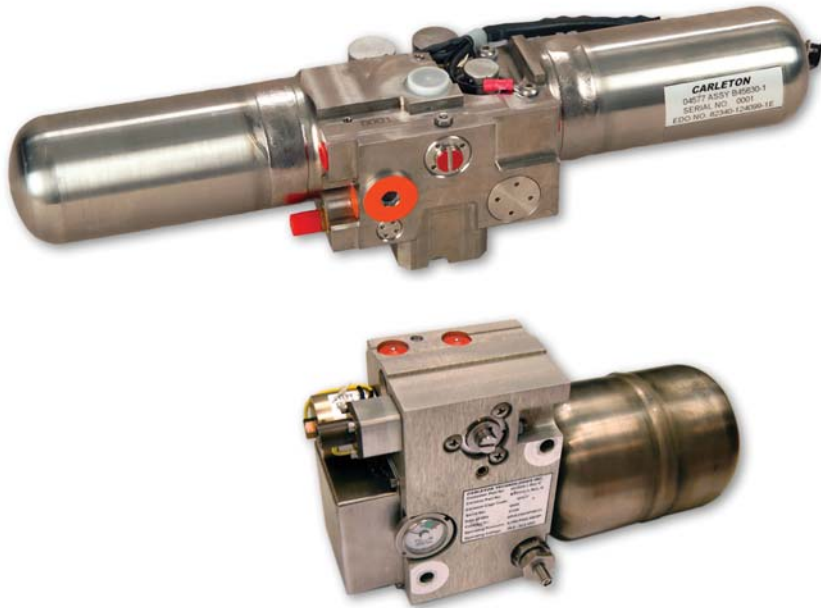




## Military Aircraft Systems PNEUMATIC POWER MODULES



- Up to 6,000 psig, Nitrogen or dry air
- Ejects 2,000 lb weapon store
- 500 ejections without periodic maintenance
- 30 year lifespan

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### **Application:**

The Carleton family of pneumatic power modules provide pneumatic energy sources to successfully unlock weapon release linkages and extend ejector pistons of bomb ejection systems on a variety of military aircraft.

### **Features:**

All pneumatic power modules feature a cold gas deployment with nominal pressures up to 6,000 psig. This pneumatic power comes from either stored gas or compressor fed sources utilizing Nitrogen or dry air. All Carleton modules are designed for an operating life of 30 years or 500 actuations.

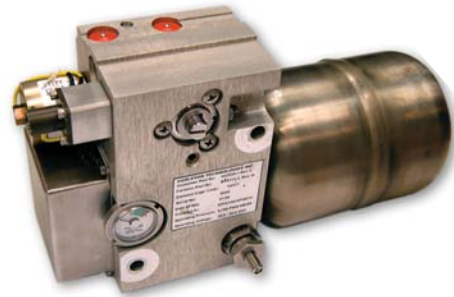
Electro-pneumatic activation is initiated via signal conditioning or by direct connection to aircraft, depending on design requirements. Operating voltage ranges from 20 to 32 VDC. System can be temperature compensated if required by design parameters. Filling is done via a MS28889-2 fill valve or by using a Rosan fitting. Electrical connections are designed to match customer and aircraft requirements.

# SPECIFICATIONS

# Power Modules



Pneumatic Power Module



Release Pneumatic Energy System

### *Specifications:*

<b>Medium</b>	Nitrogen, Dry air
<b>Operating Pressure</b>	up to 6,000 psig @ 70 F (414 bar)
<b>Source of Gas</b>	Stored Gas, Compressor Fed, Design Dependent
<b>Weight</b>	Design Dependent
<b>Operating Life</b>	30 years / 500 actuations
<b>Activation</b>	Electro-pneumatic
<b>Operating Voltage</b>	20 to 32 VDC

### *Operating Environment:*

<b>Temperature</b>	-70 to 220 deg F (-56 to 104 deg C)
<b>Humidity</b>	0 to 100%
<b>Vibration</b>	42 Grms, Design Dependent

### *Product Interfaces:*

<b>Fill Valve</b>	MS28889-2, Rosan Fitting, Design Dependent
<b>Electrical Connector</b>	Amphenol TW7A35PTN, 15-pin Positronics D-Subminiature, Design Dependent