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Band-Seal® Coupling - Submittal
CS & PS Series
Performance Couplings for Similar and Dissimilar Pipe Sizes and Materials

PROJECT _____________________________
ENGINEER ____________________________
CONTRACTOR _________________________

For Installations
Requiring a Shielded Transition Coupling that Joins Similar and Dissimilar Pipe Sizes and Pipe Materials

SIZES ¼” THROUGH 4” -  2 BANDS
SIZES 5” THROUGH 12” -  4 BANDS

Tensile Strength
Elongation
Durometer (Shore A)
Accelerated Aging
Compression Set
Oil Immersion
Ozone Cracking
Tear Resistance
Water Absorption

GASKET PHYSICAL TESTS (ASTM C 564)

Test
Tensile Strength
1500 PSI minimum
Elongation
250% minimum
Durometer (Shore A)
70 ± 5 @ 76˚F ± 5˚F
Accelerated Aging
15% maximum tensile and 20% maximum elongation deterioration. 10 points maximum increase in hardness. All determinations after oven aging for 96 hours at 158˚F.
Compression Set
15% maximum after 22 hours at 158˚F
Oil Immersion
80% maximum volume change after immersion in ASTM oil #3 for 70 hours at 212˚F
Ozone Cracking
No visible cracking at 2X magnification of the gasket after 100 hours exposure in 1.5 PPHM ozone concentration at 100˚F. Testing and inspection to be on gasket which is loop-mounted to give approximately 20% elongation of outer surface.
Tear Resistance
Die C 150 lbs. minimum per inch of thickness
Water Absorption
20% maximum by weight after 7 days at 158˚F

Gasket
This gasket is fabricated from a compound with high-quality elastomeric properties to meet physical testing.

MISSION REFERENCE
CS & PS SERIES
SHIELD DIMENSIONS
SEALING GASKET DIMENSIONS
MISSION MADE

Used to Join - CS Series couplings are used to join cast iron to stainless steel. PS Series couplings are used to join plastic, steel or extra-heavy cast iron to stainless steel.
Mission’s Band-Seal® Specialty Coupling is a shielded transition coupling designed to connect similar and dissimilar pipe sizes and materials. Coupling consists of two (2) or four (4) 301 series stainless steel worm drive clamps, a 300 series stainless steel shield over a molded one-piece elastomeric sealing gasket. CS & PS Series couplings are available in sizes 1¼” to 4”, which utilize two (2) clamps. Leak-Proof Seal - Stainless steel clamps provide a positive seal when properly tightened to 60 in/lbs. of torque. Sealing “O” Rings are installed under each sealing clamp to prevent pipe slippage and create a more positive seal, ensuring a water-tight, leak-proof and root-proof seal.
Corrosion Resistant - 300 series stainless steel components provide highly effective corrosion resistance in a variety of environments.

Joint Movement Restrains - The Band-Seal® Specialty Coupling provides for superior load bearing control between the coupling and pipe surface. The coupling’s rugged construction provides excellent sealing properties, and the stainless steel shield offers excellent resistance to shear forces and helps with alignment, while maintaining flexibility.
Internal Pipe Stop - For proper pipe positioning and noise/vibration reduction.
Pre-Set Calibration - All Band-Seal® Specialty Couplings are designed to be installed with a pre-set torque wrench calibrated to 60 in/lbs. maximum to accommodate the 305 series stainless steel ⅜” hex head screw.