

The Inflation, Evacuation & Emergency Deployment Leaders



Aspirator

- > Aspirator mixes compressed gas and atmospheric air to inflate evacuation devices more quickly and efficiently
- > 3-D printed fabrication of main valve body
- > Extremely light weight compared to metal fabrication
- > Bundled solutions including valves, hoses & accessories
- > For bizjet, rotorcraft, commercial & military aerospace, civil aviation, & marine applications

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Technical Specifications



Survival Solutions

Weight	0.75 lb
Length *	8.60 in
Outlet Diameter *	2.24 in
Inlet Mating Connection *	9/16-18 UNJF-3A (-6 JIC)
Temperature Range	-67°F to +230°F (-55°C to +110°C)
Material *	Body: Nylon 11 Sealing: Silicone
Max Supply Pressure	>2700 psi
Proof Pressure	>40 psi
Leakage at Proof Pressure	Zero Apparent

*Additional materials, sizes and geometric configurations available upon request

Features:

- > Single Seal designed for optimal cold temperature performance
- > Unobstructed center conduit allows for maximized ambient air draw and laminar flow
- > Low-profile side-mounted inlet port
- > Robust design
- > Caged rear back plate and zero-leak seal prevents drainage after inflation
- > Manufacturing process allows for customization of various valve shapes and sizes without the added costs of configuration-specific tooling
- > Volumetric flow rates greater than 6 times that of a non-aspirated configurations are readily obtainable
- > Considerations can be made to achieve desired volumetric flow rate and/or conservation of supply pressure for any application

Aspirators are used for emergency device deployment such as life rafts, emergency slides, and other flotation devices. This unique aspirator is an ejector-jet pump which mixes compressed gas and atmospheric air in an exhaust port that allows for rapid inflation of the evacuation device.

The CIRCOR Aerospace, Inc. patent-pending aspirator is based on simplified manufacturability, and improved robustness and quality. The entire construction is fabricated via 3-D printing – a single piece eliminates the need for machining, brazing or welding techniques of conventional aspirators.

This new construction technique has additional benefits: the product is extremely light weight, decreased inflation time, and the inflatable device requires less high pressure inflation gas.