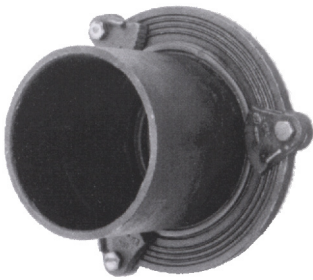
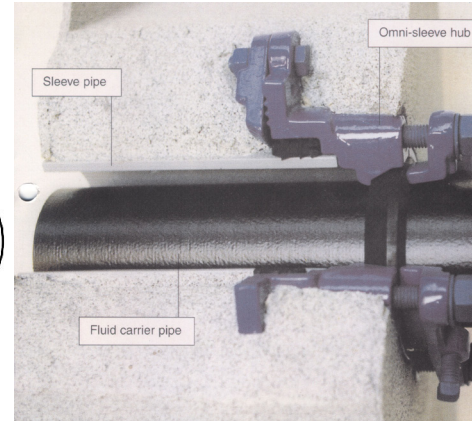
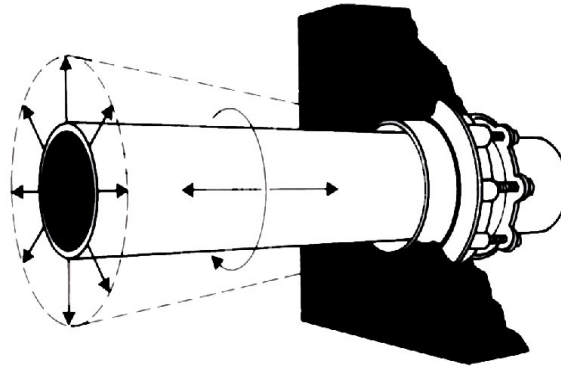
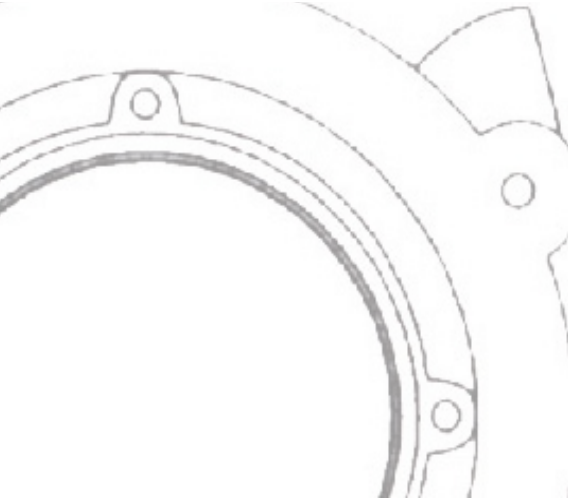


OMNI SLEEVE™ Wall Pipe Penetration Sleeve



OMNI SLEEVE with sleeve pipe as installed

HUB:

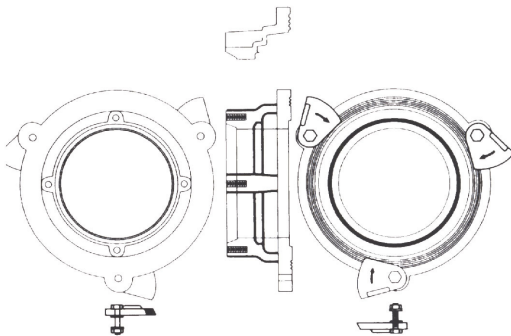
Manufactured from Ductile Iron, ASTM A536, in conformance with ANSI/AWWA C110/A21.10, Section 1011, American National Standard for Ductile and Gray Iron Fittings, 3-48" for water and other liquids.

Mechanical Joint sleeve seal is designed, manufactured, and tested in strict accordance with the applicable provisions of ANSI/AWWA C111/A21.11, American National Standard for Rubber Gasket Joints for Cast Iron and Ductile Iron Pressure Pipe and Fittings.

Drilling and Tapping conform to ANSI B1.11960, Unified Screw Threads, and to B1.2-1966, Screw Thread Gages and Gaging. Threads conform to standards and dimensions of the Coarse Thread Series, Class 2B Limits. OMNI-SLEEVE™ Hub and Sleeve Pipe are assembled and sealed with an exclusive OMNI-SEAL™ gasket.

OMNI-SEAL 'A' GASKET:

Material conforms to the applicable provisions of CSA B 620M90, Mechanical Couplings for Drain, Waste, Vent Pipe, and Sewer Pipe.

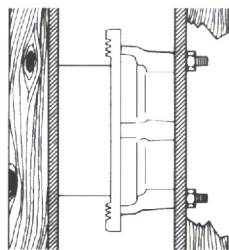


OMNI SLEEVE™ Wall Pipe Penetration Sleeve

Dimensional Chart

Dimensions in Inches
Weights in Pounds

Carrier Pipe Size	Part No.	Carrier Pipe OD		Sleeve Pipe OD	Waterstop Diameter	Distance Waterstop to Wall	MJ Bolt Circle Diameter	Bolt Holes	
		DI	Steel					No	Size
3	OSL63	3.96	3.5	6.9	11 3/4	4 3/16	6.19	4	5/8 x 3
4	OSL64	4.8	4.5	6.9	11 3/4	4 3/16	7.5	4	3/4 x 4
6	OSL86	6.9	6.625	9.05	14	4 3/16	9.5	6	3/4 x 4
8	OSL108	9.05	8.625	11.1	16	4 3/16	11.75	6	3/4 x 4
10	OSL1210	11.1	10.75	13.2	18 1/4	4 3/16	14	8	3/4 x 4
12	OSL1412	13.2	12.75	15.3	20 1/4	4 3/16	16.25	8	3/4 x 4
14	OSL1614	15.3	N/A	17.4	22 3/8	4 5/16	18.75	10	3/4 x 5
16	OSL1816	17.4	N/A	19.5	24 1/2	4 5/16	21	12	3/4 x 5
18	OSL2018	19.5	N/A	21.6	26 5/8	4 5/16	23.25	12	3/4 x 5
20	OSL2420	21.6	N/A	25.8	30 3/4	4 5/16	25.5	14	3/4 x 5
24	OSL3024	25.8	N/A	32	37	4 5/16	30	16	3/4 x 5
30	OSL3630	32	N/A	38.3	43 3/8	5 9/16	36.88	20	1 x 6



OMNI SLEEVE installs accurately as it can be secured to the formwork with 2 bolts, which prevents slippage or dislocation during the concrete pour.

ALTERNATIVE GASKETS:

EPDM: (ethylene propylene) suitable for water and wastewater, ozones, and strong oxidizing chemicals. Temperature Range 65-250 degrees Fahrenheit.

CR: (neoprene) suitable for moderate chemicals and acids, oil fats, greases, and many solvents. Temperature Range 65-200 degrees Fahrenheit.

NBR: (Buna-N, Nylril, Hycar) suitable for gasoline, petroleum products, hydrocarbons, acids, animal and vegetable oils. Temperature Range: 65-150 degrees Fahrenheit.

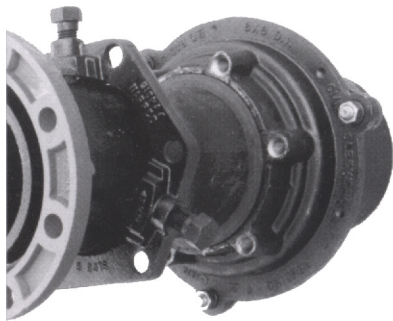
FPM: (Viton) ideal for all aliphatic, aromatic, and halogenated hydrocarbons, acids, animal, and vegetable oils. Temperature Range 50-450 degrees Fahrenheit.

PRESSURE RATING:

Standard mechanical joint pressure pipe seal rated to 350psi.

Suggested Specification

Wall and/or floor pipe penetrations shall be made by a means of a sleeve capable of being bolted directly to the formwork to prevent misalignment. Seal of the annular space between the carrier pipe and the sleeve shall be by means of a confined rubber gasket an capable of withstanding 350psi. Sleeve shall be manufactured from ASTM A536 Ductile Iron with an integrally cast waterstop of 1/2" minimum thickness and 2-1/2" minimum height. Wall sleeves shall be OMNI-SLEEVE™ as manufactured by SIGMA Corporation or prior approved equal.

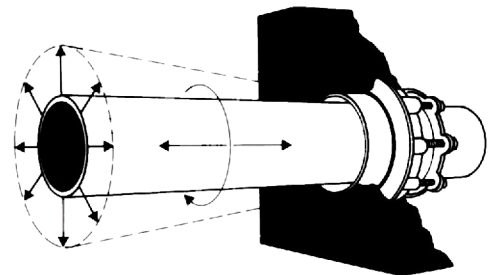


Restraint Option

OMNI-SLEEVE's standard mechanical joint also provides restraint options for your carrier pipe. Shown at left is a typical installation utilizing SIGMA's ONE-LOK Wedge Action Restraint Gland. Using a ONE-LOK or alternatively, using tie-rods from the OMNI-SLEEVE to the next flange will provide additional restraint to the assembly.

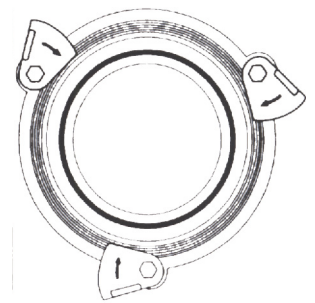
Vibration Absorption

OMNI-SLEEVE's unique design adapts to settling and seismic movement and also allows deflection of the carrier pipe system.



Other Features

- Integrally cast-in waterstop
- Ribbed Anchor Ring to provide more positive seal with concrete
- AWWA/ANSI Standardized Bolt Hole Spacing
- Cam Locks rotate into place to secure the carrier pipe



LOCATIONS

North Region

Cream Ridge, New Jersey (HQ)

Phone (800) 999-2550
 Fax (609) 758-1158
 crm-sales@sigmaco.com

Sauk Village, Illinois

Phone (888) 999-0420
 Fax (708) 758-6790
 chi-sales@sigmaco.com

South Region

Alexander City, Alabama

Phone (800) 824-4513
 Fax (256) 234-4956
 rps-sales@sigmaco.com

Houston, Texas

Phone (800) 999-0109
 Fax (281) 987-0200
 htn-sales@sigmaco.com

West Region & Canada

Ontario, California

Phone (800) 688-6230
 Fax (909) 391-2033
 ont-sales@sigmaco.com

Auburn, Washington

Phone (800) 688- 6230
 Fax (909) 391-2033
 ont-sales@sigmaco.com

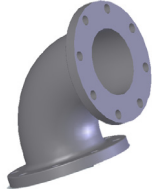
Victoriaville, Quebec, Canada

Phone (888) 744-6262
 Fax (819) 758-1153
 crm-sales@sigmaco.com

Innisfil, Ontario, Canada

Phone (877) 436-3800
 Fax (705) 436-6338
 crm-sales@sigmaco.com

AWWA Ductile Iron Fittings



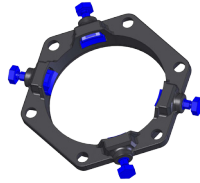
- 2-48" mechanical joint fittings (AWWA C153 & C110)
- 2-48" C110 / 54-64" C153 flanged fittings (cast iron also available)
- 3-48" MJ and 3-48" Flanged AWWA Fittings, Domestic Manufacture
- 4-24" TRIM TYTON® C153 / 14-24" TYTON® push on fittings
- 4-24" C110 push on fittings
- C116 fusion bonded epoxy lining available
- PROTECTO 401® ceramic epoxy lining available

Mechanical Joint Accessories



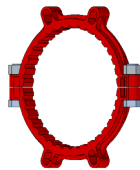
- Prepackaged and loose mechanical joint accessories
- SIGMASEAL™ improved mechanical joint gasket
- Snap-on multi-purpose gasket for ductile iron or PVC pressure pipes
- Ductile iron set screw retainer glands
- OMNI-SLEEVE™ improved wall penetration sleeve
- Specialty bolts and nuts for mechanical joint assemblies

ONE-LOK™ Wedge Action Restraints



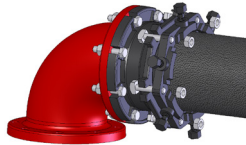
- 3-48" ONE-LOK SLDE restraint for ductile iron pipe (import or domestic)
- 3-36" ONE-LOK SLCE restraint for PVC pipe (import or domestic)
- 3-36" ONE-LOK SLDEH bell joint harness for ductile iron pipe
- 4-12" / 20" ONE-LOK SLDM restraint for oversized cast iron pipe
- 4-36" ONE-LOK SSLD split restraint for existing ductile iron pipe
- 4-36" ONE-LOK SSLDH split restraint harness for existing ductile iron pipe
- 4-12" ONE-LOK SLCEH bell joint harness for PVC pipe

PV-LOK™ Serration Lock Restraints



- 4-48" PV-LOK PWM Restraint for MJ Fitting to PVC pipe
- 4-48" PV-LOK PWP Restraint for PVC bell joint restraint
- 4-48" PV-LOK PWPF Restraint for PVC fitting to PVC pipe
- 4-12" PV-LOK PWH PVC bell joint harness
- 2-12" PV-LOK PVM Restraint for MJ Fitting to IPS PVC pipe
- 2-12" PV-LOK PVP Restraint for IPS PVC pipe bell joint
- 4-8" PV-LOK PVPF Restraints for IPS PVC pressure fitting

Flange Adapters



- 3-36" SIGMAFLANGE SFA flange adapter sleeve for PVC and DIP
- 2-48" ZIP FLANGE set screw style flange adapter

Municipal Construction Castings



- Manhole Rings and Covers
- Curb and Meter Boxes
- Frames and Grates
- Storm Inlets
- Valve Boxes, Risers, and Extensions

Products for the Ductile Iron Fabricator



- 3-64" High Hub Threaded Flanges
- 3-48" Tapped High Hub Threaded Flanges
- 3-36" Extra Heavy 250lb Drilled Threaded Flanges
- 3-48" Threaded MJ Bell Adapters
- 3-48" MJ x PE Bell adapter (2ft)
- 3-48" Anchor Flanges
- 3-16" Filler Flanges

Extended Range Products



- FLANGE-PAK™ prepackaged flange accessory sets
- Polyethylene encasement for ductile iron pipe
- Copper tubing products
- Tracer wire & detectable/non-detectable marking tape
- Pipe joint lubricant & hydraulic cement
- Socket clamps and tie rod accessories
- BOXLOK Valve Box Alignment Device
- Cast Iron Companion Flanges