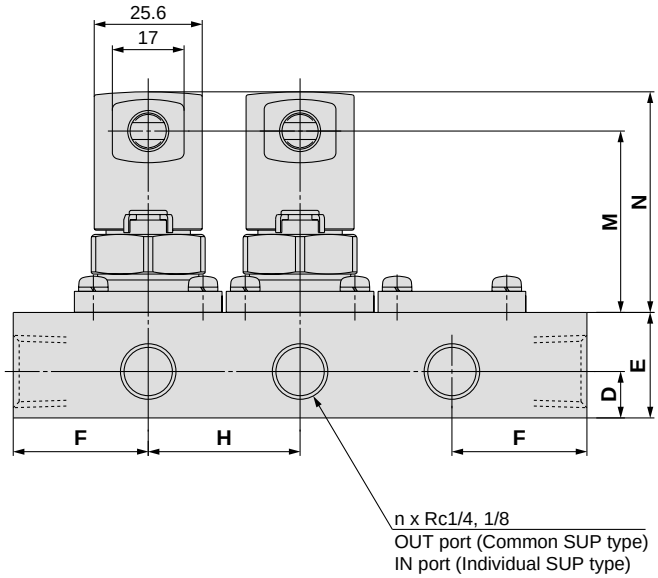
Dimensions: Manifold/Base Material: Aluminum

Normally closed (N.C.)
Normally open (N.O.) **: VVXA21/VVXA22**









(mm)

Model	Dimension	n (Stations)								
		2	3	4	5	6	7	8	9	10
VVXA21	L_1	86	122	158	194	230	266	302	338	374
	L_2	100	136	172	208	244	280	316	352	388
VVXA22	L_1	108	154	200	246	292	338	384	430	476
	L_2	126	172	218	264	310	356	402	448	494

(mm)

Model	A	B	(B) Individual SUP type	C	D	E	F	H	J	K	M	N	Q
VVXA21	38	20.5	17.5	10.5	11	25	32	36	12	7	43	52	6.5
VVXA22	49	26.5	22.5	13	13	30	40	46	15	9	48	57	8.5