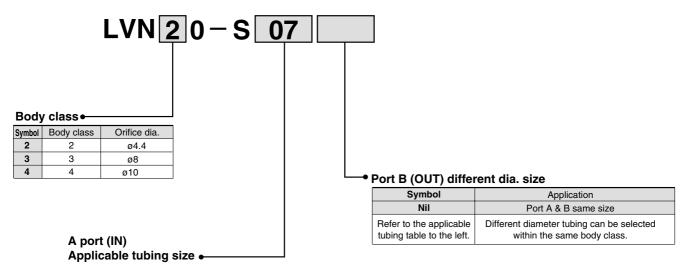
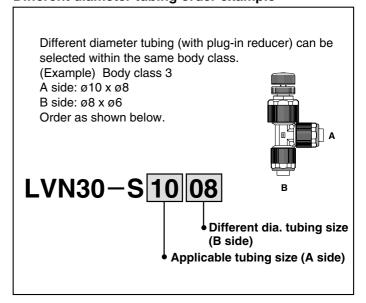
High Purity Fluoropolymer Needle Valve Series LVN

How to Order



Symbol	Connecting tubing	Body class					
Syllibol	O.D.	2	3	4			
Metri	c sizes						
04	ø4	•					
06	ø6	0	•				
08	ø8		•				
10	ø10		0	•			
12	ø12			0			
Inch s	sizes						
03	1/8	•					
05	3/16	•					
07	1/4	0	•				
11	3/8		0	•			
13	1/2			0			

Different diameter tubing order example



High Purity Fluoropolymer Needle Valve Series LVN





Model	LVN20	LVN30	LVN40				
- · · · · · · · ·	Metric size	4, 6	6, 8, 10	10, 12			
Tubing O.D.	Inch size	1/8, 1/16, 1/4	1/4, 3/8	3/8, 1/2			
Orifice diameter		ø4.4	ø8	ø10			
Flow characteristics	Av x 10 ⁻⁶ m ²	12	33.6	52.8			
Flow characteristics	Cv	0.5	1.4	2.2			
Withstand pressure (MF	ra)	1					
Operating pressure (MP	a)	0 to 0.5					
Fluid temperature (°C)	5 to 90						
Ambient temperature (°	0 to 60						
Weight (kg)		0.055 0.115 0.1					

Different Diameter Tubing Applicable with Reducer

Different diameter tubing can be selected (within a body class) by using a nut and insert bushing (reducer). Applicable fitting: LQ2

		Tubing O.D.										
Body class		Metric sizes						Inch sizes				
5.0.22	4	6	8	10	12	1/8	3/16	1/4	3/8	1/2		
2	•	0				•	•	0				
3		•	•	0				•	0			
4				•	0				•	0		

Note) Refer to page 17-5-127 for information on changing tubing sizes.

Basic sizeWith reducer

↑ Specific Product Precautions

Be sure to read before handling. Refer to page 17-6-3 for Safety Instructions and 17-5-138 to 17-5-139 for High Purity Chemical Valve Precautions.

Piping

⚠ Caution

1. Connect tubing with special tools.

Refer to pages 17-5-127 through 17-5-129 regarding tubing connection and special tools.

2. Tighten the nut to the end surface of the body. As a guide, refer to the proper tightening torques shown below.

Tightening torque for piping

<u> </u>	
Body class	Torque (N·m)
2	1.5 to 2.0
3	3.0 to 3.5
4	7.5 to 9

VC□

VDW VQ

VX2

VX□

VX3

VXA VN□

LVC

LVA

LVD

LVQ

LQ

LVN TI/

TIL PA

FA

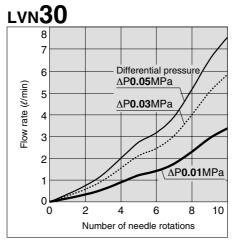
PAX PB

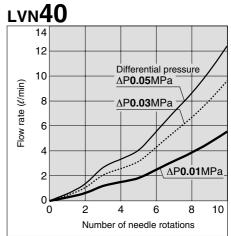
Series LVN

Flow Characteristics (Fluid: Water)

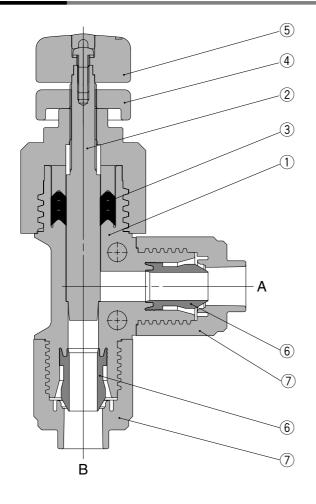
4.5
4
3.5
Differential pressure
AP0.05MPa

2.5
1
0.5
0
2 4 6 8 10
Number of needle rotations

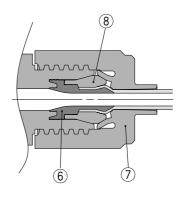




Construction





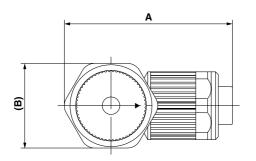


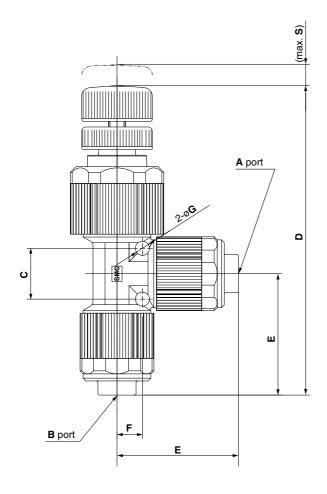
Part lists

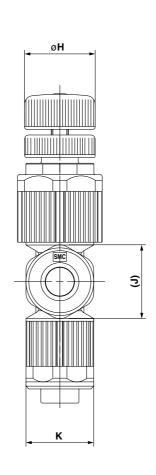
No.	Description	Material
1	Body	PFA
2	Needle	PCTFE
3	V seal	PTFE
4	Lock nut	PVDF
5	Adjustment handle	PVDF
6	Insert bushing	PFA
7	Nut	PFA
8	Collar	PFA

High Purity Fluoropolymer Needle Valve Series LVN

Dimensions







Model	Α	В	С	D	E	F	G	Н	J	K	S
LVN20	48	24	12	88	34.5	6	4	14	20	18	2.4
LVN30	60	30	18	110	43	9	5	25	26	24	7.5
LVN40	72	36	22	124	52	11	6	25	33	30	8

VC□

VDW

VQ VX2

VX

VX3

VXA

VN□

LVC

LVA LVH

LVD

LVQ LQ

LVN

TI/ TIL

PA

PAX

РВ