

ISOJOINT®

**FOR CATHODIC ISOLATION OF
LARGE DIAMETER STEEL WATER PIPES**



IsoJoint® Design

-see page 1

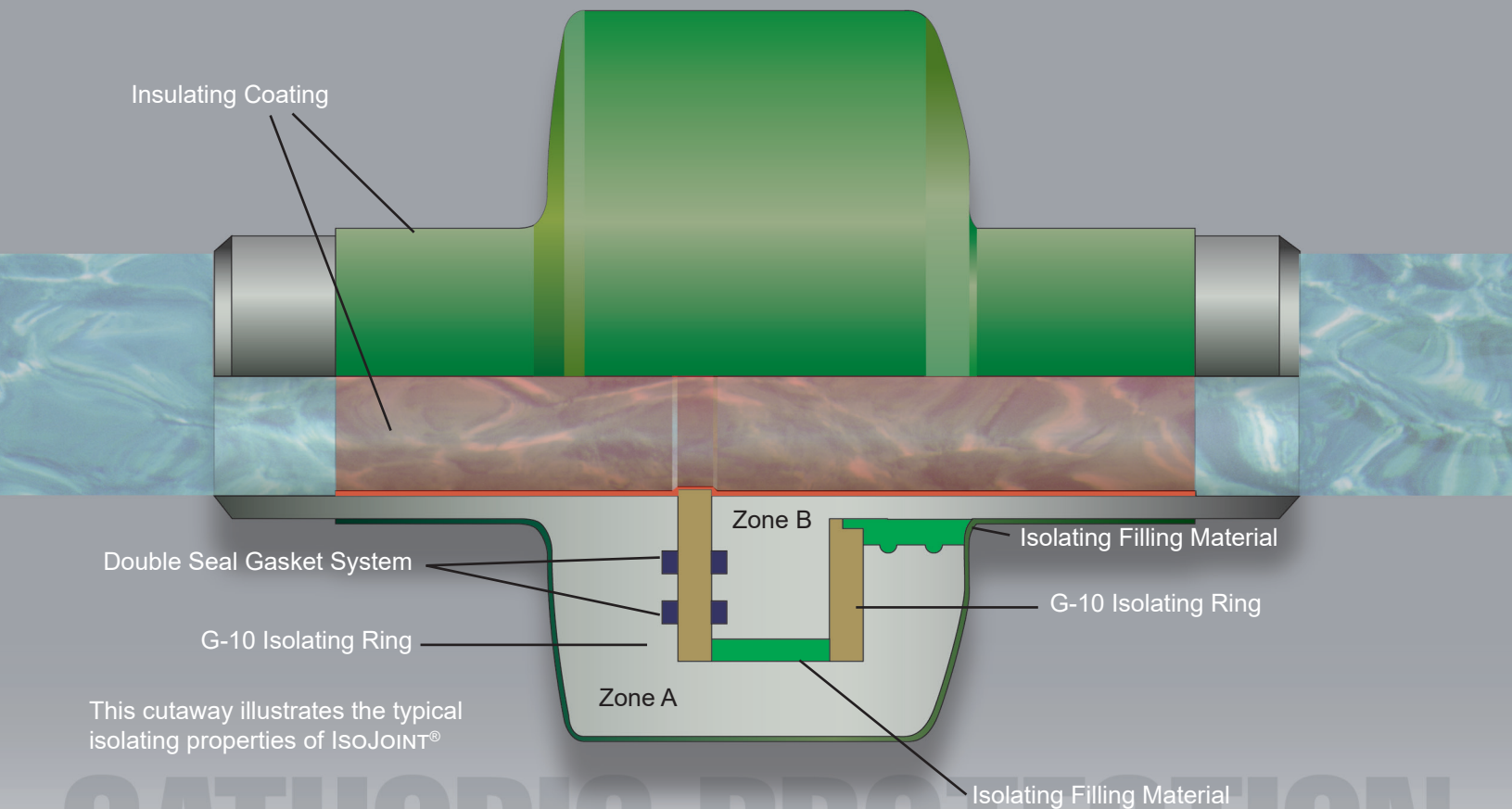
**IsoJoint® Benefits &
Advantages**

-see page 2



ADVANCE
PRODUCTS & SYSTEMS, LLC

ISO-9001 CERTIFIED COMPANY - FM537405



CATHODIC PROTECTION

IsoJoint® is a true monolithic isolating joint which effectively and efficiently stops short circuits and stray currents from damaging pipelines and equipment. IsoJoint® employs a double preassembled pressure seal which envelopes the isolating ring. Unlike isolating gasket kits, IsoJoint® does not depend on an installer to fit the gasket, sleeves and washers into place on location. Potentially, any one of these parts could be damaged causing a complete breakdown of the isolated flange, thus losing cathodic protection. Because IsoJoints® are welded into place as one-piece units, field problems are virtually non-existent and the integrity of the isolation is kept intact.

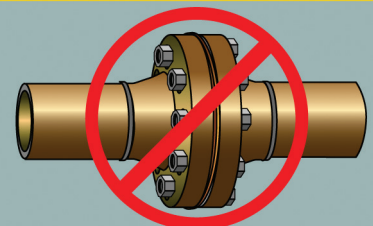
Furthermore, once installed, IsoJoint® can be buried and forgotten ending your maintenance worries. In contrast, inspection pits or vaults must be maintained when using gasket kits to check for shorts and monitor resistivity in gaskets. This requires a continuing maintenance program during the entire life of the pipeline.

IsoJoint® provides for current control by separating pipework into distinct zones and effectively eliminating long-line currents. This assures increased plant and equipment life by reducing or eliminating corrosion damage. Effective control can be attained where a branch is connected to the mainline, where two pipelines of different material connect, or where well-coated pipe meets a poorly coated system.

Advance Products and Systems, LLC. is the exclusive stocking distributor of the IsoJoint® monolithic weld-end or flange isolating joints. IsoJoint® range in sizes from 1/2" to 150" diameter with an ANSI rating of 150# to 2500#. All types of carbon and stainless steel are used to manufacture IsoJoint®. For superior cathodic protection, Advance Products and Systems' IsoJoint® is manufactured according to ASME VIII Division 1 standards and certified by ISO 9001 Quality Assurance making it the ultimate monolithic joint on the market today.



Sizes from 1/2" to 150" diameter

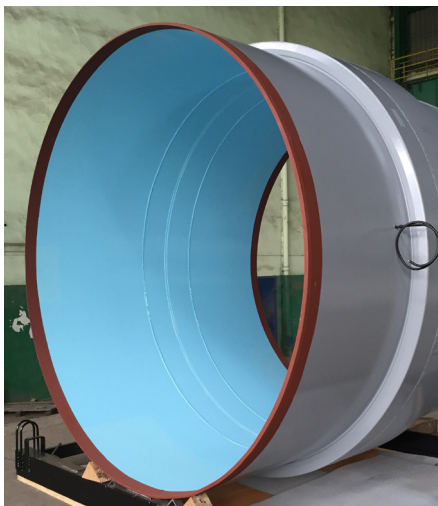


Gaskets:

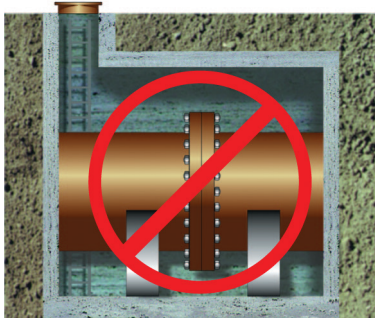
- are not resistant to bending
- may not seal properly
- are not earthquake resistant



60" diameter Isojoint



111" diameter Isojoint



No Need For Inspection Vaults

Benefits

- No loss of integrity due to thermal expansion or ground stress — as is common with flange isolating gasket kits.
- Factory tested hydrostatically to 1 1/2 times working pressure. Electrical resistance testing to required Mega Ohm @ 1000 VDC.
- Maintenance-free, reliable cathodic protection of equipment in required applications such as isolation treatment plants and pump bridge stations.
- No labor intensive, precise installation procedure required as with crossing gasket kits.
- No inspection pits or vaults for maintenance needed - weld into place and direct bury - reliable, worry-free cathodic isolation.
- Non-conductive epoxy coatings to help with CP of water liner.
- Isolates stray currents on the pipe from exterior forces such as electrical transmission lines, hot soil conditions and currents flowing from point to point.

Quality Assurance with over 40 years of industry-leading experience.

THRUST RESISTANCE

Re: 144" Diameter ISOJOINT®

Under actual performance tests can withstand a thrust compression load of 24,000 psi without compromising the structure or performance of the ISOJOINT®.

Minimum Yield Strength (SMYS)

Rating Of Metallic Materials:

- Pup (UNI5869 FE510) - 52,000 psi
- Belly (UNI5869 FE430) - 35,000 psi

Internal coatings - NSF Approved

Advantages In Savings

The notion that flange isolating gasket kits are more cost efficient than isolating joints is not correct when figuring in all the variables.

Materials, labor intensive installation, pre-online inspection and continuous maintenance, as well as possible and probable replacement of deteriorated gasket kits; over time all add up making the IsoJoint® a very effective and cost efficient method of cathodic isolation.

Isolating Flanges vs. ISOJOINT

One City's Independent Cost Analysis

54" Isolating Flange class 150

Total Cost
\$23,000

54" ISOJOINT class 150

Total Cost
\$19,000

After calculating all costs for required personnel, materials, equipment and time, a 10.5% up-front cost savings occurred with the use of ISOJOINT in place of isolating gasket kits. Additional savings are realized due to no-maintenance and long life characteristics (40 years or more) of ISOJOINT.

ORDER INSTRUCTIONS

1. Diameter of pipe
2. ANSI rating
3. Grade of pipe material
4. Wall thickness
5. Product to be transported
6. Temperature of transported material
(160° F is standard, higher temperature materials available upon request)
7. Electrical, hydrostatic, ultrasonic and dye penetrant testing of all joints is standard. Additional X-ray, magnetic particle testing or other specific specialize testing available if requested.
(Please state requirements)

OTHER PRODUCTS AVAILABLE

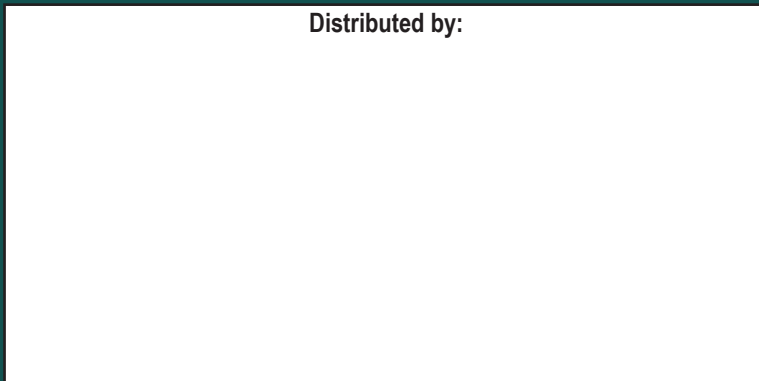
- Flange Isolating Gasket Kits
- Integra® Series Gaskets
- Kleerband® Flange Band Protectors
- Kleergel® Corrosion Inhibiting Grease
- Radolid® Nut & Bolt Protection Caps
- Casing Spacers & End Seals
- ApogeeAero® Roller Casing Spacers
- Bore & Duct Bank Spacers
- Innerlynx® Modular Mechanical Seals
- Wall Sleeves
- Foreman Nite Caps
- UBolt-Cote® & Atlas Pipe Support® Pads
- Safety Spray Shields



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