

# Air Operated, Organic Solvents Compatible Double Ferrule Fittings/Metal Gasket Seal Fittings/Integrated Tubing

## LVA Series

### How to Order Valve

**LVA 2 0 - D 07 - AD - - -**

**Body class**

Symbol	Body class	Orifice dia.
2	2	ø4
3	3	ø8
4	4	ø12
5	5	ø20
6	6	ø22

**Valve type**

0	N.C.
1	N.O.
2	Double acting

**Option 2**

Nil	None
W	Low water hammer type
E	Body wetted parts equivalent to EP grade

**Option 1**

Nil	None
1	With flow rate adjustment
4	With indicator
5	High back pressure (0.5 MPa) tolerant
6	High back pressure with flow rate adjustment
9	High back pressure with indicator

\*: With flow rate adjustment: Only available with N.C. valve and double acting valve  
\*: With indicator: Only available with N.C. valve

**Fitting type**

Symbol	Type
D	With double ferrule fittings
G	With metal gasket seal fittings
T	Integrated tubing

**Applicable tubing size**

Symbol	Connecting tubing size	Body class					
		2	3	4	5	6	
<b>Metric size</b>							
06	ø6	○					
10	ø10		○				
12	ø12			○			
19	ø19				○		
<b>Inch size</b>							
07	1/4	○					
11	3/8		○				
13	1/2			○			
19	3/4				○		
25	1					○	

\*: Metric size is only available for fitting types D and T.

**Material**

Symbol	Body	Actuator section	Diaphragm	Seal	Buffer
AD	Stainless steel	ADC	PTFE	FKM	FKM
ND				EPDM	EPDM

**Pilot port thread type**

Symbol	Body class	Thread type
Nil	2	M5 x 0.8
	3, 4, 5, 6	Rc1/8
N	3, 4, 5, 6	NPT1/8



LVA30-D11-AD  
Double ferrule fittings



LVA60-T25-AD  
Integrated tubing



LVA50-G19-AD  
Metal gasket seal fittings

### Standard Specifications

Model		LVA20	LVA30	LVA40	LVA50	LVA60
Tubing O.D.	Metric size*1	6	10	12	19	—
	Inch size	1/4	3/8	1/2	3/4	1
Orifice diameter		ø4	ø8	ø12	ø20	ø22
Flow rate characteristics	Kv	0.3	1.4	2.8	5.1	6.8
	Cv	0.35	1.7	3.3	6	8
Withstand pressure [MPa]		1				
Operating pressure [MPa]	Standard	A→B	0 to 0.5		0 to 0.4	
		B→A	0 to 0.2		0 to 0.1	
	High back pressure	A→B	0 to 0.5			
		B→A	0 to 0.4			
Back pressure [MPa]	Standard	N.C./N.O.	0.3 or less		0.2 or less	
		Double acting	0.4 or less		0.3 or less	
	High back pressure*2	N.C./N.O./Double acting	0.5 or less			
Valve leakage [cm <sup>3</sup> /min]		0 (with water pressure)				
Pilot air pressure [MPa]		0.3 to 0.5 (High back pressure: 0.5 to 0.8)*2				
Pilot port size		M5	Rc1/8, NPT1/8			
Fluid temperature [°C]		0 to 100				
Ambient temperature [°C]		0 to 60				
Fitting type		With double ferrule fittings, With metal gasket seal fittings, Integrated tubing				

\*1: Metric size is only available for fitting types D and T.

\*2: High back pressure is optional.