

FLAME ARRESTOR MODEL L76C-UF

Model L76C-UF

The L76C-UF model 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: 2" through 12" 150# ASME Flanged Connection
- Housing standard material: Carbon Steel, Stainless Steel
- Bases standard material: Aluminum, Carbon Steel, Stainless Steel
- Flame element standard material: 316 Stainless Steel
- Operational Temperature Range: -4 to 140 °F (-20 to 60 °C)
- Gas Group: NEC D; IEC IIA (MESG > 0.90 mm)
- Maximum Operational Pressure: see charts and IOM
- Burn Time: t_{BT} short-time burn rating or better at Atmospheric Pressure (see charts and IOM)

Features

- Flame arrestor element geometry maximizes flame quenching capability while minimizing pressure drop
- Removable element housing for ease of maintenance
- Spiral-wound, crimped ribbon flame element
- Flame elements made standard with premium 316SS material reducing corrosion
- Bi-directional with respect to flow and ignition source

Options

- Exterior painting or coating available
- Drains and instrumentation ports available
- Available factory installed thermocouples for flame sensing



Specifications

Connection Size 150# ASME	Housing Nominal Size	A Width	l Hei ± 1	3 ght .0"	MAWP [*] Carbon	Approx Ship. Wt. Lbs. (kg)	Approx Ship. Wt. Lbs. (kg) Aluminum Bases	
Inches (Nominal mm)	Inches (Nominal mm)	Inches (mm)	CS/SS Base Material inches (mm)	AL Base Material inches (mm)	Steel	Carbon Steel Bases		
2 (50.8)	6 (152.4)	9.2 (233.68)	16 (406.4)	16.5 (419.1)	100 psig	63 (29)	32 (15)	
3 (76.2)	8 (203.2)	11.2 (284.48)	16 (406.4)	16.5 (419.1)	100 psig	111 (50)	64 (29)	
4 (101.6)	10 (254)	13.2 (335.28)	16 (406.4)	16.5 (419.1)	100 psig	132 (60)	68 (31)	
6 (152.4)	16 (406.4)	20 (508)	21 (533.4)	21.5 (546.1)	100 psig	298 (135)	181 (82)	
8 (200)	20 (500)	23.5 (597)	33 (838)	n/a	100 psig	538 (244)	n/a	
10 (250)	24 (600)	27.1 (688)	38.0 (965)	n/a	100 psig	772 (350)	n/a	
12 (300)	28 (700)	32.3 (820)	41.0 (1041)	n/a	100 psig	1120 (508)	n/a	



Pneumatic leak 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.

MAWP, refers only to the maximum shell pressure allowed, it has no relation or influence on the flame arresting performance of the flame arrestor.

In contrast however, the maximum operational pressure of a flame arrestor, is the maximum pre-ignition pressure of vapors in the piping system in which the flame arrestor will successfully arrest the flame; per the correct application of gas group (IIA/D, MESG>0.90mm) and run-up-distance according to the IOM.

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

Specifications

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

1) Straight Pipe, Closed End Configuration:

Connection Size x Housing Size	Gas Group	End Condition	Maximum Pipe Length from Ignition Source to Flame Arrestor	Maximum Operational Pressure	Allowable Bend(s)*	Maximum Burn Time at Atmospheric Pressure	Operational Temperature Range °F (°C)
2" x 6" thru 12" x 28"	D (IIA)	Closed End	50 pipe diameters	17.4 psia (1.2 bara) or better, see IOM	None	2.5 minutes or better, see IOM	-4 to 140 (-20 to 60)

Model L76C-UF, 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.

2) Configuration with Bend, Open End Configuration:

Connection Size x Housing Size	Gas Group	End Condition	Maximum Pipe Length from Ignition Source to Flame Arrestor	Allowable Bend(s)*	Maximum Operational Pressure	Maximum Burn Time at Atmospheric Pressure	Operational Temperature Range °F (°C)
2" x 6" thru 4" x 10"	IIA (D)	Open End	20 ft total length: A = max of 15 ft B = max of 5 ft	One 90 Degree	15.5 psia (1.07 bara) or better, see IOM	2.5 minutes or better, see IOM	-4 to 140 (-20 to 60)
6" x 16"	IIA (D)	Open End	25 ft total length: A = max of 20 ft B = max of 5 ft	One 90 Degree	17.4 psia (1.2 bara) or better, see IOM	3 minutes	-4 to 140 (-20 to 60)
8" x 20"	IIA (D)	Open End	26 ft total length: A = max of 20 ft B = max of 6 ft	One 90 Degree	17.4 psia (1.2 bara), see IOM	3 minutes	-4 to 140 (-20 to 60)
10" x 24"	IIA (D)	Open End	33 ft total length: A = max of 25 ft B = max of 8 ft	One 90 Degree	17.4 psia (1.2 bara), see IOM	3 minutes	-4 to 140 (-20 to 60)
12" x 28"	IIA (D)	Open End	40 ft total length: A = max of 30 ft B = max of 10 ft	One 90 Degree	17.4 psia (1.2 bara), see IOM	3 minutes	-4 to 140 (-20 to 60)

Model L76C-UF, Configuration 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, "A" ft of straight pipe, one 90 degree bend, "B" 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.

*No additional bends or restrictions are allowed. Bends and flow restrictions can cause additional turbulence, which can increase the intensity of the flame propagation; potentially compromising the performance of the flame arrestor.

**See below configuration with bend diagram









- The test equipment, procedures, and reporting methods meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, procedures, and methods have been reviewed 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.





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How To Order





Notes

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



Indicates a 2" x 6" Model L76C with carbon steel base, carbon steel housing, 150# ASME bolted inlet/outlet, and no other options.



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PRESSURE/VACUUM RELIEF VALVE MODEL L12E



MODEL L12E

The LaMOT Valve & Arrestor Model L12E PVRV design was created to exceed industry needs. Extensive research and development have produced a product that achieve both superior sealing performance and industry leading flow rates, while also allowing customers to reach required flow with a potentially smaller sized valve. The pressure vacuum relief valve is designed to protect your tank from damage created by overpressure or excessive vacuum. Costly product evaporation losses due to normal tank "breathing" are greatly reduced. The Model L12E superior sealing valves are developed to minimize fugitive emissions while providing increased protection and safety to tank equipment and on-site personnel.

Technical Details

- Size: 2" (50mm) through 10" (250mm)
- Body Material: Aluminum, Carbon Steel, Stainless Steel
- Pallet Material: PPS (Polyphenylene Sulfide)
- Diaphragm Materials: Buna-N, Blue FKM or FEP
- Calibrated Weight Material: Zinc-Plated Steel (for Aluminum and Carbon Steel valves), Stainless Steel (for Stainless Steel valves)
- Bolting Class: 150# ASME
- Available Pressure Settings: 0.5 osig to 24 osig (in 0.5 osig Increments)
- Available Vacuum Settings: 0.4 osig, 0.5 osig to 24 osig (in 0.5 osig increments)
- Leak Rate is compliant with API 2000
- Vent to Atmosphere, Pressures up to 24 osig

Features

- Precision machining and manufacturing to accomplish superior sealing, aiding in the reduction of fugitive emissions
- Ultra-tight sealing reduces product leakage and fugitive emissions
- Achieve various pressure setting by adding calibrated weights
- Industry leading flow rates
- Higher flow capacity to protect from both excessive pressure and excessive vacuum build up
- Peripheral and central seat guides ensure reliable, repeatable performance
- PPS pallet material is more corrosion resistant than other pallet materials and has anti-freeze non-stick properties to aid in applications with potential pallet to seat freezing
- Designed for easy maintenance, thus reducing downtime and operational cost

Options

• Corrosion resistance can be enhanced with FKM soft goods



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Connection Size Inches (mm)	A Width Inches (mm)	B Height Inches (mm)	C Depth Inches (mm)	ASSEMBLY WEIGHT *SS LBS (KG)	ASSEMBLY WEIGHT *AL LBS (KG)
2 (50)	14.16 (360)	14.29 (363)	9.78 (248)	64 (29)	33 (15)
3 (80)	18.48 (469)	16.47 (418)	13.43 (341)	104 (47)	54 (24)
4 (100)	22.48 (571)	18.28 (464)	16.89 (429)	144 (65)	75 (34)
6 (150)	30.93 (786)	23.79 (604)	23.47 (596)	305 (138)	183 (83)
8 (200)	37.76 (959)	28.70 (729)	25.49 (647)	457 (207)	272 (123)
10 (250)	45.82 (1164)	33.48 (850)	32.17 (817)	713 (323)	455 (206)

*without spacers weight provided





FICATIONS









- The test equipment, procedures, and reporting methods meet the requirements of standards API 2000/ISO 28300. The equipment, methods, and results have been reviewed and certified by TÜV SÜD.
- Flow data are for tank mounting or end-of-line and includes entrance loss, exit loss and internal losses.
- Flow values based on air at 60°F venting to atmospheric pressure of 14.6959 psia.





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LAMOT VALVE & ARRESTOR PAGE 6

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250

300

-0.4 os ig

—0.5 os ig

___ 1 os ig

200

Model: L12E - 8" Vacuum Flow Capacity

Flow Rate (1000 SCFH)

150

100

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50

2

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Rel

10

12

14





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Notes

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

Example



Indicates a 06" Model L12E with Aluminum base, PPS pallet, Blue FKM Diaphragm, o.5 osig pressure setting, o.5 osig vacuum setting



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EMERGENCY RELIEF VENT MODEL L22E

MODEL L22E

The L22E Emergency Relief Vents are designed to provide superior sealing and industry leading high flow rates. When properly sized, the high flow capacity will prevent the tank from damage in an emergency case.

Features & Benefits

Superior Sealing Performance

- Precision machined and manufactured to accomplish superior sealing
- Ultra-tight sealing reduces product leakage and fugitive emissions

Industry Leading Flow Rates

- Higher flow capacity to protect from excessive pressure build up
- Engineered for performance to accomplish high flow rates

Direct Replacement & Easy Maintenance

- Direct replacement for any standard API 12 or ASME Emergency Relief Vent
- Designed for easy maintenance, thus reducing downtime and lowering operational costs
- Bonding strap is standard

Technical Details

Sizes and Bolting:

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8" API 12
8" ASME 150#
12" ASME 150#
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Available Pressure Settings: 4 to 32 osig (in 0.5 osig Increments)

Valve Technology:

+/- 3% Set Pressure Accuracy Leak Rate of No more than 1 SCFH of air at 90% of set pressure

Materials of Construction:

Base & Arm: Carbon Steel or Stainless Steel

Diaphragm Materials: Buna-N, FKM (blue) or FEP

Pallet: Stainless Steel

Aluminum for 8" size pressure setting between 4.0 through 5.5 osig only Reinforcement Plate: Stainless Steel

Optional Feature for 8" – 6 osig to 20 osig, and 12" 4 osig to 8 osig Required Feature for 8" – 20.5 osig to 32 osig, and 12" 8.5 osig to 32 osig Not Available for 8" – 4 osig to 5.5 osig



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DETONATION IN-LINE FLAME ARRESTOR MODEL L7658A



Model L7658A

The L7658A model inhibits flame propagation in gas piping systems. It is ideal for protecting liquid storage tanks containing NEC Group D (IEC Class IIA) gases with a maximum experimental safe gap equal to or greater than 0.90 mm.

Technical Details

- Size: 2"x 5" through 6"x 12"
- Vertical or horizontal installation
- In-line or end-of-line deflagrations
- Unstable detonations
- Burn Time tBT 10 minutes
- Bi-directional with respect to flow and ignition source
- Housing standard material: Carbon Steel or Stainless Steel
- Flame element standard material: Stainless Steel
- Pressure: Maximum Operational pressure 15.7 psia (1.08 bara)
- Operational Temperature Range: -4 to 140 °F (-20 to 60 °C)

Features

- Elements are easily removed in-line for cleaning and maintenance and are economical to replace if necessary
- Low pressure drop with multiple element sizes available for each flange size

Options

- Factory installed thermocouples for flame sensing
- Other housing materials available
- Sensor ports
- Large inspection and cleaning ports
- Swing bolts for fast element removal



Specifications

Housing Size Inches (mm)	A Length Inches (mm)	B Diameter Inches (mm)	Approx Ship. Wt. Lbs.(kg)
5" (125)	18.00 (457)	9.00 (229)	75 (34)
6" (150)	20.31 (516)	11.00 (279)	100 (45)
8" (200)	22.43 (570)	13.50 (343)	175 (79)
12" (300)	25.94 (659)	19.00 (483)	350 (159)

Specifications subject to change without notice. Certified dimensions available upon request Larger sizes available on special application All units with ANSI 150 RF flanges standard (other flange drillings available).









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How to Order





Indicates a 3" Model L7658A with Carbon Steel housing, 6" Stainless Steel Flame Element, ANSI Flanged Outlet and no other options.





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MODEL L61T Lock down hatch

The Model L61T Lock Down Hatch provides access for gauging or obtaining product samples from storage tanks. The lock down hatch has a gauging hook integrated to the base for sampling the tank. The Model L61T Lock Down Hatch incorporates "cushioned-air" seating which assures a superior seal to ensure minimal fugitive emissions.

FEATURES

- Permits the use of both hands during gauging or sampling
- Ultra-tight sealing reduces product leakage and fugitive emissions
- Designed for easy maintenance, thus reducing downtime and lowering operational cost
- Corrosion resistance can be enhanced with FKM soft goods
- Lockdown hatch is able to be mounted to API 12 bolt pattern or 150# ASME flanges (adapters are available for oblong bolting configurations - see options for details)
- Incorporates a mechanical lock system to be used with a pad lock or lock out bar





MODEL L61T LOCK DOWN HATCH



SPECIFICATIONS

Size: 8" (200 mm) Material: Casting: Aluminum (Non-Sparking) Bolting: API 12, or 150# ASME Diaphragm: Buna-N, FKM, EPDM, or FEP

OPTIONS

Flange Adapter:

ADP12TH082002 = Flange Adapter - 8" x 18" Oblong to 8" API 12 - Carbon Steel ADP12TH082003 = Flange Adapter - 8" x 22" Oblong to 8" API 12 - Carbon Steel

Base Gasket:

GKT12TH08CJ02 = FKM (Blue) GKT12TH087602 = FKM (Black) GKT12TH083502 = Buna-N (Black)

Mounting Kit: (for API 12 bolting)

KS12THBS08P01 = KS12THBS08P02 =

Hex Nut and Bolt Set - Zinc Plated Steel
 Hex Nut and Bolt Set - 18-8 Stainless Steel



PLEASE CONTACT YOUR LAMOT VALVE & ARRESTOR REPRESENTATIVE:

REP COMPANY NAME Rep Contact Name Rep Phone Number Rep E-mail Address REP COMPANY LOCATION Street address City, ST ZIP RSM E-mail Address

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THIEF HATCH MODEL L12-TH



MODEL L12-TH

PRODUCT OVERVIEW

The LaMOT Model L12-TH Thief Hatch was designed to out perform the competition, with industry leading high flow rates and precision tolerances to provide a superior sealing performance. The leakage is less than 1 SCFH of air @ 90% of the set pressure, keeping your tanks in compliance with industry standards.

The Model L12-TH Thief Hatch incorporates a spring loaded pressure/vacuum relief valve within the device. Thief Hatches are used on steel or fiberglass (FRP) low pressure storage tanks. Providing access for level gauging, sampling, and overpressure/vacuum protection for the tanks, all in one compact design.

WHY THIEF HATCHES ARE REQUIRED

- Saves money by avoiding environmental standards fines
- Protects tank from overpressure/ vacuum when sized properly*
- Minimizes evaporation emissions
- Reduces atmospheric corrosion of tank
- Required to
 meet industry
 compliance

SUPERIOR SEALING PERFORMANCE

The leakage is less than 1 SCFH of Air @ 90% of the set pressure.

*Calculate vent size in accordance with API Standard 2000 - Venting Atmospheric and Low-Pressure Storage Tanks and API 12.



THIEF HATCH

An evolution of the Groth Corporation, LaMOT Valve & Arrestor funnels decades of industrial design, customer service, and made-to-order manufacturing into a new portfolio of upstream safety products. Living up to our heritage, the quality of our products is paramount, but our main focus is on people.

Extensive R&D has gone into the Model L12-TH Thief Hatch. We started with the end product in mind, focusing on the unique application solution. We were able to accomplish a product design with both superior sealing performance and industry leading flow rates. We paid high attention to detail in the precision machining and manufacturing to accomplish these exact tolerances.

HIGH FLOW CAPACITY

High flow capacity is the new standard set by the Model L12-TH Thief Hatch.

Superior sealing is achieved from an active envelope pressure gasket that expands around the base to increase seal until the designated pressure setting is reached. This design saves you money by greatly reducing vapor loss compared to a traditional thief hatch design.

The most impressive feature of the precision engineered design is the high flow capacity. Savings can be immediately realized with a proper size reduction of other components such as the Pressure Vacuum Relief Valve and Emergency Relief Valve.





MODEL L12-TH



FEATURES & BENEFITS

- Ultra-tight sealing reduces product leakage and fugitive emissions
- Higher flow capacity to protect from excessive pressure build up
- Designed for easy maintenance, thus reducing downtime and lower operational costs
- Corrosion resistance can be enhanced with FKM soft goods and coating
- Direct replacement for any standard round 8" API 12 thief hatch
- Incorporates a mechanical lock system to be used with a pad lock or lock out bar

TECHNICAL DETAILS

- Size: 8" (200 mm)
- Bolting: API 12

Oil & Gas

- Available Pressure Settings*: 4, 6, 8, 12, 16, 24 & 32 osig
- Available Vacuum Settings: 0.4, 0.9 & 3.5 osig
- Leak Rate: 1 SCFH air @ 90% of set pressure
- Materials of Construction: Casting: Aluminum (Non-Sparking)
 - Envelope Gasket: HNBR, FKM, or Fluorosilicone
 - Vacuum Diaphragm: HNBR, FKM, Fluorosilicone, or Fluoropolymer
 - Optional: Polyester/PTFE Coating
 - Accessories: Flange (base) Gasket, Mounting Kit

*Additional pressure settings available

THIEF HATCH



PRESSURE RELIEF CAPACITY



VACUUM RELIEF CAPACITY



MODEL L12-TH



HOW TO ORDER MODEL # SIZE MATERIAL OPTIONS Product #: L1 2 - T H - - 0 8 - - 1 Body Material: 1 = Aluminum Envelope Gasket: H = HNBRV = FKM F = Fluorosilicone Vacuum Diaphragm: H = HNBRV = FKM T = Fluoropolymer F = Fluorosilicone Pressure Setting*: 1 = 4 osig= 6 osig 3 = 8 osig4 = 12 osig 5 = 16 osig6 = 24 osig 7 = 32 osig Vacuum Setting: 1 = 0.4 osig 2 = 0.9 osig3 = 3.5 osig

E = Polyester/PTFE Coating

OPTIONAL ACCESSORIES:

=

Base Gasket:

Coating:

0 = No Coating

2

GKT12TH08K302	=
GKT12TH087602	=
GKT12TH087102	=
GKT12TH084402	=

Non-Asbestos FKM

- PTFE
- **Black Neoprene**

Mounting Kit:

KS12THBS08P01

Zinc Plated Steel (1/2-13 UNC Hex Nut & Bolt)

Individual Parts, Maintenance Repair Kits, and Pre Assembled Center Hatch Assemblies are available. (Please contact a LaMOT representative or visit the website for more information)

*Additional pressure settings available



SPECIFICATIONS

CI7E		WIDTH					HEI	GHT	ANGLE	ASSEMBLY		
	26	A (Cl	osed)	D (Open)		B (Cl	(Closed) C (Open)		E (Open)	WEIGHT		
in	mm	in	mm	in	mm	in	mm	in	mm	deg	lbs	kg
8	200	14.95	379	20.25	514	7.45	189	15.25	387	109.5	13.8	6.26





THE RIGHT SOLUTIONS

An evolution of the Groth Corporation, LaMOT Valve & Arrestor funnels decades of industrial design, customer service, and made-to-order manufacturing into a new portfolio of upstream safety products. Living up to our heritage, the quality of our products is paramount, but our main focus is on people. That's why we work to give our partners the products and support you need to safely run your operation, while also helping you boost your bottom line.

Pressure/Vacuum Relief Valves

Pressure/Vacuum Relief Valves are protection devices typically mounted on a nozzle opening on the top of a fixed roof atmospheric storage tank. Their primary purpose is to protect a tank against rupture or implosion by allowing the tank to breathe, or vent, when pressure changes in the tank due to normal operations.



Emergency Relief Valves

Emergency Relief Valves protect tanks against excessive pressure caused by external fire exposure or flashes within the tank. Emergency relief valves provide higher flow capacity than standard pressure/vacuum relief valves.

Deflagration Flame Arrestors

Deflagration Flame Arrestors are fire safety devices used to protect stored or process media from deflagrations. A deflagration flame arrestor can be used on the top of a tank or as an in-line safety device where combustible gases are transported through low pressure pipe lines. VALVE & ARRESTOR

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We Take Service Seriously

Our team of experienced upstream representatives are readily available to help you find the right products for the job, whether they're walking you through technical specs, performance characteristics, or material recommendations.

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