



SAFETY PRODUCTS THAT PROTECT EQUIPMENT, LIVES & THE ENVIRONMENT



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ADDITIONAL GROTH PRODUCTS

Please see our other Groth Datasheets for additional product lines:



MODEL 7622B

TECHNICAL DETAILS

- Sizes 0.5" through 2"
- Housing standard material: carbon steel or stainless steel
- Flame element standard material: stainless steel
- Operational Temperature Range -4 to 140 °F (-20 to 60 °C)
- Good for IEC gas group IIB3 (MESG \geq 0.65 mm)
- Pre-Ingition system pressure up to 23.2 psia (1.60 bara)
- Certified to ATEX Directive in compliance with EN ISO 16852:2010
 Certificate #: IBExU14ATEX2076 X



DEFLAGRATION FLAME ARRESTER / FLAME CHECK

Model 7622B is designed to prevent flashback in small lines carrying flammable gases. They are often used in small pilot lines and are intended for use where the gas flow can be shut off. The units are union type fittings with FNPT connections.



FEATURES & BENEFITS

- Flame element has sufficient openings to provide a minimum pressure drop and still prevent flashback in the line
- Flame element consists of mesh and chemically etched plates
- Modular design allows easy access for inspection and maintenance

OPTIONS

- Special options available
- FNPT threaded connections

MODEL 7622B // SPECIFICATIONS

Size (FNPT) (Metric)	A Width (Metric)	B Height (Metric)	Approx Ship. Wt. Lbs (Metric)
0.50"*	1.87"	2.77"	1
(13 mm)	(48 mm)	(70 mm)	(0.5 kg)
0.75"	1.87"	1.84"	1
(19 mm)	(48 mm)	(47 mm)	(0.5 kg)
1"	2.12"	2.34"	3
(25 mm)	(54 mm)	(59 mm)	(1.4 kg)
1.50"	2.50"	2.59"	4
(38 mm)	(64 mm)	(66 mm)	(1.8 kg)



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

*0.5" size utilizes a 0.75" flame check with 0.75" x 0.5" reducers.

Note: Maximum working pressure 25 psig



Air Flow - Standard Cubic Feet per Hour at 60°F					
Pressu	re Drop	Size			
InWC	oz/in²	0.5" & 0.75"	1"	1.5"	
1	0.6	145	236	555	
2	1.2	206	334	785	
3	1.7	252	409	962	
4	2.3	291	472	1110	
6	3.5	356	578	1360	
8	4.6	411 668		1570	
10	5.8	460	746	1755	
12	6.9	503	817	1922	
14	8.1	544	883	2075	
16	9.2	581	944	2218	
18	10.4	616	1001	2353	
20	11.6	649	1055	2479	
22	12.7	681	1106	2600	
24	13.9	711	1155	2715	
26	15.0	740	1202	2825	
28	16.2	768	1247	2932	
30	17.3	795	1290	3034	

1. Flow facility and equipment comply with API 2000.

2. Flow measurement accuracy verified by an independent research organization.

3. Flow capacity is based on actual tests and certified by Groth Corporation.

4. Flow data are for tank mounting or end of line and includes flame arrester entrance loss, exit loss and internal losses.



Air Flow - Normal Cubic Meters per Hour at 0°C					
Pressu	re Drop	Size			
mm H₂O	mb	0.5" & 0.75"	1"	1.5"	
25.4	3.00	3.9	6.3	14.9	
50.8	5.00	5.5	8.9	21.0	
76.2	7.50	6.8	11.0	25.8	
102	10.00	7.8	12.6	29.7	
152	15.00	9.5	15.5	36.4	
203	20.00	11.0	17.9	42.1	
254	25.00	12.3	20.0	47.0	
305	30.00	13.5	21.9	51.5	
356	35.00	14.6	23.7	55.6	
406	40.00	15.6	25.3	59.4	
457	45.00	16.5	26.8	63.0	
508	50.00	17.4	28.3	66.4	
559	55.00	18.2	29.6	69.7	
610	60.00	19.0	30.9	72.7	
660	65.00	19.8	32.2	75.7	
711	70.00	20.6	33.4	78.5	
762	75.00	21.3	34.6	81.3	

1. Flow facility and equipment comply with API 2000.

2. Flow measurement accuracy verified by an independent research organization.

3. Flow capacity is based on actual tests and certified by Groth Corporation.

4. Flow data are for tank mounting or end of line and includes flame arrester entrance loss, exit loss and internal losses.



MODEL 7618

TECHNICAL DETAILS

- Flange sizes 2" through 12"
- Housing standard material: carbon steel, stainless steel, aluminum
- Designed for quick and easy maintenance
- Unique recessed seating for superior protection
- Proven spiral-wound, crimped-ribbon flame element (316SS or aluminum)
- Operating Temperature <= 140°F(60°C)
- Vertical installation only



MODEL 7618

DEFLAGRATION FLAME ARRESTERS

The 7618 model is designed to inhibit flame propagation in gas piping systems and to protect low pressure tanks containing flammable liquids. Arresters protect low flash point liquids from external sources of ignition. This provides increased fire protection and safety.

END-OF-LINE	END-OF-LINE	IN-LINE
Weather Hood Outlet	Flanged Outlet with or without Discharge Piping	
 Gas Group: NEC D, IEC IIA Operating Temperature <= 140°F(60°C) Pre-Ignition Pressure = Atmosphere 	 Gas Group: NEC D, IEC IIA Operating Temperature <= 140°F (60°C) Pre-Ignition Pressure = Atmosphere Discharge Piping Length <= 10 pipe diameters 	 Gas Group: IEC IIA1, Methane (includes most Biogas applications) Operating Temperature <= 140°F (60°C) Pre-Ignition Pressure <= 1 psig Run-up Length <= 50 pipe diameters (2") Run-up Length <= 20 pipe diameters (3") Run-up Length <= 10 pipe diameters (4" - 12")

FEATURES & BENEFITS

- Flame arrester element geometry maximizes flame quenching capability while minimizing pressure drop
- Proven spiral-wound, crimped-ribbon flame element provides reliable flame protection
- Modular design allows easy and cost-effective flame bank maintenance

OPTIONS

- Exterior painting or coating available
- Weatherhood (replaces flanged outlet)
- DIN or ASME/ANSI drilling available
- Tapped drain and instrumentation ports available

Size* (Metric)	A Width (Metric)	B Height (Metric)	MAWP 7618 [◊] Aluminum (Metric)	MAWP 7618 [◊] Carbon or SS (Metric)	Approx Ship. Wt. Lbs. (Aluminum)
2"	8.75"	14"	50 psig	100 psig	18
(50 mm)	(221 mm)	(356 mm)	(345 kPa)	(690 kPa)	(8 kg)
3"	9.50"	16"	50 psig	100 psig	25
(80 mm)	(241 mm)	(406 mm)	(345 kPa)	(690 kPa)	(11 kg)
4"	12.25"	18.25"	50 psig	100 psig	40
(100 mm)	(311 mm)	(464 mm)	(345 kPa)	(690 kPa)	(18 kg)
6"	16.50"	21"	50 psig	100 psig	70
(150 mm)	(419 mm)	(533 mm)	(345 kPa)	(690 kPa)	(32 kg)
8"	21"	25"	50 psig	100 psig	135
(200 mm)	(533 mm)	(635 mm)	(345 kPa)	(690 kPa)	(61 kg)
10"	24.75"	30"	50 psig	100 psig	235
(250 mm)	(629 mm)	(762 mm)	(345 kPa)	(690 kPa)	(107 kg)
12"	28.62"	32.50"	50 psig	100 psig	345
(300 mm)	(727 mm)	(826 mm)	(345 kPa)	(690 kPa)	(156 kg)

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



* Larger sizes available on special application.

[†]150# ANSI drilling compatibility, F.F. on aluminum and R.F. on carbon steel and stainless steel alloys.

^oPneumatic tested to 15 psig as standard.

HOW TO ORDER





- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. 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 flame arrester entrance loss, exit loss and internal losses.
- Flow values based on air at 60°F venting to atmospheric pressure of 14.6959 psia



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. 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 flame arrester entrance loss, exit loss and internal losses.
- Flow values based on air at 0°C venting to atmospheric pressure of 1.01325 bara



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. 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 flame arrester entrance loss, exit loss and internal losses.
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- 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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- 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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- Flow data are for in-line mounting and does not include entrance losses or exit losses.
- Flow values based on air at 0°C venting to atmospheric pressure of 1.01325 bara

MODEL 7628

TECHNICAL DETAILS

- Flange sizes 2" through 12"
- Housing standard material: carbon steel, stainless steel, aluminum
- Designed for quick and easy maintenance
- Unique recessed seating for superior protection
- Proven spiral-wound, crimped-ribbon flame element (316SS or aluminum)
- Operating Temperature <= 140°F(60°C)
- Horizontal installation only



MODEL 7628

DEFLAGRATION FLAME ARRESTERS

The 7628 model is designed to inhibit flame propagation in gas piping systems and to protect low pressure tanks containing flammable liquids. Arresters protect low flash point liquids from external sources of ignition. This provides increased fire protection and safety.

END-OF-LINE	IN-LINE
Flanged Outlet with or without Discharge Piping	
 Gas Group: NEC D, IEC IIA Operating Temperature <= 140°F (60°C) Pre-Ignition Pressure = Atmosphere Discharge Piping Length <= 10 pipe diameters 	 Gas Group: IEC IIA1, Methane (includes most Biogas applications) Operating Temperature <= 140°F (60°C) Pre-Ignition Pressure <= 1 psig Run-up Length <= 50 pipe diameters (2") Run-up Length <= 20 pipe diameters (3") Run-up Length <= 10 pipe diameters (4" – 12")

FEATURES & BENEFITS

- Flame arrester element geometry maximizes flame quenching capability while minimizing pressure drop
- Proven spiral-wound, crimped-ribbon flame element provides reliable flame protection
- Modular design allows easy and cost-effective flame bank maintenance

OPTIONS

- Exterior painting or coating available
- DIN or ASME/ANSI drilling available
- Tapped drain and instrumentation ports available

Size* (Metric)	A Length (Metric)	B Height (Metric)	MAWP 7628 [◊] Aluminum (Metric)	MAWP 7628 ⁰ Carbon or SS (Metric)	Approx Ship. Wt. Lbs. (Aluminum)
2"	15"	9.50"	150 psig	350 psig	18
(50 mm)	(381 mm)	(241 mm)	(1035 kPa)	(2415 kPa)	(8 kg)
3"	17"	11"	140 psig	325 psig	25
(80 mm)	(431 mm)	(279 mm)	(966 kPa)	(2242 kPa)	(11 kg)
4"	18.75"	12.50"	140 psig	325 psig	40
(100 mm)	(476 mm)	(318 mm)	(966 kPa)	(2242 kPa)	(18 kg)
6"	21"	16.50"	140 psig	325 psig	70
(150 mm)	(533 mm)	(419 mm)	(966 kPa)	(2242 kPa)	(32 kg)
8"	26"	20.50"	90 psig	200 psig	135
(200 mm)	(660 mm)	(521 mm)	(621 kPa)	(1380 kPa)	(61 kg)
10"	30"	24.50"	75 psig	150 psig	235
(250 mm)	(762 mm)	(622 mm)	(517 kPa)	(1035 kPa)	(107 kg)
12"	32.50"	28.50"	75 psig	150 psig	345
(300 mm)	(826 mm)	(724 mm)	(517 kPa)	(1035 kPa)	(156 kg)

Specifications subject to chan	e without notice.	Certified dimensions	available upon request.
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* Larger sizes available on special application.

†150# ANSI drilling compatibility, F.F. on aluminum and R.F. on carbon steel and stainless steel alloys.

^oPneumatic tested to 15 psig as standard.

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- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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 0°C venting to atmospheric pressure of 1.01325 bara



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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 0°C venting to atmospheric pressure of 1.01325 bara

MODEL 7588 // IEC IIA1

TECHNICAL DETAILS

- Sizes 2" through 12"
- Housing standard material: carbon steel, stainless steel, aluminum
- Flame element standard material: 316L stainless steel
- Other materials available upon request
- Maximim Operational pressure 15.7 psia (1.08 bara)*
- Operational Temperature Range -4 to 140 °F (-20 to 60 °C)
- Burn Time t_{BT} 5 minutes*
- IEC gas group IIA1 (MESG \geq 1.14 mm)
- Certified to ATEX Directive in compliance with EN ISO 16852:2010
 Certificate #: IBExU12ATEX2018 X
- Thermocouple is required for flame detection per the ATEX code

DEFLAGRATION FLAME ARRESTERS

The 7588 model is a In-Line Vertical Deflagration Flame Arrester designed to inhibit flame propagation in gas piping systems and to protect low pressure tanks containing flammable liquids. Arresters protect low flash point liquids from external sources of ignition. This provides increased fire protection and safety.

FEATURES & BENEFITS

- Flame arrester element geometry maximizes flame quenching capability while minimizing pressure drop
- Proven spiral-wound, crimped-ribbon flame element provides reliable flame protection
- Modular design allows easy and cost-effective flame bank maintenance

OPTIONS

- Exterior painting or coating available
- DIN or ASME/ANSI drilling available
- Drains and instrument ports available
- Factory installed thermocouples for flame sensing



MODEL 7588 // SPECIFICATIONS



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

Size* (Metric)	A Width (Metric)	B Height (Metric)	Maximum Run Up (L/D)*	Approx Ship. Wt. Lbs. (Aluminum)	Approx Ship. Wt. Lbs. (Carbon or SS Body)
2"	8.75"	14"	50	18	40
(50 mm)	(221 mm)	(356 mm)	30	(8 kg)	(18 kg)
3"	9.50"	16"	20	27	60
(80 mm)	(241 mm)	(406 mm)	20	(12 kg)	(27 kg)
4"	11.50"	18.25"	10	42	91
(100 mm)	(292 mm)	(464 mm)	10	(19 kg)	(41 kg)
6"	16.50"	21"	10	92	184
(150 mm)	(419 mm)	(533 mm)	10	(42 kg)	(83 kg)
8"	21"	25"	10	146	309
(200 mm)	(533 mm)	(635 mm)	10	(66 kg)	(140 kg)
10"	24.75"	30"	10	237	498
(250 mm)	(629 mm)	(762 mm)	10	(108 kg)	(226 kg)
12"	28.62"	32.50"	10	306	694
(300 mm)	(727 mm)	(826 mm)	IU	(139 kg)	(314 kg)

*Testing parameters based on EN ISO 16852:2010



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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 0°C venting to atmospheric pressure of 1.01325 bara



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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 0°C venting to atmospheric pressure of 1.01325 bara

MODEL 7598 // IEC IIA1

TECHNICAL DETAILS

- Sizes 2" through 12"
- Housing standard material: carbon steel, stainless steel, aluminum
- Flame element standard material: 316L stainless steel
- Other materials available upon request
- Maximim Operational pressure 15.7 psia (1.08 bara)*
- Operational Temperature Range -4 to 140 °F (-20 to 60 °C)
- Burn Time t_{BT} 5 minutes*
- Good for IEC gas group IIA1 (MESG \geq 1.14 mm)
- Certified to ATEX Directive in compliance with EN ISO 16852:2010
 Certificate #: IBExU12ATEX2017 X
- Thermocouple is required for flame detection per the ATEX code

DEFLAGRATION FLAME ARRESTERS

The 7598 model is a In-Line Horizontal Deflagration Flame Arrester designed to inhibit flame propagation in gas piping systems and to protect low pressure tanks containing flammable liquids. Arresters protect low flash point liquids from external sources of ignition. This provides increased fire protection and safety.

FEATURES & BENEFITS

- Eccentric design allows for horizontal installation by preventing liquid accumulation
- Flame arrester element geometry maximizes flame quenching capability while minimizing pressure drop
- Proven spiral-wound, crimped-ribbon flame element provides reliable flame protection
- Modular design allows easy and cost-effective flame bank maintenance

OPTIONS

- Exterior painting or coating available
- DIN or ASME/ANSI drilling available
- Drains and instrument ports available
- Factory installed thermocouples for flame sensing



MODEL 7598 // SPECIFICATIONS



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

Size* (Metric)	A Length (Metric)	B Height (Metric)	Maximum Run Up (L/D)*	Approx Ship. Wt. Lbs. (Aluminum)	Approx Ship. Wt. Lbs. (Carbon or SS Body)
2"	13.75"	9.50"	50	31	69
(50 mm)	(349 mm)	(241 mm)	50	(14 kg)	(31 kg)
3"	15.75"	11"	20	40	85
(80 mm)	(400 mm)	(279 mm)	20	(18 kg)	(38 kg)
4"	18"	12.50"	10	53	112
(100 mm)	(457 mm)	(318 mm)	10	(24 kg)	(51 kg)
6"	21"	16.50"	10	111	216
(150 mm)	(533 mm)	(419 mm)	10	(50 kg)	(98 kg)
8"	25"	20.50"	10	213	413
(200 mm)	(635 mm)	(521 mm)	10	(97 kg)	(187 kg)
10"	30"	24.50"	10	306	622
(250 mm)	(762 mm)	(622 mm)	10	(139 kg)	(282 kg)
12"	32.50"	28.50"	10	378	693
(300 mm)	(826 mm)	(724 mm)	IU	(171 kg)	(314 kg)

*Testing parameters based on EN ISO 16852:2010



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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 0°C venting to atmospheric pressure of 1.01325 bara



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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 0°C venting to atmospheric pressure of 1.01325 bara

MODEL 7688 // IEC IIA

TECHNICAL DETAILS

- Sizes 2" through 12"
- Housing standard material: carbon steel, stainless steel, aluminum
- Flame element standard material: 316L stainless steel
- Other materials available upon request
- Maximim Run Up (L/D) 50*
- Operational Temperature Range -4 to 140 °F (-20 to 60 °C)
- Burn Time t_{BT} 2 minutes (sizes 8", 10" and 12")*
- Burn Time t_{BT} 10 minutes (sizes 2", 3", 4" and 6")*
- IEC gas group IIA (MESG \geq 0.90 mm)
- Certified to ATEX Directive in compliance with EN ISO 16852:2010
 Certificate #: IBExU12ATEX2016 X
- Thermocouple is required for flame detection per the ATEX code

DEFLAGRATION FLAME ARRESTERS

The 7688 model is a In-Line Vertical Deflagration Flame Arrester designed to inhibit flame propagation in gas piping systems and to protect low pressure tanks containing flammable liquids. Arresters protect low flash point liquids from external sources of ignition. This provides increased fire protection and safety.

FEATURES & BENEFITS

- Flame arrester element geometry maximizes flame quenching capability while minimizing pressure drop
- Proven spiral-wound, crimped-ribbon flame element provides reliable flame protection
- Modular design allows easy and cost-effective flame bank maintenance

OPTIONS

- Exterior painting or coating available
- DIN or ASME/ANSI drilling available
- Drains and instrument ports available
- Factory installed thermocouples for flame sensing



MODEL 7688 // SPECIFICATIONS



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

Size* (Metric)	A Width (Metric)	B Height (Metric)	Maximum Operational Pressure* psia (bara)	Burn Time t _{BT} * minutes	Approx Ship. Wt. Lbs. (Aluminum)	Approx Ship. Wt. Lbs. (Carbon or SS Body)
2"	8.75"	14"	23.2	10	19	41
(50 mm)	(221 mm)	(356 mm)	(1.60)	10	(9 kg)	(18 kg)
3"	9.50"	16"	23.2	10	28	61
(80 mm)	(241 mm)	(406 mm)	(1.60)	10	(13 kg)	(28 kg)
4"	11.50"	18.25"	17.4	10	44	93
(100 mm)	(292 mm)	(464 mm)	(1.20)	10	(20 kg)	(42 kg)
6"	16.50"	21"	17.4	10	98	189
(150 mm)	(419 mm)	(533 mm)	(1.20)	10	(44 kg)	(86 kg)
8"	21"	25"	17.4	n	155	317
(200 mm)	(533 mm)	(635 mm)	(1.20)	2	(70 kg)	(144 kg)
10"	24.75"	30"	17.4	2	250	512
(250 mm)	(629 mm)	(762 mm)	(1.20)	2	(113 kg)	(232 kg)
12"	28.62"	32.50"	17.4	n	324	712
(300 mm)	(727 mm)	(826 mm)	(1.20)	2	(147 kg)	(323 kg)

*Testing parameters based on EN ISO 16852:2010
MODEL 7688 // FLOW CAPACITY (IN-LINE)



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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

MODEL 7688 // FLOW CAPACITY (IN LINE)



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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 0°C venting to atmospheric pressure of 1.01325 bara

MODEL 7688 // FLOW CAPACITY (IN-LINE)



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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

MODEL 7688 // FLOW CAPACITY (IN LINE)



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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 0°C venting to atmospheric pressure of 1.01325 bara

MODEL 7698 // IEC IIA

TECHNICAL DETAILS

- Sizes 2" through 12"
- Housing standard material: carbon steel, stainless steel, aluminum
- Flame element standard material: 316L stainless steel
- Other materials available upon request
- Operational Temperature Range -4 to 140 °F (-20 to 60 °C)
- Good for IEC gas group IIA (MESG \geq 0.90 mm)
- Certified to ATEX Directive in compliance with EN ISO 16852:2010
 Certificate #: IBExU12ATEX2015 X
- Thermocouple is required for flame detection per the ATEX code

DEFLAGRATION FLAME ARRESTERS

The 7698 model is a In-Line Horizontal Deflagration Flame Arrester designed to inhibit flame propagation in gas piping systems and to protect low pressure tanks containing flammable liquids. Arresters protect low flash point liquids from external sources of ignition. This provides increased fire protection and safety.

FEATURES & BENEFITS

- Eccentric design allows for horizontal installation by preventing liquid accumulation
- Flame arrester element geometry maximizes flame quenching capability while minimizing pressure drop
- Proven spiral-wound, crimped ribbon, flame element provides reliable flame protection
- Modular design allows easy and cost-effective flame bank maintenance

OPTIONS

- Exterior painting or coating available
- DIN or ASME/ANSI drilling available
- Drains and instrument ports available
- Factory installed thermocouples for flame sensing



MODEL 7698 // SPECIFICATIONS



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

Size* (Metric)	A Length (Metric)	B Height (Metric)	Maximum Operational Pressure* psia (bara)	Maximum Run Up (L/D)*	Burn Time t _{BT} * minutes	Approx Ship. Wt. Lbs. (Aluminum)	Approx Ship. Wt. Lbs. (Carbon or SS Body)
2"	13.75"	9.50"	23.2	50	10	32	70
(50 mm)	(349 mm)	(241 mm)	(1.60)	30	IU	(14 kg)	(32 kg)
3"	15.75"	11"	23.2	50	10	41	86
(80 mm)	(400 mm)	(279 mm)	(1.60)	50		(19 kg)	(39 kg)
4"	18"	12.50"	17.4	20	10	55	114
(100 mm)	(457 mm)	(318 mm)	(1.20)	20		(25 kg)	(52 kg)
6"	21"	16.50"	17.4	20	10	116	222
(150 mm)	(533 mm)	(419 mm)	(1.20)	20	10	(53 kg)	(101 kg)
8"	25"	20.50"	17.4	20	2	221	422
(200 mm)	(635 mm)	(521 mm)	(1.20)	20	2	(100 kg)	(191 kg)
10"	30"	24.50"	17.4	20	2	320	635
(250 mm)	(762 mm)	(622 mm)	(1.20)	20	2	(145 kg)	(288 kg)
12"	32.50"	28.50"	17.4	20	2	397	836
(300 mm)	(826 mm)	(724 mm)	(1.20)	20		(180 kg)	(379 kg)

*Testing parameters based on EN ISO 16852:2010

MODEL 7698 // FLOW CAPACITY (IN-LINE)



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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

MODEL 7698 // FLOW CAPACITY (IN LINE)



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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 0°C venting to atmospheric pressure of 1.01325 bara

MODEL 7698 // FLOW CAPACITY (IN-LINE)



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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

MODEL 7698 // FLOW CAPACITY (IN LINE)



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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 0°C venting to atmospheric pressure of 1.01325 bara

MODEL 7678 // IEC IIA

TECHNICAL DETAILS

- Sizes 2" through 12"
- Housing standard material: carbon steel, stainless steel, aluminum
- Flame element standard material: 316L stainless steel
- Other materials available upon request
- Operational Temperature Range -4 to 140 °F (-20 to 60 °C)
- Burn Time t_{BT} 2 minutes*
- IEC gas group IIA (MESG \geq 0.90 mm)
- Certified to ATEX Directive in compliance with EN ISO 16852:2010
 Certificate #: IBExU12ATEX2019 X
- Thermocouple is required for flame detection per the ATEX code

DEFLAGRATION FLAME ARRESTERS

The 7678 model is an End-Of-Line Vertical Deflagration Flame Arrester designed to inhibit flame propagation in gas piping systems and to protect low pressure tanks containing flammable liquids. Arresters protect low flash point liquids from external sources of ignition. This provides increased fire protection and safety.

FEATURES & BENEFITS

- Flame arrester element geometry maximizes flame quenching capability while minimizing pressure drop
- Proven spiral-wound, crimped-ribbon flame element provides reliable flame protection
- Modular design allows easy and cost-effective flame bank maintenance

OPTIONS

- Exterior painting or coating available
- DIN or ASME/ANSI drilling available
- Drains and instrument ports available
- Factory installed thermocouples for flame sensing





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

Size (Metric)	A Width (Metric)	B Height (Metric)	Approx Ship. Wt. Lbs. (Aluminum)	Approx Ship. Wt. Lbs. (Carbon or SS Body)
2"	13"	18"	22	37
(50 mm)	(330 mm)	(457 mm)	(10 kg)	(17 kg)
3"	17"	18.7"	35	65
(80 mm)	(432 mm)	(475 mm)	(16 kg)	(29 kg)
4"	19.5"	21.1"	49	90
(100 mm)	(495 mm)	(536 mm)	(22 kg)	(41 kg)
6"	23.50"	24.2"	105	168
(150 mm)	(597 mm)	(615 mm)	(48 kg)	(76 kg)
8"	28.3"	32"	160	280
(200 mm)	(719 mm)	(813 mm)	(73 kg)	(127 kg)
10"	32.25"	36"	244	417
(250 mm)	(819 mm)	(914 mm)	(111 kg)	(189 kg)
12"	40"	39"	314	567
(300 mm)	(1016 mm)	(991 mm)	(142 kg)	(257 kg)



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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 0°C venting to atmospheric pressure of 1.01325 bara



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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 0°C venting to atmospheric pressure of 1.01325 bara

MODEL 7658A

TECHNICAL DETAILS

- Sizes 2"x5" through 6"x12"
- Vertical or horizontal installation
- In-line or end-of-line deflagrations
- Unstable detonations
- Pre-ignition system pressure up to 15.7 psia (1.08 bara)
- Pre-ignition system temperatures -4 to $140^{\circ}F$ (-20 to $60^{\circ}C$)
- Burn Time tBT 10 minutes
- Bi-directional with respect to flow and ignition source
- Standard materials of construction are carbon steel or stainless steel
- Stainless Steel element is standard
- Low pressure drop with multiple element sizes available for each flange size
- Certified to ATEX Directive in compliance with EN ISO 16852:2010
 Certificate #: IBExU12ATEX2160 X
- Certified to USCG per 33 CFR Part 154 App. A Type II Certificate #: CSA LO 4000-5704
- Thermocouple is required for flame detection per the ATEX & USCG codes

FLAME ARRESTER

The Groth Model 7658A Deflagration & Detonation Flame Arrester inhibits flame propagation in gas piping systems. The design of the Model 7658A Flame Arrester makes it ideal to protect liquid storage tanks containing NEC Group D (IEC Class IIA) gases with a Maximum Experimental Safe Gap (MESG) equal to or greater than 0.90 mm.

FEATURES & BENEFITS

Housings are available in carbon steel, stainless steel or Alloy C276 and elements in stainless steel, Alloy C276 or other corrosion resistant alloys.

These arresters are compact with high flow capacity and low pressure drop. Elements are easily removed in-line for cleaning and maintenance and are economical to replace if necessary.

OPTIONS

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



MODEL 7658A // SPECIFICATIONS

Housing Size (Metric)	A Length (Metric)	B Diameter (Metric)	Approx Ship. Wt. Lbs. (Metric)
5"	18"	9"	75
(125 mm)	(457 mm)	(229 mm)	(34 kg)
6"	20.31"	11"	100
(150 mm)	(516 mm)	(279 mm)	(45 kg)
8"	22.43"	13.5"	175
(200 mm)	(570 mm)	(343 mm)	(79 kg)
12"	25.94"	19"	350
(300 mm)	(659 mm)	(483 mm)	(159 kg)





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* Larger sizes available on special applications.

All units with ANSI 150 RF flanges standard (other flange drillings available).



Section Z-Z





- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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 0°C venting to atmospheric pressure of 1.01325 bara



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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 0°C venting to atmospheric pressure of 1.01325 bara



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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 0°C venting to atmospheric pressure of 1.01325 bara

MODEL 7661

TECHNICAL DETAILS

- Sizes 4"x16" through 12"x30"
- Vertical or horizontal installation
- In-line or end-of-line deflagrations
- Unstable detonations
- Pre-ignition system pressure up to 15.7 psia (1.08 bara)
- Pre-ignition system temperatures -4 to $140^{\circ}F$ (-20 to $60^{\circ}C$)
- Burn Time tBT 20 minutes
- Bi-directional with respect to flow and ignition source
- Standard materials of construction are carbon steel or stainless steel
- Stainless Steel element is standard
- Low pressure drop with multiple element sizes available for each flange size
- Certified to ATEX Directive in compliance with EN ISO 16852:2010
 Certificate #: IBExU15ATEX2060 X (Element Sizes 16", 20" and 24")
- Certified to USCG per 33CFR Part 154 App. A Type II
 Certificate #: IBExU IB-16-8-115, IBExU IB-16-8-031 (Element Sizes 16", 20", 24" and 30")
- Thermocouple is required for flame detection per the ATEX & USCG codes

FLAME ARRESTER

The Groth Model 7661 Deflagration & Detonation Flame Arrester inhibits flame propagation in gas piping systems. The design of the Model 7661 Flame Arrester makes it ideal to protect liquid storage tanks containing NEC Group D (IEC Class IIA) gases with a Maximum Experimental Safe Gap (MESG) equal to or greater than 0.90 mm.

FEATURES & BENEFITS

Housings are available in carbon steel, stainless steel or Alloy C276 and elements in stainless steel, Alloy C276 or other corrosion resistant alloys.

These arresters are compact with high flow capacity and low pressure drop. Elements are easily removed in-line for cleaning and maintenance and are economical to replace if necessary.

OPTIONS

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



MODEL 7661 // SPECIFICATIONS

Housing Size (Metric)	A Length (Metric)	B Diameter (Metric)	Approx Ship. Wt. Lbs. (Metric)
16"	29.63"	23.50"	550
(400 mm)	(753 mm)	(597 mm)	(249 kg)
20"	32.43"	27.50"	850
(500 mm)	(824 mm)	(699 mm)	(386 kg)
24"	38.75"	32.00"	1200
(600 mm)	(984 mm)	(813 mm)	(544 kg)
30"	42.88"	38.75"	1900
(750 mm)	(1089 mm)	(984 mm)	(862 kg)

All units with ANSI 150 RF flanges standard (other flange drillings available).

* Larger sizes available on special applications.





Section Z-Z



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



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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 0°C venting to atmospheric pressure of 1.01325 bara



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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 0°C venting to atmospheric pressure of 1.01325 bara



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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 0°C venting to atmospheric pressure of 1.01325 bara

MODEL 7758A

TECHNICAL DETAILS

- Sizes 2"x4" through 12"x30"
- Vertical or horizontal installation
- In-line or end-of-line deflagrations
- Stable detonations
- Unstable detonations (element sizes <=12")
- Pre-ignition system pressure up to 19.7 psia (1.36 bara) (see specifications table)
- Pre-ignition system temperatures -4 to 140°F (-20 to 60° C)
- Bi-directional with respect to flow and ignition source
- Available in carbon steel, stainless steel, Alloy C276, and other materials
- Wafer mesh element is standard
- Low pressure drop with multiple element sizes available for each flange size
- Certified to ATEX Directive in compliance with EN ISO 16852:2010
 Certificate #: IBExU12ATEX2170 X (Element Sizes 4", 6", 8" and 12" Unstable detonations)
- Certified to ATEX Directive in compliance with EN ISO 16852:2010
 Certificate #: IBExU12ATEX2171 X (Element Sizes 20", 26" and 30" Stable detonations)
- Thermocouple is required for flame detection per the ATEX code

FLAME ARRESTER

The Groth Model 7758A Deflagration & Detonation Flame Arrester inhibits flame propagation in gas piping systems. The design makes it ideal to protect liquid storage tanks containing both NEC Group D and Group C vapors (IEC Class IIA and IIB1 through IIB3 vapors) with a Maximum Experimental Safe Gap (MESG) equal to or greater than 0.026" [0.65 mm].

FEATURES & BENEFITS

Housings are available in carbon steel, stainless steel, and Alloy C276 and elements in stainless steel, Alloy C276 and other corrosion resistant alloys.

These arresters are compact with high flow capacity and low pressure drop. Wafer mesh elements are easily removed in-line for cleaning and maintenance and are economical to replace if necessary. Contact the factory for additional features and options.

OPTIONS

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



MODEL 7758A // SPECIFICATIONS



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

					Maximum Pre-Ignition Pressure			
Flange Size* (Metric)	Element Size (Metric)	A Length (Metric)	B Height (Metric)	Maximum Burn Time minutes	Deflagrations psia (bara)	Stable Detonations psia (bara)	Unstable Detonations psia (bara)	Ship. Wt. Lbs.
2"	4"	12"	11"	20	19.7	19.7	19.7	54
(50 mm)	(100 mm)	(305 mm)	(279 mm)	50	(1.36)	(1.36)	(1.36)	(25 kg)
2"	6"	12.75"	11"	30	19.7	19.7	19.7	77
(50 mm)	(150 mm)	(324 mm)	(279 mm)		(1.36)	(1.36)	(1.36)	(35 kg)
2"	8"	15.50"	15.50"	5	19.7	19.7	19.7	114
(50 mm)	(200 mm)	(394 mm)	(394 mm)	Ŭ	(1.36)	(1.36)	(1.36)	(52 kg)
3"	6"	12.75"	11"	30	19.7	19.7	19.7	88
(80 mm)	(150 mm)	(324 mm)	(279 mm)		(1.36)	(1.36)	(1.36)	(40 kg)
3″	8″ (000)	16″	15″	5	19.7	19.7	19.7	125
(80 mm)	(200 mm)	(406 mm)	(381 mm)		(1.36)	(1.36)	(1.36)	(57 kg)
3″	12″	18.31″	19″	5	18.0	18.0	18.0	269
(80 mm)	(300 mm)	(465 mm)	(483 mm)		(1.24)	(1.24)	(1.24)	(122 kg)
4″ (100 mm)	8″ (202 mm)	10./5" (425 mm)	15.25 ⁷	5	19.7	19.7	19.7	134 (C4 km)
(100 mm) 4"	(203 mm) 40"	(425 MM) 40"	(387 mm) 40"		(1.30)	(1.30)	(1.30)	(01 Kg) 275
4 (100 mm)	1Z (200 mm)	19 (492 mm)	19 (492 mm)	5	10.0	10.0	10.0	2/J (125 kg)
(100 mm) <i>A</i> "	(300 1111) 20"	(403 11111)	(403 1111)		(1.24)	(1.24)	(1.24)	(125 Kg) 645
4 (100 mm)	20 (500 mm)	23.09 (602 mm)	27.50 (600 mm)	30	17.Z (1.199)	(1 199)		040 (202 kg)
(100 mm) 6"	(300 mm)	18 31"	(099 mm) 10"		(1.100)	18.0	18.0	(293 Kg) 287
(150 mm)	(300 mm)	(465 mm)	(483 mm)	5	(1 24)	(1 24)	(1 24)	(130 kg)
6"	20"	23.69"	27.50"		17.2	17.2	(112-4)	(100 Kg) 657
(150 mm)	(500 mm)	(602 mm)	(699 mm)	30	(1.188)	(1.188)		(299 kg)
6"	26"	29.06"	34.25"		17.2	17.2		1062
(150 mm)	(650 mm)	(738 mm)	(870 mm)	30	(1.188)	(1.188)		(483 ka)
6"	30"	32.31"	38.75"		17.2	17.2		1407
(150 mm)	(750 mm)	(821 mm)	(984 mm)	30	(1.188)	(1.188)		(640 kg)
8"	20"	23.69"	27.50"	20	17.2	17.2		677
(200 mm)	(500 mm)	(602 mm)	(699 mm)	30	(1.188)	(1.188)		(308 kg)
8"	26"	29.06"	34.25"	20	17.2	17.2		1082
(200 mm)	(650 mm)	(738 mm)	(870 mm)	30	(1.188)	(1.188)		(492 kg)
8"	30"	32.31"	38.75"	20	17.2	17.2		1427
(200 mm)	(750 mm)	(821 mm)	(984 mm)	50	(1.188)	(1.188)		(649 kg)
10"	26"	29.06"	34.25"	30	17.2	17.2		1100
(250 mm)	(650 mm)	(738 mm)	(870 mm)		(1.188)	(1.188)		(500 kg)
10"	30"	32.31"	38.75"	30	17.2	17.2		1445
(250 mm)	(750 mm)	(821 mm)	(984 mm)		(1.188)	(1.188)		(657 kg)
12"	30"	32.31"	38.75"	30	17.2	17.2		1491
(300 mm)	(750 mm)	(821 mm)	(984 mm)		(1.188)	(1.188)		(678 kg)

* Consult factory for larger sizes.



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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



- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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 0°C venting to atmospheric pressure of 1.01325 bara


- The test equipment, procedures, and reporting methods utilized by Groth Corporation meet the requirements of standards API 2000/ISO 28300 and ISO 16852. The equipment, methods, and results 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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