



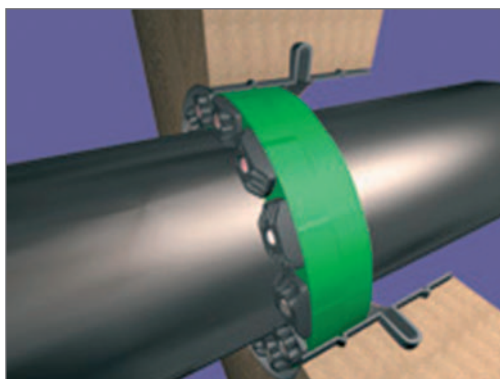
LINK SEALS

REVISION 1

APPLICATION

Link-Seal® mechanical seals are considered to be the premier method for permanently sealing pipes of any size passing through walls, floors and ceilings. In fact, any cylindrical object may be quickly, easily and permanently sealed, as they pass through barriers, by the patented Link-Seal design.

LINK SEAL DATA



Ductile iron, concrete, metal as well as plastic pipes may be hydrostatically sealed within walls to hold up to 20 psig (40 feet of head). Electrical or telecommunications cables may be sealed within conduit as they enter vaults or manholes. The annular space between carrier pipes passing through casings may be sealed against the entry of water, soil or backfill material. With a wide variety of hardware/ elastomer combinations, Link-Seal mechanical seals are easily configured to achieve the best possible match for service conditions encountered.

Saves time and money...Link-Seal mechanical seals install in up to 75% less time compared to lead-oakum joints, hand fitted flashings, mastics or casing boots.

Positive hydrostatic seal...Link-Seal mechanical seals are rated at 20 psig (40 feet of head), which exceeds the performance requirements of most applications.

Long seal life...Link-Seal mechanical seals are designed for use as a permanent seal. Seal elements are specially compounded to resist aging and attack from ozone, sunlight, water and a wide range of chemicals.

Maximum protection against corrosion...Standard fasteners with a two-part organic resin coating or corrosion resistant 316 stainless steel.

Certification/Approvals...Factory Mutual Fire Approvals. Det Norske Veritas Marine Deck/Bulkhead Penetration Certification. ANI (American Nuclear Insurers). Also a wide variety of approvals from various Federal agencies, associations, code groups, laboratories and organizations.

ISO Quality Assurance...Link-Seal mechanical seals are manufactured in an ISO 9002 certified facility.

Configure a Link-Seal to match your application...Colour coded EPDM, Nitrile, & Silicone elastomers may be used with various hardware options to match performance characteristics with service conditions



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Link-Seal® Options

with EPDM Seal Elements



Model "C" Link-Seal

Suitable for use in water, direct ground burial and atmospheric conditions. Provides electrical isolation where cathodic protection is required.
 Type: Standard
 Seal Element: EPDM (Black)
 Pressure Plates: Composite
 Bolts & Nuts: Steel with 2-part Zinc Dichromate & Organic Coating
 Temp. Range: -40 to +121°C

Model "S-316" Link-Seal

For chemical processing & waste water treatment. EPDM rubber is resistant to most inorganic acids and alkalis, some organic chemicals (acetone, alcohol, ketones).
 Type: Stainless
 Seal Element: EPDM (Black)
 Pressure Plates: Composite
 Bolts & Nuts: 316 Stainless Steel
 Temp. Range: -40 to +121°C

with Nitrile Seal Elements



Model "O" Link-Seal

Nitrile rubber is resistant to oils, fuel and many solvents (gasoline, motor oil, kerosene, methane, jet fuel, hydraulic fluid, water, etc.).
 Type: Oil Resistant
 Seal Element: Nitrile (Green)
 Pressure Plates: Composite
 Bolts & Nuts: Steel with 2-part Zinc Dichromate & Organic Coating
 Temp. Range: -40 to +99°C

Model "OS-316" Link-Seal

Combination of oil-resistant rubber and stainless steel hardware.
 Type: Oil Resistant
 Seal Element: Nitrile (Green)
 Pressure Plates: Composite
 Bolts & Nuts: 316 Stainless Steel
 Temp. Range: -40 to +99°C

with Silicone Seal Elements



Model "T" Link-Seal

Silicone rubber is ideal for temperature extremes. "T" model is one hour Factory Mutual approved.
 Type: High/Low Temperature
 Seal Element: Silicone (Grey)
 Pressure Plates: Steel Zinc Dichromate
 Bolts: Steel with 2-part Zinc Dichromate & Organic Coating
 Temp. Range: -55 to +204°C

Model "FD/FS" Link-Seal

Double seal for added protection.
 Type: Fire Seals
 Seal Element: Silicone (Grey)
 Pressure Plates: Steel Zinc Dichromate
 Bolts: Steel with 2-part Zinc Dichromate & Organic Coating
 Temp. Range: -55 to +204°C

Link-Seal - Specifications and Dimensional Data

Material Properties of Link-Seal Seal Elements

PROPERTY	ASTM METHOD	EPDM	NITRILE	SILICONE
Temperature Range		-40 to +250°F. -40 to +121°C.	-40 to +210°F. -40 to +99°C.	-67 to +400°F. -55 to +204°C.
Hardness (shore A)	D-2240	47 ±3	50 ±5	50 ±5
Tensile	D412	1450 psi	1300 psi	880 psi
Elongation	D412	400%	300%	250%
Compression Set	S-395	15%	45%	40%
		22 hrs. @ 158°F (70°C)	22 hrs. @ 212°F (100°C)	22 hrs. @ 350°F (177°C)
Specific Gravity	D-297	1.10	1.42	1.40

Material Properties of Composite Pressure Plates

PROPERTY	ASTM METHOD	VALUE
Izod Impact - Notched	D-256	2.05 ft-lb/in
Tensile Strength @ Yield	D-638	20,000 psi
Tensile Strength - Break	D-638	20,250 psi
Flexural Strength @ Yield	D-790	30,750 psi
Flexural Modulus	D-790	1,124,000 psi
Elongation, Break	D-638	11.07%
Specific Gravity	D-792	1.38
Moisture Content	--	0.18%

Bolt & Nut Specifications

Standard: Carbon Steel
 Tensile Strength = 74,000 psi, min.
 Plating: Yellow zinc dichromate per ASTM B633
Option: Stainless Steel
 ANSI Type = 316
 Tensile Strength = 85,000 psi, average.

Performance data and technical information provided herein is intended for guideline purposes only. Suitability of product configurations for specific applications should be determined by the user.