Mission Rubber Company LLC  
1660 Leeson Lane  
Corona, CA 92879  
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For Installations  
Requiring a Shielded Transition Coupling that  
Joins Similar and Dissimilar Pipe Sizes and Pipe Materials

<table>
<thead>
<tr>
<th>MISSION REFERENCE</th>
<th>SHIELD DIMENSIONS</th>
<th>SEALING GASKET DIMENSIONS</th>
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<tbody>
<tr>
<td>KC &amp; KT SERIES</td>
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<td>W</td>
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<tr>
<td>KC 215</td>
<td>9.38</td>
<td>2.12</td>
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<tr>
<td>KC 32</td>
<td>12.69</td>
<td>2.12</td>
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<tr>
<td>KC 43</td>
<td>16.00</td>
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<tr>
<td>KT 150</td>
<td>7.75</td>
<td>2.12</td>
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<tr>
<td>KT 215</td>
<td>9.38</td>
<td>2.12</td>
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Used to Join - KC Series couplings are used to join copper to cast iron, plastic or steel for KC 215 and KC 32; and copper to cast iron for KC 43. KT Series couplings are used to join copper to plastic or tubular for KT 150; and copper to tubular for KT 215.

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. KC & KT Series couplings are available in sizes ¾” 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 Restraint - 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 ⅝” hex head screw.

Mission’s Band-Seal® Specialty Coupling - Submittal  
KC & KT Series

MEETS:  
ASTM C 1460  
ASTM C 564  
ASTM A240/A240M  
CSA B602  
UPC 0743

TEST | GASKET PHYSICAL TESTS (ASTM C 564) | ASTM C 564
--- | --- | ---
Tensile Strength | 1500 PSI minimum | D412
Elongation | 250% minimum | D412
Durometer (Shore A) | 70 ± 5 @ 76°F ± 5°F | D2240
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. | D573
Compression Set | 15% maximum after 22 hours at 158°F | D395
Oil Immersion | 80% maximum volume change after immersion in ASTM oil #3 for 70 hours at 212°F | D471
Ozone Cracking | No visible cracking at 2X magnification of the gasket after 100 hours exposure in 1.5 PPM 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 | D624
Water Absorption | 20% maximum by weight after 7 days at 158°F | D471

MATERIALS

Band: Series 301 ASTM stainless steel
Screw Housing: Series 301 ASTM stainless steel
Screw Saddle: Series 301 ASTM stainless steel
Screw: Series 305 ASTM stainless steel
Shield: Series 301 ASTM stainless steel
Gasket: This gasket is fabricated from a compound with high-quality elastomeric properties to meet physical testing.

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