



SIZING CALCULATION

Use the following calculation method if you can't find your pipe size or pipe sleeve on the preceding selection charts.

Step 1: Calculate the Annular Space

The annular space is the gap between the outside diameter (O.D.) of the pipe and the inside diameter (I.D.) of the wall opening (sleeve or core).

$$\text{Annular Space} = \frac{(\text{Wall Opening I.D.} - \text{Pipe O.D.})}{2}$$

Step 2: Select PipeSeal Model

The proper PipeSeal model can be found in the PipeSeal dimensional chart. The annular space calculated in Step 1 must fall between the free state and expanded state thickness. Choose the seal with the free state thickness closest to, but not greater than the annular space calculated in Step 1.

Step 3: Calculate the Number of Links

First, calculate the Bolt Circle.

$$\text{Bolt Circle} = \frac{(\text{Wall Opening I.D.} + \text{Pipe O.D.})}{2}$$

Then determine the number of links

$$\text{No. of Links} = \frac{(\text{Bolt Circle} \times 3.14)}{\text{Chord Length}}$$

Finally, if the number of links is equal to or greater than 4 and less than 10 and the decimal portion is 0.9 or greater, round up to the next whole number. Otherwise, round down to the next whole number.

PipeSeal Dimensional Chart			
SIZE	SEALING RANGE		CHORD LENGTH
	FREE STATE THICKNESS	EXPANDED STATE THICKNESS	
PS-200	0.500"	0.640"	1.125"
PS-275	0.620"	0.800"	0.910"
PS-300	0.710"	0.920"	1.510"
PS-315	0.820"	1.100"	1.470"
PS-325	0.940"	1.140"	3.100"
PS-340	1.050"	1.330"	1.570"
PS-360	1.290"	1.650"	2.106"
PS-400	1.430"	1.870"	3.625"
PS-410	1.480"	1.910"	2.600"
PS-425	1.130"	1.430"	3.625"
PS-475	1.620"	2.080"	2.625"
PS-500	2.370"	2.810"	3.860"
PS-525	2.180"	2.580"	3.860"
PS-575	1.880"	2.350"	3.100"
PS-600	3.200"	4.000"	6.000"

Examples:

- 5.92 → round up to 6
- 5.75 → round down to 5
- 15.92 → round down to 15

A sizing spreadsheet can also be found on our website at:
www.flexicraft.com/pipeseals/main/