

Diaphragm cylinder valve, single unit



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

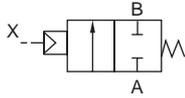
# NAD\*-FP2/NAD\*V-FP2 Series

- NC (Normally Closed), NO (Normally Open), double acting
- Port size: Rc3/8
- Working fluid
  - NAD\* : Air, inert gas, water, non-corrosive liquid
  - NAD\*V : Low vacuum

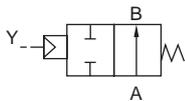


## JIS symbol

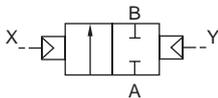
- NC (Normally Closed)



- NO (Normally Open)



- Double acting



## Specifications

Item	NAD1-10	NAD2-10	NAD3-10	NAD1V-10	NAD2V-10	NAD3V-10
Actuation	NC (Normally Closed) type	NO (Normally Open) type	Double acting	NC (Normally Closed) type	NO (Normally Open) type	Double acting
Working fluid	Air, inert gas, water, non-corrosive/non-absorbable liquid			Low vacuum (air/water)		
Fluid viscosity	mm <sup>2</sup> /s 500 or less					
Working pressure	0 to 0.5 MPa (secondary pressure 0.4 MPa or less)			1.3 x 10 <sup>2</sup> to 5 x 10 <sup>5</sup> Pa (abs) (secondary pressure 4 x 10 <sup>5</sup> 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	0.12cm <sup>3</sup> /min or less (pneumatic pressure)			1.33 x 10 <sup>-3</sup> Pa·m <sup>3</sup> /sHe or less		
Port size	Rc3/8			Rc3/8		
Orifice size	mm 7					
Cv	1.1					
C[dm <sup>3</sup> /(s·bar)]	4.4					
b	0.3			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** **10** **R** **B** **-FP2**

Model No.

**A** Actuation

**B** Working fluid

**C** Port size

**D** Body/sealant combination

**E** Other options

Code	Description
<b>A Actuation</b>	
1	NC (Normally Closed)
2	NO (Normally Open)
3	Double acting
<b>B Working fluid</b>	
Blank	Air, inert gas, water
V	Low vacuum
<b>C Port size</b>	
10	Rc3/8
<b>D Body/sealant combination</b>	
	Body Seal
R	Stainless steel Ethylene propylene rubber
<b>E Other options</b>	
Blank	No option
B	Mounting plate

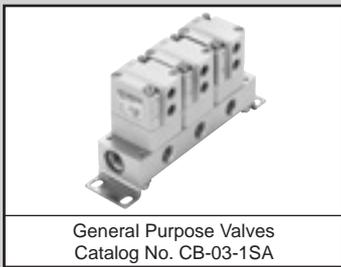
[Example of model No.]

**NAD1-10-RB-FP2**

Model: NAD

- A** Actuation : NC (Normally Closed)
- B** Working fluid : Air, inert gas, water
- C** Port size : Rc3/8
- D** Body/sealant combination : Body - stainless steel/sealant - ethylene propylene rubber
- E** Other options : With mounting plate

For dimensions, refer to the NAD Series in "General Purpose Valves (CB-03-1SA)".



Diaphragm cylinder valve, manifold

Material compatible with the Food Sanitation Act

# GNAD\*-FP2/GNAD\*V-FP2 Series

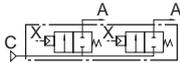
- NC (Normally Closed), NO (Normally Open), double acting
- Port size: Rc1/4, Rc3/8
- Working fluid
  - GNAD\* : Air, inert gas, water, non-corrosive liquid
  - GNAD\*V : Low vacuum



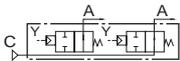
## JIS symbol

- Common supply (port C pressurization)

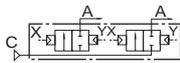
NC (Normally Closed)



NO (Normally Open)

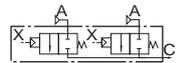


Double acting

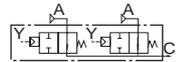


- Individual supply (port A pressurization)

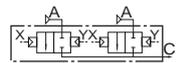
NC (Normally Closed)



NO (Normally Open)



Double acting



## Specifications

Item	GNAD1-1, 5	GNAD2-1, 5	GNAD3-1, 5	GNAD1V-1, 5	GNAD2V-1, 5	GNAD3V-1, 5
Actuation	NC (Normally Closed) type	NO (Normally Open) type	Double acting	NC (Normally Closed) type	NO (Normally Open) type	Double acting
Working fluid	Air, inert gas, water, non-corrosive/non-absorbable liquid			Low vacuum (air/water)		
Fluid viscosity mm <sup>2</sup> /s	500 or less					
Working pressure	0 to 0.5MPa (secondary pressure 0.4MPa or less)			1.3 x 10 <sup>2</sup> to 5 x 10 <sup>2</sup> Pa (abs) (secondary pressure 4 x 10 <sup>2</sup> 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	0.12cm <sup>3</sup> /min or less (pneumatic pressure)			1.33 x 10 <sup>-3</sup> Pa·m <sup>3</sup> /sHe or less		
Orifice size mm	7					
Cv	0.7					
C[dm <sup>3</sup> /(s·bar)]	3.4					
b	0.1			-		
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** - **1** - **3** - **R** - **FP2**

Model No.

**A** Actuation

**B** Working fluid

**C** Air supply category

**D** Manifold station No.

**E** Sub-plate/body/sealant combination

Code	Description
<b>A Actuation</b>	
1	NC (Normally Closed)
2	NO (Normally Open)
3	Double acting
<b>B Working fluid</b>	
Blank	Air, inert gas, water
V	Low vacuum
<b>C Air supply category</b>	
1	Common supply
5	Individual supply
<b>D Manifold station No.</b>	
2	2 stations
to	to
10	10 stations
0	Actuator only
<b>E Sub-plate/body/sealant combination</b>	
	Sub-plate    Body    Seal
R	Stainless steel    Stainless steel    Ethylene propylene rubber
8	Stainless steel    Polypropylene    Ethylene propylene rubber
3	Aluminum    Polypropylene    Ethylene propylene rubber

[Example of model No.]

**GNAD1-1-3-R-FP2**

Model name: GNAD

- A** Actuation : NC (Normally Closed)
- B** Working fluid : Air, inert gas, water
- C** Air supply category : Common supply
- D** Manifold station No. : 3 stations
- E** Sub-plate/body/sealant combination : Sub-plate - stainless steel/body - stainless steel/sealant - ethylene propylene rubber

For dimensions, refer to the GNAD Series in "General Purpose Valves (CB-03-1SA)".

Electric actuator  
 Pneumatic cylinders  
 Assistive device  
 Pneumatic valves  
 FRL/Auxiliary Components  
 Electronic Component  
 Vacuum components  
 Main line components  
 Fluid control valves  
 Main line components  
 Anti-bacterial/bacteria-removing filter  
 Vacuum components  
 Fluid control valves