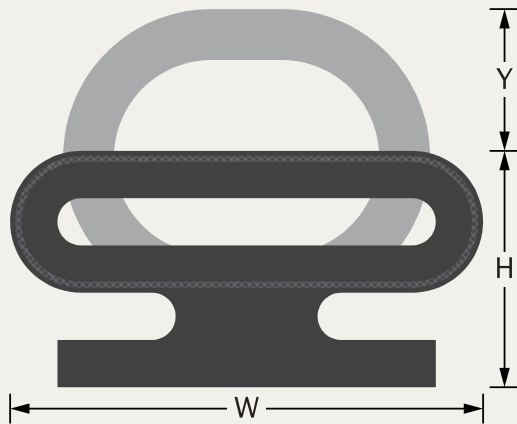




The PRS580 molded, fabric-reinforced inflatable profile is one of our more popular designs and is available in many different types of materials and configurations. This cross-section is designed for ease of mechanical retention (see retainer tab), and its footed profile allows the bulb portion to cover a fairly large gap.

Drawings [PDF](#) [DWG](#) [SAT](#)

Profile Details

Style S (Smooth)

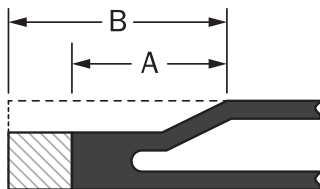
Dimensions

Width (W)		Height (H)		Gap (Y)	
in	mm	in	mm	in	mm
1.250	31.75	0.625	15.875	0.375	9.525

Standard Operating Pressure

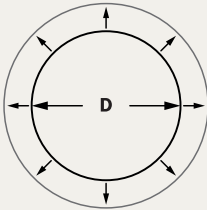
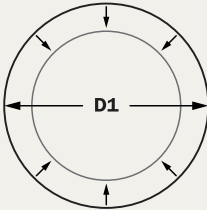
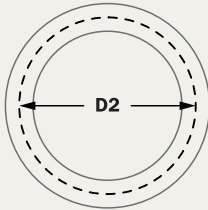
Minimum		Maximum	
psi	bar	psi	bar
20.00	1.379	45.00	3.103

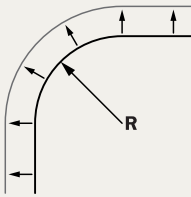
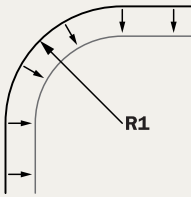
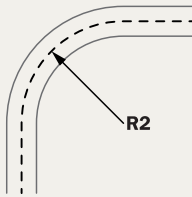
Boot Dimensions and Minimum Straight Length



	in	mm
Boot Dimension A	1.120	28.448
Boot Dimension B	3.120	79.248
Minimum Straight Length	4.000	101.600

Minimum Dimensions for Radial and Axial Expansion

 Radial Expansion Out (D is constant)		 Radial Expansion In (OD is constant)		 Axial Expansion (CL is constant)	
8.000 in	203.2 mm	14.000 in	355.6 mm	8.000 in	203.2 mm

 Radial Expansion Out (D is constant)		 Radial Expansion In (OD is constant)		 Axial Expansion (CL is constant)	
3.500 in	88.9 mm	7.000 in	177.8 mm	2.500 in	63.5 mm

Materials

Standard Materials

<u>E603A (C/U)</u>	60 Durometer EPDM for High Quality, High Flex Life Applications (For All Configurations)
<u>E6A53 (C/U)</u>	60 Durometer Black FDA-Compliant EPDM With Excellent Flex Life (For All Configurations)

Special Materials (Special Setup Charges May Apply)

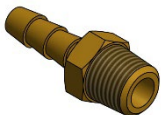
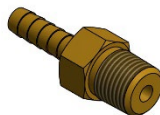
<u>36B07 (C/U)</u>	60 Durometer High Quality Black Neoprene (For All Configurations)
<u>47A09 (C/U)</u>	60 Durometer Nitrile Designed for Chemical Resistance and High Cycle Life (For All Configurations)
<u>S55202 (C)</u>	55 Durometer Gray, FDA-Compliant Silicone Molding Compound (For All Configurations)

Air Connectors

AC2 Reinforced Hose with Crimped Ferrule Adapter

**TYPE1.AC2***Base Reinforced Hose Detail*[PDF](#)**TYPE1.AC2E***End Reinforced Hose Detail*[PDF](#)

ACFIT Hose Fittings

**PI KF03-02 PS***Male 1/8-27 NPT Fitting*[PDF](#)**PRV24375.001***R1/8-28 BSPT Fitting*[PDF](#)

Retainers



PR4009
One-Piece Retainer

[PDF](#)



PRS287-SS
Z-Clip

[PDF](#)



PR9494
Two-Piece Retainer

[PDF](#)

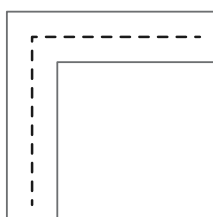


PR36490
*Retainer Groove Dimensions for
PRS580*

[PDF](#)

Tooling

SQR

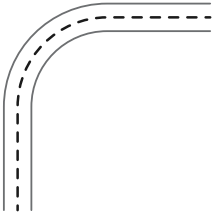


90 Degree Square Corner Molds for Axial Expansion

PRS580-SQR-0

Square corners for axial expansion

90RCL



90 Degree Radiused Corner Molds for Axial Expansion. Used with straight legs to mold seal

PRS580-90RCL-250

2.50" (63.50 mm) axial expansion radiused corners. Range of use = 1.875" (47.63 mm) to 3.250" (82.55 mm) centerline

PRS580-90RCL-400

4.00" (101.60 mm) axial expansion radiused corners. Range of use = 3" (76.20 mm) to 6" (152.40 mm) centerline

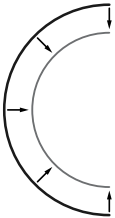
PRS580-90RCL-812

8.125" (206.38 mm) axial expansion radiused corners. Range of use = 7" (177.80 mm) to 10" (254 mm) centerline

PRS580-90RCL-881

8.8125" (223.84 mm) axial expansion radiused corners. Range of use = 8" (203.20 mm) to 10" (254 mm) centerline

180IN



180 Degree Molds for Expansion Inward. Used with straight legs to mold seal

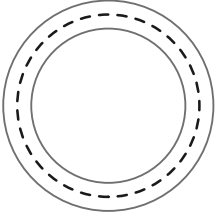
PRS580-180IN-475

7.75" (120.65 mm) for inflation inward ovals and circles. Minimum circular size is 9.5" (241.30 mm) OD

PRS580-180IN-825

8.25" (209.55 mm) for inflation inward ovals and circles. Minimum circular size is 16.5" (419.10 mm) OD

360CL



360 Degree Circular Molds for Axial Expansion

PRS580-360CL-625

6.25" (158.75 mm) axial expansion circular mold (CL)

PRS580-360CL-944

9.44" (239.78 mm) axial expansion circular mold (CL)

PRS580-360CL-950

9.50" (241.30 mm) axial expansion circular mold (CL)