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QwikSeal Technical Data Sheet

Gasket: EPDM Rubber Conforming to ASTM C 923

<u>Property</u>	<u>Requirement</u>	<u>Test Method</u>
Specific Gravity (g/cc)	-	ASTM D 297
Hardness (Shore A)	50-75	ASTM D 2240
Tensile Strength (psi)	1000	ASTM D 412
Elongation at Break (%)	200	ASTM D 412
Tear Strength (ppi)	-	ASTM D 624
Water Absorption (% Δ in Wt. Max)	20	ASTM D 471
Chemical Resistance (48h at 23°C)		ASTM D 543
1 N Sulfuric Acid Absorption	no wt. loss	
1 N Hydrochloric Acid Absorption	no wt. loss	
Compression Set (% Δ Max)	25	ASTM D 395
Heat Aging (96 h at 70°C)		ASTM D 573
Δ in Hardness (Shore A)	+10	
Tensile Strength (% Δ Max)	- 25	
Elongation at Break (% Δ Max)	- 35	
Ozone Resistance		ASTM D 1149
50pphm, 100 h at 40°C, 20% elongation	no cracks	

Clamp:

- Conforms to the Requirements of SAE J1508 Type HD
- All Components Constructed of 316 Stainless Steel Conforming to ASTM A 240/A 240M
- The Housing is of Two Piece Construction, Mechanically Locked to the Band
- Installation Torque of 60"lbs., Ultimate Torque at Failure 150"lbs.

Performance Tests:

- QS-4, QS-6, QS-8, QS-4S40, QS-6S40:
 - Tested to the Performance Requirements of Section 7 of ASTM C 923
 - 7.2.1 "Straight Alignment" – Connecting Pipe of Appropriate Diameter to a 24" Diameter Manhole Base, 13psi Hydrostatic Pressure, 10 Minutes, No Leaks
 - 7.2.2 "Axial Deflection" – Connecting Pipe of Appropriate Diameter to a 24" Diameter Manhole Base, Axial Deflection 7°, 10psi Hydrostatic Pressure, 10 Minutes, No Leaks
 - 7.2.3 "Shear Load" – Connecting Pipe of Appropriate Diameter to a 24" Diameter Manhole Base, 150lb Load/Nominal Inch of Pipe ID, 10psi Hydrostatic Pressure, 10 Minutes, No Leaks
- QS-4, QS-4S40: Hydrostatically Tested to 5psi for 30 Minutes with no Leakage Installed in 8" and Larger Concrete, Clay, and Plastic Pipe
- QS-6, QS-6S40: Hydrostatically Tested to 5psi for 30 Minutes with no Leakage Installed in 10" and Larger Concrete, Clay, and Plastic Pipe
- QS-8: Hydrostatically Tested to 5psi for 30 Minutes with no Leakage Installed in 15" and Larger Concrete, Clay, and Plastic Pipe

Installation:

- QS-4 Connects 4" SDR-35 Pipe to 8" and Larger Concrete, Clay, Plastic and Corrugated
- QS-6 Connects 6" SDR-35 Pipe to 10" and Larger Concrete, Clay, Plastic and Corrugated
- QS-8 Connects 8" SDR-35 Pipe to 15" and Larger Concrete, Clay, Plastic and Corrugated
- QS-4S40 Connects 4" SCH 40 PVC to 8" and Larger Concrete, Clay, Plastic and Corrugated
- QS-6S40 Connects 6" SCH 40 PVC to 10" and Larger Concrete, Clay, Plastic and Corrugated