

CHAPTER 1

Cathodic Protection

Cathodic protection requires periodic replacement of consumed anodes in treaters and other production vessels. The use of anodes and accessories make this process simple.

Rod Anode

DESCRIPTION

Rod anodes are cast with threaded steel rod cores and come in aluminum, zinc and magnesium.

Part No.	Description	Size	Material	Weight
61046010	Rod Anode	3" X 22"	Aluminum	17 Lbs
61046020	Rod Anode	3" X 22"	Zinc	38 Lbs
61046025	Rod Anode	3" X 22"	Magnesium	13 Lbs

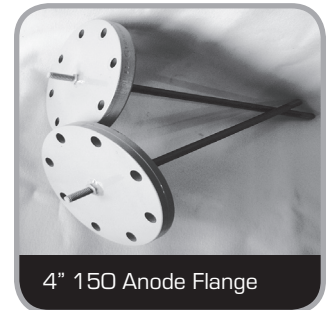


Rod Anode

ACCESSORIES

The 4" 150 anode flange has a 22" long threaded rod with an eight hole flange that bolts on to the side of the vessel. The 3" X 22" anode threads on to the end of the rod and is inserted into the vessel.

Part No.	Description	Size
42221004	Rod Anode Flange	4" 150



4" 150 Anode Flange

Anode wire also known as a Pig Tail, is 78" long and attaches to the 4" 150 flange. Anode wire is used to ground the flange and vessel.

Part No.	Description	Size
61040070	Anode Wire	78"



Anode Wire

The anode insulation kit is attached to the 4" 150 flange as an added seal between the flange and the vessel. The gasket in the kit is made from a Neo faced Phenolic INS material.

Part No.	Description
61370405	Anode Insulation Kit



Insulation Kit

Anode rollers are positioned under the anode for support so the anode does not touch the vessel wall.

Part No.	Description
48720566	Anode Wooden Roller



Wooden Roller

Slab Anode

DESCRIPTION

Slab anodes are square shaped with a hole in the center where it attaches to a stud on the inside floor of the vessel. Natco slab anodes come in aluminum and magnesium.

Part No.	Description	Size	Material
61046015	Slab Anode	8" X 8" X 2"	Aluminum
61040206	Slab Anode	8" X 8" X 4"	Magnesium



Bagged & Packaged Anodes

DESCRIPTION

The 5 Lb. zinc bagged anodes are packed in a rugged water permeable cardboard tube that has a minimum wall thickness of 2.3 mm. 17 Lb. are packaged in a cotton like material bag. Both these types of anodes are recommended for use in soils as grounding cells on electrical equipment and across insulators on pipelines to limit high voltages. Typical grounding applications include pipelines, power stations, storage tanks, and transmission line towers and cables. Bagged anodes come in zinc and magnesium material.



Part No.	Description	Material	Weight	Shipping Weight
61046030	Packaged Anode	Zinc	5 Lb.	12.5 Lbs
61046026	Bagged Anode	Magnesium	17 Lb.	40 Lbs

Johnson Fagg Anode Head

DESCRIPTION

Anode insulating heads help prevent the accumulation of adherent scale on the fire tube and provides cathodic protection for the inside of the treater.

ACCESSORIES

Part No.	Description	Size
61046060	Johnson Fagg Anode Head	-
61040060	Washer	5/8"
61040050	Nut	5/8"- 18
61040040	Gasket	3-1/2"
61040035	Gasket	5/8"
61040025	Rod Steel Core	-
61040020	Spacer Tube or Pipe	-
61040015	Back Section	3-3/4" OD
61040010	Head Section	4-4/2" OD
47151004	Victaulic Gasket	4"
30243013	Victaulic Coupling	4"

*Quantity of 2 Gaskets Required Part# 61040040
& Part# 61040035



Johnson Fagg Anode Head