



Link-Seal® Sizing

Using “standard pipe size” charts with suggested Link-Seal® Modular Seals Models in combination with Century-Line® Sleeves, WS Steel Sleeves or within specified sized cast or core bit drilled holes.

Please see page 9 for a description of how we’ve updated our charts to reflect a re-evaluation of some sizes in an effort to put more rubber in the hole. Benefits of these changes include:

- Improved engineered fit.
- Improved vibration dampening.
- Minimum loads on bolts and pressure plates without effecting sealing characteristics.
 - Most sealing pressure/most volume of sealing element in penetration.
 - Curvature of link sized to penetration O.D. and I.D. for smooth fit.

Sizing Procedure

Link-Seal® Modular Seals may be sized by using the charts provided (Pages 3, 4 & 5) for standard pipe sizes and types.

Link-Seal® Modular Seal Sizing

(If your pipe type and size matches with standard pipe charts.)

1. From the following nine charts (pages 3, 4 & 5), find the one that applies to your pipe type and locate correct pipe size (Nominal Diameter & Actual Outside Diameter). Verify that your pipe O.D. matches the actual outside diameter shown on the chart.
2. Determine the type of wall opening to be used: Century-Line® non-metallic (CS Model Sleeve), WS Steel Sleeve or Cast/Core Drilled Hole.
3. Begin at column heading "Pipe Size - Nominal". Read across to the sizing section for your sleeve type and wall opening Century-Line® (CS Model Sleeve), WS Steel Sleeve or Cast/Core Drilled. The first column identifies the sleeve model or hole diameter...the second column identifies the Link-Seal modular seal size... and the third column provides the number of links required for a complete seal assembly.

Century-Line® Non-Metallic Sleeve or WS Steel Sleeve Sizing

(If your pipe type and size matches with standard pipe charts.)

1. When ordering Link-Seal® modular seals, note sleeve part numbers in columns CS Model Number (Century-Line®) or WS Model Number and indicate sleeve length in inches.

NOTE: Century-Line® sleeves are shipped standard in 16" lengths and can be field cut to as short as 8" in length.

Cell-Cast Hole Forming Disk Sizing

(If your pipe type and size matches with standard pipe charts.)

1. When ordering Cell-Cast Disks, note the CC Model Number and combine 3" or 4" Cell-Cast Disks to create wall thickness.

***Note:** Threaded rod must be requested when ordered. Specify TRA at the end of the ordering code.



Example:

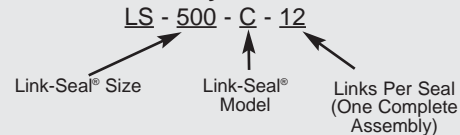
Pipe Type = SDR-35 Gravity Sewer Pipe
Nominal Diameter = 12"
Actual O.D. = 12.50"
Sleeve = Non-metallic Century-Line® (CS) Sleeve
I.D. = 12.26"

Information Obtained From Charts

Link-Seal Size Number: LS-500
(Determined from "Link-Seal® Size" Column)
Links per Seal: 12
(Determined from "Links Per Seal" Column)

Link-Seal® Model Number = C
(Based on application and usage)

Code for Ordering One Complete Link-Seal Modular Seal Assembly



Example:

Same as Above

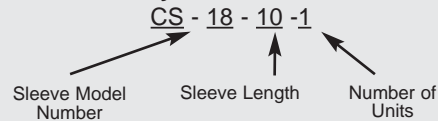
Information Obtained From Charts

CS Sleeve Number = CS-18

Determine Sleeve Length

(Based on wall thickness)
Sleeve Length = 10"

Code for Ordering One Complete Century-Line Sleeve Assembly



Example:

Needing a 32" hole for a 14" thick wall.

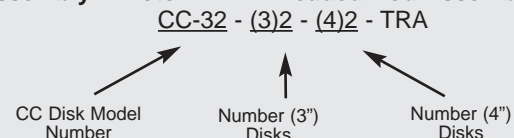
Information Obtained From Charts

CC Model Number = CC-32

Determine Number of Cell-Cast Disks

(Based on wall thickness)
Wall-Thickness = 14"

Code for Ordering One Complete Cell-Cast Disk Assembly - *Note: TRA=Threaded Rod Assembly



Sizing Charts for Standard Pipe



SDR-35 Gravity Sewer Pipe

PIPE SIZE (Nom.)	ACTUAL O.D. (Inches)	CS MODEL NON-METALLIC SLEEVE			WS MODEL 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	CC-30-**	LS-600-***	13	WS-26-37-S-*	LS-475-***	28	26.000	LS-575-***	24
24	24.80	CC-30-**	LS-525-***	21	WS-28-37-S-*	LS-425-***	22	28.000	LS-475-***	31
27	27.95	CC-32-**	LS-400-***	25	WS-32-37-S-*	LS-400-***	25	32.000	LS-575-***	30
30	32.00	CC-38-**	LS-500-***	28	WS-36-37-S-*	LS-400-***	29	36.000	LS-575-***	34

* = Specify sleeve length in inches ** = Cell-Cast® *** = 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.

Steel and Plastic Pipe with Same Outside Diameter (IPS)

PIPE SIZE (Nom.)	ACTUAL O.D. (Inches)	CS MODEL NON-METALLIC SLEEVE			WS MODEL 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-300-***	5	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 ** = Cell-Cast® *** = 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 Charts for Standard Pipe



Ductile Iron Pipe (DIPS, AWWA-C900, AWWA-C905, PVC Water Pipe)

PIPE SIZE (Nom.)	ACTUAL O.D. (Inches)	CS MODEL NON-METALLIC SLEEVE			WS MODEL 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-3-1/2-22-S*	LS-200-***	8	4.000	LS-300-***	6
2-1/4	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-475-***	8	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-44-1/2-37-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 ** = Cell-Cast® *** = 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.

Copper Tubing

PIPE SIZE (Nom.)	ACTUAL O.D. (Inches)	CS MODEL NON-METALLIC SLEEVE			WS MODEL 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	0.625	CS-2*	LS-275-***	4	WS-2-15-S*	LS-275-***	5	2.000	LS-275-***	4
3/4	0.875	CS-2*	LS-200-***	4	WS-2-1/2-20-S*	LS-275-***	6	2.000	LS-200-***	4
1	1.125	CS-3*	LS-315-***	4	WS-2-1/2-20-S*	LS-275-***	6	3.000	LS-315-***	4
1-1/4	1.375	CS-3*	LS-275-***	8	WS-2-1/2-20-S*	LS-200-***	5	3.000	LS-300-***	4
1-1/2	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-3-1/2-22-S*	LS-275-***	10	4.000	LS-315-***	6
2-1/2	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

* = Specify sleeve length in inches *** = Specify LS Model C, S-316, L...etc when ordering (Example LS-475-C-17)

Cast Iron Soil Pipe (Extra Heavy)

PIPE SIZE (Nom.)	ACTUAL O.D. (Inches)	CS MODEL NON-METALLIC SLEEVE			WS MODEL 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-3-1/2-22-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 *** = 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 Charts for Standard Pipe



Cast Iron Soil Pipe (Service Weight)

PIPE SIZE (Nom.)	ACTUAL O.D. (Inches)	CS MODEL NON-METALLIC SLEEVE			WS MODEL 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 *** = Specify LS Model C, S-316, L...etc when ordering (Example LS-475-C-17)

Electrical Metallic Tubing (EMT) Thin Wall

Conduit SIZE (Nom.)	ACTUAL O.D. (Inches)	CS MODEL NON-METALLIC SLEEVE			WS MODEL 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	0.706	CS-2*	LS-275-***	4	WS-2-15-S*	LS-275-***	5	2.000	LS-275-***	4
3/4	0.922	CS-2*	LS-200-***	4	WS-2-1/2-20-S*	LS-275-***	6	2.000	LS-200-***	4
1	1.163	CS-3*	LS-315-***	4	WS-2-1/2-20-S*	LS-275-***	6	3.000	LS-315-***	4
1-1/4	1.510	CS-3*	LS-275-***	8	WS-3-21-S*	LS-275-***	6	3.000	LS-275-***	8
1-1/2	1.740	CS-3-1/2*	LS-300-***	5	WS-3-21-S*	LS-275-***	8	3.000	LS-200-***	6
2	2.197	CS-4*	LS-315-***	6	WS-3-1/2-22-S*	LS-275-***	10	4.000	LS-315-***	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-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 *** = Specify LS Model C, S-316, L...etc when ordering (Example LS-475-C-17)

Intermediate Metal Conduit (IMC)

Conduit SIZE (Nom.)	ACTUAL O.D. (Inches)	CS MODEL NON-METALLIC SLEEVE			WS MODEL 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	0.815	CS-2*	LS-200-***	4	WS-2-15-S*	LS-275-***	5	2.000	LS-200-***	4
3/4	1.029	CS-2*	LS-200-***	4	WS-2-1/2-20-S*	LS-275-***	6	2.000	LS-200-***	4
1	1.290	CS-3-1/2*	LS-315-***	5	WS-2-1/2-20-S*	LS-200-***	5	3.000	LS-300-***	4
1-1/4	1.638	CS-3*	LS-275-***	8	WS-3-21-S*	LS-275-***	8	3.000	LS-275-***	8
1-1/2	1.883	CS-3-1/2*	LS-300-***	5	WS-3-21-S*	LS-200-***	7	4.000	LS-315-***	6
2	2.360	CS-4*	LS-300-***	6	WS-3-1/2-22-S*	LS-200-***	8	4.000	LS-300-***	6
2-1/2	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
3-1/2	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 *** = 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)

Conduit SIZE (Nom.)	ACTUAL O.D. (Inches)	CS MODEL NON-METALLIC SLEEVE			WS MODEL 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-300-***	5	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

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.

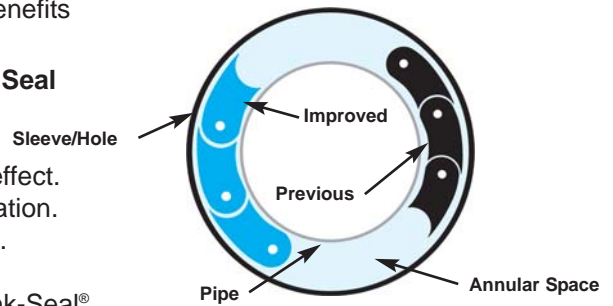


Link-Seal® Sizing Method

Pipeline Seal & Insulator, Inc. has re-evaluated the Link-Seal® modular seal standard sizing for the sizing charts that are included in this Engineering Manual and our Selection Guide. The updated Link-Seal® sizing method puts the most rubber in the hole. Please see the graphic, listed features, and sizing chart examples below for a complete understanding of the Link-Seal® sizing method. This updated method benefits the engineer, owner and contractor.

Features: More Rubber in Annular Space = Better Performing Seal

- Improved engineered fit.
- Improved vibration dampening.
- Minimum loads on bolts and pressure plates with same sealing effect.
- Most sealing pressure/most volume of sealing element in penetration.
- Curvature of link sized to penetration O.D. and I.D. for smooth fit.



In accomplishing putting more rubber in the annular space, the Link-Seal® assembly may require a larger size link with less links per belt or a smaller size link with more links per belt. Sleeve and cored hole sizing has also been taken into consideration. The charts below show examples comparing previous chart selections and the updated chart selections.

Compare: Solutions in **Bolded Blue** = Updated Link-Seal® Sizing Method.

SDR-35 Gravity Sewer Pipe

PIPE SIZE (Nom.)	ACTUAL O.D. (Inches)	CS MODEL NON-METALLIC SLEEVE			WS MODEL 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
15	15.30	CS-20-*	LS-575-***	17	WS-20-37-S-*	LS-575-***	17	20.000	LS-525-***	14
15	15.30	CS-20-*	LS-475-***	20	WS-20-37-S-*	LS-575-***	17	18.000	LS-360-***	24
24	24.80	CC-30-**	LS-525-***	21	WS-30-37-S-*	LS-525-***	21	28.000	LS-400-***	22
24	24.80	CC-30-**	LS-525-***	21	WS-28-37-S-*	LS-425-***	22	28.000	LS-475-***	31

Steel and Plastic Pipe with Same Outside Diameter

PIPE SIZE (Nom.)	ACTUAL O.D. (Inches)	CS MODEL NON-METALLIC SLEEVE			WS MODEL 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
3	3.500	CS-5-*	LS-300-***	8	WS-5-25-S-*	LS-300-***	8	5.000	LS-300-***	8
3	3.500	CS-5-*	LS-300-***	8	WS-6-28-S-*	LS-360-***	7	5.000	LS-300-***	8
10	10.750	CS-14-*	LS-400-***	10	WS-14-37-S-*	LS-425-***	10	14.000	LS-400-***	10
10	10.750	CS-14-*	LS-410-***	15	WS-14-37-S-*	LS-425-***	10	14.000	LS-475-***	14
16	16.000	CS-20-*	LS-400-***	15	WS-20-37-S-*	LS-400-***	15	20.000	LS-575-***	18
16	16.000	CS-20-*	LS-410-***	21	WS-20-37-S-*	LS-475-***	21	20.000	LS-575-***	18

Ductile Iron Pipe (AWWA-C900, C905, PVC Water Pipe)

PIPE SIZE (Nom.)	ACTUAL O.D. (Inches)	CS MODEL NON-METALLIC SLEEVE			WS MODEL 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
10	11.100	CS-14-*	LS-400-***	10	WS-16-37-S-*	LS-575-***	13	14.000	LS-400-***	10
10	11.100	CS-14-*	LS-410-***	15	WS-14-37-S-*	LS-340-***	24	14.000	LS-400-***	10
16	17.400	CS-22-*	LS-400-***	16	WS-22-37-S-*	LS-575-***	19	22.000	LS-525-***	16
16	17.400	CS-22-*	LS-360-***	28	WS-22-37-S-*	LS-475-***	23	20.000	LS-360-***	27

Link-Seal® Sizing Alternatives

Experience Counts.... There are a lot of sizing solutions for a particular application. (See 16" D.I. Pipe Example) → For the best/improved solution for either existing or new penetrations, let our vast network of experienced personnel assist you in correctly sizing the best solution using one of the 16 unique sizes of links available in 4 sealing elements. If your application is not in the provided charts; contact PSI or an authorized Link-Seal® distributor.

Example: A Ductile Iron Pipe 16" Cored Hole

Ductile Iron	Link-Seal® Size, # Links	Cored Hole Size
DI 16"	LS-340-***-37	20" Cored Hole
DI 16"	LS-360-***-27	20" Cored Hole
DI 16"	LS-425-***-16	20" Cored Hole
DI 16"	LS-500-***-16	22" Cored Hole
DI 16"	LS-525-***-16	22" Cored Hole
DI 16"	LS-575-***-19	22" Cored Hole
DI 16"	LS-600-***-10	24" Cored Hole

*** = Specify LS Model C, S-316, L...etc when ordering
(Example LS-475-C-17)





Pipeline Seal and Insulator, Inc.

6525 Goforth Street, Houston, TX 77021 U.S.A.

Telephone: 713-747-6948, Facsimile: 713-747-6029 Toll Free: 800-423-2410

www.linkseal.com, www.pipeline Seal.com, e-mail: info@psipsi.com

Link-Seal® is a registered trademark of PSI.

Century-Line® is a registered trademark of PSI.

Cell-Cast® is a registered trademark of PSI.

©2008, Pipeline Seal and Insulator, Inc.



Certificate No. 10125



Cert. No. NACB7895