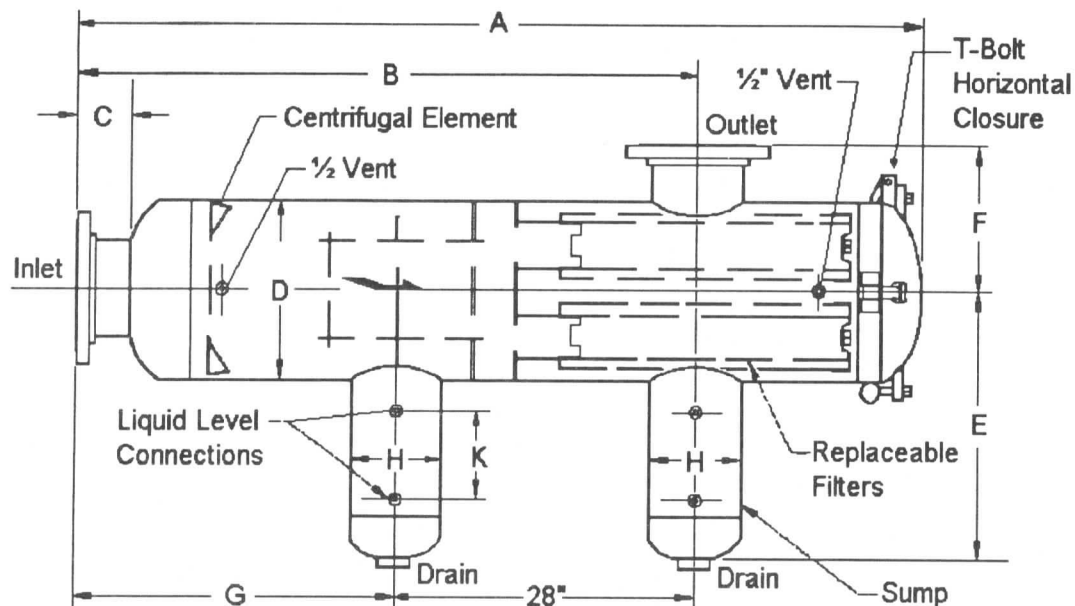


WRIGHT-AUSTIN TYPE 31-LSF SEPARATOR/FILTER

WRIGHT-AUSTIN TYPE 31-LSF SEPARATOR / FILTER



Applications

The Wright-Austin Type 31-LSF separator/filter removes liquid droplets and solid particles from air or other gas flows. Although specially designed to efficiently eliminate droplets and particles as small as 0.5 microns, it is also suitable for moderately heavy liquid loads and small slugs. The Type 31-LSF is available in larger sizes and for higher pressures than those shown in the chart. The most common application is natural gas, but the Type 31-LSF is suitable for any application requiring extremely fine entrainment removal.

Design

The Wright-Austin type 31-LSF separator/filter accomplishes separation in two stages. The first stage (centrifugal separator) removes slugs, heavy liquid loads, and 99% of all droplets and particles sized 10 microns and larger. The second stage (coalescing filters) can remove up to 99+% of droplets and particles sized 0.5 micron and larger. The efficiency of the second stage is dependent upon the filters installed.

Materials and ASME Code Construction

The standard Wright-Austin type "31-LSF" separator/filter is furnished in carbon steel and stainless steel with a 304L stainless steel internal separating element. The filter elements are made of borosilicate microglass fibers, epoxy saturated, with a glass-matrix drain layer. All Wright-Austin Company vessels meet ASME Code, Section VIII, Division I. ASME "U" stamp is available.

Size	Dimensions in Inches										Weight Pounds	
	A	B	C	D	E	F	G	H	K	Drain	175 PSI @ 450°F	305 PSI @ 450°F
2½	57	41	3	8 5/8	15½	8	13	2 7/8	6 3/4	1	235	245
3	58	42	3	8 5/8	16½	8	14	3 1/2	6 3/4	1½	250	265
4	64	46	4	10 3/4	17½	10	18	4 1/2	6 3/4	1½	380	395
5	68	49	4	12 3/4	19½	11	21	5 9/16	6 3/4	1½	495	520
6	70	50	4	14	21	12	22	6 5/8	6 3/4	1½	595	640
8	79	58	5	16	24	13	30	8 5/8	7 7/8	2	850	910
10	85	61	5	20	27	15	33	10 3/4	7 7/8	2	1145	1275
12	94	68	5	24	30	17	40	10 3/4	7 7/8	2½	1565	1715
14	99	71	5	28	33	19	43	12 3/4	7 7/8	2½	1725	2200
16	107	78	5	30	35	20	50	14	7 7/8	3	2075	2680

Certified for dimensions

Effective April 1, 1996

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