



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

Diaphragm cylinder valve

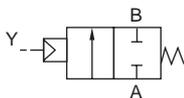
# LAD-FP2 Series

- NC (Normally Closed), NO (Normally Open), double acting
- Port size: Rc3/8, Rc1/2, Rc3/4, Rc1
- Working fluids: Pure water, water, air, N<sub>2</sub>Gas

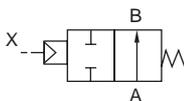


## JIS symbol

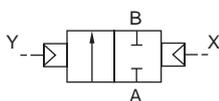
- NC (Normally Closed)



- NO (Normally Open)



- Double acting



## Common specifications(PTFE diaphragm)

Item	LAD1	LAD2	LAD3
Actuation	NC (Normally Closed)	NO (Normally Open)	Double acting
Working fluid	Water, pure water, air, N <sub>2</sub> Gas, non-corrosive/non-absorbable fluid (*1)		
Fluid temperature °C	5 to 90 (*2)		
Proof pressure Force(water pressure) MPa	0.9		
Working pressure (A→B) MPa	0 to 0.3		
Valve seat leakage cm <sup>3</sup> /min	0 (water pressure), 1 or less (pneumatic pressure)		
Back pressure MPa	0 to 0.1		
Ambient temperature °C	0 to 60		
Mounting orientation	Unrestricted		
Operating section	Pilot fluid	Air	
	Pilot pressure MPa	0.3 to 0.5	0.3 to 0.4
	Pilot port size	Rc1/8 (*3)	

\*1: Check the compliant of product structural materials, working fluids and atmosphere. Strong acids and highly absorbable fluids cannot be used.

\*2: 5 to 100°C for stainless steel body (SCS13).

\*3: With stainless steel reinforcing ring.

## Common specifications(EPDM diaphragm)

Item	LAD1	LAD2	LAD3
Actuation	NC (Normally Closed)	NO (Normally Open)	Double acting
Working fluid	Water, air, N <sub>2</sub> Gas, non-corrosive/non-absorbable fluid (*1)		
Fluid temperature °C	0 to 60 (no freezing)		
Proof pressure (water pressure) MPa	1.5 (refer to proof pressure in individual specifications.)		
Working pressure (A→B) MPa	0 to 0.5 (refer to working pressure range in individual specifications.)		
Valve seat leakage cm <sup>3</sup> /min	0 (water pressure), 0.12 or less (pneumatic pressure)		
Back pressure MPa	0 to 0.1		
Ambient temperature °C	0 to 60		
Mounting orientation	Unrestricted		
Operating section	Pilot fluid	Air	
	Pilot pressure MPa	0.3 to 0.5	0.3 to 0.4
	Pilot port size	Rc1/8 (*2)	

\*1: Check the compliant of product structural materials, working fluids and atmosphere. Strong acids and highly absorbable fluids cannot be used.

\*2: With stainless steel reinforcing ring.

## Individual specifications(PTFE diaphragm)

Item Model No.	Port size	Orifice size mm	Cv	Frequency cycles/min.	Weight kg	
					PPS body	SCS13 body
LAD*-10A	Rc3/8	8	1.7	30 or less	0.15	0.3
LAD*-15A	Rc1/2	12	3.3	20 or less	0.28	0.6
LAD*-20A	Rc3/4	20	8.5	20 or less	0.55	1.1
LAD*-25A	Rc1	20	8.5	20 or less	0.60	1.2

## Individual specifications(EPDM diaphragm)

Item Model No.	Port size	Proof pressure (water pressure) MPa	Working pressure (A→B) MPa	Orifice size mm	Cv	Frequency cycles/min.	Weight kg	
							PPS Body	SCS13 Body
LAD*-10A	Rc3/8	1.5	0.5	8	1.7	30 or less	0.15	0.3
LAD*-15A	Rc1/2	1.5	0.5	12	3.3	20 or less	0.28	0.6
LAD*-20A	Rc3/4	1.2	0.4	20	8.5	20 or less	0.55	1.1
LAD*-25A	Rc1	1.2	0.4	20	8.5	20 or less	0.60	1.2

