

# Sizing Procedure - Method 1

**Link-Seal® Modular Seals may be sized by using one or more methods.**

**Method 1** - Use the charts provided (Pages 8, 9, 10 & 11) for standard pipe sizes and types.

## Link-Seal® Modular Seal Sizing Charts for Standard Pipe

### HOW TO ORDER: USING THE PROVIDED SIZING CHARTS

1. Locate charts on pages 8-11 that corresponds to the type and size pipe being used
2. Verify that your pipe O.D. matches the actual outside diameter shown on the chart
3. Determine type of wall opening (Century-Line®, Steel Sleeve or Cast/Core Bit Drilled Hole)
4. Determine Link-Seal® Modular Seal model to be used (See information on page 5)
5. To order Link-Seal® Modular Seals: under the appropriate wall opening column, Link-Seal® Modular Seal size (from SIZE column), Link-Seal® Modular Seal model \*\*\* (C, S-316, L, LS-316, LS-S61, O, OS-316, T or FD/FS from page 5) and indicate number of links required per seal (from LINKS PER SEAL column). **[Example: LS-575-C-10]**
6. To order corresponding sleeves indicate model number (from MODEL NUMBER column), length of sleeve and quantity required. **[Century-Line® Example: CS-10-12"-1] [Steel Sleeve Example: WS-36-S-12"-1] [Cell-Cast® Example: CC-32-(3")2-(4")2]**

See Page 25 for detailed visual call-outs.

**NOTE:** Contact GPT (1-800-423-2410) or your local distributor if your pipe sizing solution is not listed in the provided charts.

PIPE  
SIZE



### STEEL AND PLASTIC PIPE WITH SAME OUTSIDE DIAMETER (IPS)

Pipe Size (Nom.)	Actual O.D. (Inches)	CENTURY-LINE® SLEEVE			STEEL SLEEVE			CAST OR CORE BIT DRILLED HOLE		
		Model Number	Link-Seal® Size	Links Per Seal	Model Number	Link-Seal® Size	Links Per Seal	Hole I.D.	Link-Seal® Size	Links Per Seal
1/2	0.840	CS-2-*	LS-200-***	4	WS-2-15-S-*	LS-275-***	5	2.000	LS-200-***	4
3/4	1.050	CS-3-*	LS-315-***	4	WS-2-1/2-20-S-*	LS-275-***	6	3.000	LS-315-***	4
1	1.315	CS-3-*	LS-300-***	4	WS-2-1/2-20-S-*	LS-200-***	5	3.000	LS-300-***	4
1 1/4	1.660	CS-3-*	LS-275-***	7	WS-3-21-S-*	LS-275-***	8	3.000	LS-275-***	8
1 1/2	1.900	CS-3 1/2-*	LS-275-***	8	WS-3-21-S-*	LS-200-***	7	4.000	LS-315-***	6
2	2.375	CS-4-*	LS-300-***	6	WS-3-1/2-22-S-*	LS-200-***	8	4.000	LS-300-***	6
2 1/2	2.875	CS-4-*	LS-200-***	9	WS-4-23-S-*	LS-200-***	9	4.000	LS-200-***	9
3	3.500	CS-5-*	LS-300-***	8	WS-6-28-S-*	LS-360-***	7	5.000	LS-300-***	8
3 1/2	4.000	CS-6-*	LS-340-***	10	WS-6-28-S-*	LS-340-***	9	6.000	LS-315-***	10
4	4.500	CS-6-*	LS-300-***	10	WS-6-28-S-*	LS-300-***	10	6.000	LS-300-***	10
5	5.563	CS-8-*	LS-360-***	10	WS-8-32-S-*	LS-340-***	13	8.000	LS-340-***	13
6	6.625	CS-10-*	LS-475-***	10	WS-10-36-S-*	LS-475-***	10	10.000	LS-475-***	10
8	8.625	CS-12-*	LS-475-***	12	WS-12-37-S-*	LS-475-***	12	12.000	LS-475-***	12
10	10.750	CS-14-*	LS-410-***	15	WS-14-37-S-*	LS-425-***	10	14.000	LS-475-***	14
12	12.750	CS-16-*	LS-475-***	17	WS-16-37-S-*	LS-425-***	12	16.000	LS-475-***	17
14	14.000	CS-16-*	LS-340-***	30	WS-18-37-S-*	LS-475-***	18	18.000	LS-575-***	16
16	16.000	CS-20-*	LS-410-***	21	WS-20-37-S-*	LS-475-***	21	20.000	LS-575-***	18
18	18.000	CS-22-*	LS-340-***	38	WS-22-37-S-*	LS-475-***	23	22.000	LS-575-***	20
20	20.000	CS-25-*	LS-500-***	18	WS-24-37-S-*	LS-475-***	25	24.000	LS-475-***	26
22	22.000	CS-25-*	LS-360-***	34	WS-26-37-S-*	LS-475-***	28	26.000	LS-575-***	24
24	24.000	CC-30-**	LS-500-***	21	WS-28-37-S-*	LS-475-***	30	28.000	LS-475-***	31
26	26.000	CC-30-**	LS-400-***	23	WS-30-37-S-*	LS-400-***	23	30.000	LS-575-***	28
28	28.000	CC-32-**	LS-400-***	25	WS-32-37-S-*	LS-400-***	25	32.000	LS-575-***	30
30	30.000	CC-36-**	LS-500-***	26	WS-34-37-S-*	LS-400-***	27	34.000	LS-575-***	32
32	32.000	CC-38-**	LS-500-***	28	WS-36-37-S-*	LS-400-***	29	36.000	LS-575-***	34
34	34.000	CC-38-**	LS-400-***	30	WS-40-37-S-*	LS-500-***	29	38.000	LS-575-***	36
36	36.000	CC-42-**	LS-500-***	31	WS-42-37-S-*	LS-500-***	31	40.000	LS-575-***	38
42	42.000	CC-48-**	LS-500-***	36	WS-48-37-S-*	LS-500-***	36	46.000	LS-575-***	44
48	48.000	CC-54-**	LS-500-***	40	WS-53-37-S-*	LS-525-***	40	52.000	LS-575-***	50

\* = Specify sleeve length in inches \*\* = See Cell-Cast® Page 16 \*\*\* = Specify LS Model C, S-316, L...etc when ordering (Example LS-475-C-17)

Technically there is no limit to the pipe size that can be sealed using Link-Seal® modular seals. Please contact factory for sizes not listed and for CS model plastic sleeves for walls less than 8" thick.

# Sizing Procedure for Standard Pipe

PIPE  
SIZE



## SDR-35 GRAVITY SEWER PIPE

Pipe Size (Nom.)	Actual O.D. (Inches)	CENTURY-LINE® SLEEVE			STEEL SLEEVE			CAST OR CORE BIT DRILLED HOLE		
		Model Number	Link-Seal® Size	Links Per Seal	Model Number	Link-Seal® Size	Links Per Seal	Hole I.D.	Link-Seal® Size	Links Per Seal
4	4.22	CS-6-*	LS-315-***	11	WS-6-28-S-*	LS-315-***	10	6.000	LS-315-***	10
6	6.28	CS-8-*	LS-315-***	15	WS-8-32-S-*	LS-315-***	15	8.000	LS-315-***	15
8	8.40	CS-10-*	LS-325-***	9	WS-10-36-S-*	LS-315-***	19	12.000	LS-475-***	12
10	10.50	CS-14-*	LS-475-***	14	WS-14-37-S-*	LS-360-***	17	14.000	LS-475-***	14
12	12.50	CS-18-*	LS-500-***	12	WS-16-37-S-*	LS-360-***	20	16.000	LS-475-***	17
15	15.30	CS-20-*	LS-475-***	20	WS-20-37-S-*	LS-575-***	17	18.000	LS-360-***	24
18	18.70	CS-24-*	LS-575-***	21	WS-22-37-S-*	LS-360-***	29	22.000	LS-475-***	24
21	22.05	CS-30-**	LS-600-***	13	WS-26-37-S-*	LS-475-***	28	26.000	LS-575-***	24
24	24.80	CS-30-**	LS-525-***	21	WS-28-37-S-*	LS-425-***	22	28.000	LS-475-***	31
27	27.95	CS-32-**	LS-400-***	25	WS-32-37-S-*	LS-400-***	25	32.000	LS-575-***	30
30	32.00	CS-38-**	LS-500-***	28	WS-36-37-S-*	LS-400-***	29	36.000	LS-575-***	34

= Specify sleeve length in inches \*\* = See Cell-Cast® Page 16 \*\*\* = Specify LS Model C, S-316, L...etc when ordering (Example LS-475-C-17)

## DUCTILE IRON PIPE (DIPS, AWWA-C900, AWWA-C905, PVC WATER PIPE)

Pipe Size (Nom.)	Actual O.D. (Inches)	CENTURY-LINE® SLEEVE			STEEL SLEEVE			CAST OR CORE BIT DRILLED HOLE		
		Model Number	Link-Seal® Size	Links Per Seal	Model Number	Link-Seal® Size	Links Per Seal	Hole I.D.	Link-Seal® Size	Links Per Seal
2	2.500	CS-4-*	LS-300-***	6	WS-3-½-22-S-*	LS-200-***	8	4.000	LS-300-***	6
2¼	2.750	CS-4-*	LS-275-***	10	WS-4-23-S-*	LS-200-***	9	4.000	LS-200-***	9
3	3.960	CS-6-*	LS-340-***	10	WS-6-28-S-*	LS-340-***	9	6.000	LS-315-***	10
4	4.800	CS-8-*	LS-410-***	7	WS-8-32-S-*	LS-410-***	7	8.000	LS-410-***	7
6	6.900	CS-10-*	LS-475-***	10	WS-10-36-S-*	LS-410-***	10	10.000	LS-410-***	10
8	9.050	CS-12-*	LS-400-***	9	WS-12-37-S-*	LS-400-***	9	12.000	LS-400-***	9
10	11.100	CS-14-*	LS-410-***	15	WS-14-37-S-*	LS-340-***	24	14.000	LS-400-***	10
12	13.200	CS-18-*	LS-575-***	15	WS-18-37-S-*	LS-475-***	18	16.000	LS-360-***	21
14	15.300	CS-20-*	LS-475-***	20	WS-20-37-S-*	LS-575-***	17	18.000	LS-360-***	24
16	17.400	CS-22-*	LS-360-***	28	WS-22-37-S-*	LS-475-***	23	20.000	LS-360-***	27
18	19.500	CS-24-*	LS-410-***	25	WS-24-37-S-*	LS-575-***	21	24.000	LS-525-***	17
20	21.600	CS-25-*	LS-400-***	20	WS-26-37-S-*	LS-475-***	27	26.000	LS-525-***	19
24	25.800	CC-30-**	LS-400-***	23	WS-30-37-S-*	LS-400-***	23	28.000	LS-425-***	23
30	32.000	CC-38-**	LS-500-***	28	WS-36-37-S-*	LS-400-***	29	36.000	LS-575-***	34
36	38.300	CC-44-**	LS-500-***	33	WS-44-½-37-S-*	LS-500-***	33	42.000	LS-575-***	40
42	44.500	CC-50-**	LS-500-***	38	WS-50-37-S-*	LS-500-***	38	50.000	LS-500-***	38
48	50.800	CC-56-**	LS-500-***	43	WS-57-37-S-*	LS-500-***	43	56.000	LS-500-***	43

= Specify sleeve length in inches \*\* = See Cell-Cast® Page 16 \*\*\* = Specify LS Model C, S-316, L...etc when ordering (Example LS-475-C-17)

Technically there is no limit to the conduit or pipe size that can be sealed using Link-Seal® Modular Seals. Please contact factory for sizes not listed and for CS model plastic sleeves for walls less than 8" thick.

# Sizing Procedure for Standard Pipe

PIPE  
SIZE



## CAST IRON SOIL PIPE (EXTRA HEAVY)

Pipe Size (Nom.)	Actual O.D. (Inches)	CENTURY-LINE® SLEEVE			STEEL SLEEVE			CAST OR CORE BIT DRILLED HOLE		
		Model Number	Link-Seal® Size	Links Per Seal	Model Number	Link-Seal® Size	Links Per Seal	Hole I.D.	Link-Seal® Size	Links Per Seal
2	2.380	CS-4-*	LS-300-***	6	WS-3-½-22-S-*	LS-200-***	8	4.000	LS-300-***	6
3	3.500	CS-5-*	LS-315-***	9	WS-6-28-S-*	LS-360-***	7	5.000	LS-300-***	8
4	4.500	CS-8-*	LS-475-***	8	WS-6-28-S-*	LS-300-***	10	6.000	LS-300-***	10
5	5.500	CS-8-*	LS-360-***	10	WS-8-32-S-*	LS-340-***	13	8.000	LS-340-***	13
6	6.500	CS-8-*	LS-315-***	15	WS-10-36-S-*	LS-475-***	10	10.000	LS-475-***	10
8	8.620	CS-12-*	LS-475-***	12	WS-12-37-S-*	LS-475-***	12	12.000	LS-475-***	12
10	10.750	CS-14-*	LS-410-***	15	WS-14-37-S-*	LS-425-***	10	14.000	LS-475-***	14
12	12.750	CS-16-*	LS-475-***	17	WS-16-37-S-*	LS-425-***	12	16.000	LS-475-***	17
15	15.880	CS-20-*	LS-410-***	21	WS-20-37-S-*	LS-475-***	20	18.000	LS-340-***	33

= Specify sleeve length in inches \*\* = See Cell-Cast® Page 16 \*\*\* = Specify LS Model C, S-316, L...etc when ordering (Example LS-475-C-17)

## CAST IRON SOIL PIPE (SERVICE WEIGHT)

Pipe Size (Nom.)	Actual O.D. (Inches)	CENTURY-LINE® SLEEVE			STEEL SLEEVE			CAST OR CORE BIT DRILLED HOLE		
		Model Number	Link-Seal® Size	Links Per Seal	Model Number	Link-Seal® Size	Links Per Seal	Hole I.D.	Link-Seal® Size	Links Per Seal
2	2.300	CS-4-*	LS-300-***	6	WS-4-23-S-*	LS-315-***	6	4.000	LS-315-***	6
3	3.300	CS-5-*	LS-300-***	8	WS-6-28-S-*	LS-360-***	7	5.000	LS-300-***	8
4	4.300	CS-6-*	LS-300-***	10	WS-6-28-S-*	LS-315-***	10	6.000	LS-300-***	10
5	5.300	CS-8-*	LS-410-***	8	WS-8-32-S-*	LS-360-***	9	8.000	LS-360-***	9
6	6.300	CS-8-*	LS-315-***	15	WS-8-32-S-*	LS-315-***	15	8.000	LS-315-***	15
8	8.380	CS-10-*	LS-325-***	9	WS-10-36-S-*	LS-315-***	19	10.000	LS-315-***	19
10	10.500	CS-14-*	LS-475-***	14	WS-14-37-S-*	LS-360-***	17	14.000	LS-475-***	14
12	12.500	CS-18-*	LS-500-***	12	WS-16-37-S-*	LS-360-***	20	16.000	LS-475-***	17
15	15.620	CS-20-*	LS-475-***	20	WS-20-37-S-*	LS-475-***	20	18.000	LS-425-***	14

= Specify sleeve length in inches \*\* = See Cell-Cast® Page 16 \*\*\* = Specify LS Model C, S-316, L...etc when ordering (Example LS-475-C-17)

## ELECTRICAL METALLIC TUBING (EMT) THIN WALL

Pipe Size (Nom.)	Actual O.D. (Inches)	CENTURY-LINE® SLEEVE			STEEL SLEEVE			CAST OR CORE BIT DRILLED HOLE		
		Model Number	Link-Seal® Size	Links Per Seal	Model Number	Link-Seal® Size	Links Per Seal	Hole I.D.	Link-Seal® Size	Links Per Seal
½	0.706	CS-2-*	LS-275-***	4	WS-2-15-S-*	LS-275-***	5	2.000	LS-275-***	4
¾	0.922	CS-2-*	LS-200-***	4	WS-2-½-20-S-*	LS-275-***	6	2.000	LS-200-***	4
1	1.163	CS-3-*	LS-315-***	4	WS-2-½-20-S-*	LS-275-***	6	3.000	LS-315-***	4
1¼	1.510	CS-3-*	LS-275-***	8	WS-3-30-S-*	LS-275-***	7	3.000	LS-275-***	8
1½	1.740	CS-3½-*	LS-300-***	5	WS-3-21-S-*	LS-275-***	8	3.000	LS-200-***	6
2	2.197	CS-4-*	LS-315-***	6	WS-3-½-22-S-*	LS-275-***	10	4.000	LS-315-***	6
2½	2.875	CS-4-*	LS-200-***	9	WS-4-23-S-*	LS-200-***	9	4.000	LS-200-***	9
3	3.500	CS-5-*	LS-315-***	9	WS-6-28-S-*	LS-360-***	7	5.000	LS-300-***	8
4	4.500	CS-8-*	LS-475-***	8	WS-6-28-S-*	LS-300-***	10	6.000	LS-300-***	10

= Specify sleeve length in inches \*\* = See Cell-Cast® Page 16 \*\*\* = Specify LS Model C, S-316, L...etc when ordering (Example LS-475-C-17)



an EnPro Industries company

# Sizing Procedure for Standard Pipe

PIPE  
SIZE



## INTERMEDIATE METAL CONDUIT (IMC)

Pipe Size (Nom.)	Actual O.D. (Inches)	CENTURY-LINE® SLEEVE			STEEL SLEEVE			CAST OR CORE BIT DRILLED HOLE		
		Model Number	Link-Seal® Size	Links Per Seal	Model Number	Link-Seal® Size	Links Per Seal	Hole I.D.	Link-Seal® Size	Links Per Seal
½	0.815	CS-2-*	LS-200-***	4	WS-2-15-S-*	LS-275-***	5	2.000	LS-200-***	4
¾	1.029	CS-2-*	LS-200-***	4	WS-2-½-20-S-*	LS-275-***	6	2.000	LS-200-***	4
1	1.290	CS-3½-*	LS-315-***	5	WS-2-½-20-S-*	LS-200-***	5	3.000	LS-300-***	4
1¼	1.638	CS-3-*	LS-275-***	8	WS-3-21-S-*	LS-275-***	8	3.000	LS-275-***	8
1½	1.883	CS-3½-*	LS-300-***	5	WS-3-21-S-*	LS-200-***	7	4.000	LS-315-***	6
2	2.360	CS-4-*	LS-300-***	6	WS-3-½-22-S-*	LS-200-***	8	4.000	LS-300-***	6
2½	2.857	CS-4-*	LS-200-***	9	WS-4-23-S-*	LS-200-***	9	4.000	LS-200-***	9
3	3.476	CS-5-*	LS-315-***	9	WS-6-28-S-*	LS-360-***	7	5.000	LS-300-***	8
3½	3.970	CS-6-*	LS-340-***	10	WS-6-28-S-*	LS-340-***	9	6.000	LS-315-***	10
4	4.466	CS-6-*	LS-315-***	11	WS-6-28-S-*	LS-300-***	10	6.000	LS-300-***	10

= Specify sleeve length in inches \*\* = See Cell-Cast® Page 16 \*\*\* = Specify LS Model C, S-316, L...etc when ordering (Example LS-475-C-17)

## RIGID (RSC), ALUMINUM (ASC), GALVANIZED (GSC), NON-METALLIC CONDUIT (NRC)

Pipe Size (Nom.)	Actual O.D. (Inches)	CENTURY-LINE® SLEEVE			STEEL SLEEVE			CAST OR CORE BIT DRILLED HOLE		
		Model Number	Link-Seal® Size	Links Per Seal	Model Number	Link-Seal® Size	Links Per Seal	Hole I.D.	Link-Seal® Size	Links Per Seal
½	0.840	CS-2-*	LS-200-***	4	WS-2-15-S-*	LS-275-***	5	2.000	LS-200-***	4
¾	1.050	CS-3-*	LS-315-***	4	WS-2-½-20-S-*	LS-275-***	6	3.000	LS-315-***	4
1	1.315	CS-3-*	LS-300-***	4	WS-2-½-20-S-*	LS-200-***	5	3.000	LS-300-***	4
1¼	1.660	CS-3-*	LS-275-***	7	WS-3-21-S-*	LS-275-***	8	3.000	LS-275-***	8
1½	1.900	CS-3½-*	LS-300-***	5	WS-3-21-S-*	LS-200-***	7	4.000	LS-315-***	6
2	2.375	CS-4-*	LS-300-***	6	WS-3-½-22-S-*	LS-200-***	8	4.000	LS-300-***	6
2½	2.875	CS-4-*	LS-200-***	9	WS-4-23-S-*	LS-200-***	9	4.000	LS-200-***	9
3	3.500	CS-5-*	LS-300-***	8	WS-6-28-S-*	LS-360-***	7	5.000	LS-300-***	8
3½	4.000	CS-6-*	LS-340-***	10	WS-6-28-S-*	LS-340-***	9	6.000	LS-315-***	10
4	4.500	CS-6-*	LS-300-***	10	WS-6-28-S-*	LS-300-***	10	6.000	LS-300-***	10
5	5.563	CS-8-*	LS-360-***	10	WS-8-32-S-*	LS-340-***	13	8.000	LS-340-***	13
6	6.625	CS-10-*	LS-475-***	10	WS-10-36-S-*	LS-475-***	10	10.000	LS-475-***	10

= Specify sleeve length in inches \*\* = See Cell-Cast® Page 16 \*\*\* = Specify LS Model C, S-316, L...etc when ordering (Example LS-475-C-17)

## COPPER TUBING

Pipe Size (Nom.)	Actual O.D. (Inches)	CENTURY-LINE® SLEEVE			STEEL SLEEVE			CAST OR CORE BIT DRILLED HOLE		
		Model Number	Link-Seal® Size	Links Per Seal	Model Number	Link-Seal® Size	Links Per Seal	Hole I.D.	Link-Seal® Size	Links Per Seal
½	0.625	CS-2-*	LS-275-***	4	WS-2-15-S-*	LS-275-***	5	2.000	LS-275-***	4
¾	0.875	CS-2-*	LS-200-***	4	WS-2-½-20-S-*	LS-275-***	6	2.000	LS-200-***	4
1	1.125	CS-3-*	LS-315-***	4	WS-2-½-20-S-*	LS-275-***	6	3.000	LS-315-***	4
1¼	1.375	CS-3-*	LS-275-***	8	WS-2-½-20-S-*	LS-200-***	5	3.000	LS-300-***	4
1½	1.625	CS-3-*	LS-275-***	8	WS-3-21-S-*	LS-275-***	7	3.000	LS-275-***	8
2	2.125	CS-4-*	LS-315-***	6	WS-3-½-22-S-*	LS-275-***	10	4.000	LS-315-***	6
2½	2.625	CS-4-*	LS-275-***	12	WS-4-23-S-*	LS-275-***	11	4.000	LS-275-***	11
3	3.125	CS-5-*	LS-340-***	8	WS-5-25-S-*	LS-315-***	8	5.000	LS-315-***	8
4	4.125	CS-6-*	LS-315-***	11	WS-6-28-S-*	LS-315-***	10	6.000	LS-315-***	10
6	6.125	CS-8-*	LS-315-***	15	WS-8-32-S-*	LS-315-***	15	8.000	LS-315-***	15
8	8.125	CS-12-*	LS-575-***	10	WS-10-36-S-*	LS-315-***	19	12.000	LS-575-***	10
10	10.125	CS-12-*	LS-340-***	22	WS-14-37-S-*	LS-410-***	14	14.000	LS-575-***	12
12	12.125	CS-16-*	LS-575-***	14	WS-16-37-S-*	LS-410-***	16	16.000	LS-575-***	14