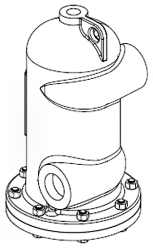
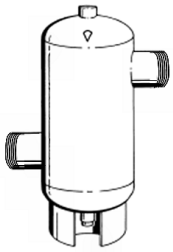
Bell & Gossett
xylem

Submittal
A-326.6I

Job: **Representative:**

Unit tag: _____ Order number: _____ Date: _____
Engineer: _____ Submitted by: _____ Date: _____
Contractor: _____ Approved by: _____ Date: _____





Rolairtrol®

Air separator

NPT less strainer

Air control and elimination

Description

The Rolairtrol air separator is an ASME vessel designed with tangential openings to create a low velocity vortex where air is separated and removed from the circulating water.

- **Maximum working pressure:** 125 PSIG (862 kPa)
- **Temperature adjustment range:** -20°F (-29°C) to +350°F (177°C)

Materials of construction

- **Designed and constructed per ASME Section VIII, Division 1**
- **Body:** Models R-2 and R-2½: Cast iron
- **Shell:** Models R-3: Carbon steel
- **Bottom reducing flange gasket:** Armide fiber (RL-2 and RL-2½ models only)

Consult factory for higher working pressures and temperatures.

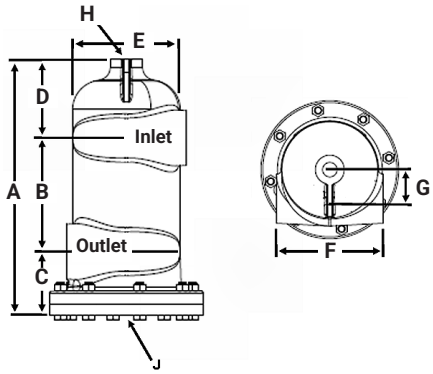
Schedule

Model number	Part number	Capacity	NPT tangential opening	Tagging information	Quantity
		GPM (m^3/hr)	in. (mm.)		
5363-02N-12-002	RL–2N	140 (31.8)	2 (50.8)		
5363-25N-12-002	RL–2-1/2N	180 (40.9)	2-1/2 (63.5)		
5363-03N-12-003	RL–3N	190 (43.1)	3 (76.2)		
5363-03N-12-004	RL–3NB	190 (43.1)	3 (76.2)		

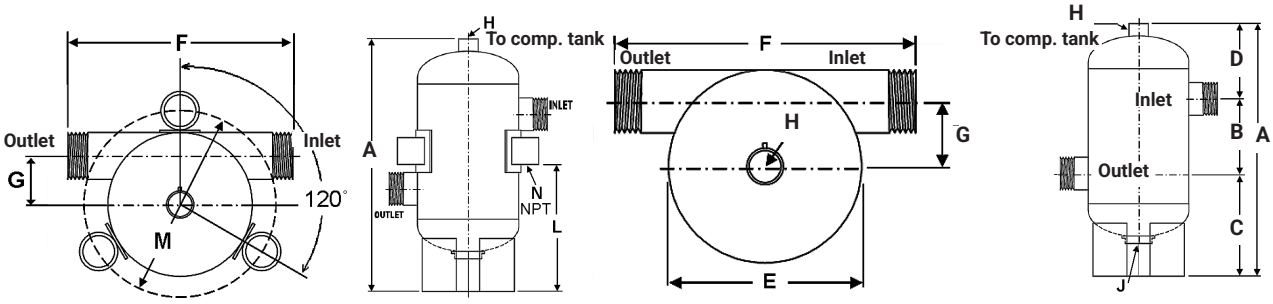
Dimensions and weights

Model number	A	B	C	D	E	F	G	H	J	Cv	Approx. volume	Approx. shpg. wt.	Flood wt. less bracket
	in. (mm.)										gallons (ltrs.)	lbs. (kgs.)	
RL–2N	15-7/8 (403)	7 (179)	4 (102)	4-7/8 (124)	6-5/8 (168)	7-3/8 (187)	2 (51)	1 (25)	1 (25)	92	2 (7.6)	48 (22)	63 (29)
RL–2-1/2N	17-3/8 (441)	7-1/2 (191)	4-1/2 (114)	5-3/8 (137)	8-3/8 (213)	9-3/4 (248)	2-5/8 (67)	1 (25)	1 (25)	125	3 (11.4)	83 (38)	108 (49)
RL–3N (B)	26-7/8 (683)	8 (203)	10-13/16 (275)	8-1/16 (205)	10-3/4 (273)	16-3/4 (426)	3-5/8 (92)	1-1/4 (32)	2 (51)	215	7 (26.5)	65 (30)	120 (54)

Important note: Dimensions are not to be used for construction.



2” and 2½ models without strainer

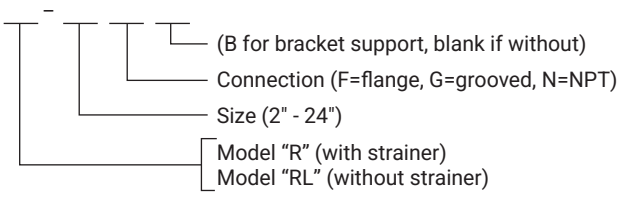


3” models without strainer and optional bracket supports

3” models without strainer

Model number	L	M	N	Weights of brackets
	in. (mm.)			lbs. (kgs.)
RL–3NB	13-3/8 (340)	14 (356)	2 (51)	9 (4)

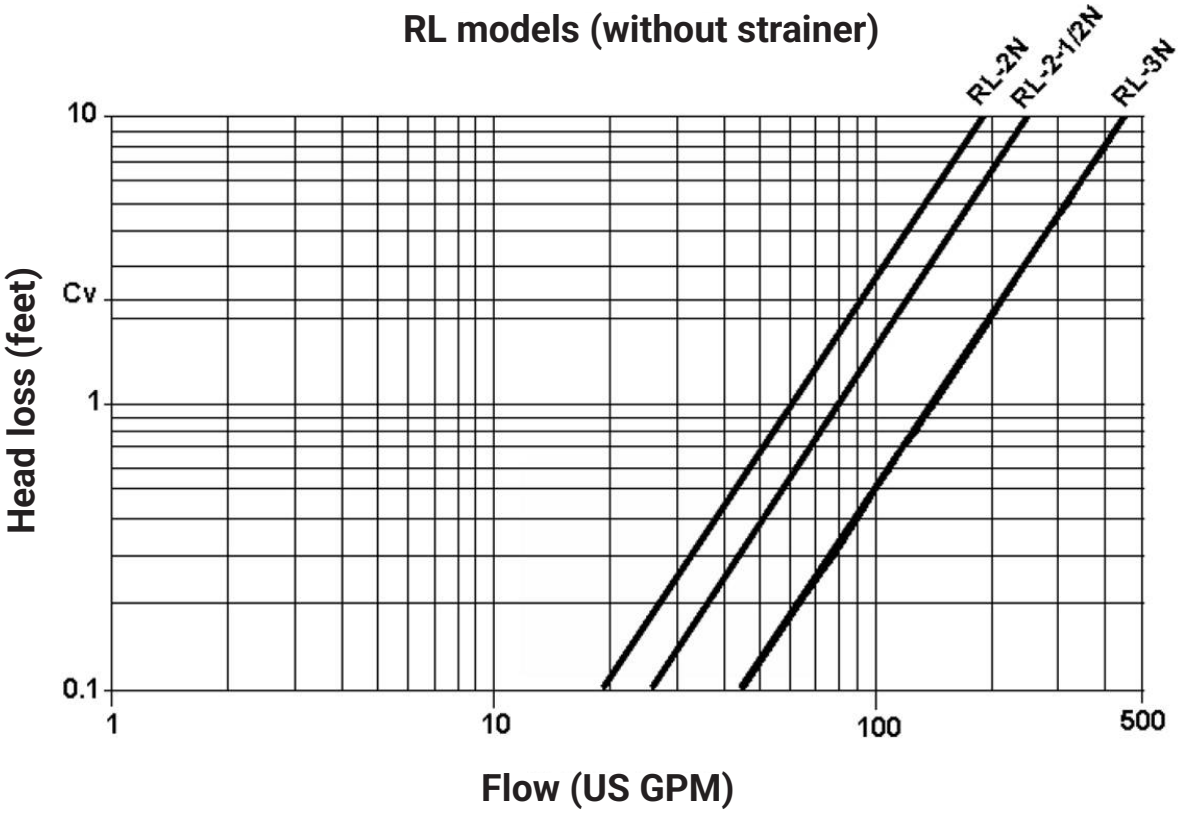
Model numbering



Support notes

1. Lifting lugs are for the transportation and installation of the empty vessel, and are not to be used for complete or partial support of the flood vessel.
2. The RL skirt can support flooded vessel weight.
3. Welding to the pressure vessel boundary will void the ASME stamp.
4. Standard Rolairtrol design up to 12” can be hung from the nozzles using hangers. Optional, factory welded, support brackets are available for an additional cost.

Performance chart



Note: Pressure drops for a range of flow are indicated on this chart. Users should select Rolairtrol using Bell & Gossett published capacity guidance, and ASHRAE pipe sizing recommendations for optimal performance.

Typical Rolairtrol specifications

Furnish and install, as shown on plans, a centrifugal type air separator. The unit shall have ____ " inlet and outlet NPT connections tangential to the vessel shell.

The unit shall have the capability to direct accumulated air to an air vent (air elimination system) via an NPT vent connection at top of unit.

A blowdown connection shall be provided to facilitate routine cleaning of the strainer and the separator. Specify Bell & Gossett Model MBV- 1 Rolairtrol accessory for manual blowdown.

Refer to submittal A-329 for information on the MBV-1 manual blowdown valve.

Vessel shell diameter to be three times the nominal inlet/outlet pipe diameter, with a minimum vessel volume for sufficient velocity reduction.

The air separator must be designed, constructed and stamped for 125 PSIG @ 350°F (862 kPa @ 177°C) in accordance with Section VIII, Division I of the ASME Boiler and Pressure Vessel Code, and registered with the National Board of Boiler and Pressure Vessel Inspectors. The air separator(s) shall be painted with one shop coat of light gray air dry enamel.

A manufacturer's Data Report for Pressure Vessels, Form U-1 as required by the provisions of the ASME Boiler and Pressure Vessel Code, shall be furnished for each air separator upon request.

Each air separator shall be Xylem Bell & Gossett Model no. _____ Rolairtrol air separator for _____ GPM (_____ m^3), shell dia. _____" (_____ mm) and min. vessel volume _____ gal (_____ liters).

Notes

Learn more about Rolairtrol air separators

Xylem Inc. **xylem.com/bellgossett**

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A-326.6I 8/2026

xylem
Let's Solve Water