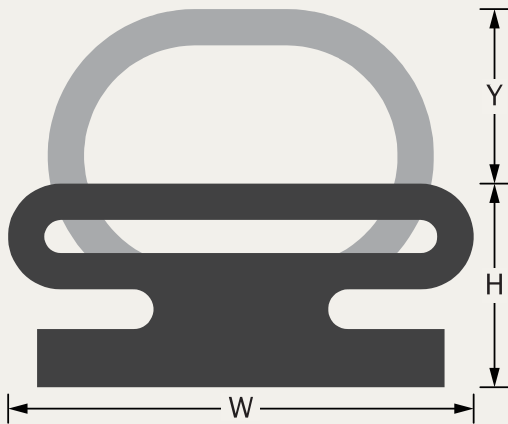




PRS535 is one of our most popular extruded profiles and is available in many different types of materials and configurations. This cross-section is designed for ease of mechanical retention (see retainer tab), and its footed profile allows the bulb portion to cover a fairly large gap.

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

## Profile Details

**Style** S (Smooth)

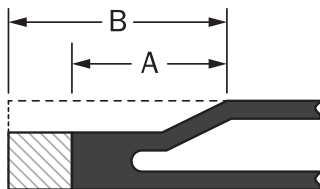
### Dimensions

| Width (W) |      | Height (H) |        | Gap (Y) |       |
|-----------|------|------------|--------|---------|-------|
| in        | mm   | in         | mm     | in      | mm    |
| 2.000     | 50.8 | 0.875      | 22.225 | 0.750   | 19.05 |

### Standard Operating Pressure

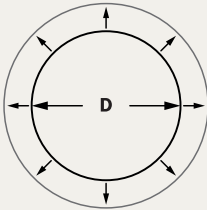
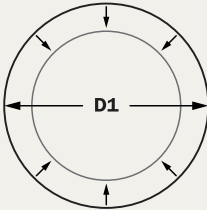
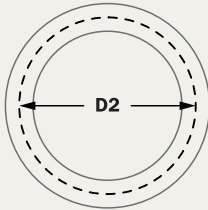
| Minimum |       | Maximum |       |
|---------|-------|---------|-------|
| psi     | bar   | psi     | bar   |
| 10.00   | 0.690 | 25.00   | 1.724 |

### Boot Dimensions and Minimum Straight Length

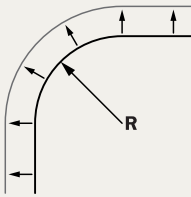
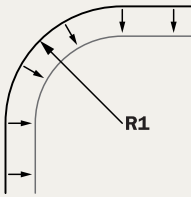
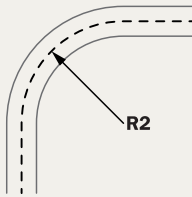


|                         | in    | mm      |
|-------------------------|-------|---------|
| Boot Dimension A        | 1.187 | 30.150  |
| Boot Dimension B        | 2.250 | 57.150  |
| Minimum Straight Length | 6.000 | 152.400 |

## Minimum Dimensions for Radial and Axial Expansion

|                                                                                                                                          |          |                                                                                                                                          |          |                                                                                                                                        |          |
|------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------|----------|
|  <p><b>Radial Expansion Out</b><br/>(D is constant)</p> |          |  <p><b>Radial Expansion In</b><br/>(OD is constant)</p> |          |  <p><b>Axial Expansion</b><br/>(CL is constant)</p> |          |
| 8.000 in                                                                                                                                 | 203.2 mm | 23.500 in                                                                                                                                | 596.9 mm | 9.000 in                                                                                                                               | 228.6 mm |

|                                                                                                                                          |          |                                                                                                                                          |           |                                                                                                                                        |          |
|------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------|----------|
|  <p><b>Radial Expansion Out</b><br/>(D is constant)</p> |          |  <p><b>Radial Expansion In</b><br/>(OD is constant)</p> |           |  <p><b>Axial Expansion</b><br/>(CL is constant)</p> |          |
| 4.000 in                                                                                                                                 | 101.6 mm | 11.750 in                                                                                                                                | 298.45 mm | 4.500 in                                                                                                                               | 114.3 mm |

## Materials

### Standard Materials

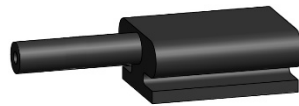
|                                    |                                                                                                                               |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <u><a href="#">36B07 (C)</a></u>   | 60 Durometer High Quality Black Neoprene<br>(For Straight and Radial Expansion In/Out Seals)                                  |
| <u><a href="#">47A09 (C)</a></u>   | 60 Durometer Nitrile Designed for Chemical Resistance and High Cycle Life<br>(For Straight and Radial Expansion In/Out Seals) |
| <u><a href="#">E603A (C)</a></u>   | 60 Durometer EPDM for High Quality, High Flex Life Applications<br>(For Straight and Radial Expansion In/Out Seals)           |
| <u><a href="#">E6A53 (C/U)</a></u> | 60 Durometer Black FDA-Compliant EPDM With Excellent Flex Life<br>(For All Configurations)                                    |
| <u><a href="#">S60402 (C)</a></u>  | 60 Durometer Red. FDA Compliant Silicone Designed for High Cycle Life<br>(For Straight and Radial Expansion In/Out Seals)     |

## Special Materials (Special Setup Charges May Apply)

|                                   |                                                                                                                      |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <a href="#"><u>36B07 (U)</u></a>  | 60 Durometer High Quality Black Neoprene<br>(For Axial Seals)                                                        |
| <a href="#"><u>47A09 (U)</u></a>  | 60 Durometer Nitrile Designed for Chemical Resistance and High Cycle Life<br>(For Axial Seals)                       |
| <a href="#"><u>E6A25M (C)</u></a> | 60 Durometer Black EPDM Designed Primarily for Long Length Seals<br>(For Straight and Radial Expansion In/Out Seals) |
| <a href="#"><u>S60402 (U)</u></a> | 60 Durometer Red. FDA Compliant Silicone Designed for High Cycle Life<br>(For Axial Seals)                           |
| <a href="#"><u>E603A (U)</u></a>  | 60 Durometer EPDM for High Quality, High Flex Life Applications<br>(For Axial Seals)                                 |

## Air Connectors

### AC1 Non-Reinforced Flexible Hose Connector



#### TYPE1.AC1C

Base Non-Reinforced Hose Detail

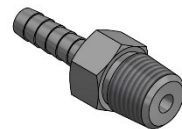
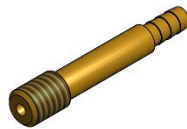
[PDF](#)

#### TYPE1.AC1CE

End Non-Reinforced Hose Detail

[PDF](#)

## ACFIT Hose Fittings



#### PRV14383.001

Male 1/8-27 NPT Fitting

[PDF](#)

#### PRV11856.001

.305-32 NEF Fitting

[PDF](#)

#### PRV14765.001

1/8-27 NPT Connector, Stainless Steel

[PDF](#)

## **AC14 Threaded End Connections**

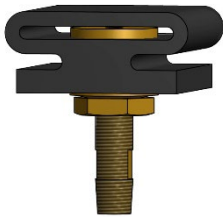


**TYPE1.AC14E.PRV8426.901**

*End Connector*

[PDF](#)

## **AC4A Male NPT Nut/Washer Direct Connection**



**TYPE1.AC4A**

*1/8-27 NPT Base Connector*

[PDF](#)

## **AC4C Push Connect Fitting**



**TYPE1.AC4C**

*Push Connect Hose Fitting for  
1/4 and 1/8" OD Tubing*

[PDF](#)

## AC5 Tire Valve Direct Connection



### **TYPE1.AC5**

*.302-32 Threaded Tire Core Valve*

[PDF](#)

## Retainers



### **PR5690**

*One-Piece Retainer*

[PDF](#)



### **PRS288-SS**

*Z-Clip*

[PDF](#)



### **PR36487**

*Retainer Groove Dimensions  
for PRS535*

[PDF](#)



### **PR5710**

*Two-Piece Retainer*

[PDF](#)

## **Tooling**

### **RSC**



Relieved Square Corners

#### **PRS535-SQR-0**

*Relieved square corners for axial expansion*