SINCE 1908
wessels company

SUBMITTAL

TYPE: SPA ASME AIR SEPARATOR WITHOUT STRAINER

MODELS: SPA2 TO SPA30

Submittal Sheet No. B-3301

Date: 10/04

JOB

Wessels Representative _____

Unit Tag No. _____

Engineer _____

Contractor _____

Order No. _____ Date _____

Submitted By _____ Date _____

Approved By _____ Date _____

DESCRIPTION

Wessels SPA Vortex type Air Separators eliminate air quickly and efficiently from open and closed loop heating/cooling systems. Water enters and exits through unique "tangential" connections, which promote a low velocity swirling effect in the center of the unit. Natural centrifugal forces allow the heavier air-free water to move towards the outer edges while entrained air is captured within the “eye” of the vortex and released out the top of the separator. The water then exits near the bottom of the unit, bubble free, protecting the system against the noise, corrosion, and damage commonly caused by entrained air.

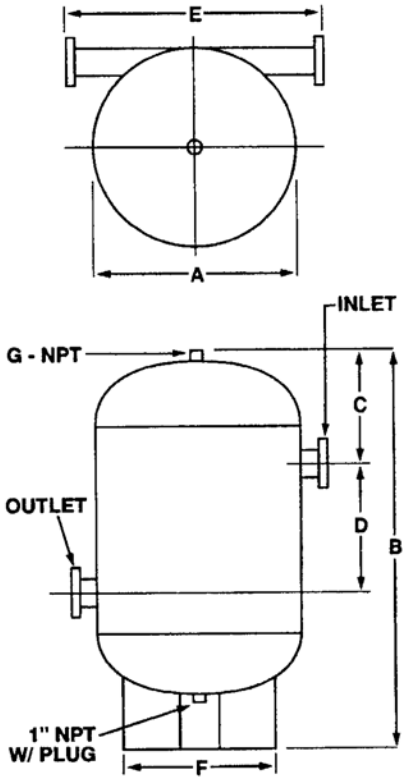
CONSTRUCTION

Shell: Carbon steel
Heads: Carbon steel

PERFORMANCE LIMITATIONS

Maximum Design Pressure: 125 PSIG
Maximum Design Temperature: 450°F

Model Number	Max GPM	Conn. Size	Type	Dimensions in inches							Approx. Lbs.
				A	B	C	D	E	F	G	
SPA 2	56	2	NPT	12	22 1/2	5 1/2	8 1/2	16 5/8	9 1/2	1 1/4	50
SPA 2-1/2	90	2.5	NPT	12	22 1/2	5 1/2	8 1/2	16 5/8	9 1/2	1 1/4	55
SPA 3	190	3	FLANGED	12	22 1/2	5 3/4	8	19 3/4	9 1/2	1 1/4	60
SPA 4	300	4	FLANGED	14	32	9 1/8	10 3/4	21 3/4	11 1/2	1 1/2	90
SPA 5	530	5	FLANGED	14	32	9 1/8	10 3/4	21 3/4	11 1/2	1 1/2	148
SPA 6	850	6	FLANGED	20	44	13 1/4	14 1/2	28	18	2	191
SPA 8	1900	8	FLANGED	20	44	13 1/4	14 1/2	28	18	2	379
SPA 10	3200	10	FLANGED	30	60 1/2	19	20	41	24	2	598
SPA 12	4800	12	FLANGED	30	60 1/2	19	20	41	24	2	947
SPA 14	6100	14	FLANGED	36	78	22	31 1/2	46 3/8	30	2	1680
SPA 16	8000	16	FLANGED	48	108	30	40	60	38	2	2300
SPA 18	9700	18	FLANGED	54	124	33	50	66	44	2	3235
SPA 20	12000	20	FLANGED	60	138	35	60	72	50	2	5100
SPA 22	15000	22	FLANGED	66	150	38	66	78	56	2	6150
SPA 24	18000	24	FLANGED	66	150	38	66	78	56	2	6400
SPA 30	21000	30	FLANGED	72	150	38	66	84	56	2	7300



TYPICAL SPECIFICATION

Furnish and install as shown on plans, a vortex type air separator Model SPA_____sized for_____GPM, with _____” (NPT / Flanged) tangential connections, as manufactured by Wessels Company. The air separator shall be designed in accordance with the latest revisions of the ASME Code for Boilers and Pressure Vessels, Section VIII, Division 1, and shall be constructed and stamped for 125 PSI working pressure @ 450°F. A blowdown connection shall be provided to facilitate routine cleaning of the unit. Each air separator shall be Wessels SPA _____ or approved equal.

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