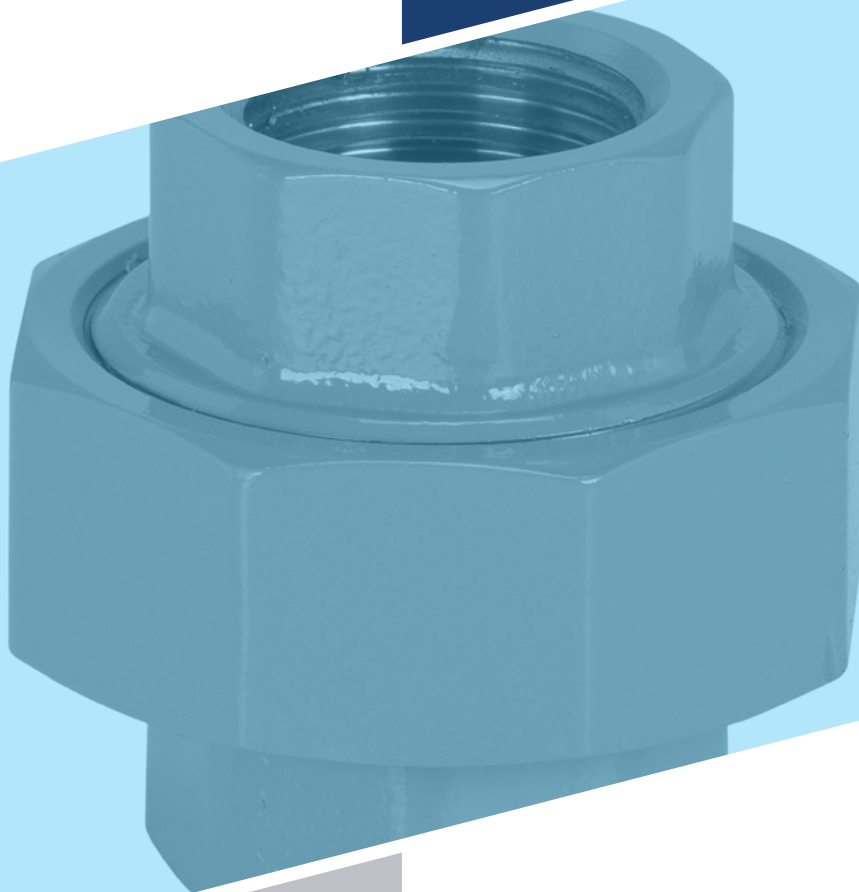




FLAME CHECK

MODEL 7622B



MODEL 7622B

The Groth 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.

Technical Details

- Size: 0.5" (DN15) through 2" (DN50)
- Housing Material: Carbon Steel or Stainless Steel
- Flame element: Stainless Steel
- Pre-Ignition System Pressure: Up to 23.2 psia (1.60 bara)
- Certification: Certified to ATEX Directive in compliance with EN ISO 16852:2010
- Operational Temperature Range -4 to 140 °F (-20 to 60 °C)
- IEC gas group IIB3 (MESG \geq 0.65 mm)

Features

- Vertical Installation only
- Modular design allows easy access for inspection and maintenance
- 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

Options

- Special connections upon request
- FNPT threaded connections



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MODEL 7622B

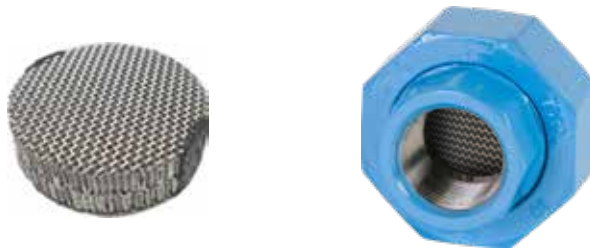
TECHNICAL DETAILS

- 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-ignition 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

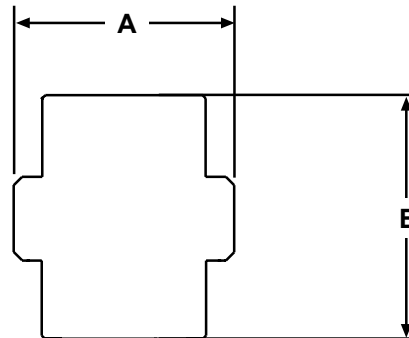
- Flame element has sufficient openings to provide a minimum pressure drop and still prevent flashback in the line
- Flame element consists of mesh and chemically etched plates
- Modular design allows easy access for inspection and maintenance

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"* (13 mm)	1.87" (48 mm)	2.77" (70 mm)	1 (0.5 kg)
0.75" (19 mm)	1.87" (48 mm)	1.84" (47 mm)	1 (0.5 kg)
1" (25 mm)	2.12" (54 mm)	2.34" (59 mm)	3 (1.4 kg)
1.50" (38 mm)	2.50" (64 mm)	2.59" (66 mm)	4 (1.8 kg)



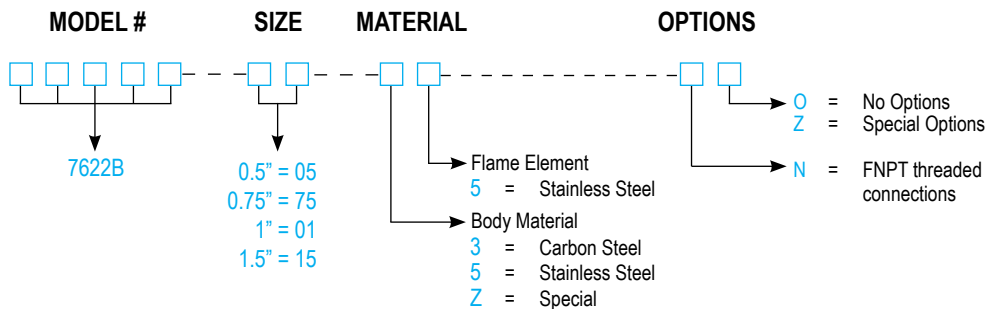
Specifications subject to change without notice. Certified dimensions available upon request.

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

Note: Maximum working pressure 25 psig

HOW TO ORDER

For easy ordering, select proper model numbers



NOTES

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

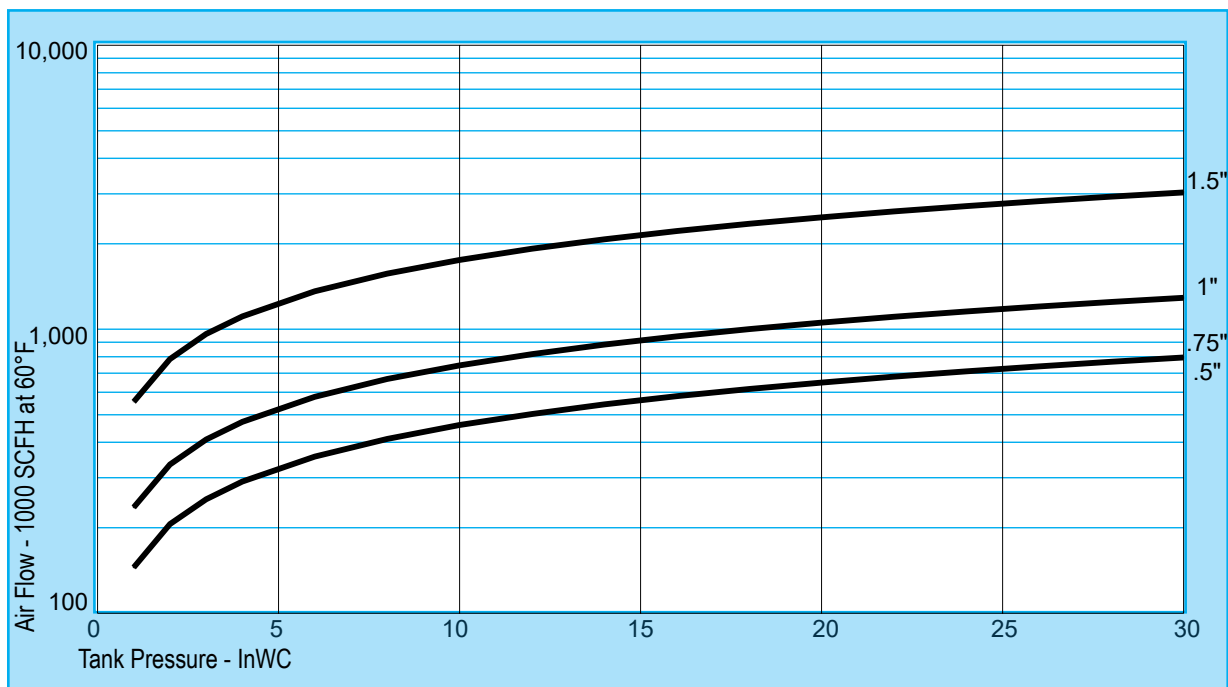
EXAMPLE

7 6 2 2 B — 0 1 — 3 5 — N O

Indicates a 1" Model 7622B with Carbon Steel body, Stainless Steel Flame Element, FNPT connections, and no options other options.

Air Flow - Standard Cubic Feet per Hour at 60°F				
Pressure Drop		Size		
InWC	oz/in ²	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.



MODEL 7622B // FLOW CAPACITY

Air Flow - Normal Cubic Meters per Hour at 0°C				
Pressure Drop		Size		
mm H ₂ O	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.
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