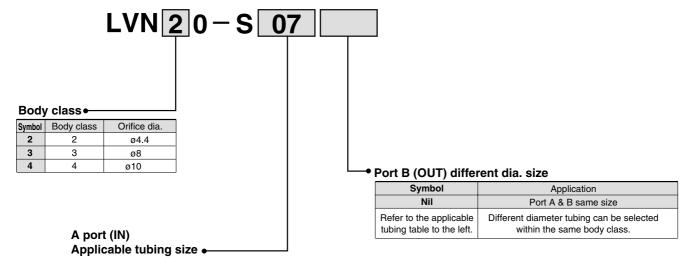
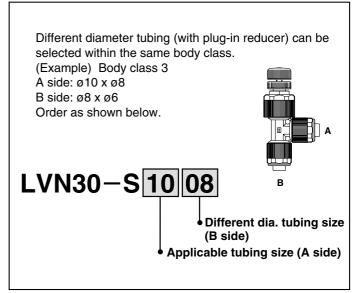
High Purity Fluoropolymer Needle Valve Series LVN

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							
Inch sizes								
03	1/8	•						
05	3/16	•						
07	1/4	0	•					
11	3/8		0	•				
13	1/2							

Different diameter tubing order example



High Purity Fluoropolymer Needle Valve Series LVN





Model	LVN20	LVN30	LVN40			
modol	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 (MP	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		M	letric size	es		Inch sizes					
	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

riginioning conference pripring								
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□

VAL

VX3

VXA

VN□

LVC

LVA

LVD

LVQ

LQ LVN

TI/ TIL

PA

PAX

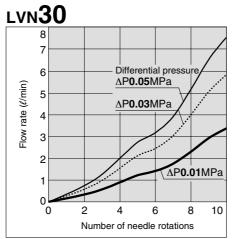
РВ

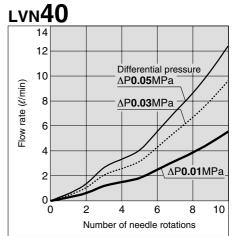
Series LVN

Flow Characteristics (Fluid: Water)

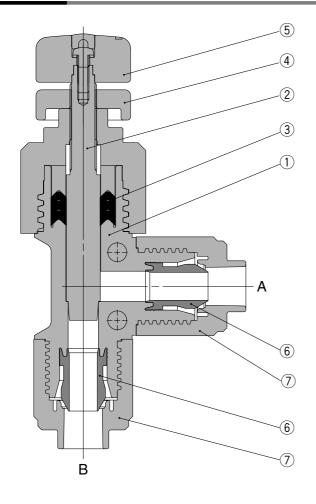
4.5
4
3.5
Differential pressure
AP0.05MPa

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

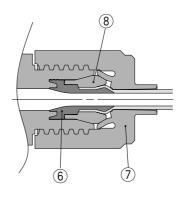




Construction





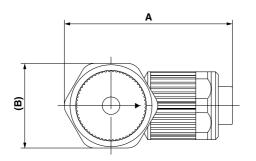


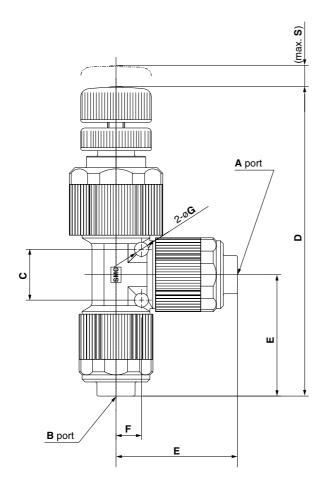
Part lists

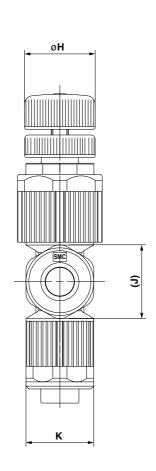
No.	Description	Material
1	Body	PFA
2	Needle	PCTFE
3	V seal	PTFE
4	Lock nut	PVDF
5	Adjustment handle	PVDF
6	Insert bushing	PFA
7	Nut	PFA
8	Collar	PFA

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

V//_

VX

VX3

VN

LVC

LVA

LVH

LVQ

LQ

LVN TI/ TIL

PA

PAX

РВ