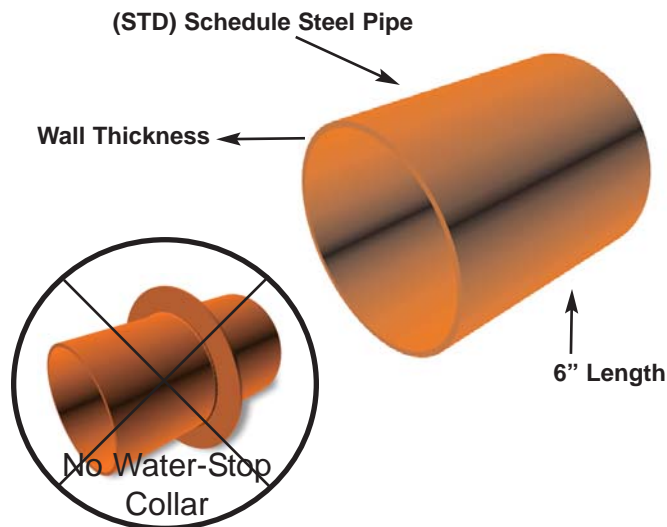


# WS Intermediate Steel Wall Sleeves

WS Intermediate Wall Sleeves are constructed from steel and are available in a wide range of diameters. They are an excellent choice for installations where the application requires two belts of Link-Seal® modular seals to fill the annular space.



## Model WS Intermediate Sleeves (6" length)

MODEL	I.D.	lbs.	Kg.
WS-2-15-S-6NW	2.07	1.83	0.83
WS-2-1/2-27-S-6NW	2.47	2.90	1.31
WS-3-21-S-6NW	3.07	3.79	1.72
WS-3-1/2-22-S-6NW	3.55	4.55	2.07
WS-4-23-S-6NW	4.03	5.40	2.45
WS-5-25-S-6NW	5.05	7.31	3.32
WS-6-28-S-6NW	6.07	9.49	4.30
WS-8-32-S-6NW	7.98	14.28	6.48
WS-10-36-S-6NW	10.02	20.24	9.18
WS-12-37-S-6NW	12.00	24.78	11.24
WS-14-37-S-6NW	13.25	27.29	12.38
WS-16-37-S-6NW	15.25	31.29	14.20
WS-18-37-S-6NW	17.25	35.30	16.01
WS-20-37-S-6NW	19.25	39.30	17.83
WS-22-37-S-6NW	21.25	43.30	19.64
WS-24-37-S-6NW	23.25	47.31	21.47
WS-26-37-S-6NW	25.25	51.30	23.28
WS-28-37-S-6NW	27.25	55.30	25.09
WS-30-37-S-6NW	29.25	59.30	26.91

**Note:** Intermediate Sleeves are 6" in length, with no welded water-stop collar.

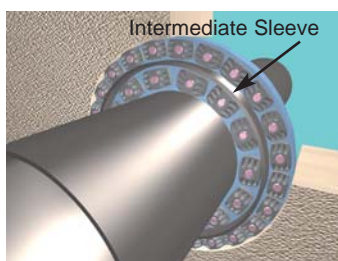
**NW** = No Water-Stop Collar

## WS Intermediate Steel Wall Sleeve - Specification

Provide WS Intermediate Steel sleeves for all pipes passing through concrete or masonry structures that require two belts to seal a large annular space. WS Intermediate steel sleeve sizes shall be (STD) standard wall thickness or .375". The WS Intermediate Steel Sleeve shall be primed inside and outside with Rust-o-Leum red primer #5268 or approved equivalent.

Pipeline Seal and Insulator, Inc., Houston, Texas, U.S.A shall provide WS Steel Sleeves.

## WS Intermediate Steel Wall Sleeve - Application



### Typical Application

Wall Opening = 18" Cored Hole  
Carrier Pipe = 10" API Type (10.75" O.D.)  
This is a differential of five pipe sizes: (11, 12, 14, 16, 18)

### Solution:

Use an inner belt of LS-425 and an outer belt of LS-575.

Intermediate sleeve should be two pipe sizes larger than the 10" carrier pipe. A 14" pipe with a .375" wall would be an excellent choice. Checking the Link-Seal® modular seal sizing chart on indicates a 10 x 14 WS sleeve requires 10 links of LS-425. The outer sleeve of 14 x 18 cored hole will require 16 links of LS-575.

For non-typical sizing assistance use sizing Method 2 and Page 18 of the Engineering Manual or call our toll free number: 1-800-423-2410.

**Reduce Intermediate Sleeve Applications:** Try eliminating your intermediate sleeve needs by sizing the model **LS-650**.

## WS Intermediate Steel Wall Sleeve - Installation

Follow the standard published Link-Seal® modular seal installation techniques. These can be found in the Engineering Manual (Page 22) Selection Guide (Page 8) or the Pocket Guide (Page 22).

When installing an intermediate sleeve, use the following supplementary steps.

- 1) Slide intermediate sleeve over centered pipe.
- 2) Slide **inner** belt assembly into annular space.
- 3) Slide **outer** belt assembly into annular space.
- 4) Tighten **outer** belt first, then proceed to tightening the **inner** belt.



## Pipeline Seal and Insulator, Inc.

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