

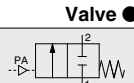
Direct Air Operated 2 Port Valve **VXA21/22 Series**

For Air, Water, Oil

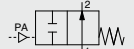


Single Unit

Normally closed
(N.C.)



Normally open
(N.O.)



Material

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

When the valve is closed, flow is blocked from port 1 to port 2. However, if the pressure in port 2 is higher than port 1, the valve will not be able to block the fluid.

Pilot port (Free take off direction)

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

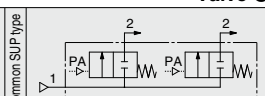
Model

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

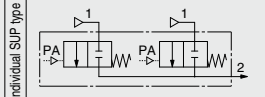


Manifold

Normally closed
(N.C.)



Normally open
(N.O.)



Valve

Material

Base — AL
Body — Zn
Seal — NBR, FKM, EPDM

Manifold

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

When the valve is closed, flow is blocked from port 1 to port 2. However, if the pressure in port 2 is higher than port 1, the valve will not be able to block the fluid.

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	Zn
	Seal material		NBR, FKM, EPDM	NBR, FKM, EPDM

Contents

For Air /Single Unit	P.410
For Air /Manifold	P.412
For Water /Single Unit	P.414
For Oil /Single Unit	P.416
For Oil /Manifold	P.418
Construction: Single Unit	P.420
Construction: Manifold	P.421
Dimensions: Single Unit	P.422
Dimensions: Manifold	P.423

Applicable Fluid Check List

All Options (Single Unit) Refer to page 410 for specifications and models.VXA2 $\frac{0}{2}$ - - 1 -

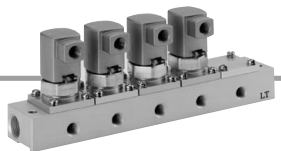
• Option symbol

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 <small>Note 1)</small>	V <small>Note 2)</small>	FKM	Brass (C37)	
	M <small>Note 2)</small>		Stainless steel	
Water	Nil	NBR	Brass (C37)	
	G		Stainless steel	
Oil <small>Note 3)</small>	A	FKM	Brass (C37)	
	H		Stainless steel	
Other combination	B	EPDM	Brass (C37)	
	J		Stainless steel	

**All Options (Manifold)** Refer to page 412 for specifications and models.VXA2 $\frac{1}{3}$ - 00 - 1

• Option symbol

Fluid and application	Option symbol	Seal material	Body material	Base material	Holder material (drive part)
Air	Nil	NBR	Zn	Al	PPS
Medium vacuum, Non-leak <small>Note 1)</small>	V <small>Note 2)</small>	FKM	Al		
Oil <small>Note 3)</small>	A	FKM	Zn		
Other combination	B	EPDM			

Note 1) The leakage amount (10⁻⁴ 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.

* Oil-free specification: Oil-free specification cannot be manufactured since the sliding parts in contact with fluid have a seal construction.

VX2

VXX

VXD

VXZ

VXS

VXB

VXE

VXP

VXR

VXH

VXF

VX3

VXA

VXA21/22 Series

For Air /Single Unit

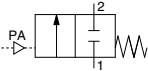
(Non-leak, Medium vacuum)

Model/Valve Specifications

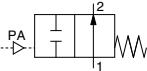
N.C.

N.O.

Symbol



Symbol



When the valve is closed, flow is blocked from port 1 to port 2. However, if the pressure in port 2 is higher than port 1, the valve will not be able to block the fluid.

Model/Valve

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

Note 1) The flow rate characteristics of this product have variations.

When the highly precise flow control is required according to the system to be used, select an orifice diameter 1.3 times larger than that shown above and install a restrictor on the downstream side of the solenoid valve to make the adjustment.

Note 2) Refer to "Glossary of Terms" on page 309 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 cm ³ /min or less	10 ⁻⁶ Pa·m ³ /sec or less

External Leakage

Seal material	Leakage rate	
	Air	Non-leak ^{Note)} Medium vacuum
NBR, EPDM, FKM	1 cm ³ /min or less	10 ⁻⁶ Pa·m ³ /sec or less

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

How to Order (Single Unit)

VXA2120-01-1-

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.

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.

Thread type

Nil

Rc

T

NPTF

F

G

N

NPT

* Including pilot port

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)
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 ²⁰ ₃₂	VX022N-12A
VXA22 ⁵⁰ ₆₂	VX023N-12A-L

VX2

VXK

VXD

VXZ

VXS

VXB

VXE

VXP

VXR

VXH

VXF

VX3

VXA

VVXA21/22 Series

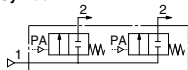
For Air /Manifold

(Non-leak, Medium vacuum)

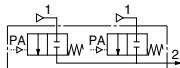
Model for Manifold/Valve Specifications

N.C.

Symbol



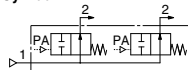
Common SUP type



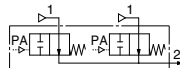
Individual SUP type

N.O.

Symbol



Common SUP type



Individual SUP type



When the valve is closed, flow is blocked from port 1 to port 2. However, if the pressure in port 2 is higher than port 1, the valve will not be able to block the fluid.

Model for Manifold/Valve Specifications

Orifice diameter (mm)	Model	Note 2) Max. operating pressure differential (MPa)	Pilot pressure (MPa)	Flow rate characteristics			Note 2) Max. system pressure (MPa)	Proof pressure (MPa)	Weight (g)
				Air					
				C [dm ³ /(s·bar)]	b	Cv			
3	VXA2123-00	1.0	0.25 to 0.7	1.3	0.50	0.38	1.0	1.5	120
4.5	VXA2133-00	0.5		2.3	0.45	0.70			
	VXA2233-00	1.0		3.3	0.50	1.1			
6	VXA2243-00	0.6							160

Note 1) The flow rate characteristics of this product have variations.

When the highly precise flow control is required according to the system to be used, select an orifice diameter 1.3 times larger than that shown above and install a restrictor on the downstream side of the solenoid valve to make the adjustment.

Note 2) Refer to "Glossary of Terms" on page 309 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 <small>Note)</small> Medium vacuum
NBR, EPDM, FKM	1 cm ³ /min or less	10 ⁻⁶ Pa·m ³ /sec or less

External Leakage

Seal material	Leakage rate	
	Air	Non-leak <small>Note)</small> Medium vacuum
NBR, EPDM, FKM	1 cm ³ /min or less	10 ⁻⁶ Pa·m ³ /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.

Valve option

Refer to the table (2) 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)

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 material	Base material	Seal material	Holder material	Note
Nil	Zn	AL	NBR	PPS	—
A			FKM		
B			EPDM		
V (Note)	Al		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

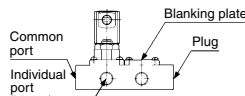
Write both the base part number and the solenoid valve to be mounted or blanking plate part number.

(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.

*"N" is the symbol for mounting. When shipping mounted on a base, add an "N" 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.

VXA21/22 Series

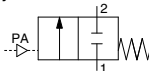
For Water /Single Unit

Model/Valve Specifications

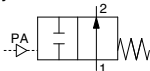
N.C.

N.O.

Symbol



Symbol



When the valve is closed, flow is blocked from port 1 to port 2. However, if the pressure in port 2 is higher than port 1, the valve will not be able to block the fluid.



Model/Valve Specifications

Port size	Orifice diameter (mm)	Model	Pilot pressure (MPa)	Max. operating pressure differential (MPa)	Flow rate characteristics		Max. system pressure (MPa)	Proof pressure (MPa)	Weight (g)	
					Water					
					Kv	Cv converted				
1/8 (6A)	3	VXA212 $\frac{1}{2}$	0.25 to 0.7	1.0	0.28	0.33	1.0	1.5	170	
	4.5	VXA213 $\frac{1}{2}$		0.5	0.54	0.61				
1/4 (8A)	3	VXA212 $\frac{1}{2}$		1.0	0.28	0.33				
	4.5	VXA213 $\frac{1}{2}$		0.5	0.54	0.61				
	6	VXA224 $\frac{1}{2}$		1.0	0.54	0.61			250	
	8	VXA225 $\frac{1}{2}$		0.6	0.93	1.1				
	10	VXA226 $\frac{1}{2}$		0.2	1.46	1.7	0.4		340	
	10	VXA226 $\frac{1}{2}$		0.1	1.64	1.9				
3/8 (10A)	4.5	VXA223 $\frac{1}{2}$		1.0	0.54	0.61	1.0		250	
	6	VXA224 $\frac{1}{2}$		0.6	0.93	1.1				
	8	VXA225 $\frac{1}{2}$		0.2	1.46	1.7	0.4		340	
	10	VXA226 $\frac{1}{2}$		0.1	2.07	2.4				
1/2 (15A)	10	VXA226 $\frac{1}{2}$		0.1	2.07	2.4			420	

Note 1) The flow rate characteristics of this product have variations.

When the highly precise flow control is required according to the system to be used, select an orifice diameter 1.3 times larger than that shown above and install a restrictor on the downstream side of the solenoid valve to make the adjustment.

Note 2) Refer to "Glossary of Terms" on page 309 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)

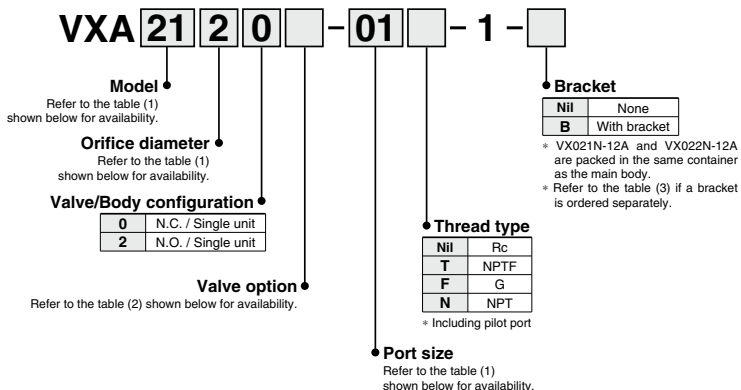


Table (1) Model/Orifice Diameter/Port Size

Model	Valve (Port size)		Orifice symbol (Diameter)				
	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

VXA21/22 Series

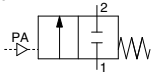
For Oil /Single Unit

Model/Valve Specifications

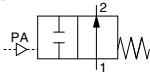
N.C.

N.O.

Symbol



Symbol



When the valve is closed, flow is blocked from port 1 to port 2. However, if the pressure in port 2 is higher than port 1, the valve will not be able to block the fluid.



Model/Valve Specifications

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

Note 1) The flow rate characteristics of this product have variations.

When the highly precise flow control is required according to the system to be used, select an orifice diameter 1.3 times larger than that shown above and install a restrictor on the downstream side of the solenoid valve to make the adjustment.

Note 2) Refer to "Glossary of Terms" on page 309 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)

VXA2120A-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.

Thread type

Nil	Rc
T	NPTF
F	G
N	NPT

* Including pilot port

Port size

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

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)	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	

Table (3) Bracket Part No.

Model	Part no.
VX21 ³⁰ ₃₂	VX021N-12A
VX22 ³⁰ ₄₂	VX022N-12A
VX22 ³⁰ ₆₂	VX023N-12A-L

VX2

VXK

VXD

VXZ

VXS

VXB

VXE

VXP

VXR

VXH

VXF

VX3

VXA

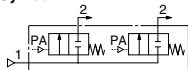
VVXA21/22 Series

For Oil /Manifold

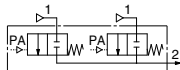
Valve for Manifold/Valve Specifications

N.C.

Symbol



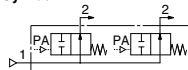
Common SUP type



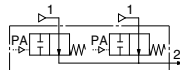
Individual SUP type

N.O.

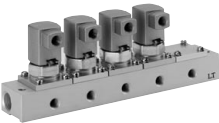
Symbol



Common SUP type



Individual SUP type



When the valve is closed, flow is blocked from port 1 to port 2. However, if the pressure in port 2 is higher than port 1, the valve will not be able to block the fluid.

Valve for Manifold/Valve Specifications

Orifice diameter (mm)	Model	Max. operating pressure differential (MPa) <small>Note 2)</small>	Pilot pressure (MPa)	Flow rate characteristics <small>Note 1)</small>		Max. system pressure (MPa) <small>Note 2)</small>	Proof pressure (MPa)	Weight (g) <small>Note)</small>
				Air				
				Av x 10 ⁻⁶ m ³	Cv converted			
3	VXA2123-00	1.0	0.25 to 0.7	7.9	0.33	1.0	1.5	120
4.5	VXA2133-00	0.5		15	0.61			
4.5	VXA2233-00	1.0		26	1.1			
6	VXA2243-00	0.6						160

Note 1) The flow rate characteristics of this product have variations.
When the highly precise flow control is required according to the system to be used, select an orifice diameter 1.3 times larger than that shown above and install a restrictor on the downstream side of the solenoid valve to make the adjustment.

Note 2) Refer to "Glossary of Terms" on page 309 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 <small>Note)</small> 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 cm³/min or less

External Leakage

Seal material	Leakage rate
FKM	0.1 cm³/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.

Valve option

Refer to the table (2) 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)

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 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	—

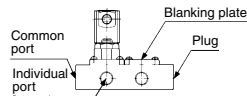
How to Order Manifold

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.

*"s" is the symbol for mounting. When shipping mounted on a base, add an "s" 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.

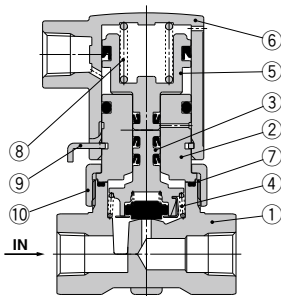
VXA21/22 Series

For Air, Water, Oil

Construction: Single Unit

Normally closed (N.C.)

Body material: Brass (C37), Stainless steel



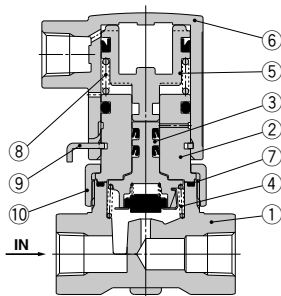
Component Parts

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.

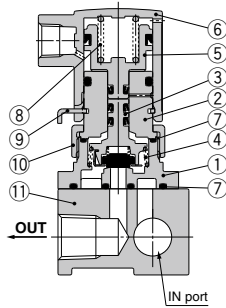
Construction: Manifold

Normally closed (N.C.)

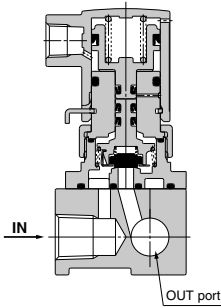
Body material: Zn

Base material: AL

Common SUP type



Individual SUP type



Component Parts

No.	Description	Material
1	Body	Zn (AL)
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

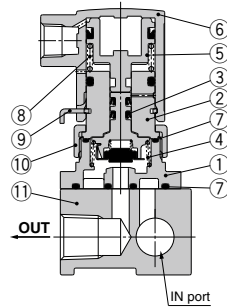
The materials in parentheses are the seal materials.

Normally open (N.O.)

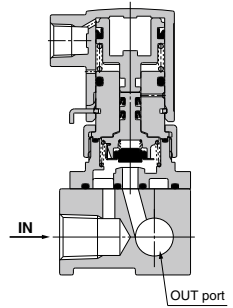
Body material: Zn

Base material: AL

Common SUP type



Individual SUP type



Component Parts

No.	Description	Material
1	Body	Zn (AL)
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.

VX2
VXK
VXD
VXZ
VXS
VXB
VXE
VXP
VXR
VXH
VXF
VX3
VXA

For Air, Vacuum, Water, Oil

Normally open (N.O.): VXA21□2/VXA22□2

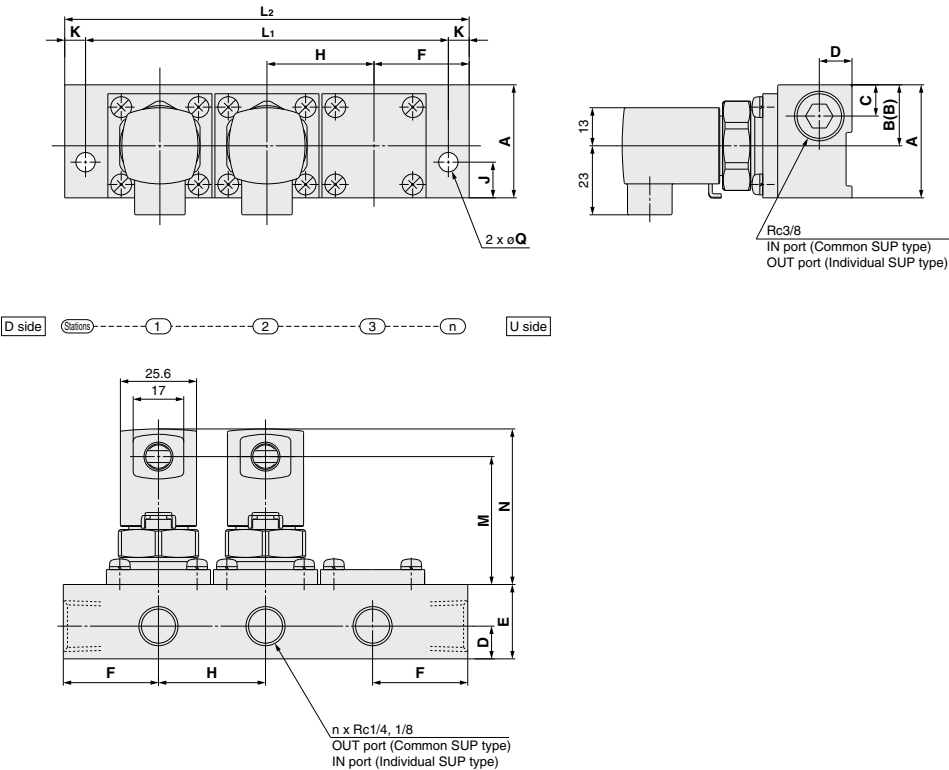


Orifice $\varnothing 8, \varnothing 10$



Dimensions: Manifold/Body Material: Zn

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



Model	Dimension	n (Stations)									(mm)
		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	

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

VX2
VXK
VXD
VXZ
VXS
VXB
VXE
VXP
VXR
VXH
VXF
VX3
VXA