

## SECTION 15218

### COMPRESSED AIR RECEIVER

#### PART 1 GENERAL

##### 1.1 SUMMARY

###### A. Scope

1. Furnish F.O.B. OWNER'S project site with insurance and freight prepaid the compressed air receiver hereinafter specified.

###### B. Description

1. Capacity (approximate), diameter, straight side length, and nozzle orientation as shown on the DRAWINGS.
2. Temperature range - 125 degF. max., 65 degF. min.
3. Design pressure - 150 PSIG

###### C. Related Work Specified Under Other Sections

1. Division 15 Section "General Mechanical Requirements."
2. Division 15 Section "Aboveground Piping Systems."

##### 1.2 QUALITY ASSURANCE

###### A. Requirements Of Regulatory Agencies

1. Provide materials and execute the WORK, including tests and inspections per applicable provisions of Federal, State and local Government laws and ordinances and referenced codes and standards. Governing laws, ordinances, codes and standards constitute minimum requirements.

###### B. Shop Test

1. Hydrostatically test to not less than 1.5 times the specified design working pressure.

##### 1.3 SUBMITTALS

###### A. General

1. Provide certified shop drawings, illustrating construction, weight, and supporting or related facilities interfacing data to permit proper evaluation.
2. Submit certified copies of all factory test data and inspection reports.

###### B. Shop Drawings And Product Data

1. Furnish submittals for items that are identified in this SECTION by a different typeface and a bracketed code (e.g., *Item [L]*). Refer to Division 01 Section "Shop Drawings, Product Data, and Samples" for definition of codes for types of submittals and the administrative requirements governing submittal procedure. Additional submittal requirements pertaining to this SECTION are specified herein under this Article.

C. Certificates

1. Certificate: Submit manufacturer's data report, Form U-1.

D. Guarantee

1. Guarantee the unit to meet the operating conditions, capacity and performance conditions as specified and to remain serviceable for the following specified period. If either the unit or accessories fail to meet operating requirements or if failure of any part occurs during the guarantee period, rework or replace the affected items promptly to meet the CONTRACT requirements at no cost to the OWNER.
2. The OWNER reserves the option to request a performance test throughout the warranty period.
3. Based on no performance test, warranty shall extend for two years from date of initial operation. If a performance test is made and the machine meets its guaranty, the warranty shall be as above. If unit fails to meet is guaranteed performance, then warranty shall extend twenty-four months from date of acceptance of modified unit.

1.4 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Inspection

1. The OWNER'S REPRESENTATIVE shall be granted the right to inspect at the factory, upon any occasion during the manufacture and assembly, air receiver covered by this CONTRACT and to be present during any tests made upon the air receiver. Provide the OWNER with a written notice seven days prior to the scheduled date for conducting all tests required by this SPECIFICATION.
2. All material and workmanship shall be subject to inspection and test after its delivery to the site. In case any defect is found in material or workmanship or otherwise not in conformity with the SPECIFICATION requirements, OWNER shall have the right to reject such articles or require their correction.
3. Remove articles requiring correction promptly after notice to do so. If the CONTRACTOR fails to promptly remove such article and proceed promptly with the replacement and/or correction thereof, the OWNER may contract or otherwise replace and/or correct such article and charge to the CONTRACTOR the excess cost incurred by the OWNER.

B. Notification Of Shipment

1. Upon shipment of equipment, notify, by facsimile or electronic message, the OWNER of said shipment. The following information shall be contained in the message. Shipping date, carrier PRO number, truck number, weight, and item shipped.

C. Shipping

1. Upon completion, assembly, and testing of the air receiver, provide removable closures for all openings. Unit shall be suitably braced and packed for shipping to prevent damage while in transit.

## PART 2 PRODUCTS

### 2.1 AIR RECEIVER

- A. *Compressed Air Receiver [D]*: Designed, constructed and stamped in accordance with ASME Boiler and Pressure Vessel, Code Section VIII, Division 1 for 150 PSIG with inlet, outlet, safety relief valve, pressure indicator and automatic condensate drain valve. Inlet and outlet connections shall be 150 PSIG, flanged per ANSI B16.5. Furnish unit complete with lifting lugs, and vibration isolation supports suitable for suspending receiver on hanger rods.
- B. Automatic Condensate Drain:
1. Pneumatic or electric operated, level actuated automatic condensate drains shall be demand-type, and shall operate without loss of compressed air. Unit shall consist of a reservoir that is drained by a pneumatically or electrically operated stainless steel ball valve or full-port solenoid valve. Body and internals of the trap shall be corrosion-resistant and capable of handling oil-free condensate with a pH of 3, or condensate containing up to 80% oil, without damage. Trap shall be snap-acting, such that the drain valve is either full open or full closed. Operation shall be level activated by a float or a capacitance-type level sensor. Trap shall provide a visible indication of fluid level.
  2. Drains shall be provided with a level switch to alarm on high level, having all stainless steel wetted parts.
  3. Manufacturers:
    - a. Atlas Copco, EWD 330
    - b. Air Systems Products, "Accu-Drain."
    - c. Beko Condensate Systems, Model "Bekomat CO."
    - d. Drain-All, Model 1700.
    - e. Zeks Air Drier Corp. Model SDA-150.
- C. Safety Relief Valves:
1. Safety Relief Valves: Spring loaded, ferrous body, stainless steel trim and lifting levers per ASME Boiler and Pressure Vessel Code, Section VIII.
    - a. Consolidated Div., Dresser Industries, Type 1902.
    - b. Lonergan Series 43-H-200.
    - c. Farris.
- D. Painting:
1. Surface preparation to SSPC SP-3. Epoxy coating for interior, applied per coating manufacturer's instructions. Exterior prime and finish coating shall be manufacturer's standard.

## PART 3 EXECUTION

(NOT USED)

END OF SECTION

<b>Revision History</b>	
<b>Date</b>	<b>Rev. No.</b>
E	0
F	0
02-19-09	0

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