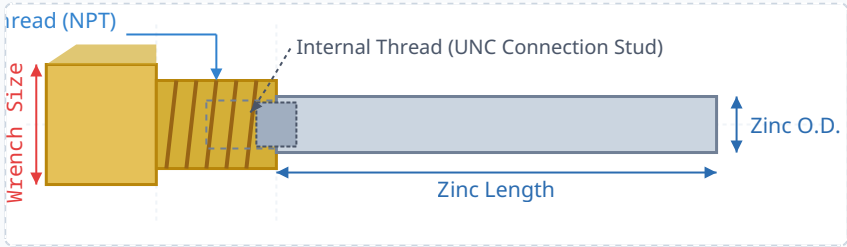


MURRAY YACHT SALES

Heat Exchanger Pencil Zinc Anode Technical Chart

Complete Identification Blueprint, Anatomy Drawing & Marine Application Cross-Reference



ANATOMY & SIZING BREAKDOWN FOR TECHNICIANS

- **Wrench Head Size:** Measured flat-to-flat on the hex head. Crucial to match for tool clearance inside restricted engine bays.
- **Plug Thread (NPT Standard):** National Pipe Thread is tapered for a high-pressure seal. *Reminder: An NPT dimension is nominal. A 1/4" NPT plug actually measures approximately 0.54 inches across its outside thread diameter.*
- **Internal Connection Thread (UNC):** The matching stud thread linking the sacrificial zinc pencil to its reusable brass hex plug. If reusing old brass plugs, verify the internal threads are stripped clean of oxide scales before mounting the new rod.
- **Zinc Outside Diameter (O.D.) & Length:** Ensure length clearance inside raw-water cooling jacket voids to prevent the pencil tip from colliding with heat-exchanger core tube sheets.

Visual Profile (Scaled Sketch)	Model ID	Plug Thread (NPT Size)	Zinc Diameter & Length	Wrench Head Size	Internal Thread (Zinc Only)	OEM & Aftermarket Cross-Reference Part Numbers
	E-00	1/8" NPT	1/4" x 2"	7/16" Hex	1/4"-20 UNC	• Martyr: CM00Z / CME00 • Westerbeke / Universal: 301069 • Sierra: 18-6134 • Camp: CAM-E00C / E-00Z
	E-0B	1/4" NPT	3/8" x 3/4"	9/16" Hex	5/16"-18 UNC	• Cummins Onan: 130-1341 / 130-5149 • Caterpillar: 130-1341 • SeaKeeper: 40143SP • Sendure: 0292-2
	E-0	1/4" NPT	3/8" x 1-3/4"	9/16" Hex	5/16"-18 UNC	• Cummins Onan: 130-4313 (MDK Series Heat Exchangers) • Westerbeke / Universal: 011885 • Kohler Gen: 260085 / 267928 • Northern Lights: 21-12010
	E-1G	3/8" NPT	1/2" x 1"	11/16" Hex	3/8"-16 UNC	• Cummins Onan: 130-1340 / 130-4961 • Caterpillar: 130-1340 / 130-4434 • ABT: 23763 • Sierra: 23-6401
	E-1E	3/8" NPT	1/2" x 1-1/2"	11/16" Hex	3/8"-16 UNC	• Cummins Onan: 130-3571 (Large QD Gen Blocks) • Detroit Diesel: 8925832 • SeaKeeper: 40403SP • Westerbeke: 301068

VISUAL PROFILE (SCALED SKETCH)	MODEL ID	PLUG THREAD (NPT SIZE)	ZINC DIAMETER & LENGTH	WRENCH HEAD SIZE	INTERNAL THREAD (ZINC ONLY)	OEM & AFTERMARKET CROSS-REFERENCE PART NUMBERS
	E-1	3/8" NPT	1/2" x 2"	11/16" Hex	3/8"-16 UNC	• Yanmar: Standard 3/8" Intercooler Zinc • Westerbeke: 036889 • Sierra: 18-6060 • Martyr: CME1
	E-2	1/2" NPT	5/8" x 2"	7/8" Hex	7/16"-14 UNC	• Cummins Onan: 130-3121 • Caterpillar: 130-6628 • Detroit Diesel: 8517479 • Northern Lights: 21-10000 / 21-10011