

PRECISION FIT

FABRICATED BEVELED REDUCER STAINLESS STEEL



PRODUCT DESCRIPTION

Ideal Products' Stainless Steel beveled reducers are precision fabricated using CAD design and CNC cutting techniques to ensure a proper fit in accordance with ASTM C585 standards. The standard material for these reducers is 0.016" T304 stainless steel without polyfilm. While the standard beveled reducers are concentric, featuring the same center line from front to back, eccentric reducers with an offset centerline can be designed and manufactured to meet specific requirements.

Given that beveled reducers are custom made, they can be fabricated from any stocked material and thickness, whether smooth or embossed, to align with the specifications of your project. These reducers are equipped with a 1/2" to 3/4" crimped flange and a center hole that is pre-cut to match the required outside diameter of the pipe or insulation. The fabrication materials used meet the standards outlined in ASTM A240 for stainless steel.

PRODUCT APPLICATION

Stainless steel precision fabricated beveled reducers are mainly used to provide physical damage resistance, corrosion resistance, fire resistance, UV protection, and to help prevent liquid water from entering the insulation system. Typical, but not limited to, applications include pipe flanges, valves, and other custom mechanical insulation profiles where beveled reducers are utilized as a component of the insulation system.

PHYSICAL PROPERTIES

FINISHES

SMOOTH PLAIN MILL | STUCCO EMBOSSED

COLORS

A variety of colored exterior finishes can be accommodated for desired aesthetic preferences or to reach specific emissivity levels. Please refer to Ideal Products standard color chart for reference. Other colors are available upon request.

RECOMMENDED APPLICATION THICKNESSES

STAINLESS STEEL PIPE JACKETING *min. thickness**

OUTER INSULATION DIAMETER (in)	MINIMUM ALLOWABLE THICKNESS (in)
≤ 8	0.010
over 8 – 11	0.010
over 11 – 24	0.010
over 24 – 26	0.016
Over 36	0.020

*as per ASTM C1767

MATERIAL SPECIFICATIONS

ALLOY	T304/T304L; T316/T316L
TEMPERS	Annealed
THICKNESSES	0.010", 0.016", 0.020", 0.024"
MOISTURE BARRIERS	Bare or Factory Applied Co-extruded 3 mil Polyethylene Film
MELTING POINTS	Stainless Steel T-304: 1400 °C to 1450 °C (2552 °F to 2642 °F) Stainless Steel T-316: 1370 °C to 1400 °C (2498 °F to 2552 °F) Polyfilm: 105 °C to 115 °C (221 °F to 239 °F)
ASTM E84 Flame Spread/Smoke Development	25/50 or Less
ASTM C-1371 Surface Emittance	> 0.15 New; 0.3 Oxidized in Service
ASTM C-1767	T-304: Type 1, Grade 1, Class A & E T-316: Type 1, Grade 2, Class A & E

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