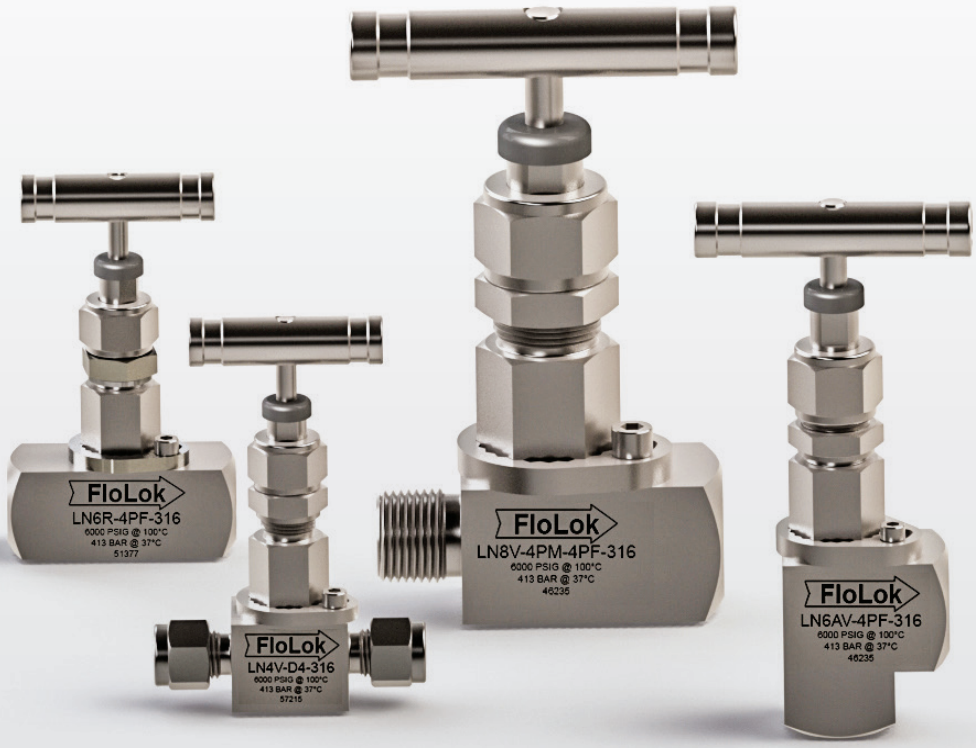
SSP

Locked Bonnet Needle Valves



FloLok®

LN Series

- ☑ Working Pressures up to 6000 psig (413 bar)
- ☑ Temperature Range from -100 to 1200°F (-73 to 648°C)
- ☑ Flow Coefficients up to 2.18
- ☑ Locked bonnet eliminates accidental disassembly of the bonnet
- ☑ Non-rotating lower stem
- ☑ Straight and angle patterns

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MADE IN USA

At SSP, we are proud to be an American manufacturing success story.

100% of our products are made in America. All of our manufacturing is performed in our 165,000 sq. ft. facility located near Cleveland, Ohio. Our facility is the largest vertically integrated, single-site operation in the industry. In addition to manufacturing and assembly, we have closed die forging, tool & die design, product engineering and testing operations under the same roof with customer service and management.

Made in America is good business. Not only do we make everything in America, we use American suppliers too. Buying American allows us to have better quality control and a more reliable supply chain. We can work more closely within our walls and with our suppliers to improve quality, reduce costs, and shorten lead times, which means faster service and better products for you.

SSP Industry Standard Products.
Made Better.

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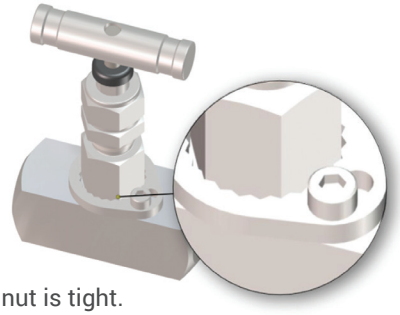
LN Series Locked Bonnet Needle Valves

A Better Severe Service Needle Valve

LN Series Locked Bonnet Needle Valves are designed for severe service applications having pressures up to 6000 psig (413 bar), temperatures from -100 to 1200°F (-73 to 648°C), high vibration, abrasive/corrosive media, and frequent cycling. They offer important advantages over union bonnet and other severe service needle valve designs.

Safer than Union Bonnet Designs

The LN Series locked bonnet design is safer and more reliable than union bonnet designs. In union bonnet designs, a single nut attaches the bonnet to the turret on the valve body. The same nut provides the force to create and maintain a metal to metal seal between the bonnet and body. There is nothing to prevent the nut from accidental disassembly or from loosening due to vibration, and there is no positive visual indication that the nut is tight.



LN Series locked bonnet design

In the LN Series locked bonnet design, the bonnet is screwed into the valve body then locked in place with a lock ring secured with a separate screw. This prevents accidental disassembly during packing adjustment, loosening due to vibration, or unscrewing of the bonnet by continuing to rotate the stem after it is fully open.

Leak-Tight Reliability and Low Maintenance

LN Series features including live loaded chevron packing, non-rotating lower stem, and stem threads that are isolated from system media work together for leak-tight reliability, high cycle life, low torque operation and low maintenance.

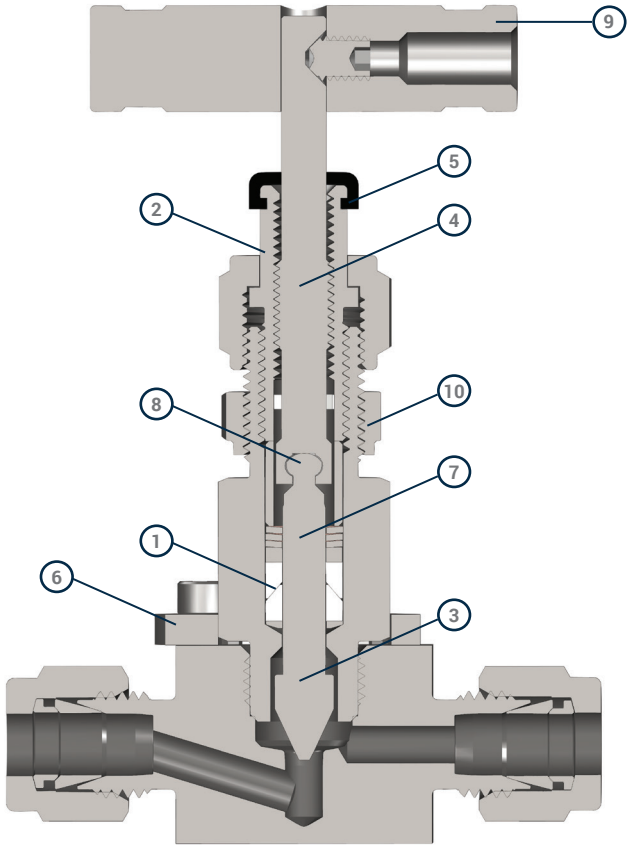
Design Choices

LN Series Needle Valves offer many size, stem, and end connection combinations to suit a wide range of applications.

Applications

LN Series needle valves provide reliable shut off, regulating and metering control in severe applications where higher temperatures, pressures, and vibration are common. LN Series valves are used in oil & gas exploration and refining, high pressure instrumentation, test stands, steam systems, high pressure control systems and many other applications.

Product Design



1 LIVE LOADED CHEVRON PACKING

- Reduces need for packing adjustments
- Compensates for wear
- Compensates for pressure and temperature changes
- Packing supports prevent packing extrusion
- Flexible graphite packing is available for high-temperature applications

2 IN LINE PACKING ADJUSTMENT

- Easy access to packing bolt — nothing to disassemble
- Allows in line packing adjustment in pressurized system

3 BACK SEATING STEM

- Isolates the packing when the valve is in the fully open position
- Makes packing adjustment safer

4 HARDENED NON-WETTED STEM THREADS

- Hardened 17-4 PH stainless steel
- High cycle life
- Retain lubricants for easy operation and longer cycle life

5 DUST CAP

- Prevents contamination of the stem threads from the environment

6 BONNET LOCK PLATE

- Locks bonnet in place to prevent accidental disassembly
- Positive lock is superior to union bonnet construction

7 NON ROTATING LOWER STEM

- Prevents damage to the seat and stem tip for repetitive leak-tight sealing even in severe environments
- Reduces packing maintenance because the stem does not rotate within the packing
- Vee-type, soft-seal shutoff, regulating, and metering stem tips are available
- Chrome-plated, strain-hardened 316 SS

8 NON-WETTED, STEM PIVOT INTERLOCK

- Prevents contamination and corrosion from seizing up the non-rotating tip

9 DURABLE STAINLESS STEEL HANDLE

- Large ergonomic handle for easier actuation

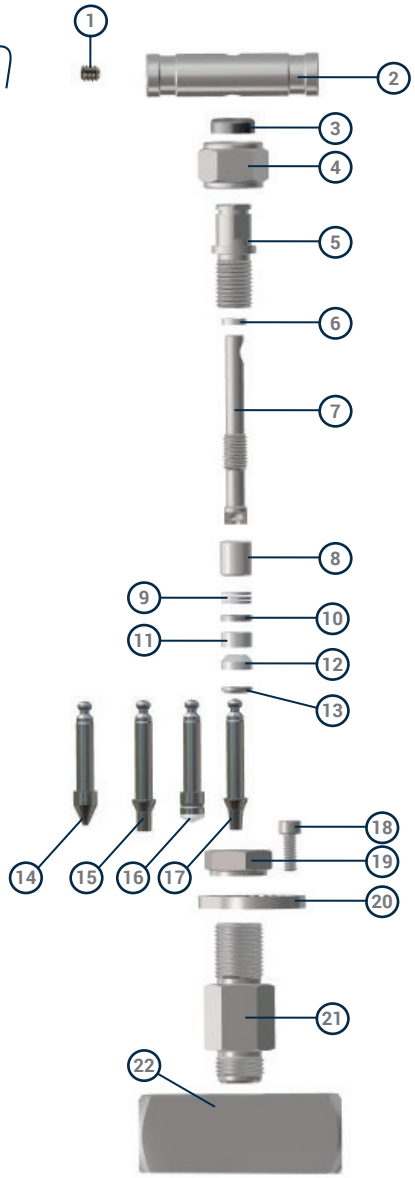
10 PANEL MOUNTING

Meets ASME B31.1 and B31.3 design pressure calculations

Materials of Construction

ID	COMPONENT	MATERIAL	SPECIFICATION
1	Handle Screw	316 SS	A276
2	T-Bar Handle	303	A582
3	Cap	NBR	D2000
4	Packing Nut	316 SS	A276
5	Packing Bolt	316 SS	A276
6	Stem Guide	PEEK	-
7	Upper Stem	17-4 PH	A564
8	Packing Spacer	316 SS	A276
9	Packing Springs	301	A666
10	Packing Washer	316 SS	A276
11*	Upper Packing	PTFE / Flexible Graphite	D1710
12*	Lower Packing	PTFE / Flexible Graphite	D1710
13*	Packing Support	316 SS	A276
14*	Vee-Type Stem	316 SS / K-500	A276 / B164
15*	Metering Stem	316 SS / K-500	A276 / B164
16*	Soft Seal Stem	316 SS / PCTFE Tip	A276 / AMS 3650 / B164
17*	Regulating Stem	316 SS / K-500	A276 / B164
18	Socket Screw	316 SS	A276
19	Panel Nut	316 SS	A276
20	Bonnet Lock	316 SS	A276
21*	Bonnet	316 SS / Alloy 405	A479
22*	Body	316 SS / Alloy 400	A479

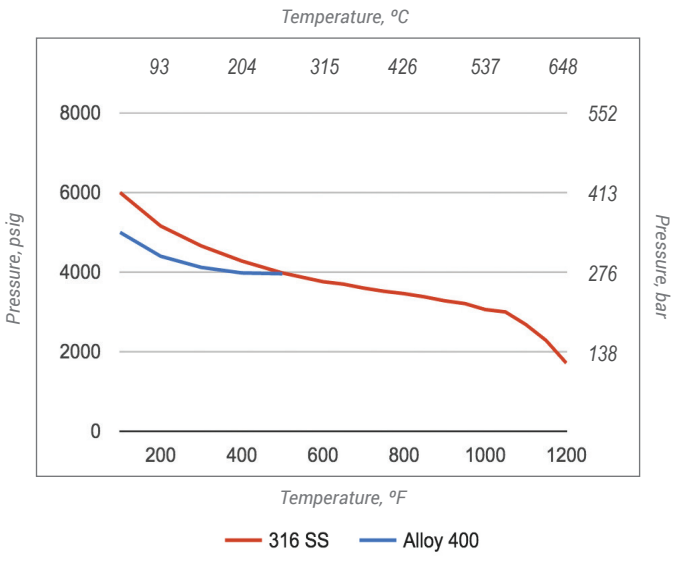
**Wetted components*



Temperature Pressure Tables

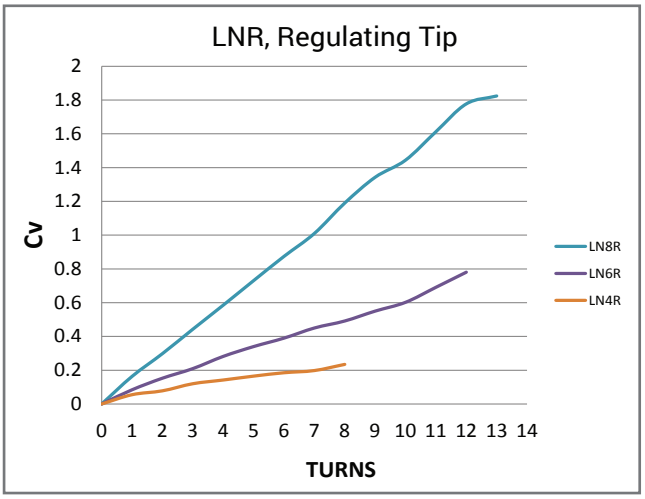
Data reflects temperature ratings from both process and environmental sources.

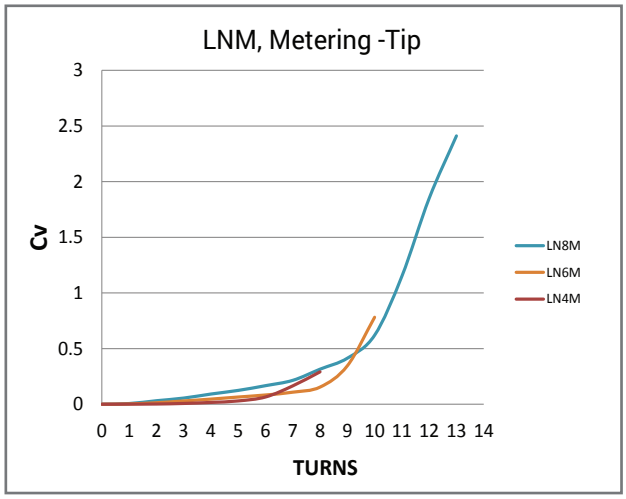
- Stainless steel body pressure ratings are based on valves with flexible graphite packing.
- 450°F (232°C) max with PTFE packing
- 200°F (93°C) max. with PCTFE stem tip



Flow Data

Valve with V-tip and Soft Seal (PCTFE) stems are designed to be operated in the fully open or closed position. See the Part Number and Dimensions tables for flow data.





Ordering Information

To order LN Series valves, follow the steps below.

1. *Locate the Basic Part Number & Dimensions table for the flow pattern of the valve.*
   Straight Pattern — Page 07, Angle Pattern — page 08.

2. *Locate the basic part number with the required end connection type, end connection size and orifice size.*
   Example: ***LN4A-D4***
   Note: Duolok Tube Fitting end connections are standard. Unilok, and Griplok tube fitting end connections are also available. To order, please see Tube Fitting End Connections on page 09.

3. *Add the required Stem Type Designator after the valve size designator (see page 09). Example LN4A**K**-D4*

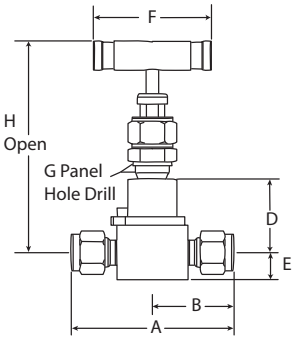
4. *Add the Body Material Designator. (See page 09) Example: LN4AK-D4**-316***

5. *Add designators for other options. (See page 09) Example: LN4AK-D4-316**-XP98***

NOTE: The Part Number and Dimensions Tables contain the most popular part numbers. For configurations that are not in the catalog, see the Special Order chart on page 10.

Basic Part Numbers and Dimensions

Straight Pattern Needle Valves

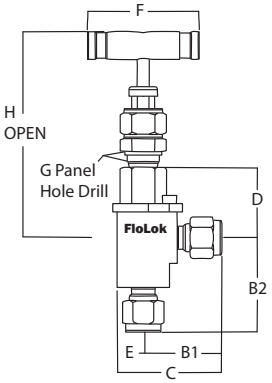


END CONNECTION			BASIC PART NUMBER	CV	ORIFICE IN. (MM)							
TYPE	INLET SIZE	OUTLET SIZE				A	B	D	E	F	G	H
Fractional Tube Fitting	1/4 in.	1/4 in.	LN4-D4	0.34	0.156 (4.0)	2.40 (61.0)	1.20 (30.5)	1.09 (27.7)	0.41 (10.4)	1.75 (44.5)	9/16 (14.3)	3.22 (81.8)
	3/8 in.	3/8 in.	LN6-D6	0.84	0.250 (6.35)	2.83 (71.9)	1.42 (36.1)	1.34 (34.0)	0.50 (12.7)	2.50 (63.5)	11/16 (17.5)	3.93 (99.8)
	1/2 in.	1/2 in.	LN6-D8	0.85	0.250 (6.35)	3.04 (77.2)	1.52 (38.6)	1.34 (34.0)	0.50 (12.7)	2.50 (63.5)	11/16 (17.5)	3.93 (99.8)
	1/2 in.	1/2 in.	LN8-D8	1.90	0.437 (11.1)	3.92 (99.6)	1.96 (49.8)	1.82 (46.2)	0.63 (15.9)	3.50 (89.0)	1 1/32 (20.2)	5.03 (127.8)
	3/4 in.	3/4 in.	LN8-D12	2.18	0.437 (11.1)	3.92 (99.6)	1.96 (49.8)	1.82 (46.2)	0.63 (15.9)	3.50 (89.0)	1 1/32 (20.2)	5.03 (127.8)
	1 in.	1 in.	LN8-D16	2.18	0.437 (11.1)	4.09 (103.9)	2.05 (52.1)	1.88 (47.8)	0.69 (17.5)	3.50 (89.0)	1 1/32 (20.2)	5.16 (131.1)
Metric Tube Fitting	6 mm	6 mm	LN4-DM6	0.34	0.156 (4.0)	2.40 (61.0)	1.20 (30.5)	1.09 (27.7)	0.41 (10.4)	1.75 (44.5)	1 1/32 (20.2)	3.22 (81.8)
	8 mm	8 mm	LN4-DM8	0.34	0.156 (4.0)	2.54 (64.5)	1.27 (32.3)	1.09 (27.7)	0.41 (10.4)	1.75 (44.5)	9/16 (14.3)	3.22 (81.8)
	10 mm	10 mm	LN6-DM10	0.85	0.250 (6.35)	2.86 (72.6)	1.43 (36.3)	1.34 (34.0)	0.50 (12.7)	2.50 (63.5)	11/16 (17.5)	3.93 (99.8)
	12 mm	12 mm	LN6-DM12	0.85	0.250 (6.35)	3.04 (77.2)	1.52 (38.6)	1.34 (34.0)	0.50 (12.7)	2.50 (63.5)	11/16 (17.5)	3.93 (99.8)
	12 mm	12 mm	LN8-DM12	1.72	0.437 (11.1)	3.92 (99.6)	1.96 (49.8)	1.82 (46.2)	0.63 (15.9)	3.50 (89.0)	1 1/32 (20.2)	5.03 (127.8)
Female NPT	1/8 in.	1/8 in.	LN4-2PF	0.34	0.156 (4.0)	2.00 (50.8)	1.00 (25.4)	1.09 (27.7)	0.41 (10.4)	1.75 (44.5)	9/16 (14.3)	3.22 (81.8)
	1/4 in.	1/4 in.	LN4-4PF	0.34	0.156 (4.0)	2.06 (52.3)	1.03 (26.2)	1.09 (27.7)	0.41 (10.4)	1.75 (44.5)	9/16 (14.3)	3.22 (81.8)
	1/4 in.	1/4 in.	LN6-4PF	0.85	0.250 (6.35)	2.25 (57.2)	1.13 (28.70	1.34 (34.0)	0.50 (12.7)	2.50 (63.5)	11/16 (17.5)	3.93 (99.8)
	3/8 in.	3/8 in.	LN6-6PF	0.85	0.250 (6.35)	2.25 (57.2)	1.13 (28.7)	1.34 (34.0)	0.50 (12.7)	2.50 (63.5)	11/16 (17.5)	3.93 (99.8)
	1/2 in.	1/2 in.	LN8-8PF	2.18	0.437 (11.1)	3.12 (79.3)	1.56 (39.6)	1.82 (46.2)	0.63 (15.9)	3.50 (89.0)	1 1/32 (20.2)	5.03 (127.8)
	3/4 in.	3/4 in.	LN8-12PF	2.18	0.437 (11.1)	3.25 (82.6)	1.63 (41.4)	1.91 (48.5)	0.78 (19.8)	3.50 (89.0)	1 1/32 (20.2)	5.34 (135.6)
	1 in.	1 in.	LN8-16PF	2.18	0.437 (11.1)	3.62 (92)	1.81 (46)	2.13 (54.1)	1.00 (25.4)	3.50 (88.9)	1 1/32 (20.2)	5.78 (146.8)
Male NPT	1/4 in.	1/4 in.	LN4-4PM	0.34	0.156 (4.0)	2.20 (55.9)	1.10 (27.9)	1.09 (27.7)	0.41 (10.4)	1.75 (44.5)	9/16 (14.3)	3.22 (81.8)
Male to Female NPT	1/4 in.	1/4 in.	LN4-4PM-4PF	0.34	0.156 (4.0)	2.03 (51.6)	1.02 (25.9)	1.09 (27.7)	0.41 (10.4)	1.75 (44.5)	9/16 (14.3)	3.22 (81.8)
	1/2 in.	1/2 in.	LN8-8PM-8PF	2.18	0.437 (11.1)	3.12 (79.3)	1.56 (39.6)	1.82 (46.2)	0.63 (15.9)	3.50 (89.0)	1 1/32 (20.2)	5.03 (127.8)
	3/4 in.	3/4 in.	LN8-12PM-12PF	2.18	0.437 (11.1)	3.50 (89.0)	1.75 (44.5)	1.91 (48.5)	0.78 (19.8)	3.50 (89.0)	1 1/32 (20.2)	5.34 (135.6)
	1 in.	1 in.	LN8-16PM-16PF	2.18	0.437 (11.1)	3.75 (95.3)	1.88 (47.8)	2.13 (54.1)	1.00 (25.4)	3.50 (88.9)	1 1/32 (20.2)	5.78 (146.8)
Tube Socket Weld	1/4 in.	1/4 in.	LN4-4SW	0.34	0.156 (4.0)	1.82 (46.2)	0.91 (23.1)	1.09 (27.7)	0.41 (10.4)	1.75 (44.5)	9/16 (14.3)	3.22 (81.8)
	3/8 in.	3/8 in.	LN6-6SW	0.85	0.250 (6.35)	2.25 (57.2)	1.13 (28.7)	1.34 (34.0)	0.50 (12.7)	2.50 (63.5)	11/16 (17.5)	3.93 (99.8)
	1/2 in.	1/2 in.	LN8-8SW	2.00	0.437 (11.1)	3.12 (79.3)	1.56 (39.6)	1.82 (46.2)	0.63 (15.9)	3.50 (89.0)	1 1/32 (20.2)	5.03 (127.8)
	3/4 in.	3/4 in.	LN8-12SW	2.00	0.437 (11.1)	3.12 (79.3)	1.56 (39.6)	1.82 (46.2)	0.63 (15.9)	3.50 (89.0)	1 1/32 (20.2)	5.03 (127.8)

Note: Unilok, and Griplok tube fitting end connections are also available. To order, please see Tube Fitting End Connections on page 09. Example: LN4-U**4*

Basic Part Numbers and Dimensions

Angle Pattern Needle Valves



END CONNECTION			BASIC PART NUMBER	CV	ORIFICE IN. (MM)	DIMENSIONS IN. (MM)							
TYPE	INLET SIZE	OUTLET SIZE				B1	B2	C	D	E	F	G	H
Fractional Tube Fitting	1/4 in.	1/4 in.	LN4A-D4	0.34	0.156 (4.0)	1.16 (29.5)	1.48 (37.6)	1.57 (39.9)	1.09 (27.7)	0.41 (10.4)	1.75 (44.5)	9/16 (14.3)	3.22 (81.8)
	3/8 in.	3/8 in.	LN6A-D6	0.85	0.250 (6.35)	1.44 (36.6)	1.66 (42.2)	1.79 (45.5)	1.34 (34.0)	0.50 (12.7)	2.50 (63.5)	11/16 (17.4)	3.93 (99.8)
	1/2 in.	1/2 in.	LN6A-D8	0.85	0.250 (6.35)	1.55 (39.4)	1.65 (41.9)	1.90 (48.3)	1.34 (34.0)	0.50 (12.7)	2.50 (63.5)	11/16 (17.4)	3.93 (99.8)
	1/2 in.	1/2 in.	LN8A-D8	1.90	0.437 (11.1)	1.81 (46)	2.08 (52.8)	2.37 (60.2)	1.82 (46.2)	0.63 (15.9)	3.50 (89.0)	1 1/32 (20.2)	5.03 (127.8)
Metric Tube Fitting	6 mm	6 mm	LN4A-DM6	0.34	0.156 (4.0)	1.16 (29.5)	1.48 (37.6)	1.57 (39.9)	1.09 (27.7)	0.41 (10.4)	1.75 (44.5)	9/16 (14.3)	3.22 (81.8)
	8 mm	8 mm	LN4A-DM8	0.34	0.156 (4.0)	1.28 (32.5)	1.50 (38.1)	1.69 (42.9)	1.09 (27.7)	0.41 (10.4)	1.75 (44.5)	9/16 (14.3)	3.22 (81.8)
	10 mm	10 mm	LN6A-DM10	0.85	0.250 (6.35)	1.46 (37)	1.55 (39.4)	1.80 (45.7)	1.34 (34.0)	0.50 (12.7)	2.50 (63.5)	11/16 (17.4)	3.93 (99.8)
	12 mm	12 mm	LN6A-DM12	0.85	0.250 (6.35)	1.56 (39.6)	1.65 (41.9)	1.90 (48.3)	1.34 (34.0)	0.50 (12.7)	2.50 (63.5)	11/16 (17.4)	3.93 (99.8)
	12 mm	12 mm	LN8A-DM12	1.72	0.437 (11.1)	1.81 (46)	2.08 (52.8)	2.37 (60.2)	1.82 (46.2)	0.63 (15.9)	3.50 (89.0)	1 1/32 (20.2)	5.03 (127.8)
Female NPT	1/8 in.	1/8 in.	LN4A-2PF	0.34	0.156 (4.0)	0.89 (22.6)	1.00 (25.4)	1.30 (33.0)	1.09 (27.7)	0.41 (10.4)	1.75 (44.5)	9/16 (14.3)	3.22 (81.8)
	1/4 in.	1/4 in.	LN4A-4PF	0.34	0.156 (4.0)	0.89 (22.6)	1.00 (25.4)	1.30 (33.0)	1.09 (27.7)	0.41 (10.4)	1.75 (44.5)	9/16 (14.3)	3.22 (81.8)
	1/4 in.	1/4 in.	LN6A-4PF	0.85	0.250 (6.35)	1.00 (25.4)	1.12 (28.5)	1.50 (38.1)	1.34 (34.0)	0.50 (12.7)	2.50 (63.5)	11/16 (17.4)	3.93 (99.8)
	3/8 in.	3/8 in.	LN6A-6PF	0.85	0.250 (6.35)	1.12 (28.5)	1.12 (28.5)	1.50 (38.1)	1.34 (34.0)	0.50 (12.7)	2.50 (63.5)	11/16 (17.4)	3.93 (99.8)
	1/2 in.	1/2 in.	LN8A-8PF	2.18	0.437 (11.1)	1.56 (39.6)	1.56 (39.6)	2.00 (50.8)	1.82 (46.2)	0.63 (15.9)	3.50 (89.0)	1 1/32 (20.2)	5.03 (127.8)
Male NPT	1/4 in.	1/4 in.	LN4A-4PM	0.34	0.156 (4.0)	1.00 (25.4)	1.00 (25.4)	1.41 (35.8)	1.09 (27.7)	0.41 (10.4)	1.75 (44.5)	9/16 (14.3)	3.22 (81.8)
Male to Female NPT	1/4 in.	1/4 in.	LN4A-4PM-4PF	0.34	0.156 (4.0)	0.89 (22.6)	1.00 (25.4)	1.30 (33.0)	1.09 (27.7)	0.41 (10.4)	1.75 (44.5)	9/16 (14.3)	3.22 (81.8)
	1/2 in.	1/2 in.	LN8A-8PM-8PF	2.18	0.437 (11.1)	1.56 (39.6)	1.56 (39.6)	2.00 (50.8)	1.82 (46.2)	0.63 (15.9)	3.50 (89.0)	1 1/32 (20.2)	5.03 (127.8)
Tube Socket Weld	1/4 in.	1/4 in.	LN4A-4SW	0.34	0.156 (4.0)	0.88 (22.4)	1.19 (30.2)	1.29 (32.8)	1.09 (27.7)	0.41 (10.4)	1.75 (44.5)	9/16 (14.3)	3.22 (81.8)
	3/8 in.	3/8 in.	LN6A-6SW	0.85	0.250 (6.35)	1.00 (25.4)	1.25 (31.6)	1.50 (38.1)	1.34 (34.0)	0.50 (12.7)	2.50 (63.5)	11/16 (17.4)	3.93 (99.8)
	1/2 in.	1/2 in.	LN6A-8SW	0.85	0.437 (11.1)	1.00 (25.4)	1.25 (31.6)	1.50 (38.1)	1.34 (34.0)	0.50 (12.7)	2.50 (63.5)	11/16 (17.4)	3.93 (99.8)
	1/2 in.	1/2 in.	LN8A-8SW	2.00	0.437 (11.1)	1.56 (39.6)	1.69 (42.9)	2.00 (50.8)	1.82 (46.2)	0.63 (15.9)	3.50 (89.0)	1 1/32 (20.2)	5.03 (127.8)

Note: Unilok, and Griplok tube fitting end connections are also available. To order, please see Tube Fitting End Connections on page 09. Example: LN4A-U**4*

Options & Accessories

Tube Fitting End Connections

SSP offers three tube fitting designs. Duolok two-ferrule tube fittings are standard. To select a different design, select the designator from the table below, then substitute it for the "D" in the part number. *Example: LN4R-**U**4-316 for Unilok tube fitting end connections.*

DESIGN	DESCRIPTION	DESIGNATOR
Duolok	2-Ferrule	D
Unilok	1-Ferrule	U
Griplok	2-Ferrule	G

Body Material

Select the valve body material required and add the designator to the valve basic part number. *Example: LN4R-4PF-**M***

MATERIAL	DESIGNATOR
316 Stainless Steel	-316
Alloy 400	-M

Stem Type

Select the stem type designator from the table below then add to the part number. *Example: LN4**V**-D4-316*

STEM TYPE	DESIGNATOR
1. V-Type Shutoff Stem	V
2. Metering Stem	M
3. Soft Steal Stem (PCTFE)	K
4. Regulating Stem	R

Flexible Graphite Packing Material

To specify flexible graphite high-temperature packing, place "G" after the stem type designator in the basic part number. *Example: LN8R**G**-D8-316*

Rebuild Kits

LN Series rebuild kits are preassembled and ready to install in the valve bonnet. Kits include all packing supports, guides and stems. To order rebuild kits, contact your authorized SSP distributor or SSP Customer Service.

Replacement Handles and Dust Caps

To order replacement handles and dust caps, use the part number from the table below.

VALVE SERIES	T-BAR	DUST CAP
LN4	L4-7A-303	L4-3C-NBR
LN6	L6-7A-303	L6-3C-NBR
LN8	L8-7A-303	L8-3C-NBR

Special Cleaning

LN Series valves are available with ASTM G93 Level C compliant cleaning. When used in Oxygen enriched environment the valve is derated to 500 psig (34.4 bar). To specify special cleaning, add -XP98 to the part number. *Example: LN6R-4PM-4PF-316-**XP98***

For more information about special cleaning, please contact your local SSP distributor or SSP Customer Service.

Sour Gas Service

LN Series needle valves constructed with materials selected in accordance with NACE MR01-75/ ISO 15156 are available for sour gas service. See NACE specification for information on stainless steel tube fitting requirements. To order add -SG to the part number. *Example: LN6R-4PM-4PF-316-**SG***

Special Orders

The Basic Part Numbers and Dimensions tables (pages 7 and 8) contain only the most popular valve configurations; many more are available. If the required valve configuration is not in the Basic Part Numbers and Dimensions tables, use the chart below to build part numbers for quotation purposes.

(basic part number) (options)

A	B	C	D	E	F	G	H
LN4	A	R	G	-4PM	-4PF	-316	-SG

A SERIES / SIZE

LN4	*0.156 Orifice.*
LN6	*0.250 Orifice*
LN8	*0.437 Orifice*

B PATTERN

Blank	*Straight*
A	*Angle*

C STEM TYPE

V	*Vee 316 SS*
M	*Metering 316 SS*
K	*Soft Seal, PCTFE*
R	*Regulating 316 SS*

D PACKING MATERIAL

Blank	*PTFE*
G	*Flexible Graphite*

E + F INLET TYPE[2] + OUTLET TYPE[2]

		Fractional Sizes:		Metric Sizes:	
D	*Duolok® Tube Fitting*	*2*	*1/8 in.*	*M6*	*6 mm*
U	*Unilok® Tube Fitting*	*4*	*1/4 in.*	*M8*	*8 mm*
G	*Griplok® Tube Fitting*	*6*	*3/8 in.*	*M10*	*10 mm*
PF	*Female NPT*	*8*	*1/2 in.*	*M12*	*12 mm*
PM	*Male NPT*	*12*	*3/4 in.*		
SW	*Tube Socket Weld*	*16*	*1 in.*		
PSW	*Pipe Socket Weld*				

G BODY MATERIAL

-316	*316 Stainless Steel*
-M	*Alloy 400*

H OPTIONS[1]

SPECIAL CLEANING

-XP98	*Oxygen compatible lubricant, per ASTM G93, Level C and CGA G-4.1*

SOUR GAS

-SG	*ISO 15156 (NACE MR01-75)*

[1] Add options designators to the end of the Base Part Number in alphabetical order.

[2] Tube fitting end connection part numbers are formatted Type followed by Size. Example: D6
Pipe ends are formatted Size follow by Type. Example: 6PF
*If both ends are the same, use only one end connection designator. Example: LN8V-**D8**-316*

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Important Information

IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE PERSONAL INJURY AND PROPERTY DAMAGE. It is the sole responsibility of the system designers and users to properly select and use products for their specific applications. This document has been provided to users with technical expertise as a reference for further investigation to determine specific product needs relative to their design requirements.

Packing must be adjusted for application with working pressure higher than 1000 psig (69 bar) or if the valves have been exposed to high or low temperatures prior to installation. Instructions for packing adjustments are included with each valve.

Valves that have not been actuated for extended periods of time may require greater actuation torque.

Testing

All LN Series valves are factory tested with Nitrogen to 1000 psig (69 bar) at 70°F (20°C). ***Note: Packing adjustments may be required for applications with higher pressures and/or higher or lower process or environmental temperature.***

Warranty

FloLok valves are backed by the SSP Limited Life Time Warranty. This warranty is available from your local distributor or at www.mySSPusa.com.

More SSP Products

Tube Fittings

Duolok and Griplok two-ferrule and Unilok® single ferrule tube fittings provide leak-tight installation even when intermixed with Swagelok®, Hoke Gyrolok® and Parker CPI™ fittings.

Valves

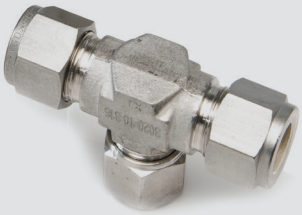
The FloLok valve offering includes ball, check, metering, needle, toggle, plug, bleed, and purge valves for pressures up to 10,000 psig.

Tubing

SSP offers straight and coiled seamless 316 stainless steel instrumentation tubing for instrumentation, process and utility applications.

Pipe Fittings

TruFit and TruFit 10K pipe fittings are available in a wide range of weld, threaded and flared connections.



Filters

FloLok in-line and tee-type filters trap particles to clean sample fluids and protect sensitive process and analytical instrumentation components and equipment.

Hose

TruFit PTFE-lined and flexible metal core hose assemblies are used in a variety of instrumentation, utility, biopharm and other applications.

Tools & Accessories

SSP TurnPro professional hand tools, power tools and installation training make quality tube system installation faster and easier.

Quick Connects

SSP offers single-end shutoff, double-end shut off, and full-flow quick connects for instrumentation and process applications.

Founded 1926 • Privately owned, third generation family business • Modern manufacturing facility – 165,000 square feet • Captive closed die forging operation • Integrated tool & die production Nearly 200 machining centers • ISO 17025 testing laboratory • Automated warehouse retrieval system ISO 9001 quality management system • $20,000,000 product liability insurance policy • DFARS-compliant raw material • EN 10204 3.1 certification • Limited Lifetime Warranty • ASME B31.3 design Canadian Registration Number OA98665 • Third Party Approvals from CSA, TüV, DNV, and ABS

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