

CATHODIC PROTECTION FOR LARGE DIAMETER STEEL WATER PIPES



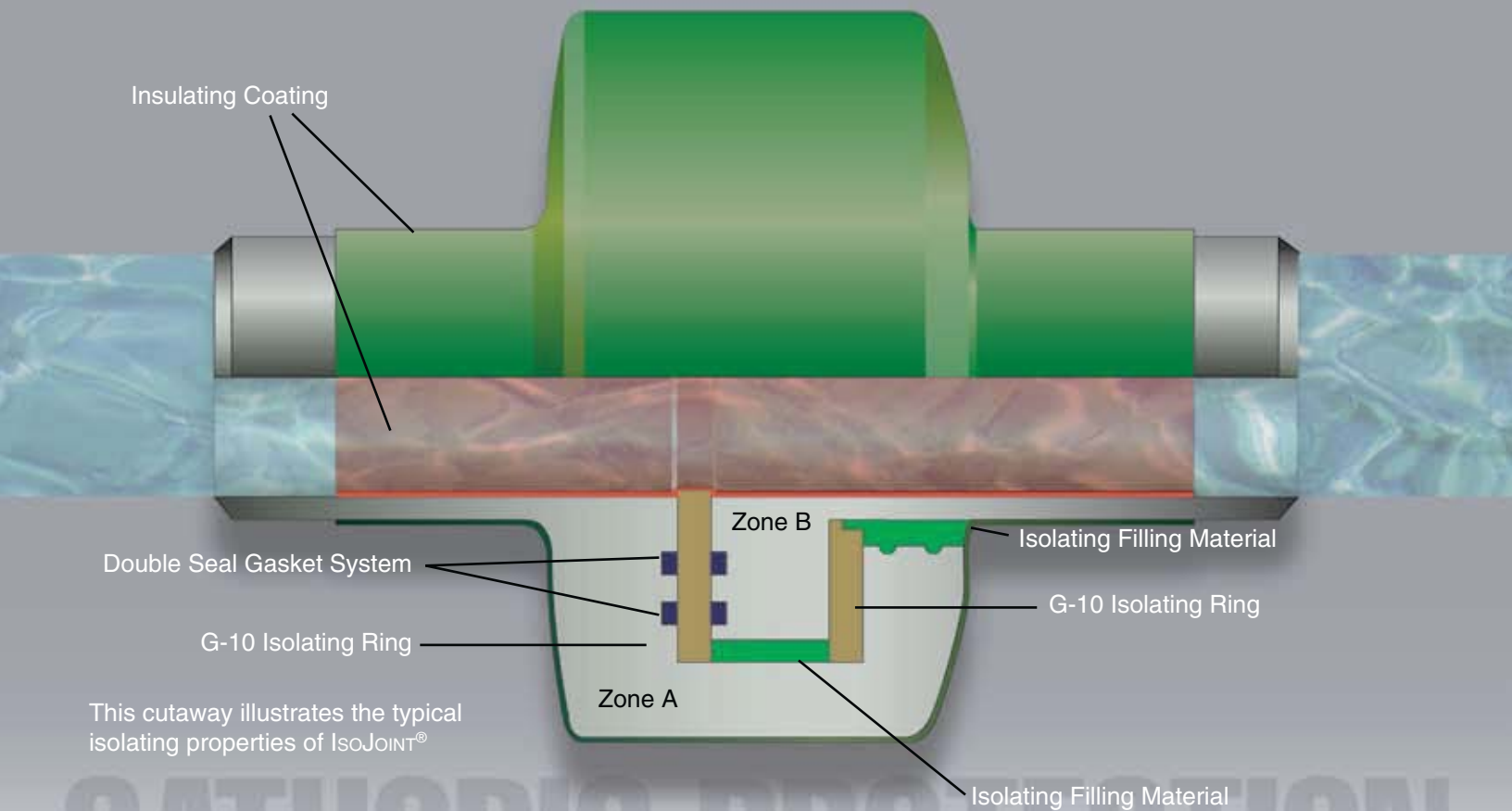
ISOJOINT[®]



Advance
Products & Systems

FOR CATHODIC
PROTECTION OF
LARGE DIAMETER
STEEL WATER
PIPES

ISO-9001 CERTIFIED COMPANY - FM537405



This cutaway illustrates the typical isolating properties of ISOJOINT®

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, Inc. is the exclusive stocking distributor of the ISOJOINT monolithic weld-end or flange isolating joints. ISOJOINTS 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 ISOJOINTS.

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

Quality Assurance with 32 Years of Manufacturing Monolithic Joints

THRUST RESISTANCE

Re: 144" Diameter ISOJOINT®

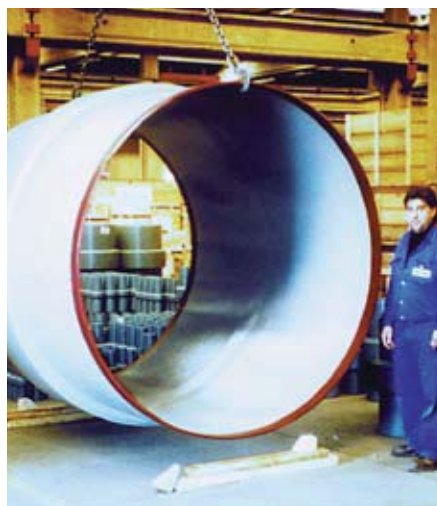
Under actual performance tests can withstand a thrust compression load of 24,000 psi without compromising the structure or performance of the ISOJOINT®.

Minimum Yield Strength (SMYS)

Rating Of Metallic Materials:

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

Internal coatings - NSF Approved
Acts as thrust block



90" diameter Isojoint

Benefits & Advantages

- 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.

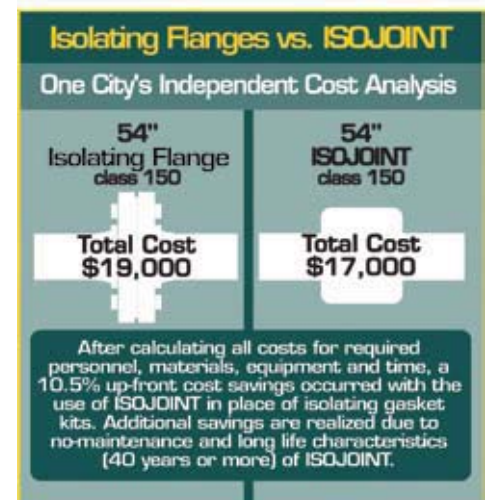


No Need For Inspection Vaults

Advantages In Savings

The notion that flange insulating 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.



Ordering Information

When ordering, please give the following information:

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 Quality Products Available

- Flange Isolation Kits
- Kleerband® Flange Band Protectors
- Radolid® Nut & Bolt Protection Caps
- Casing Spacers & End Seals
- Centralizers
- Innerlynx® Modular Mechanical Seals
- Foreman Nite Caps, Temporary Pipe Plugs
- U-Bolt Cote®
- Inspect-a-Lift® Pipe Supports
- Safety Spray Shields

BSI Management
Systems America, Inc.

ISO 9001:2008
REGISTERED
COMPANY

CERTIFICATE # FM 537405
FORMERLY QMI # 1041990



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