



**CIRCLE
S
PRODUCTS, INC.**

TECHNICAL BULLETIN

TYPE: Horizontal installations

MODEL: Dry-Flo™ L1S Moisture Separator

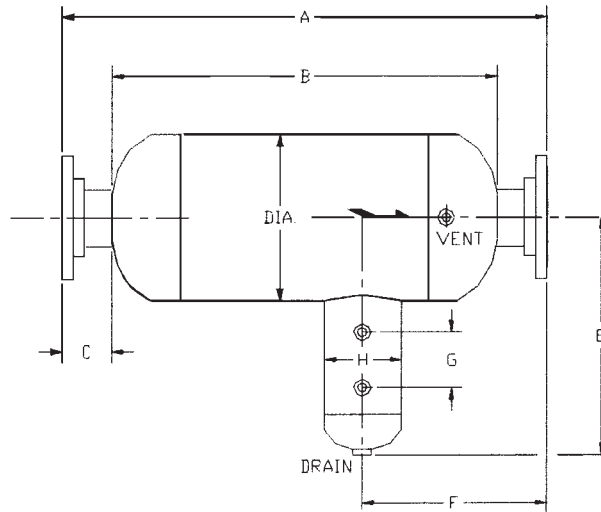
TB No. S3150

Date 1-99

Model "L1S" Separators are designed for horizontal flow installations and are similar to the Model "L1" Separators with the addition of a sump area to allow for a liquid hold-up capacity. If required, the sump area may be lengthened from the standard dimensions shown below to allow for a larger liquid hold-up capacity. The stainless steel Separating Tuyere Diffuser causes the stream to enter a controlled centrifugal flow. Due to the centrifugal motion, entrained liquids and solids are directed to the outer walls of the separator. Re-entrainment breaker plates create a quiet inert zone to prevent liquid from reentering the flow stream once separation has taken place.

With correct sizing and proper drainage, these separators are designed to eliminate 99% of all entrained liquids and particles that are 10 microns and larger in size.

The Model "L1S" Separators can be fabricated from carbon steel or stainless steel and are manufactured in accordance with the ASME Code Section VIII, Division 1.



DIMENSIONS AND WEIGHTS

PIPE SIZE	A	B	C	DIA.	E	F	G	H	NPT DRAIN STD	LIQUID HOLDUP CU. FT.	150# FLANGED	300# FLANGED
											DESIGN 150 PSIG @ 450° F WEIGHT	DESIGN 500 PSIG @ 650° F WEIGHT
1 1/2"	20"	15"	2 1/2"	5 9/16"	14"	8 1/2"	6 3/4"	2 3/8"	1"	0.01	43	50
2"	22"	16"	3"	6 5/8"	14 1/2"	9"	6 3/4"	2 7/8"	1"	0.02	53	58
2 1/2"	22"	16"	3"	6 5/8"	14 1/2"	9"	6 3/4"	2 7/8"	1"	0.02	60	68
3"	24"	18"	3"	8 5/8"	16 1/2"	10"	6 3/4"	3 1/2"	1"	0.03	89	102
4"	30"	22"	4"	10 3/4"	17 1/2"	12"	6 3/4"	4 1/2"	1 1/2"	0.07	142	172
5"	34"	26"	4"	12 3/4"	19 1/2"	13"	6 3/4"	5 9/16"	1 1/2"	0.08	209	248
6"	36"	28"	4"	14"	21"	14"	6 3/4"	6 5/8"	1 1/2"	0.13	245	307
8"	46"	36"	5"	16"	24"	16"	7 7/8"	8 5/8"	2"	0.27	402	476
10"	52"	42"	5"	20"	27"	19"	7 7/8"	10 3/4"	2"	0.43	506	826
12"	60"	50"	5"	24"	30"	23"	7 7/8"	10 3/4"	2 1/2"	0.52	699	1207
14"	66"	56"	5"	28"	33"	23"	7 7/8"	12 3/4"	2 1/2"	0.66	1030	1662
16"	74"	64"	5"	30"	35"	24"	7 7/8"	14"	3"	0.83	1150	2671
18"	80"	68"	6"	36"	39"	27"	9 1/8"	16"	3"	1.26	1472	2868
20"	86"	74"	6"	36"	42"	28"	9 1/8"	18"	4" *	1.78	1692	4809
22"	96"	84"	6"	42"	46"	31"	10 1/4"	20"	4" *	2.29	2549	5136
24"	106"	94"	6"	42"	47"	31"	10 1/4"	20"	4" *	2.43	2943	6110

* Flanged Drain