

# EXTERNAL MOUNT SPLIT WALL SLEEVES

**Split Wall Sleeve  
Components**

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ISO-9001:2015 CERTIFIED COMPANY - FM537405



# EXTERNAL MOUNT SPLIT WALL SLEEVES

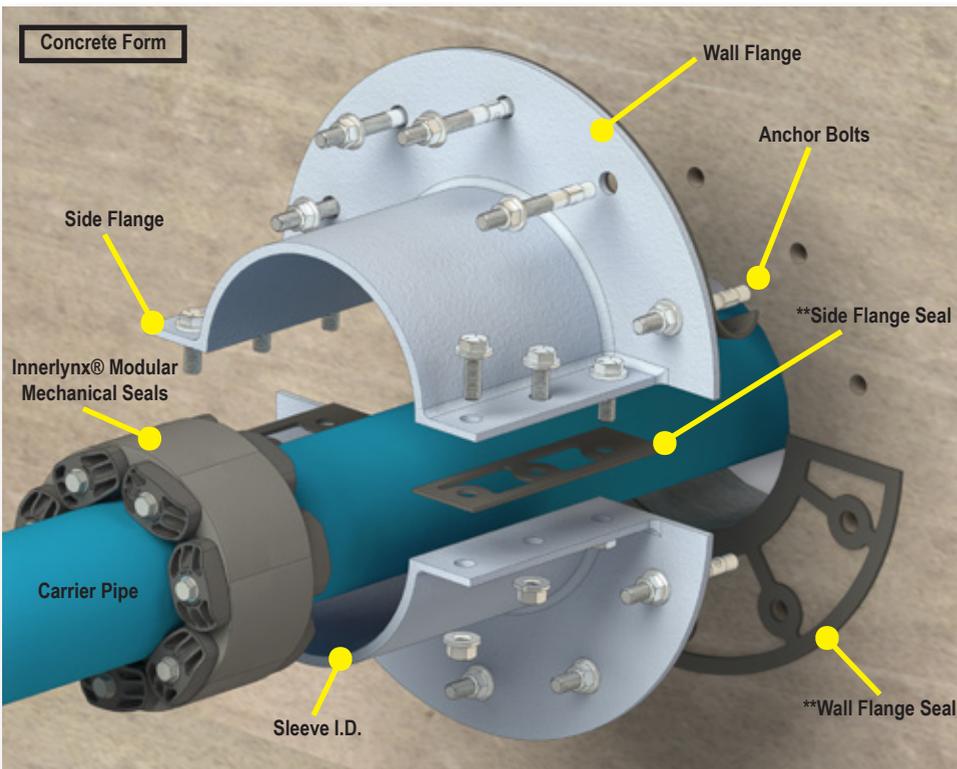
**The External Mount Split Wall Sleeve** is designed for sealing pipe penetrations through walls, floors, and ceilings in atypical scenarios. This wall sleeve is unique in that it can be installed after cement has been poured, whether that is 5 days or even 5 years. It also installs quickly and easily around existing piping in retrofit projects. The External Mount Split Wall Sleeve can also be used to back-up or replace existing wall penetrations which have inadequate sealing capability. These wall sleeves, combined with our Innerlynx® modular mechanical seals, can withstand up to 40 psig or 92 feet of head pressure. All External Mount Split Wall Sleeves come with anchor bolts and hardware for installation onto your pipe and concrete form. Material types offered: Gal-vo-plast® Steel, Stainless Steel, or Plain Steel.



Can be quickly & easily installed after cement has been poured & around existing piping in retrofit projects.

## Applications

- Wall, Floor, & Ceiling Penetrations
- Hospital Mechanical
- Quiet Rooms
- Electronic Equipment Rooms
- Aquariums
- Commercial & Residential Plumbing
- Septic Tanks
- Vibrations, Shock & Sound Dampening
- Pumps & Tanks
- Power Plants
- Power Generation Dams
- High-Pressure Tank Guards
- Waste Water Treatment Plants
- Public Works
- Manholes & Precast Concrete Forms



\*\*APS manufactures the wall flange and side flange seals pre-attached to the wall sleeve prior to delivery. No additional installation instructions for the wall flange and side flange seals are required.

Std. Pipe Sleeves	Sleeve ID	Flange OD
4	4.026	12.5
6	6.065	14.625
8	7.981	16.625
10	10.02	18.75
12	12	20.75
14	13.25	22
16	15.25	24
18	17.25	26
20	19.25	28
24	23.25	32
Large OD Sleeves	Sleeve ID	Flange OD
22	21.25	30
26	25.25	34
28	27.25	36
30	29.25	38
32	31.25	40
36	35.25	44
42	41.25	50
44	43.25	52

## RECOMMENDED MATERIALS:

- 1/2" Masonry Drill Bit
- Pipe Stand and Marker/Paint Pen
- Bolt Lubricant (for Stainless Bolts)
- Socket or Crescent Wrenches
- Compressed Air or Blow Out Bulb

**Prior to Starting:** The concrete form requires inspection to ensure that no imperfections or defects exist that may result in sleeve leakage. Flatness should also be verified using appropriate means.

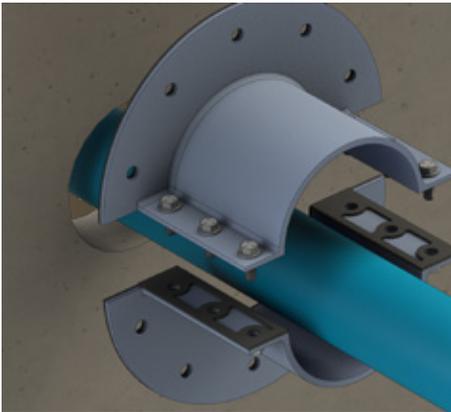
## WEDGE-TYPE ANCHOR BOLT INSTALLATION

1. Using a Masonry bit that meets ANSI SPECIFICATION B94.12-1997, drill hole equal to the diameter of the anchor bolt. Drill the depth of the hole at least 1/2" deeper than the wedge will penetrate, or 1/2" deeper than the minimum depth of embedment
2. Clean hole thoroughly of debris using compressed air or a blow out bulb.

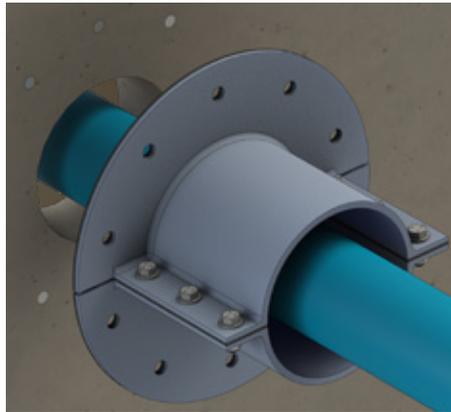
3. Assemble the nut and washer with the nut flush with the top of the anchor and, using a hammer, drive anchor through material to be fastened until the washer is flush with the surface.

4. Set anchor by tightening the nut 3 to 5 turns. Proper installation requires use of a torque wrench set to the suggested level.

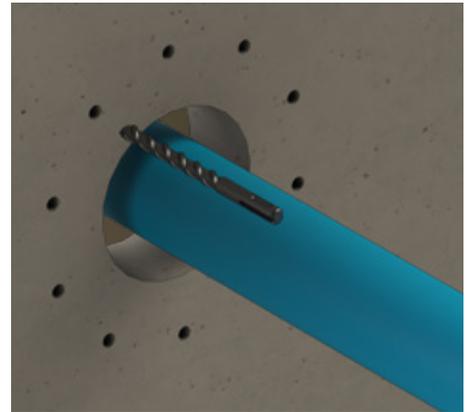
## INSTALLATION:



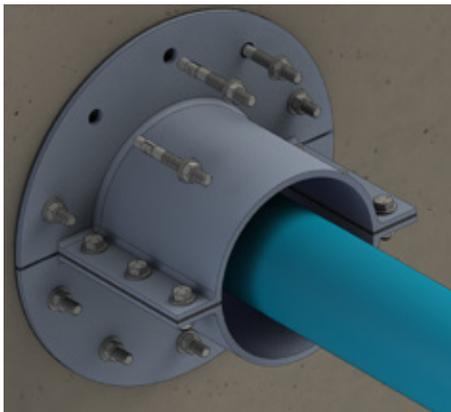
**1. Aligning Wall Sleeve:** Position the sleeve around the carrier pipe and align the flange faces even and sleeve ID concentric before tightening the side flange bolts to hand-tight plus a quarter turn.



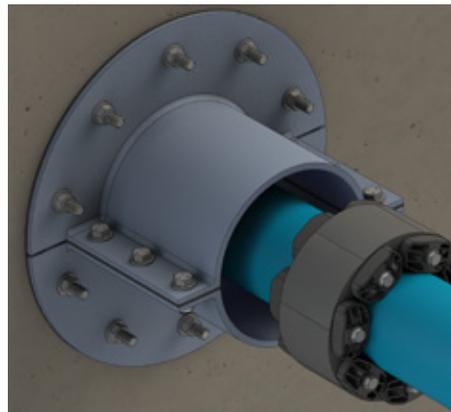
**2. Marking Wall:** Use wall sleeve as template to mark anchor bolt locations. A pipe stand or support can be used to help with positioning. Center the sleeve around the pipe—against the wall—and mark the bolt hole locations to be drilled.



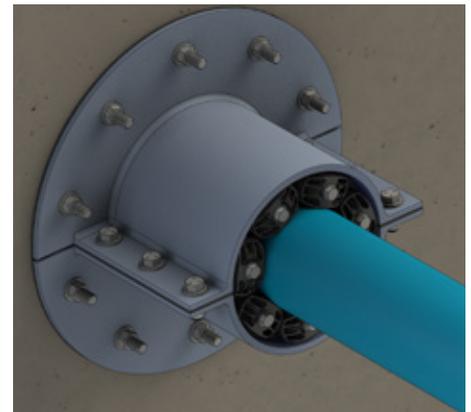
**3. Drilling Holes:** Drill using 1/2" masonry bit. Hole depth must be 2-3/4" min., up to 4" max. Clean holes of dust and debris to ensure proper function of anchor bolts using compressed air and a wire brush.



**4. Installing Anchor Bolts:** Assemble the nut and washer onto the anchor bolt with 1 to 2 threads showing above the nut. Using a hammer, drive the anchors through wall flange until fully embedded in the concrete form. In step increments, tighten anchor bolts up to 40 ft-lbs in a crisscross pattern. **See top of page 2 for instructions on installing anchor bolts.**



**5. Innerlynx Installation:** Reference Innerlynx installation instructions to fully install and tighten the Innerlynx around the pipe and inside the wall sleeve.



**6. Sleeve Final Torque:** If possible, allow the seals to relax into position and seat themselves before applying the final torque on all anchor bolts, in a crisscross pattern, to 40 +/- 10 ft-lbs. Then, fully torque side bolts to 20 +/- 5 ft-lbs. (Torque is for dry Zinc-Plated bolts. For SS bolts, use a lubricant and multiply torque by 0.7).

## BEFORE ORDERING, ENSURE THAT :

1. Carrier Pipe OD
2. Wall Penetration ID (EMSW Size)
3. Material Required (Gal-vo-plast Steel, Stainless Steel, or Plain Steel)

## OTHER PRODUCTS AVAILABLE

- Innerlynx® Modular Mechanical Seals
- Infinity® Wall Sleeves
- Gal-vo-plast® Wall Sleeves
- Flange Isolating Gasket Kits
- UBolt-Cote® & Atlas Pipe Support® Pads



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