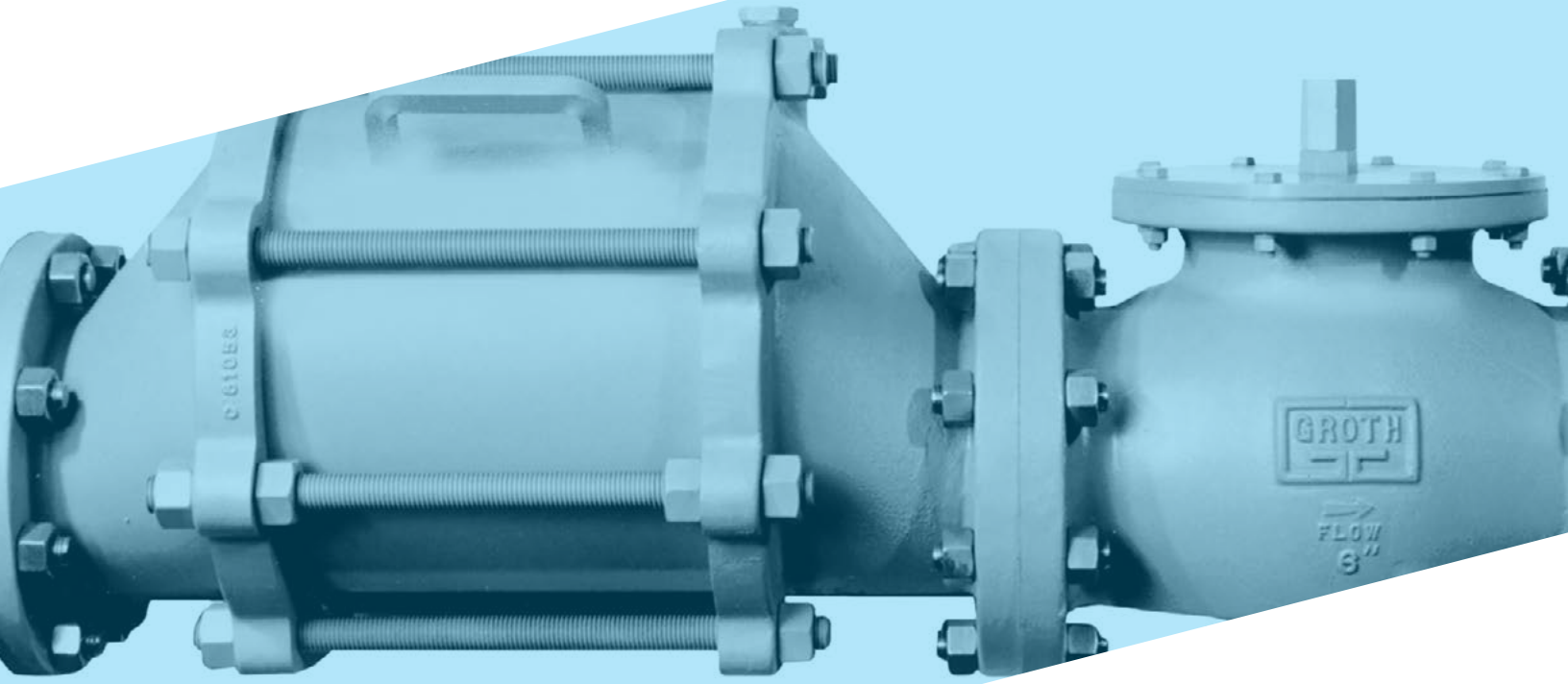
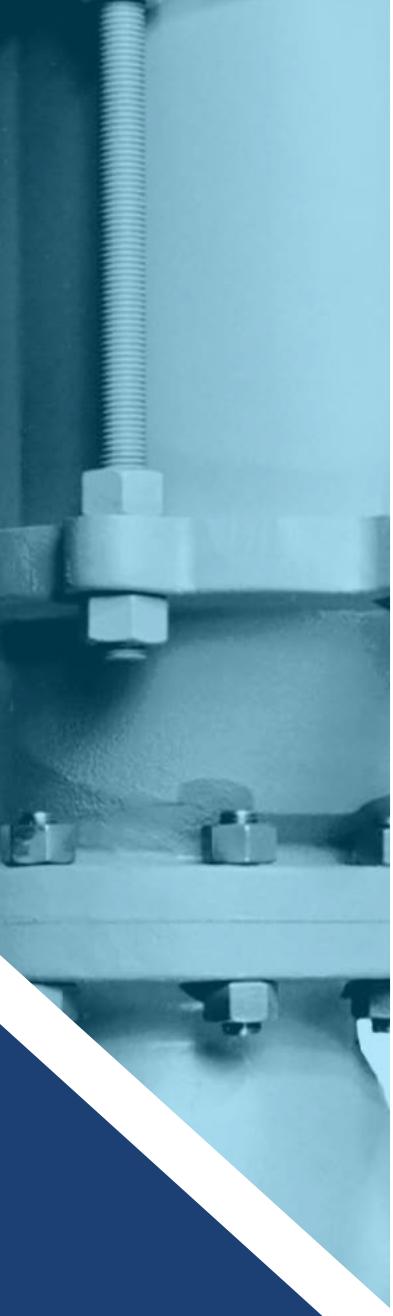
GROTH®
CORPORATION

FLAME TRAP ASSEMBLY

MODEL 8500A





MODEL 8500A

The Groth Model 8500A contains a horizontal flame arrester and a thermal operated shut-off valve. This unit is generally installed in combustible vapor lines. They are also installed in line to gas utilization equipment, as close as possible to the source of combustion.

Technical Details

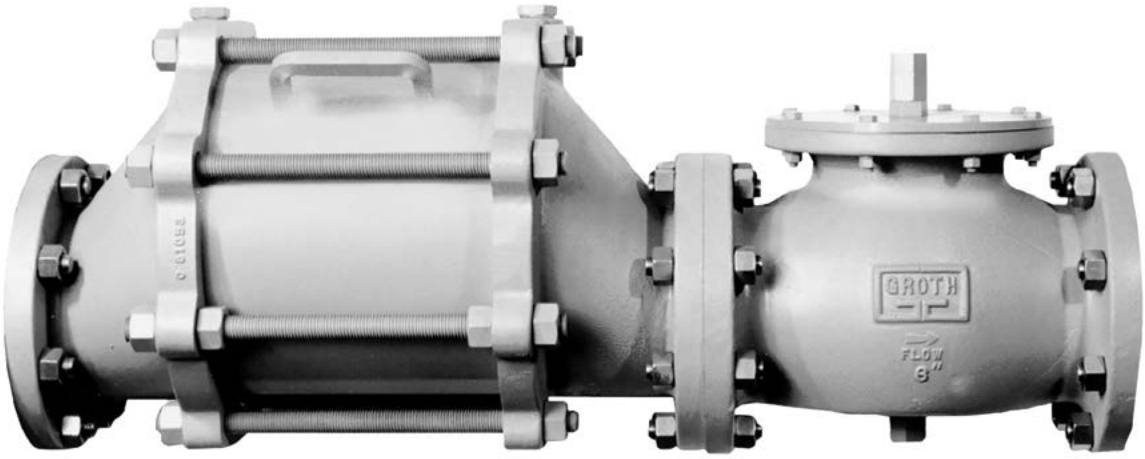
- Size: 2" (DN 50) through 12" (DN 300)
- Material: Aluminum (type 356-T6)

Features

- Designed for quick and easy maintenance
- Simple, replaceable fusible element for ease of maintenance
- Blocks gas flow in the presence of a flame at the flame arrester, preventing damage to upstream equipment

Options

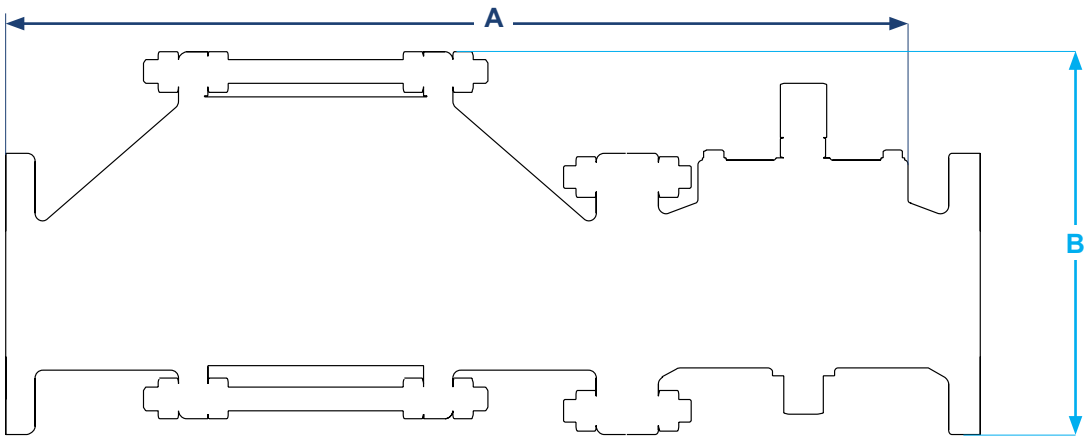
- Thermocouple/thermowell connection
- Insulation jacket
- Flame arrester drain connection
- Instrument ports



SPECIFICATIONS

Size* In (mm)	A Length In (mm)	B Height In (mm)	Max Working Pressure psig (barg)	Approx Ship Weight Lbs (kg)
2 (50)	22.81 (579)	9.50 (241)	10 (0.689)	50 (23)
3 (80)	26.06 (662)	11 (279)		75 (34)
4 (100)	29.69 (754)	12.50 (318)		100 (45)
6 (150)	36.06 (916)	16.50 (419)		150 (68)
8 (200)	47.94 (1218)	20.50 (521)		200 (91)
10 (250)	55.75 (1416)	24.50 (622)		565 (257)
12 (300)	67.38 (1711)	28.50 (724)		715 (325)

* 150# ASME compatibility. F.F. on aluminum and R.F. on carbon steel and stainless steel alloys.
1. W.P. = Working Pressure



FLOW CAPACITY

Pressure		Air Flow Capacity 1000 Standard Cubic Feet per Hour at 60° F In (mm)						
InWC	oz/in²	2 (50)	3 (80)	4 (100)	6 (150)	8 (200)	10 (250)	12 (300)
0.25	0.10	0.62	1.40	2.48	5.58	9.92	15.5	22.3
0.50	0.30	0.99	2.24	3.97	8.94	15.9	24.8	35.8
0.75	0.40	1.29	2.90	5.15	11.6	20.6	32.2	46.4
1.00	0.58	1.54	3.46	6.15	13.8	24.6	38.5	55.4
1.50	0.90	1.96	4.42	7.85	17.7	31.4	49.1	70.7
2.00	1.16	2.32	5.23	9.29	20.9	37.2	58.1	83.6
3.00	1.73	2.93	6.59	11.7	26.4	46.9	73.2	105
4.00	2.31	3.44	7.75	13.8	31.0	55.1	86.1	124
5.00	3.00	3.90	8.76	15.6	35.1	62.3	97.4	140
6.00	3.47	4.30	9.69	17.2	38.7	68.9	108	155
8.0	4.62	5.03	11.3	20.1	45.3	80.5	126	181
10.0	5.78	5.67	12.8	22.7	51.1	90.8	142	204
12.0	6.93	6.26	14.1	25.0	56.3	100	156	225
14.0	8.00	6.79	15.3	27.2	61.1	109	170	244
16.0	9.00	7.29	16.4	29.1	65.6	117	182	262
18.0	10.00	7.75	17.4	31.0	69.8	124	194	279
20.0	11.60	8.20	18.4	32.8	73.8	131	205	295
25.0	14.40	9.21	20.7	36.9	82.9	147	230	332
30.0	17.30	10.1	22.8	40.5	91.2	162	253	1365

Pressure		Flow Capacity of 0.7 SG Digester Gas 1000 Standard Cubic Feet per Hour at 60° F In (mm)						
InWC	oz/in²	2 (50)	3 (80)	4 (100)	6 (150)	8 (200)	10 (250)	12 (300)
0.25	0.10	0.74	1.67	2.97	6.67	11.9	18.5	26.7
0.50	0.30	1.19	2.67	4.75	10.7	19.0	29.7	42.7
0.75	0.40	1.54	3.46	6.16	13.9	24.6	38.5	55.4
1.00	0.58	1.84	4.14	7.36	16.6	29.4	46.0	66.2
1.50	0.90	2.35	5.28	9.39	21.1	37.5	58.7	84.5
2.00	1.16	2.78	6.25	11.1	25.0	44.4	69.4	100
3.00	1.73	3.50	7.88	14.0	31.5	56.0	87.5	126
4.00	2.31	4.11	9.26	16.5	37.0	65.8	103	148
5.00	3.00	4.66	10.5	18.6	41.9	74.5	116	168
6.00	3.47	5.15	11.6	20.6	46.3	82.3	129	185
8.0	4.62	6.02	13.5	24.1	54.1	96.2	150	217
10.0	5.78	6.78	15.3	27.1	61.0	109	170	244
12.0	6.93	7.48	16.8	29.9	67.3	120	187	269
14.0	8.00	8.12	18.3	32.5	73.0	130	203	292
16.0	9.00	8.71	19.6	24.8	78.4	139	218	314
18.0	10.00	9.27	20.9	37.1	83.4	148	232	334
20.0	11.60	9.80	22.0	39.2	88.2	157	245	353
25.0	14.40	11.0	24.8	44.0	99.1	176	275	396
30.0	17.30	12.1	27.2	48.4	109	194	303	436

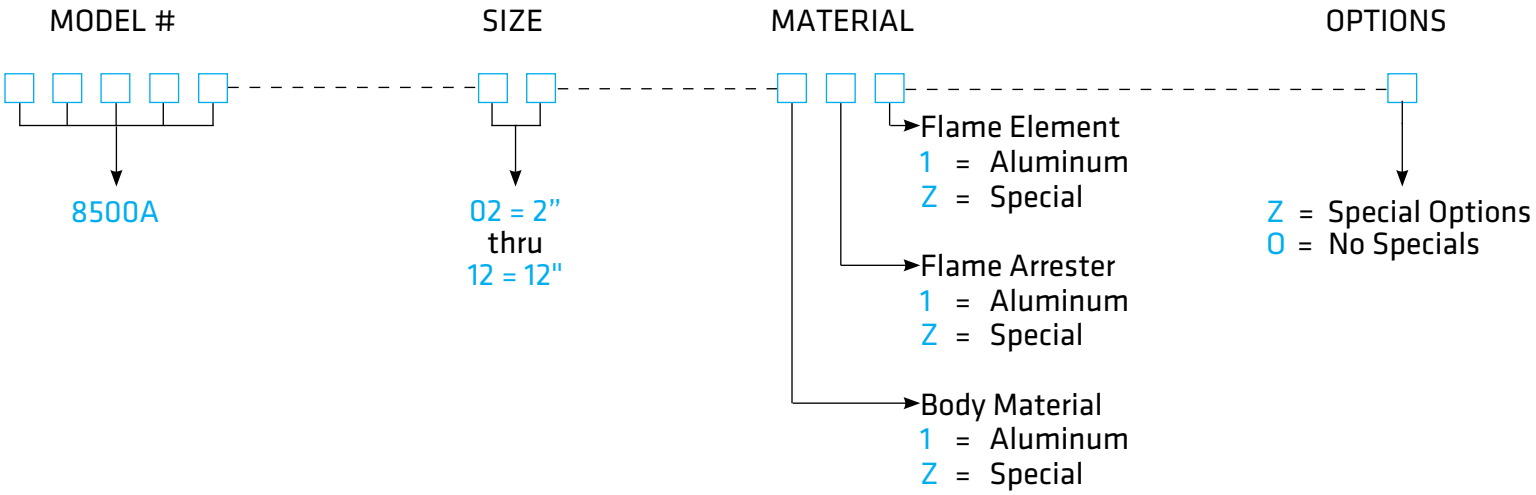
FLOW CAPACITY

Pressure		Air Flow Capacity 1000 Normal Cubic Meters per Hour at 0° C In (mm)						
mmWC	mbar	2 (50)	3 (80)	4 (100)	6 (150)	8 (200)	10 (250)	12 (300)
6.35	0.60	0.02	0.04	0.07	0.15	0.27	0.42	0.60
12.7	1.00	0.03	0.06	0.11	0.24	0.43	0.66	0.96
19.1	2.00	0.03	0.08	0.14	0.31	0.55	0.86	1.24
25.4	3.00	0.04	0.09	0.16	0.37	0.66	1.03	1.48
38.1	4.00	0.05	0.12	0.21	0.47	0.84	1.32	1.89
50.8	5.00	0.06	0.14	0.25	0.56	1.00	1.56	2.24
76.2	7.50	0.08	0.18	0.31	0.71	1.26	1.96	2.81
102	10.00	0.09	0.21	0.37	0.83	1.48	2.31	3.32
127	12.50	0.10	0.23	0.42	0.94	1.67	2.61	3.75
152	15.00	0.12	0.26	0.46	1.04	1.85	2.89	4.15
203	20.00	0.13	0.30	0.54	1.21	2.16	3.38	4.85
254	25.00	0.15	0.34	0.61	1.37	2.43	3.80	5.47
305	30.00	0.17	0.38	0.67	1.51	2.68	4.18	6.03
356	35.00	0.18	0.41	0.73	1.64	2.92	4.55	6.54
406	40.00	0.20	0.44	0.78	1.76	3.13	4.88	7.02
457	45.00	0.21	0.47	0.83	1.87	3.32	5.20	7.47
508	45.00	0.22	0.49	0.88	1.98	3.51	5.49	7.90
635	62.00	0.25	0.55	0.99	2.22	3.94	6.16	8.89
762	75.00	0.27	0.61	1.08	2.44	4.34	6.78	9.78

Pressure		Flow Capacity of 0.7 SG Digester Gas 1000 Normal Cubic Meters per Hour at 0° C In (mm)						
mmWC	mbar	2 (50)	3 (80)	4 (100)	6 (150)	8 (200)	10 (250)	12 (300)
6.35	0.60	0.02	0.04	0.08	0.18	0.32	0.50	0.72
12.7	1.00	0.03	0.07	0.13	0.29	0.51	0.80	1.14
19.1	2.00	0.04	0.09	0.17	0.37	0.66	1.03	1.48
25.4	3.00	0.05	0.11	0.20	0.44	0.79	1.23	1.77
28.1	4.00	0.06	0.14	0.25	0.57	1.00	1.57	2.26
50.8	5.00	0.07	0.17	0.30	0.67	1.19	1.86	2.68
76.2	7.50	0.09	0.21	0.38	0.84	1.50	2.34	3.38
102	10.00	0.11	0.25	0.44	0.99	1.76	2.76	3.96
127	12.50	0.12	0.28	0.50	1.12	2.00	3.11	4.50
152	15.00	0.14	0.31	0.55	1.24	2.20	3.46	4.96
203	20.00	0.16	0.36	0.65	1.45	2.58	4.02	5.81
254	25.00	0.18	0.41	0.73	1.63	2.92	4.55	6.54
305	30.00	0.20	0.45	0.80	1.80	3.21	5.01	7.21
356	35.00	0.22	0.49	0.87	1.96	3.48	5.44	7.82
406	40.00	0.23	0.53	0.93	2.10	3.72	5.84	8.41
457	45.00	0.25	0.56	0.99	2.23	3.96	6.22	8.95
508	50.00	0.26	0.59	1.05	2.36	4.21	6.56	9.46
635	62.00	0.29	0.66	1.18	2.65	4.72	7.37	10.61
762	75.00	0.32	0.73	1.30	2.92	5.20	8.12	11.68

HOW TO ORDER

For easy ordering, select proper model numbers



Notes

- For special options, consult factory

Example

8	5	0	0	A	–	0	2	–	1	1	1	–	0

Indicates a 2" Model 8500A with aluminum body, pallet and flame element and no special options.


GROTH
CORPORATION

GROTHCORP.COM