

Pressio Modular Seal

Sizing Procedure



TRIPAC Pressio modular seals are an excellent choice to seal annular spaces between wall, floor ceiling around a pipe or cable. For manually sizing your Penetration for Pressio size and number of links to complete belt for installation, use the below calculation method.

Step 1: Calculate Annular Space

$$\frac{\text{Penetration I.D.} - \text{Carrier Pipe O.D.}}{2} = \text{Annular Space}$$

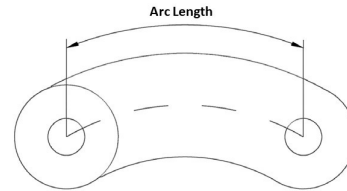
Choose Pressio Element **Size** for annular space from provided table to calculate the right number of links. Select size that falls between Min and Max sealing range.

Step 2: Calculate Number of Links

A. Determine the bolt circle for Pressio modular seal assembly.

$$\frac{\text{Penetration I.D.} + \text{Carrier Pipe O.D.}}{2} = \text{Bolt Circle}$$

$$\text{Links Per Seal} = \frac{\text{Bolt Circle} \times 3.14}{\text{Arc Length}}$$



Pressio Size	Sealing Range Min.	Sealing Range Max.	Arc Length	Min. Links For Belt	Min. Seating Width
IL-100	.35"	.49"	1.2"	4	2.4"
IL-200	.49"	.62"	1.1"	4	2.5"
IL-265	.63"	.79"	1.6"	5	2.5"
IL-275	.63"	.79"	1.0"	4	2.5"
IL-300	.71"	.88"	1.6"	5	3.5"
IL-310	.71"	.88"	2.2"	5	3.5"
IL-315	.83"	1.0"	1.5"	5	3.5"
IL-325	.91"	1.2"	3.1"	6	3.9"
IL-340	1.0"	1.3"	1.6"	4	3.9"
IL-360	1.2"	1.6"	2.2"	5	3.9"
IL-400	1.4"	1.8"	3.7"	6	4.9"
IL-410	1.4"	1.9"	2.7"	5	4.9"
IL-425	1.1"	1.4"	3.7"	6	4.9"
IL-440	1.7"	2.2"	3.9"	6	4.9"
IL-475	1.6"	1.9"	2.7"	5	4.9"
IL-500	2.4"	2.8"	3.9"	5	5.5"
IL-525	2.2"	2.5"	3.9"	6	5.5"
IL-575	1.9"	2.3"	3.1"	5	5.5"
IL-615	3.2"	3.8"	6.1"	6	6.5"
IL-625	3.2"	3.8"	4.2"	5	6.5"
IL-650	2.7"	3.3"	4.2"	5	6.5"
IL-700	3.7"	4.3"	6.1"	6	6.5"

Sizing Example: IL-400 Using 9 Links

Calculating Annular Space

$$\frac{\text{Penetration I.D.} = 12'' - 9.05''}{2} = 1.475''$$

$$\frac{\text{Carrier Pipe O.D.} = 9.05''}{2}$$

Select the Pressio Size that falls between Sealing Min. and Max Range. IL-400 or IL-410 can be selected.

Calculating Number of Links

$$\frac{12'' + 9.05''}{2} = 10.525$$

$$\frac{10.525''}{2}$$

$$\text{Arch Length for IL-400} = 3.7''$$

$$\text{Links Per Seal} = \frac{10.525'' \times 3.14}{3.7''} = 8.93$$

$$\text{Number of Links to complete belt for Seal} = 9$$

(Round up .50" and over—Round down .49")

Pressio Sizing: Online sizing program available TRIPAC Engineering Box APP or <https://4pipes.de/pressio-short-version>

TRIPAC

Scan for Sizing



475 Klug Circle

Corona, CA 92878 U.S.A.

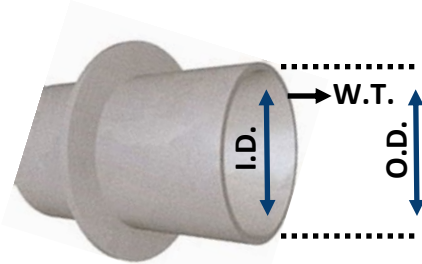
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Pressio Modular Seal—Steel Pipe Schedule Chart for Wall Sleeve Sizing

(API, Black Steel, IPS, RSC)



The pipe schedule wall thickness chart has been developed to assist with sizing TRIPAC Pressio modular seals in steel pipe sleeves of various wall thicknesses, that affect the Inside Diameter (I.D.). To determine the correct I.D. of your steel wall sleeve subtract 2 x's the selected Wall Thickness (W.T.) from the actual Outside Diameter (O.D.) of the pipe.

Sizing Example: Calculate the I.D. for a **10" (INCH) Schedule 40 Pipe.**

O.D. Schedule 40 Pipe = 10.750" (INCHES)

Wall Thickness Schedule 40 Pipe = .365"

Wall Thickness multiplied by 2 (.365 x 2) = .73"

I.D. of 10" Schedule 40 Pipe (10.750 - .730) = 10.02"

Disclaimer: Chart dimensions are generic industry standard measurements. Please always refer to the pipe fabricators published or manufactured values.

PIPE SCHEDULE WALL THICKNESS (Inches)

Pipe Size	O.D. Inches	5	10	20	30	40	STD	60	80	E.H.	100	120	140	160	DBLE E.H.
2"	2.375	0.065	0.109	-		0.154	0.154	-	0.218	0.218	-	-	-	0.344	0.436
2 1/2"	2.875	0.083	0.120	-		0.203	0.203	-	0.276	0.276	-	-	-	0.375	0.552
3"	3.500	0.083	0.120	-		0.216	0.216	-	0.300	0.300	-	-	-	0.438	0.600
3 1/2"	4.000	0.083	0.120	-		0.226	0.226	-	0.318	0.318	-	-	-	-	0.636
4"	4.500	0.083	0.120	-		0.237	0.237	0.281	0.337	0.337	-	0.438	-	0.531	0.674
4 1/2"	5.000	-	-	-		0.247	0.247	-	0.355	0.355	-	-	-	-	0.71
5"	5.563	0.109	0.134	-		0.258	0.258	-	0.375	0.375	-	0.500	-	0.625	0.75
6"	6.625	0.109	0.134	-		0.280	0.280	-	0.432	0.432	-	0.562	-	0.719	0.864
7"	7.625	-	-	-		-	0.301	-	-	0.500	-	-	-	-	0.875
8"	8.625	0.109	0.148	0.250	0.277	0.322	0.322	0.406	0.500	0.500	0.594	0.719	0.812	0.906	0.875
9"	9.625	-	-	-	-	-	0.342	-	-	0.500	-	-	-	-	-
10"	10.750	0.134	0.165	0.250	0.307	0.365	0.365	0.500	0.594	0.500	0.719	0.844	1.000	1.125	1.000
11"	11.750	-	-	-	-	-	0.375	-	-	0.500	-	-	-	-	-
12"	12.750	0.165	0.180	0.250	0.330	0.406	0.375	0.562	0.688	0.500	0.844	1.000	1.125	1.312	1.000
14"	14.000	-	0.250	0.312	0.375	0.438	0.375	0.594	0.750	0.500	0.938	1.094	1.25	1.406	-
16"	16.000	-	0.250	0.312	0.375	0.500	0.375	0.656	0.844	0.500	1.031	1.219	1.438	1.594	-
18"	18.000	-	0.250	0.312	0.438	0.562	0.375	0.750	0.938	0.500	1.156	1.375	1.562	1.781	-
20"	20.000	-	0.250	0.375	0.500	0.594	0.375	0.812	1.031	0.500	1.281	1.500	1.750	1.969	-
22"	22.000	-	0.250	0.375	0.500	-	0.375	0.875	1.125	0.500	1.375	1.625	1.875	2.125	-
24"	24.000	-	0.250	0.375	0.562	0.688	0.375	0.969	1.219	0.500	1.531	1.812	2.062	2.344	-
26"	26.000	-	0.312	0.500	-	-	0.375	-	-	0.500	-	-	-	-	-
28"	28.000	-	0.312	0.500	0.625	-	0.375	-	-	0.500	-	-	-	-	-
30"	30.000	-	0.312	0.500	0.625	-	0.375	-	-	0.500	-	-	-	-	-
32"	32.000	-	0.312	0.500	0.625	0.688	0.375	-	-	0.500	-	-	-	-	-
34"	34.000	-	0.312	0.500	0.625	0.688	0.375	-	-	0.500	-	-	-	-	-
36"	36.000	-	0.312	0.500	0.625	0.750	0.375	-	-	0.500	-	-	-	-	-
38"	38.000	-	-	-	-	-	0.375	-	-	0.500	-	-	-	-	-
40"	40.000	-	-	-	-	-	0.375	-	-	0.500	-	-	-	-	-
42"	42.000	-	-	-	-	-	0.375	-	-	0.500	-	-	-	-	-
48"	48.000	-	-	-	-	-	0.375	-	-	0.500	-	-	-	-	-
54"	54.000	-	-	-	-	-	0.375	-	-	0.500	-	-	-	-	-
60"	60.000	-	-	-	-	-	0.375	-	-	0.500	-	-	-	-	-