

# PROBE ANODES

Impressed Current Anodes



*MATCOR probe anodes are used in cathodic protection systems for water boxes, internal surfaces of pipelines, vessels and other industrial applications.*

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## Impressed Current Anodes

### PRODUCT DETAILS

MATCOR probe anode provides superior performance with the most advanced sealing system available. The MATCOR probe anode sealing is comprised of machined water stops, O-rings and sealing compounds subject to high pressure sealing during the final phase of assembly. MATCOR probe anodes are manufactured with a machined stainless steel housing and each probe anode is tested for water sealing and electrical isolation resistance. An optional conduit box is available.

### COMPONENTS

- Probe anode segments are available in MMO and platinum/titanium. They are machined with sealing features.
- Probe anode housing is 304/316 stainless steel, schedule 80. Other materials are available.
- An optional conduit box is available
- Internal features include O-rings, sealing compounds and water stops



*MATCOR Probe Anode with optional conduit housing.*

### BENEFITS

Manufactured in the USA at MATCOR's ISO 9001:2008 facility

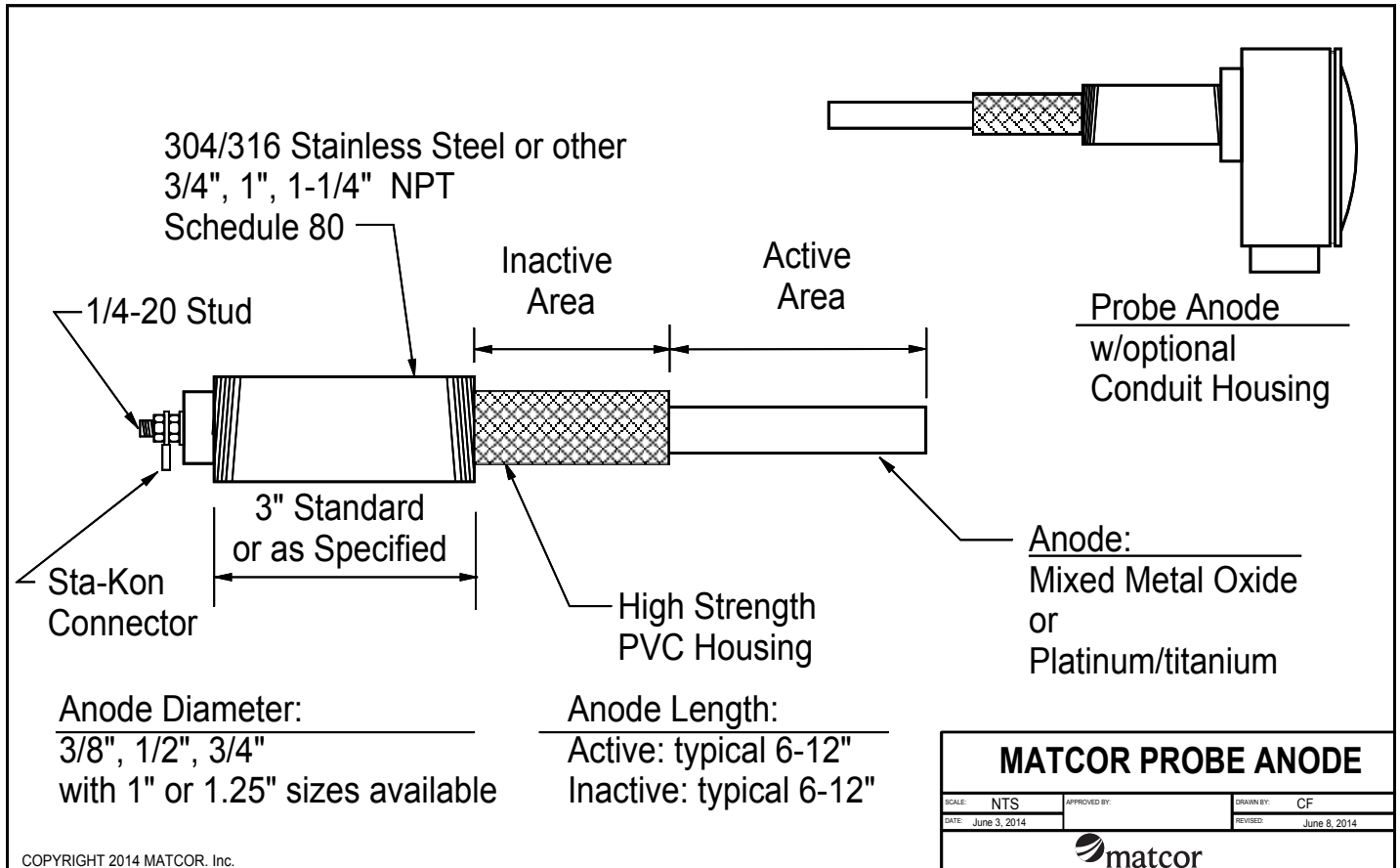
100% tested for sealing and electrical resistance integrity

Many standard sizes available

Available in MMO and platinum/titanium

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### OPTIONS

- Conduit box for anode connections: specify hub size for conduit connection
- MATCOR probe type reference electrodes in Ag/Ag/Cl, zinc or other material
- Cathodic protection system design
- Rectifiers and fittings

### ORDERING

When ordering the MATCOR probe anode, provide the following:

- Current output
- Life required
- Fresh or sea water
- Nipple material
- Nipple length
- Diameter of anode rod
- Active length
- Inactive length
- MMO or platinum

Please contact MATCOR engineering with questions and for assistance with probe anode selection and sizing.

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### STANDARD SIZES AVAILABLE

MATCOR Base Part No.	Anode Diameter Inches (mm)	Active Length Inches (mm)	Platinum Current Output Amps	MMO Current Output Amps	Thread Sizes Available NPT Inches	Resistance Ohms In Seawater 25 Ω-cm
PRN 037506	0.375 (9.5)	6 (152.4)	1.65	3.2	¾, 1, 1-1/4	2.6
PRN 050006	0.500 (12.7)	6 (152.4)	1.65	4.3	1, 1-1/4	2.4
PRN 075006	0.750 (19.1)	6 (152.4)	1.65	6.4	1, 1-1/4	2.1
PRN 037509	0.375 (9.5)	9 (228.6)	2.5	4.8	¾, 1, 1-1/4	1.9
PRN 050009	0.500 (12.7)	9 (228.6)	3.3	6.4	1, 1-1/4	1.8
PRN 075009	0.750 (19.1)	9 (228.6)	5.0	9.6	1, 1-1/4	1.6
PRN 037512	0.375 (9.5)	12 (304.8)	3.3	6.4	¾, 1, 1-1/4	1.5
PRN 050012	0.500 (12.7)	12 (304.8)	3.3	8.5	1, 1-1/4	1.4
PRN 075012	0.750 (19.1)	12 (304.8)	3.3	12.8	1, 1-1/4	1.3
PRN 037518	0.375 (9.5)	18 (457.2)	4.95	9.6	¾, 1, 1-1/4	1.1
PRN 050018	0.500 (12.7)	18 (457.2)	4.95	12.8	1, 1-1/4	1.0
PRN 075018	0.750 (19.1)	18 (457.2)	4.95	19.2	1, 1-1/4	0.9
PRN 100006	1.0 (25.4)	6 (152.4)	4.4	8.5	1-1/4	1.9
PRN 125006	1.25 (31.8)	6 (152.8)	5.6	10.6	1-1/4	1.8
PRN 100009	1.0 (25.4)	9 (228.6)	6.7	12.8	1-1/4	1.4
PRN 125009	1.25 (31.8)	9 (228.6)	8.3	16.0	1-1/4	1.4
PRN 100012	1.0 (25.4)	12 (304.8)	8.9	17.0	1-1/4	1.2
PRN 125012	1.25 (31.8)	12 (304.8)	11.1	21.3	1-1/4	1.1
PRN 100018	1.0 (25.4)	18 (457.2)	13.3	25.5	1-1/4	0.9
PRN 125018	1.25 (31.8)	18 (457.2)	16.7	31.9	1-1/4	0.8

The probe anode inactive area can be provided in varying lengths to accommodate the design and installation. If separation from the structure is not a concern, a minimum inactive length of 3" (76.2 mm) is acceptable.



MATCOR is a Brand Energy & Infrastructure Services Company.

#### REGIONAL OFFICES

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