



General Purpose Valves
Catalog No. CB-03-1SA

Diaphragm cylinder valve, single unit

NAD*V Series

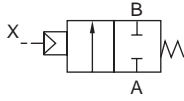
- NC (Normally Closed), NO (Normally Open), double acting
- Port size: Rc3/8
- Working fluid: Low vacuum



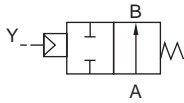
Pneumatic actuator
Pneumatic valves
Pneumatic auxiliary components
Fluid control components
Electric actuator

JIS symbol

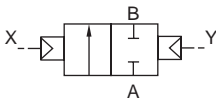
- NC (Normally Closed)



- NO (Normally Open)



- Double acting



Specifications

Item	NAD1V-10	NAD2V-10	NAD3V-10
Actuation	NC (Normally Closed)	NO (Normally Open)	Double acting
Working fluid	Low vacuum (air/water)		
Fluid viscosity mm ² /s	500 or less		
Working pressure	1.3 x 10 ² to 5 x 10 ⁵ Pa (abs) (secondary pressure 4 x 10 ⁵ Pa (abs) or less)		
Proof pressure (water pressure) MPa	1.0		
Fluid temperature °C	-10 to 50 (no freezing)		
Ambient temperature °C	-10 to 50		
Valve seat leakage	1.33 x 10 ⁻³ Pa·m ³ /sHe or less		
Port size	Rc3/8		
Orifice size mm	7		
Cv	1.1		
C[dm ³ /(s·bar)]	4.4		
b	0.1		
Weight kg	0.32		
Mounting orientation	Unrestricted		
Pilot fluid	Air		
Pilot pressure MPa	0.4 to 0.5		
Pilot port size	Rc1/8		

*1: Effective cross-sectional area S and sonic conductance C are converted as S ≈ 5.0 × C.

How to order

NAD 1 V - 10 - R B - P4

Model No.

Working fluid
(for low vacuum)

A Actuation

B Port size

C Body/sealant combination

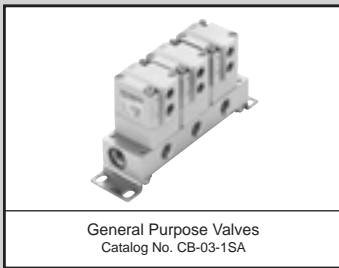
D Other options

Code	Description	
A Actuation		
1	NC (Normally Closed)	
2	NO (Normally Open)	
3	Double acting	
B Port size		
10	Rc3/8	
C Body/sealant combination		
	Body	Seal
R	Stainless steel	Ethylene propylene rubber
D Other options		
Blank	No option	
B	Mounting plate	

Compatibility table by variation

	NAD
Port size	Rc3/8
P4	●

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable



Diaphragm cylinder valve, manifold

GNAD*V Series

- NC (Normally Closed), NO (Normally Open), double acting
- Port size: Rc1/4, Rc3/8
- Working fluid: Low vacuum

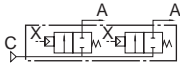
P4
Series



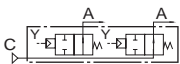
JIS symbol

- Common supply (port C pressurization)

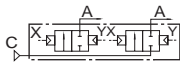
NC (Normally Closed)



NO (Normally Open)

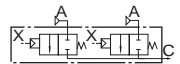


Double acting

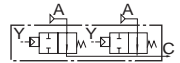


- Individual supply (port A pressurization)

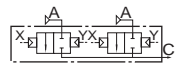
NC (Normally Closed)



NO (Normally Open)



Double acting



Specifications

Item	GNAD1V-1, 5	GNAD2V-1, 5	GNAD3V-1, 5
Actuation	NC (Normally Closed)	NO (Normally Open)	Double acting
Working fluid	Low vacuum (air/water)		
Fluid viscosity mm ² /s	500 or less		
Working pressure	1.3 x 10 ² to 5 x 10 ⁵ Pa (abs) (secondary pressure 4 x 10 ⁵ Pa (abs) or less)		
Proof pressure (water pressure) MPa	1.0		
Fluid temperature °C	-10 to 50 (no freezing)		
Ambient temperature °C	-10 to 50		
Valve seat leakage	1.33 x 10 ⁻³ Pa·m ³ /sHe or less		
Orifice size mm	7		
Cv	0.7		
C[dm ³ /(s·bar)]	3.4		
b	-		
Mounting orientation	Unrestricted		
Pilot fluid	Air		
Pilot pressure MPa	0.4 to 0.5		
Pilot port size	Rc1/8		

*1: Effective cross-sectional area S and sonic conductance C are converted as $S \approx 5.0 \times C$.

How to order

GNAD (1) **V** - (1) - (3) - **R** - **P4**

Model No.

Working fluid
(for low vacuum)

A Actuation

B Air supply category

C Manifold station No.

D Sub-plate/
body/sealant
combination

Code	Description		
A Actuation			
1	NC (Normally Closed)		
2	NO (Normally Open)		
3	Double acting		
B Air supply category			
1	Common supply		
5	Individual supply		
C Manifold station No.			
2	2 stations		
to	to		
10	10 stations		
0	Actuator only		
D Sub-plate/body/sealant combination			
	Sub-plate	Body	Seal
R	Stainless steel	Stainless steel	Ethylene propylene rubber
3	Aluminum	Polypropylene	Ethylene propylene rubber

Compatibility table by variation

	NAD
Port size	Rc1/4, Rc3/8
P4	●

- : Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable

Pneumatic actuator
Hand/Chuck
Related products
Cylinder Switch
Vacuum components
Pneumatic valves
Clean air components controller
Speed
Fitting
Auxiliary valve
Silencer
Tube
Gas generator
Fluid control components
Electric actuator
Motorless specifications