

The Anderson Model 81 Separator is an economical way of removing particulate from air, gas, or steam lines. The compact impingement vane type separation element allows for maximum removal efficiencies while maintaining a minimal pressure drop across the separator. When combined with the integral float draining mechanism the Anderson Model 81 will automatically drain all the liquid from the separator while not allowing blow-by when no liquid is present.

- Proven impingement vane type separating element.
- Can be supplied with or without integral float trap
- Removes 99% of liquids and solids 10 microns in size and larger
- Integral baffle plate helps to prevent re-entrainment
- Threaded NPT line connections from 1/2" through 3"
- Flanged 125lb. connections 2" through 3"

APPLICATIONS

The Anderson Model 81 is a very versatile separator that should be specified any time a clean dry gas stream is required.

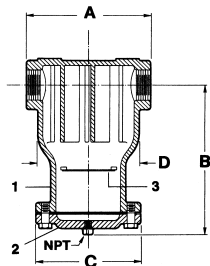
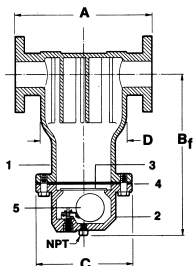
- Heat Exchangers
- Steam Turbines
- Intercoolers and Aftercoolers
- Steam and Air Distribution Lines
- Refrigerated Air Dryers

DESIGN

The Anderson Model 81 exceeds the requirements of ANSI B16.4 – 250 PSI @ 250°F. The Anderson Model 81 also meets the requirements of ASME pressure vessel code, section VIII – 150 PSI@450°F. All pressure bearing parts are made of ASTM A-278 cast iron. All internal components are made from corrosion resistance 300 series stainless steel.



Model 81



Materials of Construction

1	Body	Cast Iron (A-278)
2	Cover	Cast Iron (A-278)
3	Isolating Plate	304 Stainless
4	Gasket	Non-Asbestos
5	Float Assembly	304 Stainless

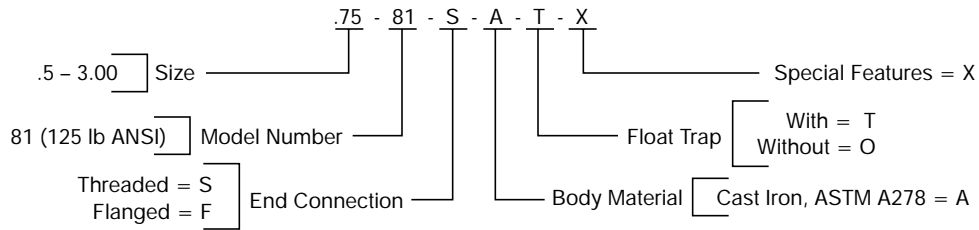
Dimensions

	in.	Threaded							Flanged			
		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	2	2 1/2	3
	mm.	15	20	25	32	40	50	65	80	50	65	80
A	in.	5 1/2	5 1/2	6	6	7 1/2	8 1/8	9 3/8	11 1/16	10 3/4	11 1/2	13
	mm.	140	140	152	152	191	206	245	281	273	292	330
Bf (with float trap)	in.	9	9	9 15/16	9 15/16	12	13 1/2	15 1/4	16 1/4	13 1/2	15 1/4	16 1/4
	mm.	229	229	252	252	305	343	287	413	343	387	413
B (without float trap)	in.	9	9	9 15/16	9 15/16	8 5/8	10 1/8	11 7/8	12 7/8	10 1/8	11 7/8	12 7/8
	mm.	229	229	252	252	219	257	302	327	257	302	327
C	in.	5 7/8	5 7/8	5 7/8	5 7/8	6 7/8	6 7/8	6 7/8	6 7/8	6 7/8	6 7/8	6 7/8
	mm.	149	149	149	149	175	175	175	175	175	175	175
D	in.	4 1/8	4 1/8	4 3/4	4 3/4	6	6 3/4	7 1/2	8 1/16	6 3/4	7 1/2	8 1/16
	mm.	105	105	121	121	152	171	191	202	171	191	205
DRAIN TAP (NPT)		3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	1/2	1/2	1/2

Weights

CAST IRON	With Float	LB	17	17	21	21	33	39	52	72	62	64	94
		KG	7.7	7.7	9.5	9.5	15	17.7	23.6	32.7	28.1	29	42.6
CAST IRON	Without Float	LB	16	16	20	20	29	35	48	68	58	60	90
		KG	7.26	7.26	9.1	9.1	13.2	15.9	21.8	30.8	26.3	27.2	40.8

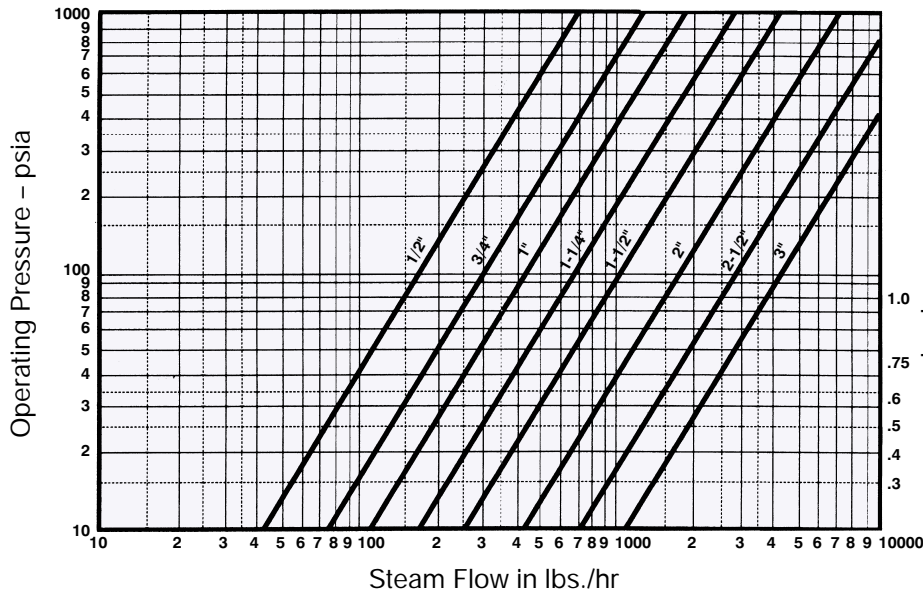
Ordering Information



Guidelines For Sizing Separators

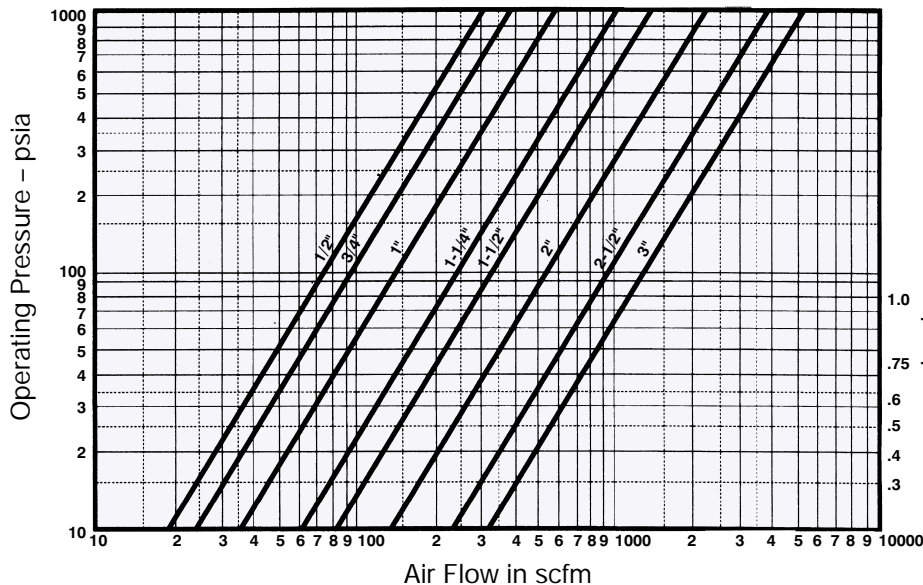
On the chart find the intersection of the operating pressure and the flow rate. Select a separator with a higher capacity at the operating pressure.

Separator Steam Capacity and Sizing Chart (maximum recommended saturated steam flow in lbs./hr.)



Steam example:
 450#/hr. of saturated steam at 35 psig operating pressure. The 1 1/4" separator is too small. A 1 1/2" or larger separator should be used.

Separator Air Capacity and Sizing Chart (maximum recommended air flow in cubic ft./min.)



Air example:
 600scfm of air at 150 psig operating pressure. The 1 1/2" separator is too small. A 2" or larger separator should be used.

ANDERSON™ SEPARATOR COMPANY

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A.S.M.E. CODE STAMPS



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