INTRINSIC

UniLok Heat Shrinkable Rings

Description of Product

UniLok is a family of nickel-titanium shape memory alloy rings used for permanent and semi-permanent fastening, sealing, and electrical interconnection. The rings shrink in diameter when heated, producing a uniform radial clamping pressure. Alloys H and C are used for permanent fastening, alloys B and D for demateable fastening, and alloys G and N for short term clamping and actuation.

Index of Related Documents

PD ACE	Rectangular	Section,	Cryogenic

PD AGE Rectangular Section, 105°C Recovery Temperature

PD AHE Rectangular Section, Heat-To-Recover

PD ANE Rectangular Section, 125°C Recovery Temperature

PD ADE Rectangular Section, 35°C Recovery Temperature

PD BGE Circular Section Welded, 105°C Recovery Temperature

PD BHE Circular Section Welded, Heat-To-Recover, English Units

PD 003 Installation Procedure, Heat-To-Recover

PD 004 Installation Procedure, Cryogenic

PD 005 Material Properties

PD 008 Geometric Modifications

PD 009 Clamping Force Calculation

Part Numbering System

AHE0505-0071-0141I

A H E 0505 0071 0141 I Geometry -A - ring with rectangular cross section B - ring fabricated by forming and welding round wire Allov : B - 55°C recovery temperature C - cryogenic D - 35°C recovery temperature G -105°C recovery temperature H - heat to recover N - 125°C recovery temperature Units E - English (inches) M - Metric (mm) Inside Diameter of Ring, Minimum, As Supplied Format: Y.YYY" X 1000 or YY.YY mm X 100 (example, 0.505") For Alloys G & N, this is as measured at the minimum recovery temperature. Thickness of Ring, Nominal, As Supplied Format: Y.YYY" X 1000 or YY.YY mm X 100 (example, 0.071") Axial Length of Ring, Nominal, As Supplied Format: Y.YYY" X 1000 or YY.YY mm X 100 (example, 0.141") Omit for welded wire rings.

Modifications

B - Matte finish.

E - Alloy H with recovery temperature >60°C

O - Grey / black oxide finish. T- surface textured for enhanced friction & adhesion

S - sized to a particular diameter, delivered shrunk C - With geometric modification per PD 008.

V - With fixed surface finishing process for in vivo applications.

- I With electrical insulating layer applied to ring ID to aid direct resistance heating.
- J With electrical insulating layer applied to ring ID and end faces to aid direct resistance heating.
- P With temperature indicating paint corresponding to full clamping force temperature.

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Product Document

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