

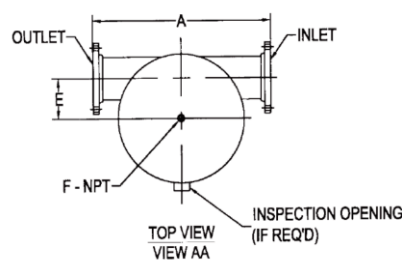
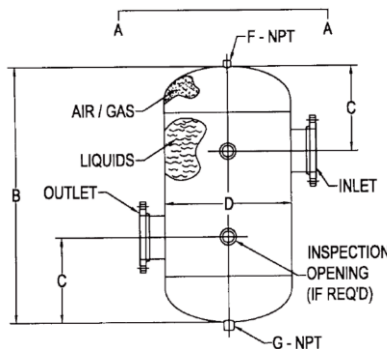
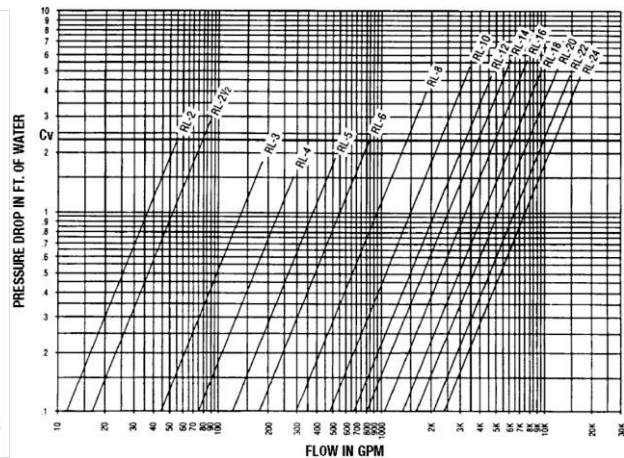
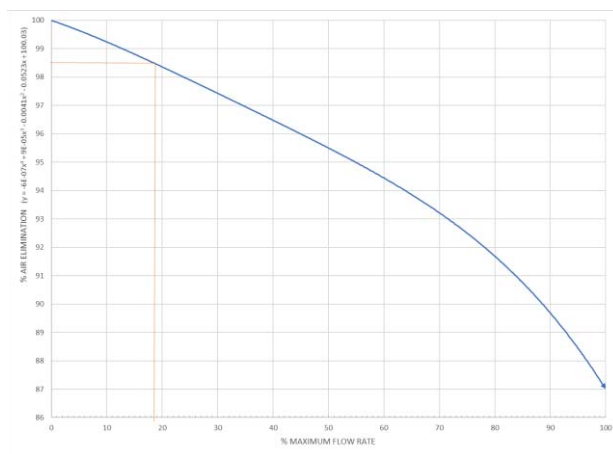
TYPE RL AIR/GAS SEPARATORS

Unlike gas/liquid separators which are designed for separating entrained droplets and particles from a gaseous media such as air, steam or industrial gas, the type AS air separator is designed to de-gas liquids. The most common application for air separators is for removal of entrained air from hot water within HVAC systems to improve energy transfer. They are also installed ahead of centrifugal pump systems to reduce cavitation due to excessive entrained air. They can also be used for industrial liquids and sometimes are an alternative for gas/liquid separator applications which have high percentages of liquid.

The liquid enters the upper nozzle which is mounted tangentially to the separator body, resulting in a centrifugal vortex. The lower outlet is also connected to the vessel tangentially with the heavy liquid propelled to the inner circumference of the vessel and the gas collecting within the center of the vortex, venting from the port atop the separator. Sediment collects at the bottom of the vessel and can be periodically drained for cleaning.

Type AS separators are a fully welded pressure vessel fabricated to ASME Code Section VIII Division 1 with stamp, has no serviceable/moving components, requires zero maintenance. Typically fabricated from rolled plate; standard materials include carbon steel, 304L SS and 316L SS. Customizations include support legs, additional ports and non-flanged connections.

Type AS air separators are sized by comparing the maximum capacity chart with the separation efficiency chart; your flow rate expressed as a percentage of the maximum capacity correlates to the separation efficiency. The gas separation efficiency will be approximately 99% when your liquid flow rate is only 10% of the unit's maximum capacity. Pressure drop across the separator is another sizing factor to consider for some systems.



SIZE	RL-MODEL	
	CAPACITY (GPM)	Cv RATING
2	56	55
2½	90	80
3	190	215
4	300	370
5	530	580
6	850	850
8	1,900	1,445
10	3,600	2,340
12	4,800	3,300
14	6,100	3,900
16	8,000	5,100
18	9,700	6,410
20	12,000	8,000
22	15,000	10,000
24	17,000	11,700

DIMENSIONS (INCHES)								WEIGHT
SIZE	A	B	C	D	E	F	G	(LBS)
2	16⅝	19½	6½	12¾	4 ⁵ / ₁₆	1¼	1	41
2½	16⅝	19½	6½	12¾	4 ¹ / ₁₆	1¼	1	56
3	19¾	19½	6¾	12¾	3¾	1¼	1	59
4	21¾	28	9⅞	14	4¼	1½	2	97
5	21¾	28	9⅞	14	3¾	1½	2	118
6	28	39¾	13¼	20	6¼	2	2	201
8	28	39¾	13¼	20	5 ³ / ₁₆	2	2	299
10	41	58	19	30	9⅞	2	2	563
12	41	58	19	30	8⅞	2	2	647
14	46⅝	75½	22	36	10 ³ / ₁₆	2	2	1325
16	52	93	28½	42	12½	2	2	1350
18	61½	105½	32¼	48	13⅝	2	2	1985
20	66	109	32	54	16	2	2	3180
24	78	130	38	66	19	2	2	5475