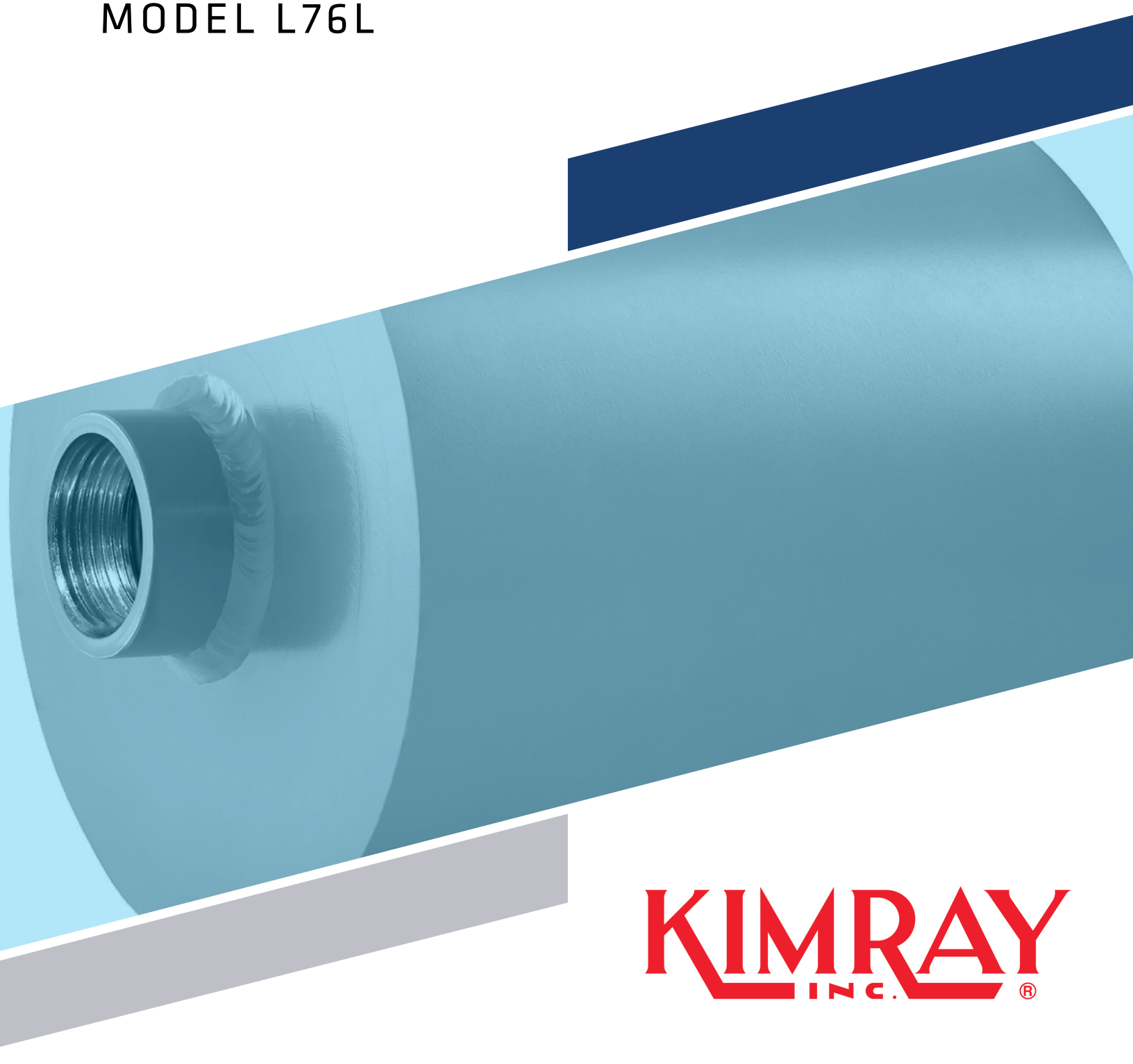
LAMOT®

VALVE & ARRESTOR

IN-LINE FLAME ARRESTOR

MODEL L76L



KIMRAY INC.®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VALVE & ARRESTOR

MODEL L76L

The LaMOT Valve & Arrestor Model L76L is designed to inhibit flame propagation in gas piping systems and to protect low pressure tanks containing flammable liquids. Arrestors protect low flash point liquids from external sources of ignition, providing increased fire protection and safety.

Technical Details

Connection sizes: 1" and 2" NPT
Housing standard material: 1" Carbon Steel, Aluminum
2" Carbon Steel
Flame element standard material: Stainless Steel
Operational Temperature Range: -4 to 140 °F (-20 to 60 °C)
Gas Group: NEC D; IEC IIA (MESG > 0.90 mm)
Burn Time: tBT 20 minutes at Atmospheric Pressure

Features

- Flame arrestor element geometry maximizes flame quenching capability while minimizing pressure drop
- Spiral-wound, crimped-ribbon flame element
- Bi-directional with respect to flow and ignition source

Options

- Exterior painting or coating

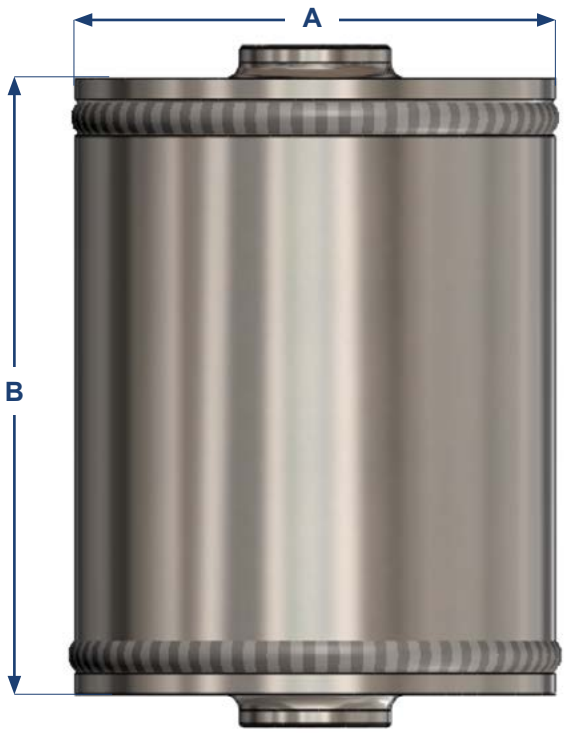
SPECIFICATIONS

Connection Size Inches (mm)	A Width Inches (mm)	B Height Inches (mm)	MAWP* Carbon psig (kPa)	Approx Ship. Wt. Lbs. Carbon Steel Lbs. (kg)	Approx Ship. Wt. Lbs. Aluminum Lbs. (kg)
1 (25)	5.56 (141)	7.88 (200)	100 (690)	20.3 (9.21)	11.7 (5.31)
2 (50)	6.63 (168)	8.50 (216)	100 (690)	29 (13.2)	–

Specifications subject to change without notice. Certified dimensions available upon request.

Pneumatic tested to 15 psig as standard.

*MAWP does not reflect the maximum operational pressure of the flame arrestor. Please consult the specifications section for the correct maximum operational pressure of the arrestor.



SPECIFICATIONS

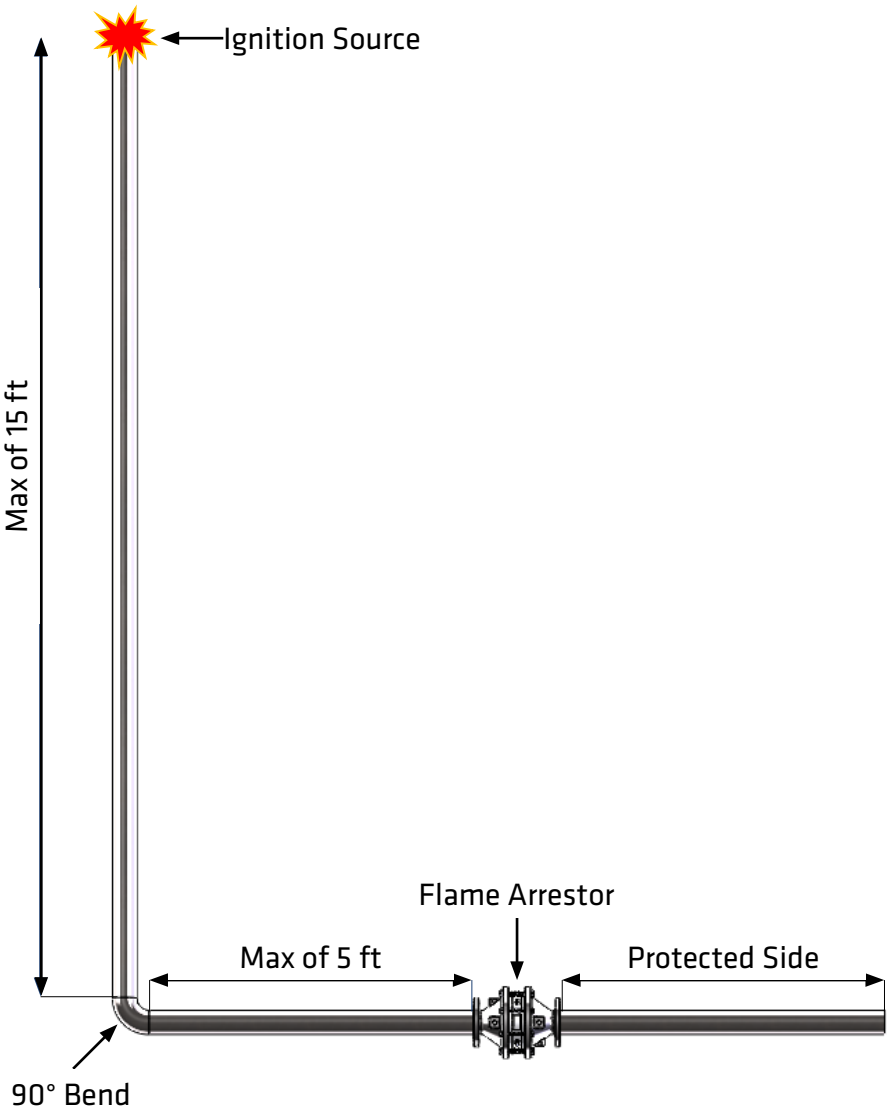
For an arrestor to be properly applied, all the requirements for one of the two following configuration scenarios must be met.

Configuration	End Condition	Gas Group	Maximum Pipe Length from Ignition Source to Flame Arrestor	Maximum Operational Pressure psia (bara)	Allowable Bend(s)*	Maximum Burn Time at Atmospheric Pressure	Operational Temperature Range °F (°C)
Straight Pipe	Closed	D (IIA)	50 pipe diameters	18.9 (1.3)	None	20 minutes	-4 to 140 (-20 to 60)
20 ft with Bend	Open	D (IIA)	20 ft (ignition source - max of 15 ft - bend - max of 5 ft - arrestor)	15.9 (1.1)	One 90 degree	20 minutes	-4 to 140 (-20 to 60)

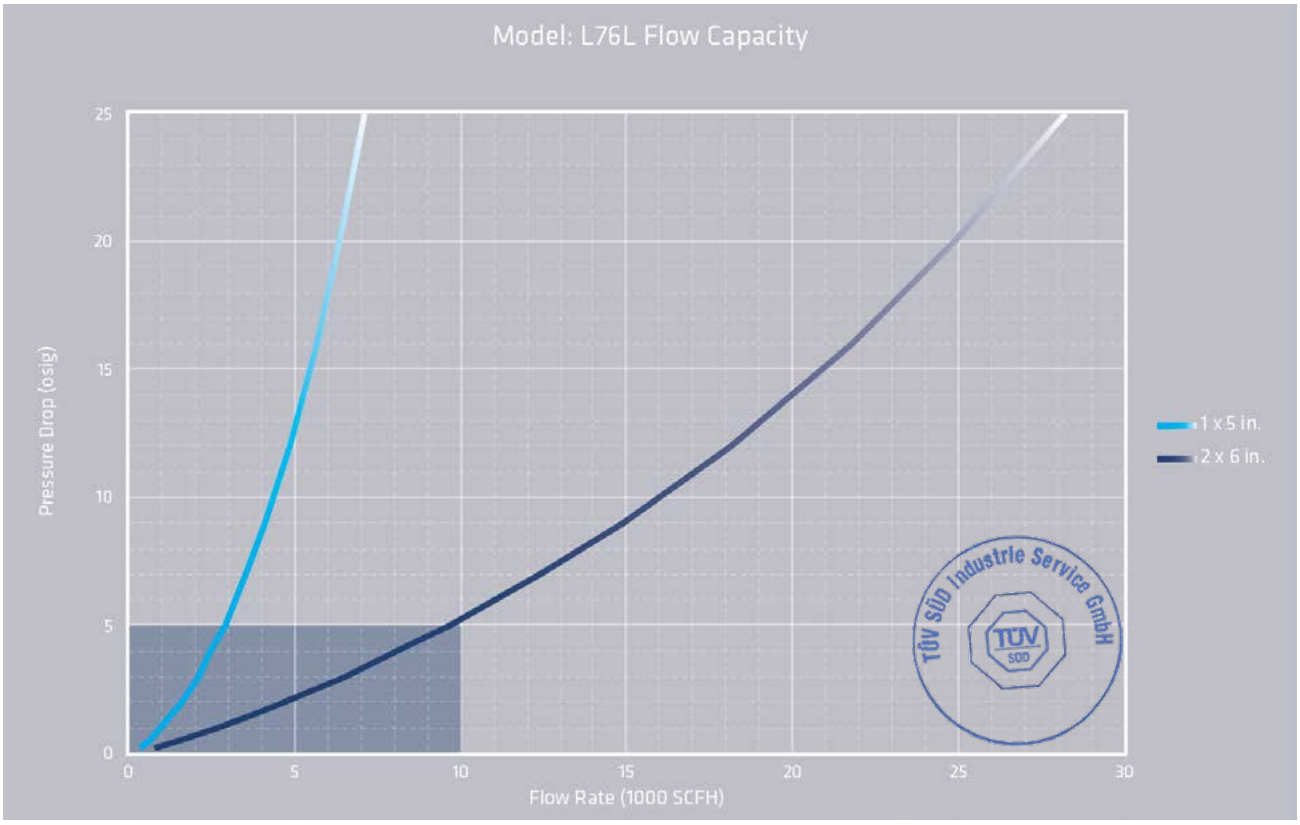
Straight Pipe, Closed End Configuration, is designed and tested according to EN ISO 16852:2016, except for:
1. The short time burn test was conducted at atmospheric pressure, for a time period extending past 1 minute.
*No additional bends or restrictions are allowed.

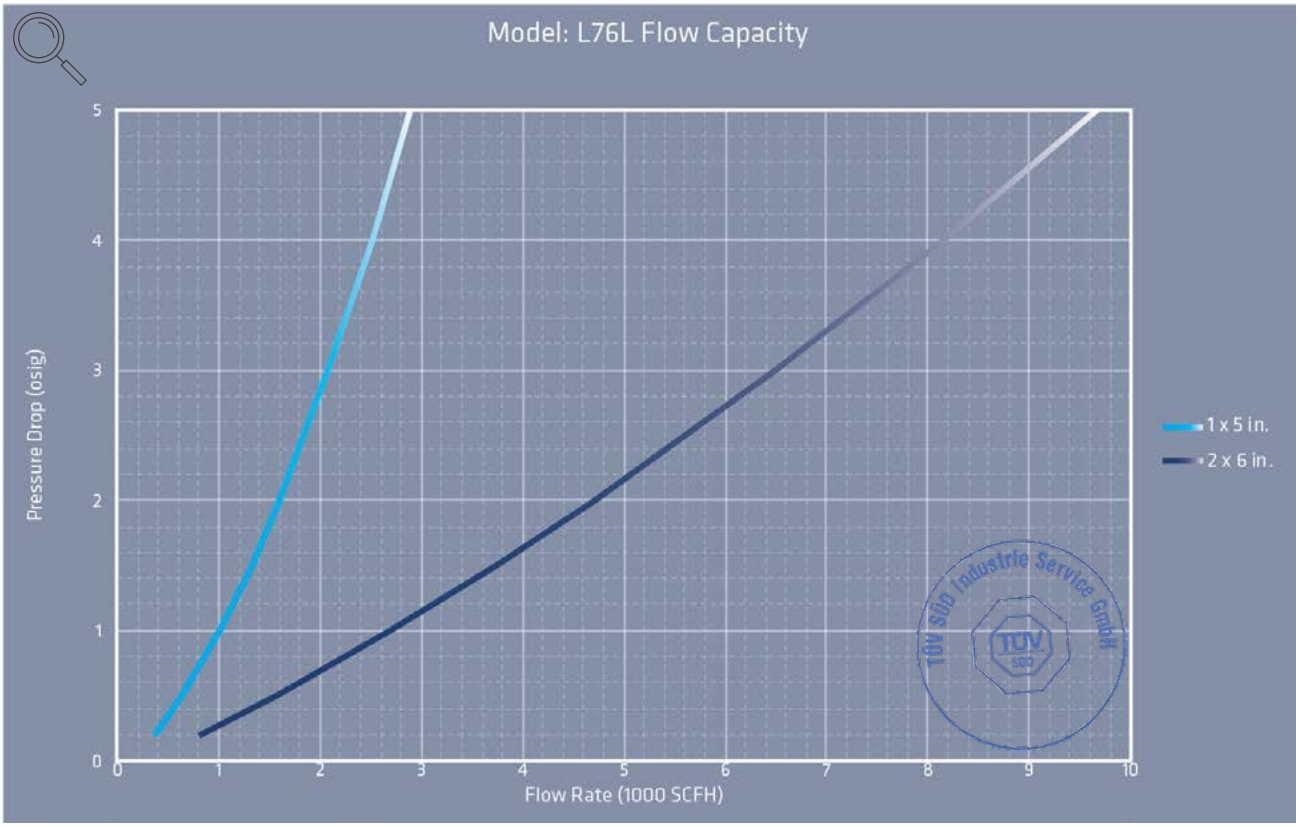
Model L76L-UF, 20 ft with Bend, Open End Configuration, is designed and tested according to EN ISO 16852:2016, except for:
1. The piping on the unprotected side, consisted of ignition source, 15 ft of straight pipe, one 90 degree bend, 5 ft of straight pipe, then the arrester.
2. The short time burn test was conducted at atmospheric pressure, for a time period extending past 1 minute.
3. Tested with a thin film on the end, to simulate an open-ended piping configuration.
*No additional bends or restrictions are allowed.

20ft with bend



FLOW CAPACITY

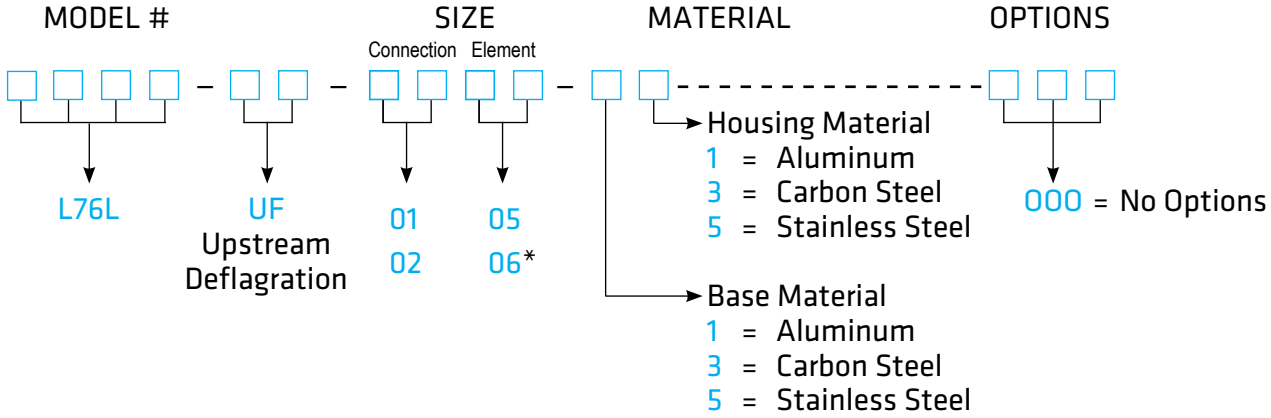




- The test equipment, procedures, and reporting methods utilized by LaMOT Valve & Arrestor meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods and results have been reviews and certified by TÜV SÜD.
- Flow data are for in-line mounting and does not include entrance losses or exit losses.
- Flow values based on air at 60°F venting to atmospheric pressure of 14.6959 psia

HOW TO ORDER

For easy ordering, select proper model numbers



Notes

- Include model number and setting when ordering
- For special options, consult factory

* Only available with 2" connection

Example L 7 6 L – U F – 0 2 0 6 – 3 3 – 0 0 0

Indicates a 2" Model L76L with a 6" element, Carbon Steel Housing, Carbon Steel Base, Threaded outlet, and no other options.

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