Model 1260A

- **Sizes 2" through 12"**
- **Pressure settings 0.5 oz/in² to 15 psig**
- **Available in aluminum (type 356), carbon steel, stainless steel, fiberglass and other materials**
- **Modular construction**

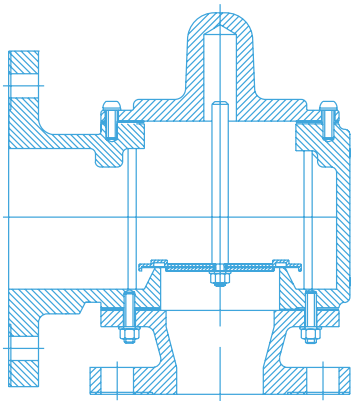
PRESSURE RELIEF VALVE

Pressure Relief Valve Model 1260A is for use where pressure relief is required and all relieving vapors must be piped away. Tank relief, to avoid tank damage, is controlled by a spring or weight loaded pallet in the valve housing. Pressure relief valves help provide increased fire protection and safety. The Model 1260A can also be used for in-line vacuum relief where flanged inlet connection is required. Back pressure in the system must be considered when using flow curves.

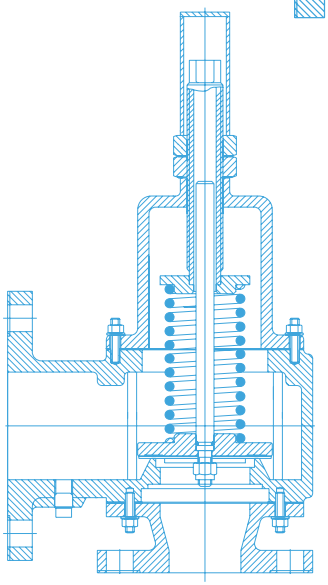
SPECIAL FEATURES

Model 1260A offers Groth's special "cushioned air" seating. Superior performing TEFLON® seating diaphragms are standard to minimize sticking caused by resinous vapors and atmospheric moisture. The Model 1260A has a self-draining housing body and drip rings to protect seating surfaces from condensate and freezing. This design also avoids pressure or vacuum buildup due to binding or clogging of the valve. Buna-N, VITON® and other seating diaphragms can be provided when required.

MODEL 1260A

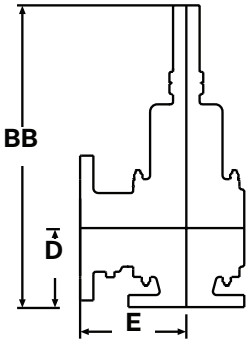


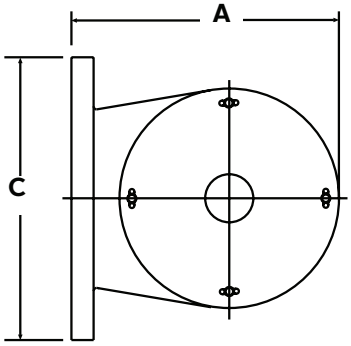
MODEL 1260A

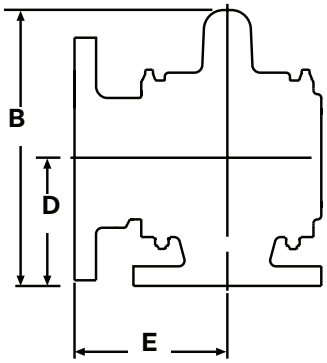


MODEL 1261A

SPECIFICATIONS







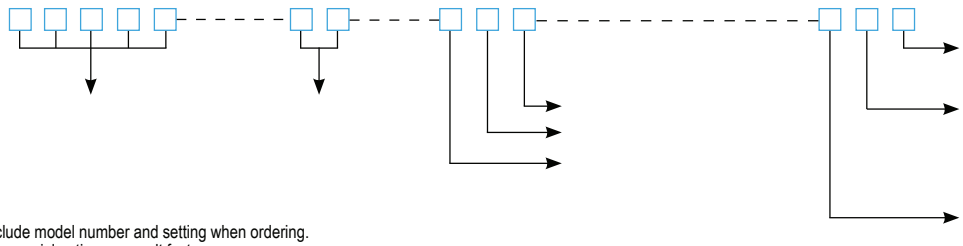
Specifications subject to change without notice. Certified dimensions available upon request.

Inlet Flg◊ (Metric)	Outlet Flg◊ (Metric)	Max. Set Pressure Weight Loaded	Max. Set Pressure Spring Loaded	Min. Setting Weight Loaded	A Length (Metric)	B Height (Metric)	C Width (Metric)	D (Metric)	E (Metric)	BB (Metric)	Approximate Shipping Weight Lbs. (Aluminum)
2" (50 mm)	3" (80 mm)	11 oz/in² (48.3 gm/cm²)	15 psig SPRING LOADED PRESSURE (1.05 kg/cm²)	*0.5 oz/in² WEIGHT LOADED (2.20 gm/cm²)	8.62" (219 mm)	9.37" (238 mm)	7.50" (191 mm)	4.12" (105 mm)	5.50" (140 mm)	16.62" (422 mm)	16 (7 kg)
3" (80 mm)	4" (100 mm)	13 oz/in² (57.1 gm/cm²)			10" (254 mm)	11.12" (282 mm)	9" (229 mm)	5" (127 mm)	6" (152 mm)	20.25" (514 mm)	22 (10 kg)
4" (100 mm)	6" (150 mm)	16 oz/in² (70.3 gm/cm²)			11" (279 mm)	13.87" (352 mm)	11" (279 mm)	6.50" (165 mm)	6.50" (165 mm)	25.62" (651 mm)	29 (13 kg)
6" (150 mm)	8" (200 mm)	16 oz/in² (70.3 gm/cm²)			14.50" (368 mm)	17.37" (441 mm)	13.50" (343 mm)	8.50" (216 mm)	8.50" (216 mm)	34.50" (876 mm)	55 (25 kg)
8" (200 mm)	10" (250 mm)	16 oz/in² (70.3 gm/cm²)			18" (457 mm)	21.25" (540 mm)	16" (406 mm)	9.75" (248 mm)	10.75" (273 mm)	39.75" (1010 mm)	92 (42 kg)
10" (250 mm)	12" (300 mm)	16 oz/in² (70.3 gm/cm²)			20.75" (527 mm)	23.62" (600 mm)	19" (483 mm)	10.25" (260 mm)	12.50" (318 mm)	46.37" (1178 mm)	105 (48 kg)
12" (300 mm)	14" (350 mm)	16 oz/in² (70.3 gm/cm²)			24.75" (629 mm)	26.62" (676 mm)	21" (533 mm)	11" (279 mm)	15" (381 mm)	49.25" (1251 mm)	149 (68 kg)

‡ On spring loaded valves, change model number. ◊ 150# R.F. drilling compatibility F.F. on aluminum and R.F. on carbon steel and stainless steel alloys.
Fiberglass dimensions on request. 16 oz/in² set with spacer. SS set weights-consult factory. *Some sizes require non-ferrous components to achieve 0.5 oz/in² setting.

HOW TO ORDER

For easy ordering, select proper model numbers



NOTES
- Include model number and setting when ordering.
- For special options, consult factory.
- When ordering steam jacket, include steam pressure/temperature.

EXAMPLE 1 2 6 0 A — 0 2 — 1 1 5 — T 0 0

Indicates a 2" Model 1260A with Aluminum Body and Seat, 316SS Pallet, TEFLON® Seat Diaphragm and no other options.

Model 1260A
Pressure Relief Capacity

Set Pressure (P_s)		Air Flow Capacity at 100% Overpressure (Double Set Pressure) 1000 Standard Cubic Feet per Hour at 60° F						
InWC	oz/in²	2" (50 mm)	3" (80 mm)	4" (100 mm)	6" (150 mm)	8" (200 mm)	10" (250 mm)	12" (300 mm)
0.87	0.50	6.87	13.3	25.2	52.7	82.6	135	175
1.00	0.58	7.39	14.3	27.1	56.6	88.8	145	188
1.73	1.00	9.71	18.8	35.6	74.3	117	190	247
2.00	1.16	10.4	20.2	38.2	79.8	125	205	265
2.60	1.50	11.9	23.0	43.5	90.8	143	233	302
3.00	1.73	12.8	24.7	46.8	97.5	153	250	324
3.46	2.00	13.7	26.6	50.2	105	164	268	348
4.00	2.31	14.7	28.6	53.9	112	177	288	374
6.00	3.47	18.0	35.0	65.9	137	215	351	456
8.00	4.62	20.7	40.4	75.8	157	248	404	525
10.0	5.78	23.1	45.1	84.6	175	276	450	584
12.0	6.93	25.2	49.4	92.4	191	301	491	638
15.0	8.66	28.1	55.2	103	211	335	546	709
20.0	11.6	32.2	63.7	118	241	383	625	811
25.0	14.4	35.8	71.2	131	267	424	692	898
30.0	17.3	39.0	77.9	143	289	460	751	975

Flow capacity is certified by Groth Corporation, based on actual tests conducted in compliance with API Std. 2000. Flow measurement accuracy has been verified by an independent testing laboratory.

For an equivalent size fiberglass valve, reduce tabulated capacities by 32%.

Read the flow capacity at 100% overpressure directly from the table above. Use linear

If the allowable overpressure is less than 100%, modify the flow capacity using the

Calculate flow capacity at less than 100% overpressure according to the

Example—To find "C" factor from table:

75% 70 5

0.87

"C" Factor Table

%OP	0	1	2	3	4	5	6	7	8	9
10	0.42	0.43	0.44	0.45	0.46	0.46	0.47	0.48	0.49	0.50
20	0.51	0.52	0.52	0.53	0.54	0.55	0.56	0.56	0.57	0.58
30	0.59	0.59	0.60	0.61	0.61	0.62	0.63	0.64	0.64	0.65
40	0.66	0.66	0.67	0.68	0.68	0.69	0.70	0.70	0.71	0.72
50	0.72	0.73	0.73	0.74	0.75	0.75	0.76	0.77	0.77	0.78
60	0.78	0.79	0.80	0.80	0.81	0.81	0.82	0.82	0.83	0.84
70	0.84	0.85	0.85	0.86	0.86	0.87	0.88	0.88	0.89	0.89
80	0.90	0.90	0.91	0.91	0.92	0.92	0.93	0.93	0.94	0.94
90	0.95	0.95	0.96	0.96	0.97	0.97	0.98	0.99	0.99	1.00

Example—Flow Capacity Calculation

1. Read flow capacity at

7 InWC flowing pressure [P]

4. Calculate flow capacity

Flow = 0.87 x 112,000 = 97,440 SCFH

Model 1260A
Pressure Relief Capacity

Set Pressure (P_s)		Air Flow Capacity at 100% Overpressure (Double Set Pressure) 1000 Normal Cubic Meters per Hour at 0° C						
mmWC	mb	2" (50 mm)	3" (80 mm)	4" (100 mm)	6" (150 mm)	8" (200 mm)	10" (250 mm)	12" (300 mm)
22	2.16	0.19	0.37	0.71	1.48	2.33	3.80	4.93
50	4.90	0.29	0.56	1.07	2.23	3.50	5.72	7.42
75	7.35	0.36	0.69	1.31	2.72	4.28	6.99	9.10
100	9.80	0.41	0.80	1.51	3.14	4.93	8.05	10.4
125	12.3	0.46	0.89	1.68	3.50	5.51	8.99	11.7
150	14.7	0.50	0.98	1.84	3.82	6.02	9.80	12.7
175	17.2	0.54	1.06	1.99	4.12	6.49	10.6	13.7
200	19.6	0.58	1.13	2.12	4.39	6.92	11.3	14.7
225	22.1	0.61	1.20	2.25	4.65	7.33	12.0	15.5
250	24.5	0.65	1.26	2.36	4.89	7.71	12.6	16.3
275	27.0	0.68	1.32	2.48	5.11	8.07	13.2	17.1
300	29.4	0.70	1.38	2.58	5.33	8.42	13.7	17.8
375	36.8	0.78	1.54	2.88	5.91	9.40	15.3	19.8
500	49.0	0.90	1.78	3.30	6.75	10.7	17.5	22.7
625	61.3	1.00	1.99	3.67	7.46	11.9	19.4	25.1
750	73.5	1.09	2.18	3.99	8.07	12.9	21.0	27.3

Flow capacity is certified by Groth Corporation, based on actual tests conducted in compliance with API Std. 2000.
Flow measurement accuracy has been verified by an independent testing laboratory.

Example—To find "C" factor from table:

75% 70 5

0.87

For an equivalent size fiberglass valve, reduce tabulated capacities by 32%.

Read the flow capacity at 100% overpressure directly from the table above.

If the allowable overpressure is less than 100%, modify the flow capacity using

Calculate flow capacity at less than 100% overpressure according to the

"C" Factor Table										
%OP	0	1	2	3	4	5	6	7	8	9
10	0.42	0.43	0.44	0.45	0.46	0.46	0.47	0.48	0.49	0.50
20	0.51	0.52	0.52	0.53	0.54	0.55	0.56	0.56	0.57	0.58
30	0.59	0.59	0.60	0.61	0.61	0.62	0.63	0.64	0.64	0.65
40	0.66	0.66	0.67	0.68	0.68	0.69	0.70	0.70	0.71	0.72
50	0.72	0.73	0.73	0.74	0.75	0.75	0.76	0.77	0.77	0.78
60	0.78	0.79	0.80	0.80	0.81	0.81	0.82	0.82	0.83	0.84
70	0.84	0.85	0.85	0.86	0.86	0.87	0.88	0.88	0.89	0.89
80	0.90	0.90	0.91	0.91	0.92	0.92	0.93	0.93	0.94	0.94
90	0.95	0.95	0.96	0.96	0.97	0.97	0.98	0.99	0.99	1.00

Example—Flow Capacity Calculation

1. Read flow capacity at

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4. Calculate flow capacity *Flow = 0.87 x 3,140 = 2,732 NCMH*

Model 1261A
Pressure Relief Capacity

Set Pressure (P_s)	Air Flow Capacity at 100% Overpressure (Double Set Pressure) 1000 Standard Cubic Feet per Hour at 60° F						
psig	2" (50 mm)	3" (80 mm)	4" (100 mm)	6" (150 mm)	8" (200 mm)	10" (250 mm)	12" (300 mm)
1.00	28.0	53.4	92.5	210	345	529	739
2.00	40.3	77.4	134	304	500	767	1070
3.00	50.2	96.9	168	381	625	960	1340
4.00	58.8	114	198	448	736	1130	1577
5.00	66.5	130	225	510	838	1286	1794
6.00	73.7	144	250	568	932	1431	1997
7.00	80.4	158	274	622	1022	1568	2188
8.00	86.7	171	297	674	1107	1699	2371
9.00	92.8	184	319	724	1189	1825	2546
10.0	98.6	196	340	772	1267	1945	2714
11.0	104	208	360	818	1343	2062	2877
12.0	110	219	380	863	1417	2176	3036
13.0	115	231	400	907	1489	2286	3189
14.0	120	241	418	949	1559	2393	3339
15.0	125	252	437	991	1627	2498	3486

Flow capacity is certified by Groth Corporation, based on actual tests conducted in compliance with API Std. 2000. Flow measurement accuracy has been verified by an independent testing laboratory.

For an equivalent size fiberglass valve, reduce tabulated capacities by 32%.

Read the flow capacity at 100% overpressure directly from the table above.

If the allowable overpressure is less than 100%, modify the flow capacity using

Calculate flow capacity at less than 100% overpressure according to the

Example—To find "C" factor from table:

75% 70 5

0.83

"C" Factor Table										
%OP	0	1	3	3	4	5	6	7	8	9
10	•••Consult Factory•••									
20	0.27	0.29	0.30	0.32	0.33	0.35	0.36	0.38	0.39	0.40
30	0.42	0.43	0.44	0.45	0.47	0.48	0.49	0.50	0.51	0.52
40	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62
50	0.63	0.64	0.65	0.66	0.67	0.67	0.68	0.69	0.70	0.71
60	0.72	0.72	0.73	0.74	0.75	0.76	0.76	0.77	0.78	0.79
70	0.80	0.80	0.81	0.82	0.82	0.83	0.84	0.85	0.85	0.86
80	0.87	0.87	0.88	0.89	0.90	0.90	0.91	0.92	0.92	0.93
90	0.94	0.94	0.95	0.96	0.96	0.97	0.97	0.98	0.99	1.00

Example—Flow Capacity Calculation 1. Read flow capacity at

7 psig flowing pressure [P] 4. Calculate flow capacity *Flow = 0.83 x 448,000 = 371,840 SCFH*

Model 1261A
Pressure Relief Capacity

Set Pressure (P_s)	Air Flow Capacity at 100% Overpressure (Double Set Pressure) 1000 Normal Cubic Meters per Hour at 0° C						
barg	2" (50 mm)	3" (80 mm)	4" (100 mm)	6" (150 mm)	8" (200 mm)	10" (250 mm)	12" (300 mm)
0.07	0.82	1.57	2.72	6.16	10.1	15.5	21.7
0.10	0.99	1.89	3.28	7.45	12.2	18.8	26.2
0.15	1.23	2.36	4.09	9.28	15.2	23.4	32.6
0.20	1.43	2.76	4.80	10.9	17.9	27.4	38.3
0.25	1.62	3.14	5.44	12.3	20.3	31.1	43.4
0.30	1.79	3.48	6.04	13.7	22.5	34.5	48.2
0.35	1.95	3.81	6.61	15.0	24.6	37.8	52.7
0.40	2.10	4.12	7.14	16.2	26.6	40.9	57.0
0.45	2.25	4.41	7.66	17.4	28.5	43.8	61.1
0.50	2.39	4.70	8.16	18.5	30.4	46.6	65.1
0.55	2.52	4.98	8.64	19.6	32.2	49.4	68.9
0.60	2.65	5.25	9.10	20.6	33.9	52.1	72.6
0.70	2.89	5.76	10.0	22.7	37.2	57.2	79.7
0.80	3.13	6.25	10.8	24.6	40.4	62.1	86.5
0.90	3.35	6.72	11.7	26.5	43.5	66.7	93.1
1.00	3.56	7.18	12.5	28.3	46.4	71.2	99.4

Flow capacity is certified by Groth Corporation, based on actual tests conducted in compliance with API Std. 2000.
Flow measurement accuracy has been verified by an independent testing laboratory.

For an equivalent size fiberglass valve, reduce tabulated capacities by 32%.

Read the flow capacity at 100% overpressure directly from the table above. Use

If the allowable overpressure is less than 100%, modify the flow capacity using the

Calculate flow capacity at less than 100% overpressure according to the following

Example—To find "C" factor from table:

75% 70 5

0.83

"C" Factor Table										
%OP	0	1	3	3	4	5	6	7	8	9
10	•••Consult Factory•••									
20	0.27	0.29	0.30	0.32	0.33	0.35	0.36	0.38	0.39	0.40
30	0.42	0.43	0.44	0.45	0.47	0.48	0.49	0.50	0.51	0.52
40	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62
50	0.63	0.64	0.65	0.66	0.67	0.67	0.68	0.69	0.70	0.71
60	0.72	0.72	0.73	0.74	0.75	0.76	0.76	0.77	0.78	0.79
70	0.80	0.80	0.81	0.82	0.82	0.83	0.84	0.85	0.85	0.86
80	0.87	0.87	0.88	0.89	0.90	0.90	0.91	0.92	0.92	0.93
90	0.94	0.94	0.95	0.96	0.96	0.97	0.97	0.98	0.99	1.00

Example—Flow Capacity Calculation

1. Read flow capacity at

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4. Calculate flow capacity *Flow = 0.83 x 16,200 = 13,446 NCMH*