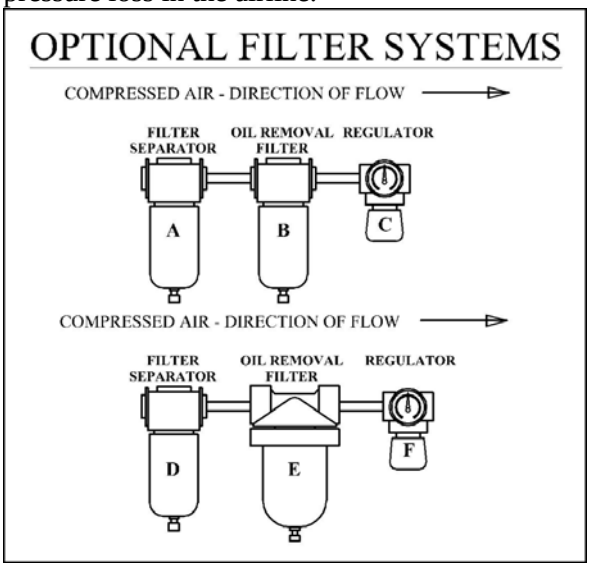
RING VAC ™ AIR OPERATED CONVEYOR INSTALLATION & MAINTENANCE

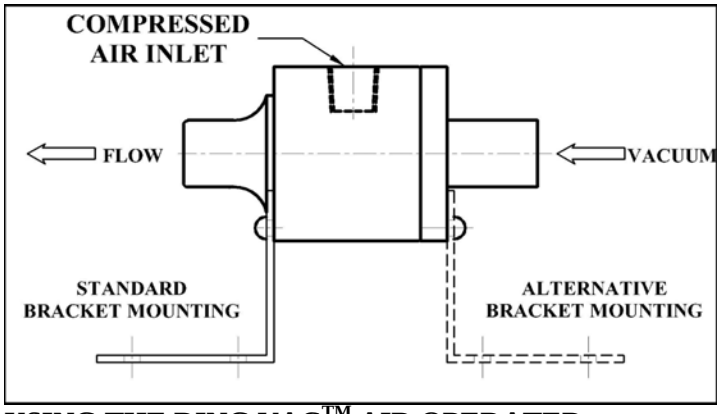
INSTALLATION AND SIZE OF COMPRESSED AIR LINES

Minimize the pressure loss to a Ring Vac™ air operated conveyor by keeping airline sizes adequately large.
For all Ring Vac™ air operated conveyor models use ¼" pipe or 3/8" air hose runs up to 25 feet (7.5Mtrs approx.). For 50 feet (15 Mtrs approx.) runs, use 3/8" pipe or ½" hose and for runs over 50 feet (15 Mtrs approx.), use ½" pipe or larger. Never use fittings that can be "restrictive" thereby starving the Ring Vacs of air and creating a large pressure loss in the airline.



CARE OF THE COMPRESSED AIR SUPPLY

Because Ring Vac™ air operated conveyors utilize a small "gap" for the air outlet, it is important to keep the airline free of moisture, oil and dirt. Ring Vac™ air operated conveyor can run maintenance free for many years using proper filtration
For water removal, a minimum 0.03 micron filter complete with an automatic (float type) drain is recommended. The diagram above (labeled A for small units and D for larger or a series of units) shows a typical installation for a water removal filter, optional oil removal filter and optional regulator. All filters should be sized to handle the total air flow of the Ring Vac ™ air operated conveyors at the pressure they
If oil might be a concern, an oil removal filter (labeled B for small units and E for larger units) should be added as shown and have an automatic (float type) drain. Filters should be mounted near any Ring Vac ™ air operated conveyer, typically within 30 to 35 feet (9 – 11 Mtrs approx.).



USING THE RING VAC™ AIR OPERATED CONVEYING SYSTEM, CONTROLLING FORCE AND THE CONSERVATION OF AIR

Ring Vac™ air operated conveyor can be mounted by using a clamp or, by using mounting holes already on the units. The mounting holes are normally located on the outlet side of the entrained airflow. However, the bolts may be removed and turned around to use the mounting holes on the inlet side instead. Mounting brackets are also available (as shown in the diagram) that can be attached to the mounting holes. For extra strength the bolts may be removed and mounting brackets attached on both the inlet and outlet sides.
Ring Vac™ air operated conveyors are manufactured in different sizes to be used with standard hose or tube.
They perform best when hose or tube can be attached at both ends of the unit. Keep hose or tube straight if possible with bends minimized to keep backpressure at a minimum. Ring Vac™ air operated conveyors operate by having compressed air flow through the inlet into an annular plenum chamber where it is then injected through the center using carefully directed nozzle openings. This airflow creates a vacuum at the inlet end that draws in material to "accelerate" its movement through the Ring Vac™ air operated conveyer allowing it to be carried for long distances, either horizontal or vertical.
To decrease flow rates, a regulator (labeled C for smaller units and F for larger units or a series of systems) may be added and simply reduce the pressure to control the rate of flow required.

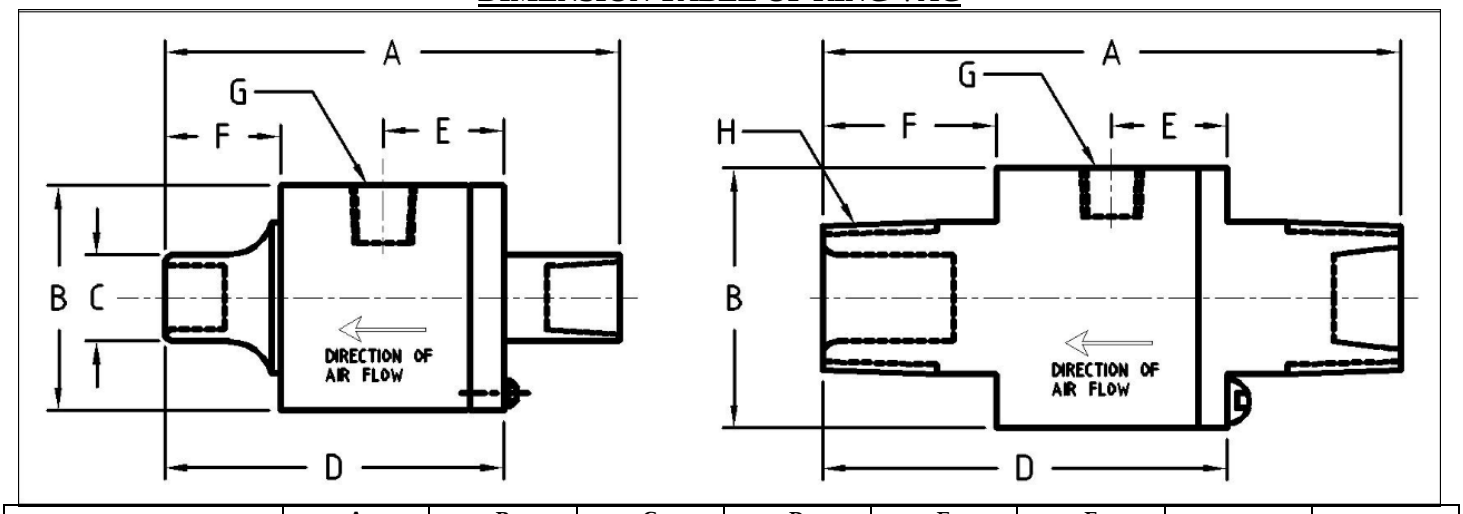
CLEANING AND TROUBLESHOOTING

If the Ring Vac™ air operated conveyer does get clogged from contamination, simply dismantle the unit, clean, and re-assemble. When re -assembling, make sure that the holes of the "flow generating unit" point to the flow outlet end. At times a buildup of dirty film can occur on the throat of the unit due to vapour in the surrounding atmosphere. Clean this surface using a mild solvent and

CONTD. PAGE 2 →

clean rag. To prevent contaminants from getting pushed back into the nozzle openings do the cleaning with a small amount of compressed air passing through the Ring Vac ™ air operated conveyer.
Certain factors can cause a reduction in flow or vacuum and thereby reducing the performance of a Ring Vac ™ air operated conveyer. If the vacuum or flow seems to be below normal, install a pressure gage near the inlet of the Ring Vac™ air operated conveyer. If the pressure is low, it may be due to undersized airlines, perhaps restrictive fittings, or from clogged filter elements. These things should be checked, in particular the fittings used and the filter elements.

DIMENSION TABLE OF RING VAC



Model	A Inches (MM)	B Inches (MM)	C Inches (MM)	D Inches (MM)	E Inches (MM)	F Inches (MM)	G INLET	H
30000, 30000S, 30000HTS, 30000S-316L, 30000HTS-316L	4" (100)	1.9" (48.25)	0.75" (19)	2.9" (74.6)	1.06" (27)	1" (25.4)	1/4" NPT INLET	3/4" NPT
30001, 30001S, 30001T 30001TS, 30001HTS 30001THTS, 30001S-316L 30001HTS-316L	4.9" (124.5)	2.25" (57.15)	1" (25.4)	3.5" (88.9)	1" (25.4)	1.5" (38.1)	1/4" NPT INLET	1" NPT
30002, 30002S, 30002T 30002TS, 30002HTS 30002THTS, 30002S-316L 30002HTS-316L	4.9" (124.5)	2.5" (63.5)	1.25" (31.75)	3.5" (88.9)	1" (25.4)	1.5" (38.1)	1/4" NPT INLET	1-1/4" NPT
30003, 30003S, 30003T 30003TS, 30003HTS 30003THTS, 30003S-316L 30003HTS-316L	4.9" (124.5)	2.75" (69.85)	1.5" (38.1)	3.5" (88.9)	1" (25.4)	1.5" (38.1)	3/8" NPT INLET	1-1/2" NPT
30004, 30004S, 30004T 30004TS, 30004HTS 30004THTS, 30004S-316L 30004HTS-316L	4.9" (124.5)	3.2" (81.3)	2" (50.8)	3.5" (88.9)	0.88" (22.35)	1.5" (38.1)	3/8" NPT INLET	2" NPT
30005, 30005S, 30005S-316L	5.35" (136)	3.9" (100)	2.5" (63.5)	3.9" (100)	0.88" (22.35)	1.5" (38.1)	3/8" NPT INLET	-
30006, 30006S, 30006TS, 30006HTS, 30006THTS,30006S-316L 30006HTS-316L	5.6" (142.25)	4.3" (109.2)	3" (76.2)	4" (101.6)	1.15" (29.2)	1.58" (40.1)	1/2" NPT INLET	3" NPT

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Updated: June 2015