

RUGGEDODE™ PROCESS ANODE

CerAnode's RUGGEDODE™ is a high-current MMO process anode engineered for demanding in-process applications, including heat exchangers, water boxes, pipes, valves, and pumps. It features an arc-plasma-sprayed dielectric interface between the titanium anode rod and the process fitting, providing enhanced mechanical strength, dielectric strength, and seal integrity. The RUGGEDODE™ is designed to fit standard off-the-shelf LB or GALB junction boxes for rigid conduit or cable glands and is available in standard and custom sizes.

Features:

- Titanium substrate with an inert conductive ceramic coating
- Molded to a 316 stainless steel process fitting with a plasma-sprayed dielectric-ceramic epoxy-FRP interface
- Conductive ceramic chemistry: iridium oxide in combination with valve metal oxides
- Electrical isolation/insulation spec: insulation resistance test tested at 2.5 kV
- Mechanical/interface design details including a continuous arc plasma-sprayed dielectric ceramic interface plus compliant seals and a chlorine-gas-resistant barrier

Advantages:

- Easy installation
- Factory connections
- Rugged construction for harsh industrial
- High mechanical strength
- Excellent process seal / leak-proof composite construction
- Very high insulation resistance / electrical isolation between the titanium element and steel process fitting
- Long-life rating of 20 years at rated output

1/4" Brass Screw Terminal and Washers for Spade Lug.

Conductive Metal Oxide Ceramic Over Titanium Round Bar provides exceptional electrolytic wear rates.

PRODUCT VIEW



An arc plasma-sprayed ceramic dielectric system isolates the solid titanium anode from the steel fitting, providing high insulation resistance and structural integrity. Compliant seals and a chlorine-resistant barrier ensure leak-proof, long-term performance.

RUGGEDODE™ STANDARD PROCESS ANODE SPECIFICATIONS

Ampere Rating/Linear Foot for 20 Year Life								
Anode Part Number	Anode Current Rating Designator	DIELECTRIC LENGTH DIMENSION mm (inches) A	ANODE ELEMENT DIMENSION mm (inches) B	ELEMENT DIAMETER DIMENSION mm (inches) C	PROCESS FITTING NPT SIZE DIMENSION D	"LB" BOX CONDUIT NPT SIZE DIMENSION E	CURRENT RATING 20 YRS SEA WATER ¹ amps/m ² (amps)	CURRENT RATING 20 YRS FRESH WATER ² amps/m ² (amps)
RPA-R6-1/2-3/4	R	150 (6)	150 (6)	12.7 (1/2)	3/4"	1"	175 (1.0A)	66 (0.4A)
RPA-H6-1/2-3/4	H	150 (6)	150 (6)	12.7 (1/2)	3/4"	1"	350 (2.1A)	132 (0.8A)
RPA-XH6-1/2-3/4	XH	150 (6)	150 (6)	12.7 (1/2)	3/4"	1"	700 (4.2A)	264 (1.6A)
RPA-R6-1/2-1	R	150 (6)	150 (6)	12.7 (1/2)	1"	1"	175 (1.0A)	66 (0.4A)
RPA-H6-1/2-1	H	150 (6)	150 (6)	12.7 (1/2)	1"	1"	350 (2.1A)	132 (0.8A)
RPA-XH6-1/2-1	XH	150 (6)	150 (6)	12.7 (1/2)	1"	1"	700 (4.2A)	264 (1.6A)
RPA-R6-3/4-1	R	150 (6)	150 (6)	19 (3/4)	1"	1"	175 (1.6A)	66 (0.6A)
RPA-H6-3/4-1	H	150 (6)	150 (6)	19 (3/4)	1"	1"	350 (3.2A)	132 (1.2A)
RPA-XH6-3/4-1	XH	150 (6)	150 (6)	19 (3/4)	1"	1"	700 (6.4A)	264 (2.4A)
RPA-R9-1/2-3/4	R	230 (9)	230 (9)	12.7 (1/2)	3/4"	1"	175 (1.6A)	66 (0.6A)
RPA-H9-1/2-3/4	H	230 (9)	230 (9)	12.7 (1/2)	3/4"	1"	350 (3.2A)	132 (1.2A)
RPA-XH9-1/2-3/4	XH	230 (9)	230 (9)	12.7 (1/2)	3/4"	1"	700 (6.4A)	264 (2.4A)
RPA-R9-1/2-1	R	230 (9)	230 (9)	12.7 (1/2)	1"	1"	175 (1.6A)	66 (0.6A)
RPA-H9-1/2-1	H	230 (9)	230 (9)	12.7 (1/2)	1"	1"	350 (3.2A)	132 (1.2A)
RPA-XH9-1/2-1	XH	230 (9)	230 (9)	12.7 (1/2)	1"	1"	700 (6.4A)	264 (2.4A)
RPA-R9-3/4-1	R	230 (9)	230 (9)	19 (3/4)	1"	1"	175 (2.4A)	66 (0.9A)
RPA-H9-3/4-1	H	230 (9)	230 (9)	19 (3/4)	1"	1"	350 (4.8A)	132 (1.8A)
RPA-XH9-3/4-1	XH	230 (9)	230 (9)	19 (3/4)	1"	1"	700 (9.6A)	264 (3.6A)

Typical Part Number (RPA-H9-3/4-1) & Description:

RPA-H-A9"-B9"-C3/4"-D1"NPT-EI"NPT

NOTES: Anode specifications may change without notice. Consult CerAnode for current information.

¹Assumes total immersion in water. Reduce current 50% for operation below 5 degrees C. Electrolyte impurities may also affect rating.

² Assumes total Immersion in water. Reduce current 50% for operation below 10 degrees C. Electrolyte impurities may also affect anode life.