

Pneuma-Cel[®]

www.pneuma-cel.com

PLUG 'N PLAY INFLATABLE BLADDERS

A Different Way to Handle Common Clamping and Actuating Problems

Pawling Engineered Products has standardized its Pneuma-Seal[®] line of custom inflatable elastomeric bladders to simplify the design, fabrication, and purchase of devices requiring pneumatic actuation or clamping. Believed to be the first line of standard inflatable rubber bladders readily available, Pneuma-Cel is designed for repeated use. The EPDM base material is a high quality compound and is used in many of our custom applications. Typical applications for Pneuma-Cel include:



- Firmly clamping two pieces together during bonding applications
- Holding pieces in place during cutting operations
- Actuating switching devices
- Clamping large pharmaceutical bottles on a conveyor line

Why Use Pneuma-Cel Instead of a Standard Actuator?

- Allows for soft, conformal clamping of delicate and/or irregularly-shaped parts
- Generates variable force (in excess of 200 lbs-force) depending upon designed gap and pressure (see back for more details)
- Easy to install
- Simply designed - just plug into an air-line and you are in business
- Quick delivery with typical turnaround times of less than 3 days



Pneuma-Cel is readily available in three different sizes (6", 9", and 12") with a 6" long flexible stem valve connection terminated with a 1/8" - 27 NPT fitting. See back or technical drawings for more design details.

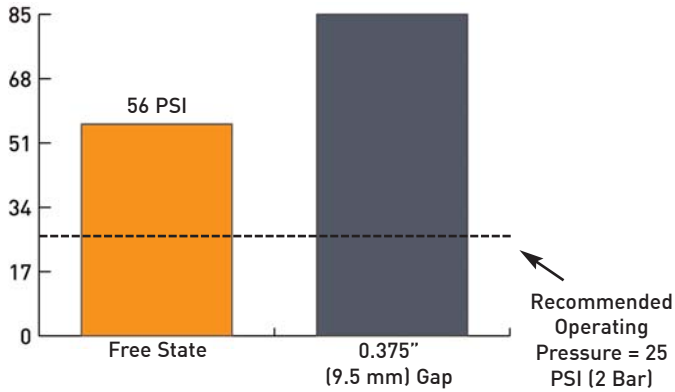
Pawling Corporation
157 Charles Colman Boulevard
Pawling, New York 12564-1193

Tel (845) 855-1000
Fax (845) 855-1139
West Coast: (949) 475-9842
E-Mail: epdinfo@pawling.com
www.pawling.com

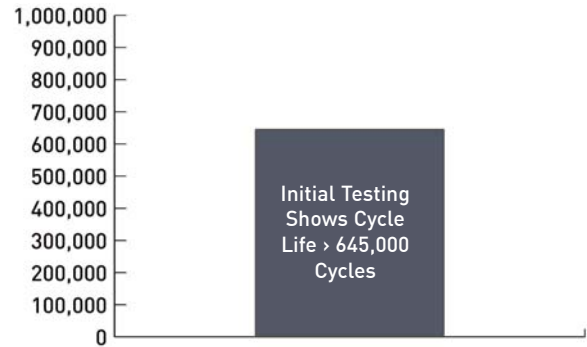


Pneuma-Cel[®]

Burst Pressure Data

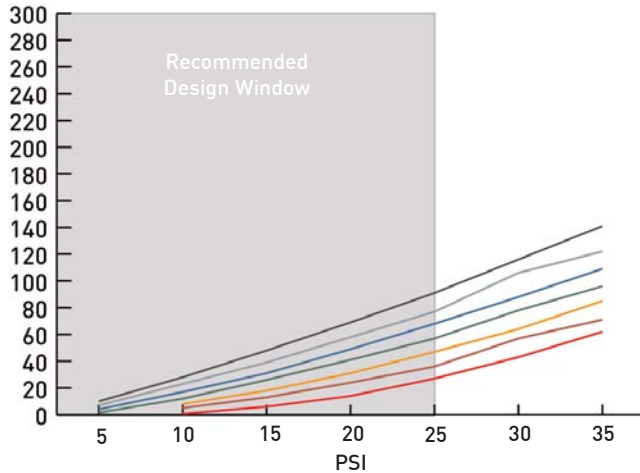


Initial Cycle Life Testing

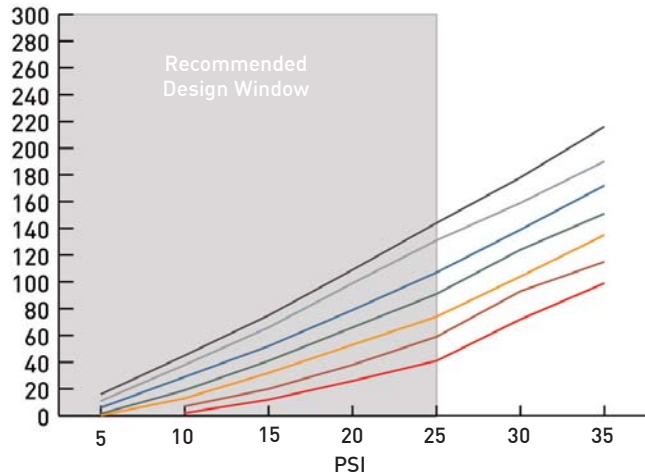


Lbs-Force Data

6" Pneuma-Cel



9" Pneuma-Cel



12" Pneuma-Cel

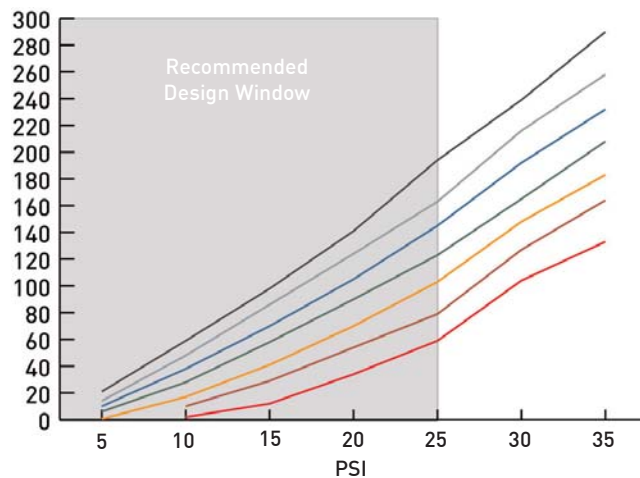


Chart Legend	
Designed Gap	
Black	0.000" (No Gap)
Blue	0.063" (1.6 mm)
Teal	0.125" (2.3 mm)
Green	0.187" (3.9 mm)
Orange	0.250" (5.5 mm)
Brown	0.313" (7.1 mm)
Red	0.375" (8.7 mm)

All information supplied by or on behalf of Pawling Corporation in relation to its products, whether in the nature of data, recommendations or otherwise, is believed reliable, but Pawling Corporation assumes no liability whatsoever in respect of application, processing or use made of the information, or any consequences thereof.