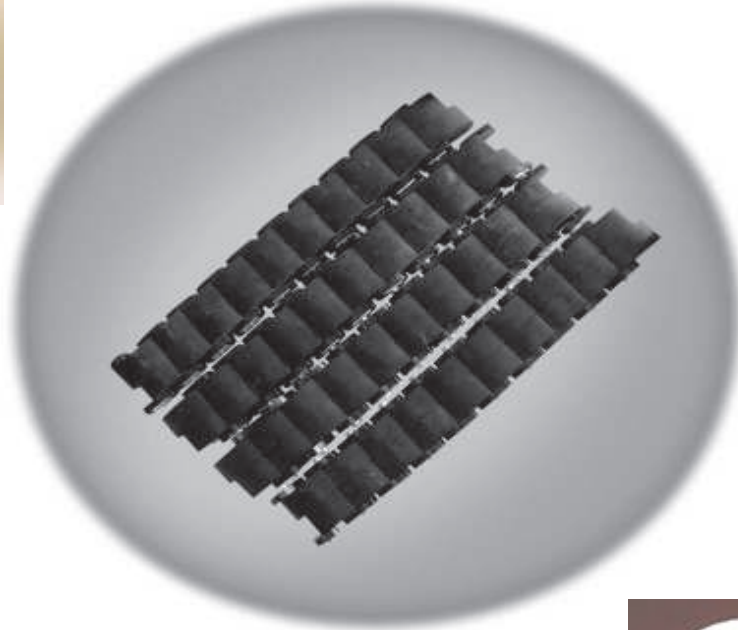


# Pipe Linx & Wall Sleeves



CALPICO

1387 San Mateo Ave.  
South San Francisco, Ca 94080  
Ph: 650-588-2241 / Fax: 650-873-6952

**Manufacturing and supplying  
underground piping products  
SINCE 1963**







Nominal Pipe Size	Type of Pipe	Pipe O.D.	Inner Pipe through a Core Drilled Hole			Inner Pipe through a Wall Sleeve		
			Hole Dia.	Qty. of CSL	CSL No.	Sleeve I.D.	Qty. of CSL	CSL No.

**Chart No. 102**

TYPE OF LINX AVAILABLE:		
CSL	:	Standard EPDM Pipe Linx with insulating type pressure plate.
CSL-SS	:	Pipe Linx with 304 grade stainless steel pressure plate.
CSL-SSS	:	Pipe Linx with 316 grade stainless steel pressure plate.
CSL-N	:	Special NITRILE Pipe Linx for petroleum based applications.
CSL-N-SS	:	Special NITRILE Pipe Linx with 304 stainless steel plate.
CSL-N-SSS	:	Special NITRILE Pipe Linx with 316 stainless steel plate.
CSL-T	:	High Temperature (Avail.; consult our sales staff; not a stock item.)

**Chart No. 103**

RECOMMENDED WALL THICKNESS FOR SEALING:	
CSL Model	Wall Thickness
20	2 1/4"
27	2 1/4"
30	3"
31	3"
32	4"
40	5"
42	5"
47	4 1/2"
50	5"
52	5"
57	5"
60	6"



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All common sizes of pipe-to-hole or pipe-to-sleeve combinations are shown in Chart No. 101. However, many other size combinations will also work. To calculate any sizes not listed in chart No. 101, please consult chart No. 104.

**NON-STANDARD  
 LINX SIZES**

**Chart No. 104**

CSL Style No.	Sealing Range		CSL Multiplier
	(untightened)	(tightened)	
CSL 20	0.500	0.625	1.400
CSL 27	0.593	0.750	1.725
CSL 30	0.687	0.875	1.040
CSL 31	0.820	1.030	1.068
CSL 32	0.935	1.187	0.506
CSL 34	1.020	1.320	0.997
CSL 36	1.250	1.650	0.745
CSL 40	1.437	1.812	0.433
CSL 41	1.410	1.810	0.604
CSL 42	1.125	1.500	0.433
CSL 47	1.625	2.000	0.600
CSL 50	2.375	2.812	0.406
CSL 52	2.187	2.500	0.406
CSL 57	1.810	2.350	0.510
CSL 60	3.200	4.000	0.2617

How to figure Linx size and number of Linx needed to make one seal.

**Formula 1:** (to figure which CSL Style No. is needed)  
 I.D. of Outer Casing or Hole Diameter MINUS O.D. of Inner Pipe = "Y"  
 Y divided by 2 = Sealing Range

Find the correct Sealing Range and the corresponding Style No. on Chart No. 104.

**Formula 2:** (to figure how many of Style CSL Linx needed)  
 I.D. of Outer Casing or Hole Diameter PLUS O.D. of Inner Pipe = "Z"  
 "Z" multiplied by the corresponding CSL Multiplier = Qty of CSL Linx needed.

Find the corresponding CSL Multiplier on Chart No. 104.

**EXAMPLE** 4" DIP into a 10" core drilled hole: Outer I.D. of hole = 10.00" / Inner O.D. of pipe = 4.80"

**Formula 1** 10.00"-4.80"=Y (Y=5. 5.20)

5.20" ÷ 2 = 2.600"

5.20" ÷ 2 = 2.600"

**Formula 2:** 10.00" + 4.80"=Z (Z=14.80")

CSL multiplier for CSL 50 = .406

14.80" x .406 = 6.009

xx.79 - Round down to nearest whole number.

xx.80 - Round up to nearest whole number

**ANSWER: 6 Linx required per seal - CSL 50**



Chart No. 105

Model	Type	Seal Material	Pressure Plates	Bolts & Nuts	Temp. Range	Application
CSL	STANDARD	EPDM Black	GLASS REINFORCED PLASTIC	ZINC PLATED STEEL	(-40 to +250)  per ASTM D2000	Suitable for most applications in water, both above ground and direct burial. Provides electrical insulation where cathodic protection is required.
CSL-SS	304 STAINLESS STEEL	EPDM Black	GLASS REINFORCED PLASTIC	304 STAINLESS STEEL	(-40 to +250)	Environments where corrosion resistant hardware required. EPDM rubber resistant to most inorganic acids and alkalis, some organic chemicals (acetone, alcohol, ketones)
CSL-SSS	316 STAINLESS STEEL	EPDM Black	GLASS REINFORCED PLASTIC	316 STAINLESS STEEL	(-40 to +250)	For applications where lower grade Stainless Steel hardware is not suitable and a higher degree of corrosion resistant hardware is required.
CSL-N	OIL RESISTANT	NITRILE Dark Green	GLASS REINFORCED PLASTIC	ZINC PLATED STEEL	(-40 to +210)  per ASTM D2000	Nitrile rubber is suitable for most hydrocarbons, fats, oils, greases, hydraulic fluids, chemicals and solvents -- gasoline, jet fuel, water, motor oil, kerosene, methane, etc.
CSL-N-SS	OIL RESISTANT 304 S.S.	NITRILE Dark Green	GLASS REINFORCED PLASTIC	304 STAINLESS STEEL	(-40 to +210)	Combination of stainless steel hardware and oil-resistant rubber.
CSL-N-SSS	OIL RESISTANT 316 S.S.	NITRILE Dark Green	GLASS REINFORCED PLASTIC	316 STAINLESS STEEL	(-40 to +210)	Combination of higher grade stainless steel hardware and oil resistant rubber where the ultimate corrosion protection is desired.
CSL-T	HIGH / LOW TEMP.	SILICONE Grey	ZINC PLATED STEEL	ZINC PLATED STEEL	(-67 to +400) per ASTM D2000	Silicone rubber is ideal for temperature extremes.

**PIPE LINX SPECIFICATION - MATERIAL PROPERTIES**

PROPERTY	ASTM	EPDM	NITRILE	SILICONE
Hardness -----	D-2240	47+-3	50 +-5	50 +-5
Tensile -----	D-412	1450 psi	1300 psi	860 psi
Elongation -----	D-412	400%	300%	250%
Compression Set ----	2395	15% - 22 hrs.- 158 degree F	45% - 22 hrs.- 212 degree F	40% - 22 hrs.- 350 degree F
Specific Gravity -----	D-297	1.1	1.42	1.4

**PRESSURE PLATE SPECIFICATION**

PROPERTY	ASTM	VALUE
Izod Impact - Notched	D-256	2.05 ft-lb/in
Tensile Strength @ Yield	D-638	20,000 psi
Tensile Strength - Break	D-638	20,250 psi
Flexural Strength@Yield	D-790	30,750 psi
Flexural Modulus	D-790	1,124,000 psi
Elongation, Break	D-638	11.07%
Specific Gravity	D-792	1.38
Moisture Content	---	0.18%

**BOLT & NUT SPECIFICATION**

**Carbon Steel:**  
Zinc dichromated per ASTM B633, with an additional corrosion inhibiting proprietary organic coating per ASTM B117.  
Tensile Strength = 60,000 psi, min.

**Stainless Steel:**  
304 Grade  
316 Grade

For assistance, call:  
650 588-2241

**CALPICO  
INC.**

So. San Francisco, California  
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# WALL SLEEVES



**P**

\* Standard Sleeves are avail.  
in all sizes of Sch. 40 PVC &  
Steel.

**V**

\* Special Sleeves available,  
contact factory.

\* Standard Water Stop is 2"  
high to prevent water leaks.  
Full weld 360° both sides.

\* Standard Sleeve length is  
12". Other sizes available.

**C**

## MODEL C-PWS

### *PVC Sleeve Standard Specifications:*

	ASTM:	VALUE:
Izod-Impact		
lbs/inch/notched:	D256	1.10 - 1/25
Tensile Strength:	D368	5500 - 6300 psi
Elasticity:	D368	400,000 - 500,000 psi
Dielectric Strength:	D149	1100

## MODEL C-SWS

### *STEEL Sleeve Standard Specifications:*

- \* Pipe per ASTM A53, GR B, ERW.
- \* Steel plate per ASTM A36.
- \* Full weld 360° both sides.
- \* Black Steel or
- \* Hot Dipped Galvanized or
- \* Epoxy Coated 3-4 Mil thick

### COMBINATION PIPE LINX & WALL SLEEVE:



**S**

**T**

**E**

**E**

**L**





## **Some of the products available from CALPICO:**

**Pipe Linx  
Casing Insulators  
Flange Insulation Kits  
Pipe Identification Markers  
Cut Flange Gaskets  
Valve Identification Tags  
Locater and Tracer Tape  
Wall Sleeves  
Manhole Adapter Seals  
Anodes  
Cathodic Protection  
...and other piping & electrical products.**

**Your satisfaction is our success....**

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*2021*

Form 101