

MIL-C-16645A(SHIPS)
 29 April 1955
 SUPERSEDING
 MIL-C-16645(SHIPS)
 15 September 1951
 S49-2 (in part)*
 1 October 1943

MILITARY SPECIFICATION
 COMPRESSORS, RECIPROCATING, ELECTRIC
 MOTOR DRIVEN, NAVAL SHIPBOARD DIESEL
 ENGINE AIR STARTING SERVICE

1. SCOPE

1.1 Scope. - This specification covers class T motor driven air compressors, for Diesel engine air starting installations aboard Naval ships.

1.2 Classification. - Diesel starting air compressors shall be of the following sizes as specified (see 6.1):

Size 10 - Not less than 10 c.f.m. of free air per minute at 600 p.s.i.g. discharge pressure.
 Size 50 - Not less than 50 c.f.m. of free air per minute at 600 p.s.i.g. discharge pressure.

2. APPLICABLE DOCUMENTS

2.1 The following specifications, standards, drawings and publications, of the issue in effect on date of invitation for bids, form a part of this specification:

SPECIFICATIONS

FEDERAL

FF-B-171 - Bearing, Ball, Annular (General Purpose).
 FF-B-185 - Bearings, Roller, Cylindrical, and Bearings, Roller, Self-Aligning.
 NN-B-821 - Boxes, Wood, Nailed and Lock-Corner.
 QQ-A-561 - Aluminum Alloy 2S; Plate and Sheet.
 QQ-C-576 - Copper Plates, Sawed Bars, Sheets, and Strips.
 QQ-I-652 - Iron Castings, Gray.
 QQ-S-763 - Steel, Corrosion-Resisting: Bars and Forgings (Except for Reforging).
 QQ-S-766 - Steel, Corrosion-Resisting, Plates, Sheets, Strips and Structural Shapes.
 GGG-P-781 - Pullers, Bushing, Bearing, Gear, Wheel Hub and Cylinder Sleeve Installing and Removing.
 PPP-B-601 - Boxes, Wood, Cleated-Plywood.

MILITARY

JAN-P-100 - Packaging and Packing for Overseas Shipment: General Specification.
 JAN-P-104 - Packaging and Packing for Overseas Shipment Crates, Sheathed, Wood, Nailed.
 MIL-P-116 - Preservation, Methods of.
 JAN-P-121 - Barrier-Materials, Greaseproof.

*(See 6.4.)

FED SUP CLASS 4310

MIL-C-16645A(SHIPS)

MILITARY (cont'd.)

- JAN-P-127 - Packaging and Packing for Overseas Shipment - Tape, Adhesive, Pressure-Sensitive, Water-Resistant.
- MIL-B-233 - Boxes, Repair Parts.
- JAN-P-735 - Primer, Paint, Zinc-Chromate, Alkyd Type.
- MIL-G-858 - Gray Iron Alloy: Castings (Scale-Resisting).
- MIL-S-867 - Steel Castings, Corrosion-Resisting Austenitic.
- MIL-S-890 - Steel: Forgings and Bars for Hulls, Engines, and Ordnance (Heat-Treated).
- MIL-B-892 - Bronze, Phosphor, Rolled or Drawn; Bars, Plates, Rods, Sheets, and Strips.
- MIL-N-894 - Nickel Copper Alloy Bars, Plates, and Other Wrought Forms.
- MIL-S-901 - Shockproof Equipment, Class HI (High-Impact), Shipboard Application, Tests for.
- MIL-E-917 - Electric Power Equipment, Basic Requirements for (Naval Shipboard Use).
- MIL-A-958 - Aluminum Base Alloy, Permanent Mold Castings (Marine Service).
- MIL-D-963 - Drawings, Production (for Electrical and Mechanical Equipment for Naval Shipboard Use).
- MIL-B-994 - Brass, Naval, Wrought.
- JAN-S-1160 - Steel, Spring, Round or Square (Including Rectangular Sections Having Thicknesses Greater Than Half Their Width).
- MIL-T-1368 - Tubing, Nickel Copper Alloy, Seamless and Welded.
- MIL-C-2174 - Controllers and Master Switches, Direct-Current (Naval Shipboard Use).
- MIL-C-2212 - Controllers and Master Switches, Alternating-Current (Naval Shipboard Use).
- MIL-C-3769 - Crates, Intermediate, Sheathed, Wood, Nailed (for Maximum Net Loads of 3000 Pounds).
- MIL-T-15005 - Tubes, Copper Nickel Alloy (Condenser and Heat Exchanger).
- MIL-I-15024 - Identification Plates, Information Plates and Marking Information for Identification of Electrical, Electronic and Mechanical Equipment.
- MIL-T-15071 - Technical Manuals for Mechanical and Electrical Equipment.
- MIL-S-15083 - Steel; Castings.
- MIL-P-15130 - Paint, Outside, Haze-Gray, No. 27 (Formula No. 5H) for Naval Shipboard Use).
- MIL-R-15137 - Repair Parts for Electrical and Mechanical Equipment (Naval Shipboard Use).
- MIL-C-15726 - Copper Nickel Alloy: Bars, Plates, Rods, Sheets, and Strips.
- MIL-C-15730 - Coolers, Fluid, Industrial; Lubricating Oil and Fresh Water, (Naval Shipboard Use).
- MIL-B-15939 - Bronze, Aluminum: Wrought.
- MIL-P-16018 - Packaging of Switchboards, Controllers and Motor Starters (Over 40 Pounds).
- MIL-B-16033 - Bronze, Aluminum: Castings.
- MIL-S-16113 - Steel, Plate, Hull and Ordnance, Structural, Black (Uncoated) and Zinc Coated (Galvanized).
- MIL-B-16261 - Bronze, Bearings: Castings.
- MIL-P-16298 - Preservation, Packaging, Packing and Marking of Electric Machines Having Rotating Parts (Includes Associated Repair Parts).
- MIL-T-16420 - Tube, Copper Nickel (70-30 and 90-10), Seamless and Welded.
- MIL-B-16540 - Bronze, Phosphor: Castings.
- MIL-B-16541 - Bronze, Valves: Castings.

MILITARY (cont'd.)

- MIL-M-16576 - Metal, Gun: Castings.
- MIL-M-17060 - Motors, Alternating Current, Integral HP (Shipboard Use).
- MIL-I-17166 - Iron Castings: Nodular Graphitic (Ductile Iron) (for Shipboard Applications).
- MIL-I-17214 - Indicators, Permeability; Low-Mu (Go-No-Go).
- MIL-L-17331 - Lubricating Oil, Turbine (Noncorrosive).
- MIL-M-17413 - Motor, Direct-Current, Integral HP (Shipboard Use).
- MIL-S-17509 - Steel Castings, Austenitic, Chromium-Nickel, Low Magnetic Permeability.
- MIL-P-17652 - Preparation for Delivery of Electronic, Electrical and Electro-Mechanical Parts.
- MIL-S-17996 - Steel Sheet and Other Wrought Forms, Corrosion Resisting, Austenitic (Low Magnetic Permeability), Chromium-Manganese-Nickel.
- MIL-A-18001 - Anodes, Corrosion Preventive, Plates, Slabs, Discs, Rods, Zinc, Cast in Core.
- MIL-S-20166 - Steel: Bars and Shapes (for Drop and Miscellaneous Construction) (Including Material for Hull).

NAVY DEPARTMENT

- General Specifications for Inspection of Material.
- 45G1 - Gages, Pressure and Vacuum (for Air, Ammonia, Oil, Steam, and Water).
- General Specifications for Machinery:
- Section S1-4 - Welding and Allied Processes.

STANDARDS

MILITARY

- MIL-STD-129 - Marking for Shipment and Storage.

DRAWINGS

BUREAU OF SHIPS

- B-214 - Root Connections for Attached Piping.
- 5000-S4823-841055 - Check off List for Zincs in Machinery Installation, Instructions for Preparation of Form.
- 5000-S4823-841337 - Unions, Silver Alloy Brazing in Machinery Installations, Instruction for Preparation of Form.

PUBLICATIONS

MILITARY

- JPI-9 - Packaging and Packing of Machine Tools and Accessory Parts for Overseas Shipment.

(Copies of specifications, standards, drawings, and publications required by contractors in connection with specific procurement functions should be obtained from the procuring agency or as directed by the contracting officer.) /

2.2 Other publications. - The following documents form a part of this specification. Unless otherwise indicated the issue in effect on date of invitation for bids shall apply.

CONSOLIDATED CLASSIFICATION COMMITTEE

Consolidated Freight Classification Rules.

(Application for copies should be addressed to the Consolidated Classification Committee, 202 Chicago Union Station, Chicago 6, Ill.)