



PPS102 / SPV241

INFLATION SYSTEM

Squib Operated / Fast Response



 **MAROTTA®**

We're in Control

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Squib Operated / Fast Response

Valve and Bottle System

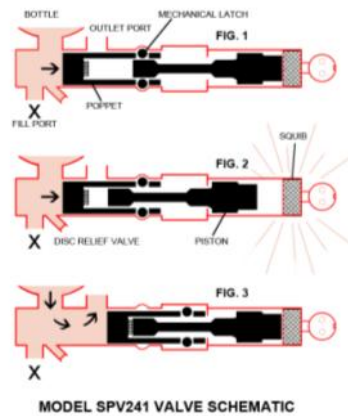


The unobstructed orifice opening of the valve ensures a fast and consistent discharge rate, making this system suitable for helicopter flotation systems, emergency deployment of aircraft landing gear, and life raft inflation.

The Marotta PPS102 Valve and Bottle System consists of a squib operated, 2-way aluminum valve and a fiberglass wound pressure vessel. Standard model operates at 3000 psig and incorporates a pressure disc relief valve as well as a fill port.

Operating Description

In the power off position, Fig. 1, the outlet port is blocked by the poppet which is mechanically held in the closed position. The force generated by the squib cartridge firing, Fig. 2, moves the piston inward allowing the mechanical latch to be released. Without resistance, bottle pressure, Fig. 3, can now move the poppet to the full open position. This provides an unobstructed passage from the bottle to outlet. The valve can be reused by simply resetting and replacing the squib actuator.



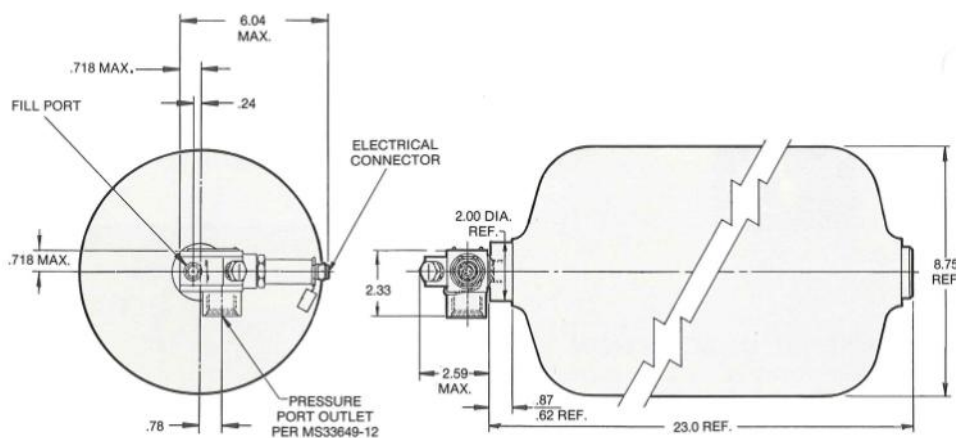
Model	PPS102/SPV241
Part Number	283638-0001, 283637-0001
Pressure Range	3000 psig
Service	Air, Nitrogen, Helium
Outlet Tube Size	3/4 inch or made to order
Electrical	24 VDC, Fire current 5.0 AMPS
Capacity	Equivalent Sharp Edge Orifice Diameter 0.54 inch (Cd=0.6)
Valve Body Material	Aluminum
Trim	Chrome Nickel Alloy
Seals	Synthetic Rubber
Weight	<17 lbs. (775 cu. in. bottle size)

Note: Special requirements or materials quoted on request i.e. charge valves, gauges, thermal relief solenoid or manual actuation.

Features:

- Unobstructed Valve Opening
 - Fast Discharge Time
 - Reusable
 - Latch Open
 - Available in either squib or pneumatic actuated models*
- * Please contact us for more information regarding our pneumatic operated models.

INSTALLATION - PPS102/SPV241



MAROTTA®

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WHEN IT COMES TO
SPECIALTY FLUID CONTROLS
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