corrpro

IMPRESSED CURRENT ANODES

Durichlor 51 Button and Bullet

Cast Iron Anodes

Designed For Secure Mounting

Cast iron anodes provide excellent protection in aqueous environments. For structures such as water boxes, locks and dams, where space is limited and fluctuating water velocities are present, Corrpro supplies button and bullet cast iron anodes. The anodes are designed for secure mounting on the sides of metal structures and are made using the Durichlor 51 alloy. This alloy allows for a low anode consumption rate of between 0.75 and 1.0 lb/amp-yr. and an operating density of 1 amp/ft^2. The anode's superior operating performance is made possible by the presence of chromium and silicon in the Durichlor alloy. Chromium gives the anodes extra durability, thus making them less susceptible to damage from abrasion or erosion. Silicon in conjunction with chromium also causes silicon dioxide to form on the surface of these anodes. With this film, the anodes are more resistant to low pH environments, are better protected from pitting, and are more conductive in aqueous electrolytes.

Corrpro button and bullet anodes are offered in a several different mounting configurations. The button anodes are designed for fastening by either stainless steel bolts, pre-cast studs in the anode, or welded studs on the protected structure. Lead wire connections can be made either parallel or perpendicular to the mounting fastener. Bullet anodes are attached by a 10" metal rod, which is coated with a special epoxy resin and covered with non-conductive tubing. The metal rod serves as the lead wire connection for the bullet anode.

CHEMICAL COMPOSITION

Element	Content %
C	0.70-1.10
Mn	1.50 Max
Si	14.20-14.75
Cr	3.25-5.00
Mo	0.20 Max
Cu	0.50 Max
Iron	Remainder

Typical Applications

Button and bullet anodes are designed specifically for use in water environments where a small and secure anode is preferred. Button anodes are most often used on locks, dams, and other structures where a low profile anode is required. The bullet anode, which is mounted on a metal rod, is ideally suited for use in condenser water boxes. Both anode types operate efficiently in fresh, brackish, and salt-water environments.

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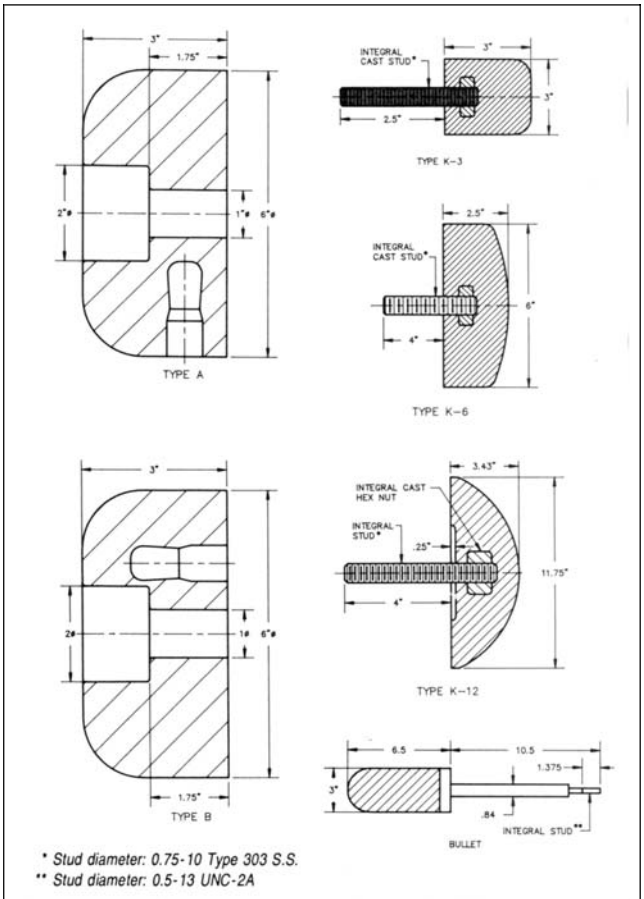
Cast Iron Anodes

Ordering Procedure

Corrpro button and bullet anodes are available in several different weights and diameters. To order the required anode for your structure, indicate that you need a cast iron button or bullet anode and specify the quantity desired, the anode type, and mounting style. Lead wire length, gauge, and insulation must also be specified for Type A and B button anodes. An example is provided to help illustrate this process.

Ordering Procedure Example	
ITEM	**EXAMPLE**
Quantity	*25*
Anode Material	*Cast Iron Button*
Anode Type	*A*
Mounting Configuration	*Pre-Cast Anode Stud*
Wire: Length	*10 ft.*
Size *(#8 = standard)*	*#8 AWG*
Insulation *(HMWPE = std.)*	*HMWPE*



Standard Dimensions and Shipping Weights

ANODE TYPE	NOMINAL DIMENSIONS in. (mm) Ø		L		BARE WT lbs.	(kg)	MOUNTING OPTIONS
A	*6*	*(152.4)*	*3*	*(76.2)*	*18*	*(8.2)*	*Bolt, Stud*
B	6	(152.4)	3	(76.2)	18	(8.2)	Bolt, Stud
K 3	3	(76.2)	3	(76.2)	6	(2.7)	Stud
K 6	6	(152.4)	2.5	(63.5)	16	(7.3)	Stud
K 12	12	(304.8)	3.44	(87.4)	53	(24.1)	Stud
Bullet	3	(76.2)	6.5	(165.1)	12	(5.5)	Rod, Stud

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