



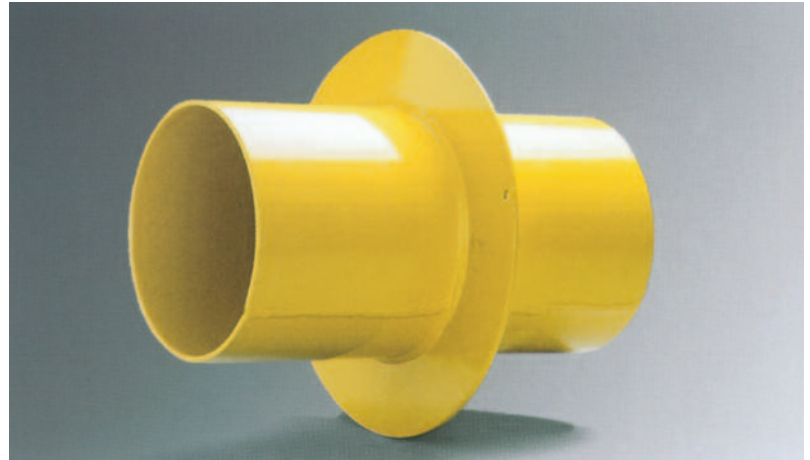
General Information

Selection Guide

PSI Wall Sleeves



Pipeline Accessories



The economic method of hydrostatic sealing

When taking steel, cast iron, copper or plastic pipes through walls, ceilings or floors, PSI sleeves are the best method of hydrostatic sealing.

Whenever LINK-SEAL® modular seal is used to seal the annular space between the carrier pipe and the wall duct, the PSI sleeve is also an essential item.

PSI sleeves are made of welded or seamless steel pipes. These can be supplied in galvanised or bare steel to protect against corrosion.

Other corrosion protection methods are available on request (e.g. electrostatic powder coating). Sleeves can also be made of special steel.

The standard PSI sleeve is supplied with a welded-on anchor flange. This acts as an annular water-stop plate which ensures 100 % seal and also serves as a wall anchor.

Sleeve diameters are selected to suit the respective pipe and LINK-SEAL® modular seal.

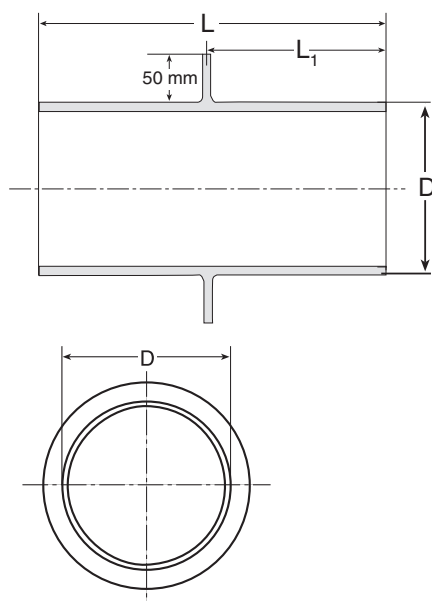
When ordering sleeves please specify

When ordering PSI sleeves, please specify dimensions for D, L, L₁, the outside diameter of the carrier pipe to be passed through, and the desired LINK-SEAL® modular seal type.

Example: PSI sleeve 168.3 x 4 (D = sleeve OD)
 300 (L = sleeve length in mm)
 150 (L₁ = flange arrangement)

Available sizes are indicated in the price list.

Technical changes reserved.



General Information



Another cost-effective and reliable method of hydrostatic sealing

Material

PSI sleeves made of asbestos-free fibre cement are ideal for the hydrostatic sealing of steel, cast iron, copper and plastic pipes passing through walls, ceilings or floors.

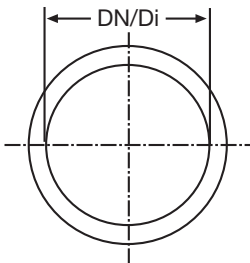
Asbestos-free fibre cement consists of cement, sand, cellulose material and synthetic fibres and is grey in colour.

Resistance

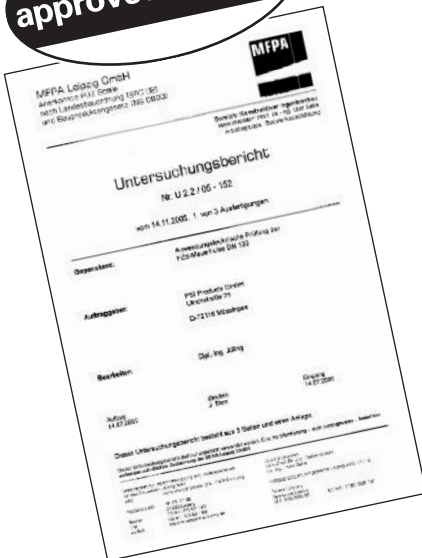
It is resistant to corrosion, impermeable to water and non-conducting.

The sleeve can either be set in concrete, fixed in the wall or installed watertight in a wall opening by means of mortar. The surface grooves ensure good adhesion to the surrounding structure. Approved by the German MFPA-Leipzig up to 5 bar.

In connection with our LINK-SEAL® modular seal the annular space between the carrier pipe and the inner surface of the fibre cement sleeve is absolutely watertight.



approved for 5 bar



Ordering details:

Nominal diameter / ID of 200 mm, length 300 mm, ND 200 x 300

Split version on request.



DN Size	Length 200 mm Part no.	Length 250 mm Part no.	Length 300 mm Part no.	Length 350 mm Part no.
80	3-029-00050	3-029-00051	3-029-00052	3-029-00506
100	3-029-00100	3-029-00120	3-029-00140	3-029-00152
125	3-029-00101	3-029-00121	3-029-00141	3-029-00215
150	3-029-00102	3-029-00122	3-029-00142	3-029-00331
200	3-029-00103	3-029-00123	3-029-00143	3-029-00153
250	3-029-00104	3-029-00124	3-029-00144	3-029-00154
300	3-029-00105	3-029-00125	3-029-00145	3-029-00158
350	3-029-00106	3-029-00126	3-029-00146	3-029-00159
400	3-029-00107	3-029-00127	3-029-00147	3-029-00156
450	3-029-00108	3-029-00128	3-029-00148	3-029-00179
500	3-029-00129	3-029-00129	3-029-00149	3-029-00138
600	3-029-00110	3-029-00130	3-029-00150	3-029-00332
700	3-029-00111	3-029-00131	3-029-00137	3-029-00139
800	3-029-00504	3-029-00505	3-029-00366	3-029-00367





DN Size	Length 400 mm Part no.	Length 450 mm Part no.	Length 500 mm Part no.	Length 600 mm Part no.
80	3-029-00053	3-029-00507	3-029-00054	3-029-00515
100	3-029-00160	3-029-00174	3-029-00200	3-029-00220
125	3-029-00161	3-029-00508	3-029-00201	3-029-00221
150	3-029-00162	3-029-00112	3-029-00202	3-029-00222
200	3-029-00163	3-029-00333	3-029-00203	3-029-00223
250	3-029-00164	3-029-00182	3-029-00204	3-029-00224
300	3-029-00165	3-029-00171	3-029-00205	3-029-00415
350	3-029-00166	3-029-00509	3-029-00206	3-029-00226
400	3-029-00167	3-029-00334	3-029-00207	3-029-00347
450	3-029-00168	3-029-00510	3-029-00208	3-029-00228
500	3-029-00169	3-029-00360	3-029-00209	3-029-00002
600	3-029-00170	3-029-00511	3-029-00210	3-029-00211
700	3-029-00300	3-029-00512	3-029-00136	3-029-00516
800	3-029-00368	3-029-00513	3-029-00514	3-029-00517

DN Size	Length 700 mm Part no.	Length 800 mm Part no.	Length 1000 mm Part no.	Length 1200 mm Part no.
80	3-029-00518	3-029-00524	3-029-00528	3-029-00529
100	3-029-00519	3-029-00234	3-029-00260	3-029-00530
125	3-029-00281	3-029-00282	3-029-00261	3-029-00359
150	3-029-00252	3-029-00343	3-029-00262	3-029-00359
200	3-029-00411	3-029-00344	3-029-00263	3-029-00424
250	3-029-00435	3-029-00345	3-029-00264	3-029-00324
300	3-029-00247	3-029-00346	3-029-00265	3-029-00531
350	3-029-00520	3-029-00115	3-029-00266	3-029-00532
400	3-029-00406	3-029-00436	3-029-00267	3-029-00422
450	3-029-00521	3-029-00525	3-029-00268	3-029-00533
500	3-029-00253	3-029-00419	3-029-00269	3-029-00534
600	3-029-00254	3-029-00278	3-029-00270	3-029-00615
700	3-029-00522	3-029-00526	3-029-00271	3-029-00535
800	3-029-00523	3-029-00527	3-029-00272	3-029-00536

Other sizes on request



Accessories Please copy the order sheet and fax to PSI Ltd +44 (0) 1480 404662

Description	pcs.	Ø I.D. in mm	Ø O.D. in mm	Length in mm	Part no.
Wall sleeve PVC 		50	54	400	4-014- 22700
		60	65	400	4-014- 22701
		70	75	400	4-014- 22702
		80	85	400	4-014- 22703
		90	95	400	4-014- 22704
		100	106	400	4-014- 22705
		125	131	400	4-014- 22718
		150	160	400	4-014- 22707
		200	210	400	4-014- 22712
	reinforced wall thickness 		82	90	400
		100	110	400	4-014- 22709
		250	280	400	4-014- 22711
Wall sleeve with cellar and lip-seal 		Ø I.D. in mm	Ø Cellar I.D. in mm	Length in mm	4-014- 22699
		100	110	500	
Wall-sleeve mounting cap PE-LD 		Ø ID PVC wall-sleeve in mm			
			60		*
			80		*
			100		4-014- 22713
			125		4-014- 22714
			150		4-014- 22715
			200		4-014- 22716
		250		4-014- 22717	

despatched by:

date/signature

PSI Century-Line® Sleeves

Technical Data



Century-Line® Sleeves are used to create circular holes in concrete poured barriers of all types including; walls, floors and ceilings. Molded from non-conductive, high impact resistant HDPE, Century-Line® sleeves are lightweight and easily installed by one construction worker without use of cranes or hoists. They are available in 16 diameters ranging from 2" to 25" (51mm - 635mm) and shipped, from stock, in any desired length.

Features

16 sizes - 2" to 25" in diameter

In the event of a field or engineering change, sleeves may be cut shorter at the job site using ordinary hand tools. Standard sleeves are 16" (40.6mm) in length. Longer length models may also be quickly fabricated as a custom ordered item.

1/8 the weight of steel

Century-Line® sleeves are light enough for one worker to install without a crane, hoist or helper which reduces installation time and costs. Century-Line® sleeves are easy to stock and far less expensive to ship, when compared to steel sleeves.

Resists water migration

The 2" (50.8mm) water stop collar not only anchors the sleeve in position but creates a path against the migration of water around the outside of the sleeve.

Adjusts to wall thickness

Century-Line® sleeves' unique hollow water stop collar acts like an expansion joint, adjusting (up to 1/2" - 12.7mm) to the thickness of the wall. This compressive force reacts against the forms like a spring, creating pressure and maintains proper sleeve location within the form.

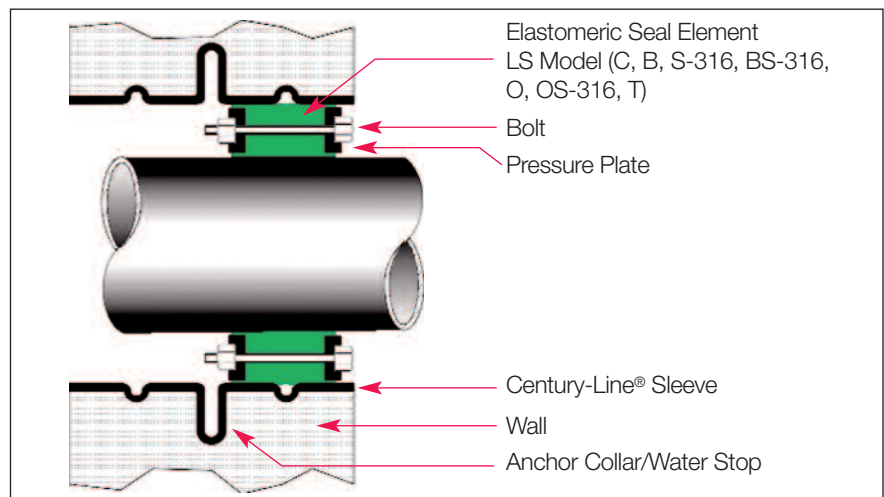
Nailer end caps position sleeve precisely in form

Specially designed end caps provide an ideal method for attaching Century-Line® sleeves to the concrete forms. The end caps assure that the sleeve holds its circular configuration during the pour. In addition to keeping out wet concrete, they also prevent dirt from entering the sleeve during

backfill operations or the interim construction period.

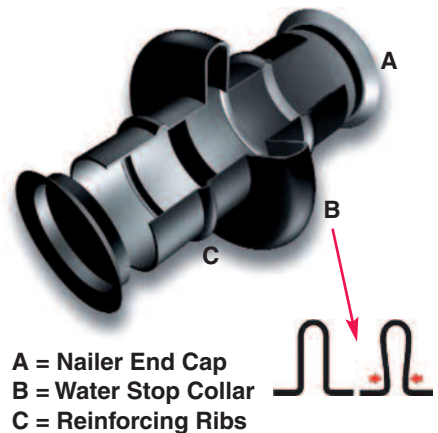
Tough high density polyethylene (HDPE) construction

High impact resistant HDPE also provides excellent resistance to acids, alkalis and other organic solvents. Ideal for cathodic protection systems, these non-conductive sleeves will neither rust, corrode or degrade. Lowtemperature properties are such that they may be installed under any weather conditions suitable for pouring concrete. High temperature application limit is 150° F. (66° C.). The sleeve is molded with a texture on the outside surface to assure a better bond than most plastic to concrete interfaces.



Weights and Dimensional Data Model CS (16" length)

MODEL	I.D. (In.)	I.D. (mm)	lbs.	Kg.
CS-2	2.09	53.1	0.70	0.32
CS-3	2.94	74.7	1.30	0.59
CS-3-1/2	3.38	85.9	1.50	0.68
CS-4	4.03	102.4	2.00	0.90
CS-5	5.14	130.6	2.80	1.27
CS-6	6.14	156.0	3.60	1.63
CS-8	8.21	208.5	4.80	2.18
CS-10	10.19	258.8	6.40	2.90
CS-12	12.26	311.4	7.20	3.27
CS-14	14.14	359.2	11.20	5.08
CS-16	16.18	411.0	12.00	5.44
CS-18	17.45	443.2	15.50	7.03
CS-20	19.12	485.6	17.50	7.94
CS-22	20.32	516.1	21.00	9.53
CS-24	22.76	578.1	22.00	9.98
CS-25	24.81	630.2	23.00	10.43



Adjusts To Wall Thickness

Century-Line® sleeves unique hollow water stop collar works like an expansion joint, adjusting (up to 1/2") to the thickness of wall. This design creates a dynamic force against the form.

Note: Swimming pool and floor applications, please specify exact lengths when ordering. Typically, a form is not installed on the top of a pool or floor, the CS sleeve water stop will not compress in these applications.

PSI Century-Line® Sleeves Installation Instruction



Century-Line® Sleeves are thermoplastic wall or floor pipe penetration sleeves. One person working alone can usually install a Century-Line® Sleeve regardless of the size.



1. Measure the center line to position Century-Line® Sleeve end cap.



2. Nail one of the end caps at the marked center line.



3. Place the Century-Line® Sleeve on the end cap. The sleeve and endcaps total length should be one-fourth longer than the width of the wall. Cut with a hand or power saw.



4. Place second end cap on sleeve. Check to determine that the cap is properly inserted.

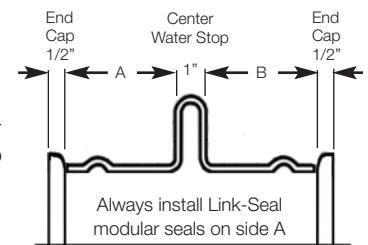
Always Wear Safety Equipment When Using Century-Line® Sleeves & Link-Seal Modular Seals!



5. For additional stability, it's necessary to secure the sleeve with wire to the rebar. Inset the other end cap firmly and check that second end cap is positioned correctly and close the form.



6. After the concrete is poured and cured, remove end caps with screw driver or crow bar. End caps may be replaced to protect sleeve until pipe penetration is made.



Note: To insure minimum water migration, center the water stop in wall by cutting equal lengths from each end of the sleeve, except as noted below.

Wall Thickness	Cut From Left End	Dimension A	Cut From Right End	Dimension B
16"	0.0"	7.125"	0.0"	7.125"
14"	1.875"	6.125"	1.875"	6.125"
12"	1.875"	5.125"	1.875"	5.125"
10"	2.375"	4.625"	3.375"	3.625"
8"	2.375"	4.625"	5.375"	1.625"

Alternative Technique Using Threaded Rod



After nailing end cap to form, drive (threaded rod*) through the end plate and form and (thread nut*) on other side.

Note: Remember to measure the (threaded rod*) to match the length of the sleeve.

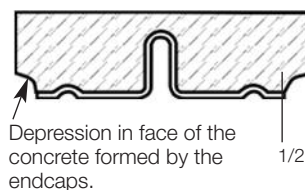


Place the sleeve over the end cap nailed to the form.



Place second cap on the sleeve and use a (block of wood*) and (wing nut*) to tighten unit in place. Make certain sleeve is plumb.

* = Not Provided by PSI.



Notes:

- Example: To convert 16" to 12", cut 2" off each end.
- Endcaps leave 1/2" depression in face of concrete.
- On sleeves under 12" length, install Link-Seal® modular seal on the "long side" of the waterstop.
 - For Link-Seal® modular seals models LS-200, LS-275, LS-300, LS-315, LS-340 and LS-360 - install with pressure plates flush with outer edge of the sleeve.
 - For Link-Seal® modular seals models LS-325, LS-400, LS-410, LS-425 and LS-475 - install with pressure plates partially inserted into the sleeve. When tightened, the pressure plates will "pull" into the sleeve.
 - For Link-Seal® modular seals models LS-500, LS-525, LS-575 and LS-615 - the minimum sleeve length is 10". Follow the instructions in 3 above.