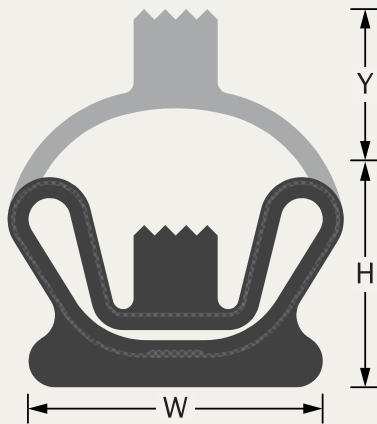




PRS581 is one of our most popular molded, reinforced profiles and is available in many different types of materials and configurations. This cross-section is designed to snap into a mating retention system (see retainer tab) and can cover a large gap over a relatively narrow profile width.

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

Profile Details

Style B (Beaded)

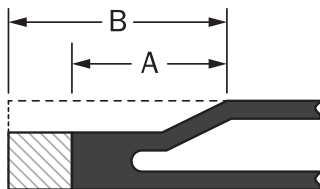
Dimensions

Width (W)		Height (H)		Gap (Y)	
in	mm	in	mm	in	mm
0.687	17.4498	0.437	11.0998	0.125	3.175

Standard Operating Pressure

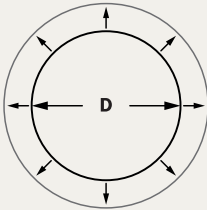
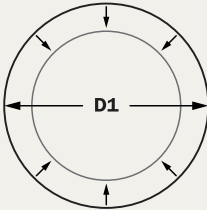
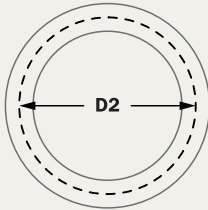
Minimum		Maximum	
psi	bar	psi	bar
15.00	1.034	30.00	2.069

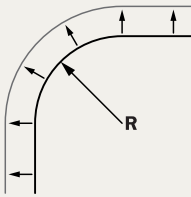
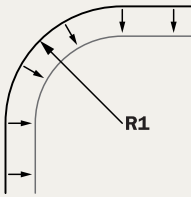
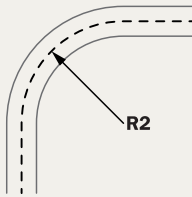
Boot Dimensions and Minimum Straight Length



	in	mm
Boot Dimension A	0.875	22.225
Boot Dimension B	2.375	60.325
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)	
3.000 in	76.2 mm	6.000 in	152.4 mm	4.000 in	101.6 mm

 Radial Expansion Out (D is constant)		 Radial Expansion In (OD is constant)		 Axial Expansion (CL is constant)	
1.500 in	38.1 mm	3.000 in	76.2 mm	2.000 in	50.8 mm

Materials

Standard Materials

<u>E6A53 (C)</u>	60 Durometer Black FDA-Compliant EPDM With Excellent Flex Life (For Straight and Radial Expansion In/Out Seals)
<u>S60402 (C)</u>	60 Durometer Red. FDA Compliant Silicone Designed for High Cycle Life (For Straight and Radial Expansion In/Out Seals)

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>E603A (C/U)</u>	60 Durometer EPDM for High Quality, High Flex Life Applications (For All Configurations)
<u>S60402 (U)</u>	60 Durometer Red. FDA Compliant Silicone Designed for High Cycle Life (For Axial Seals)
<u>VT606 (C/U)</u>	60 Durometer Black Fluoroelastomer, Highly Chemical Resistant (For All Configurations)
<u>E6A53 (U)</u>	60 Durometer Black FDA-Compliant EPDM With Excellent Flex Life (For Axial Seals)

Air Connectors

AC1 Non-Reinforced Flexible Hose Connector



TYPE3.AC2

Base Reinforced Hose Detail

[PDF](#)

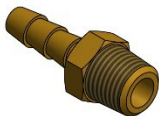


TYPE3.AC2E

End Reinforced Hose Detail

[PDF](#)

ACFIT Hose Fittings



PI KF03-02 PS

Male 1/8-27 NPT Fitting

[PDF](#)

AC14 Threaded End Connections

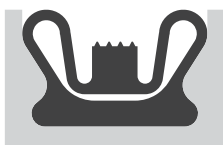


TYPE3.AC14E.PR8426.904

End Connector

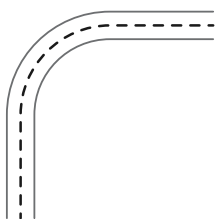
[PDF](#)

Retainers

**PR30070***Machine Groove Dimensions*[PDF](#)**PR3406***One-Piece Snap In Retainer***PR3073***Rubber Retainer*[PDF](#)

Tooling

90RCL



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

PRS581-90RCL-700

7" (177.80 mm) axial expansion radiused corners. Range of use = 6" (152.40 mm) to 9" (228.60 mm)

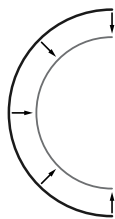
PRS581-90RCL-250

2.5" (63.50 mm) axial expansion radiused corners. Range of use = 2" (50.40 mm) to 4" (101.60 mm)

PRS581-90RCL-343

3.43" (87.12 mm) axial expansion radiused corners. Range of use = 3" (76.20 mm) to 5" (127 mm)

180IN



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

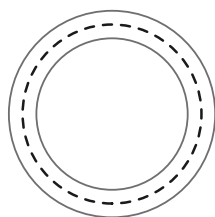
PRS581-180IN-443

4.43" (1125.52 mm) for axial expansion ovals and circles. Minimum circular size is 8.875" (225.42 mm) CL

PRS581-180IN-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

PRS581-360CL-600

6" (152.40 mm) axial expansion circular mold (CL)

PRS581-360CL-606

6.06" (153.92 mm) axial expansion circular mold (CL)

PRS581-360CL-700

7" (177.80 mm) axial expansion circular mold (CL)

PRS581-360CL-850

8.5" (215.90 mm) axial expansion circular mold (CL)

PRS581-360CL-909

9.09" (230.88 mm) axial expansion circular mold (CL)