PORTABLE OXYGEN CYLINDER IDENTIFICATION

December 2016

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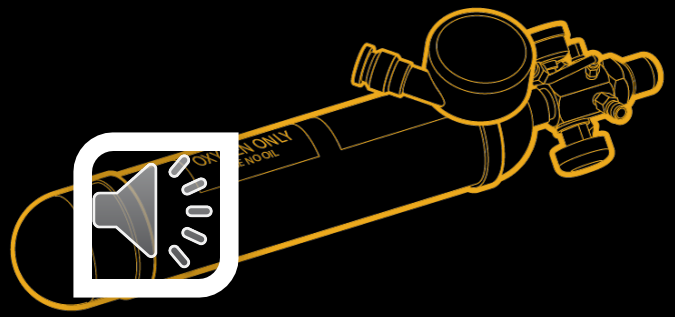
Common O2 cylinders

- 5500-Series
- 9700-Series
- Etc.



Avox/Scott 5500 & 9700 Series O2 cylinders

TYPICAL PART NUMBER

5500-C1A-BF23A

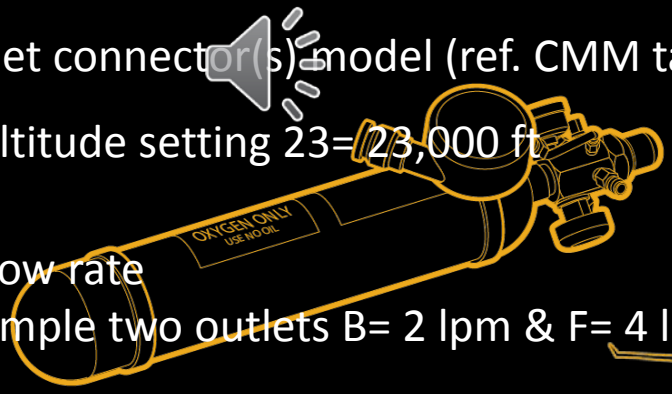
Outlet connector(s) model (ref. CMM table)

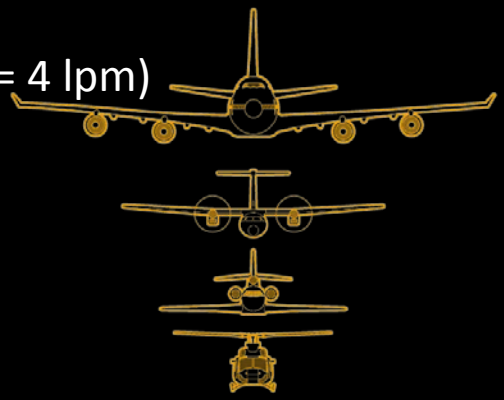
Cabin altitude setting 23= 23,000 ft

Outlet(s) flow rate
(in this example two outlets B= 2 lpm & F= 4 lpm)

C = Cylinder size & Regulator PN combination,
1= Color
A= Harness PN (all from the CMM table)

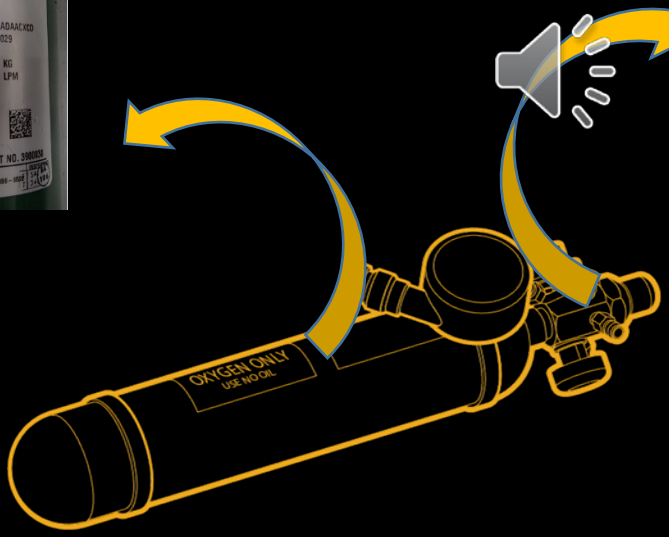
Basic series





Cylinder assy data plate

- On the cylinder
- On the regulator



Outlets

- When ordering/replacing a cylinder ensure that the outlets are corresponding to the mask connector

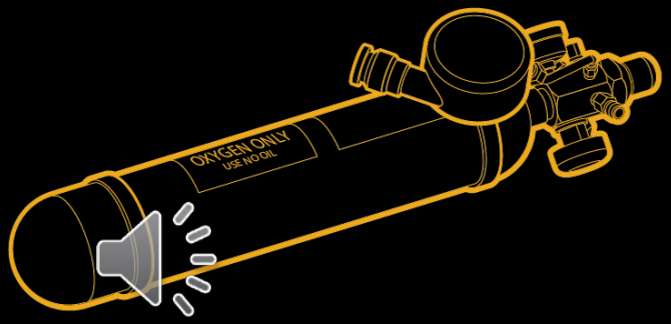
- Avox/Zodiac has more than 12 different outlet models

Outlets (cont'd)

- XXXX-XXX-XXA type outlet and mating mask connector

- XXXX-XXX-XXB type outlet and mating mask connector

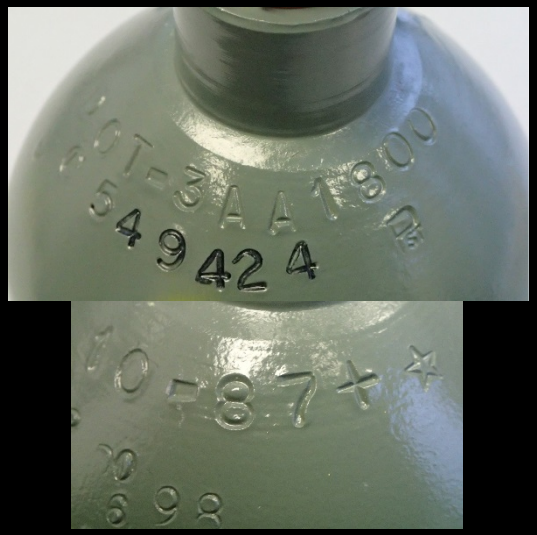
Avox 5500-9700 Series O2 cylinder models



- DOT 3AA
- DOT 3HT
- Carbon Fiber reinforced (Special permits)

DOT 3AA XXXX

- Widely used in a variety of industries (NOT ONLY AIRCRAFT)
- Not necessarily manufactured by the application OEM
- No life limit if requalification (inspection + hydrostatic) is successful
- May have a plus and/or star sign following the hydrostatic test markings allowing for increase pressure (+) or 10 year HST (☆)
- **Caution:** These increases may not be recommended by the manufacturer of the specific application. (e.g.: Avox, B/E, etc.)
- Hydrostatic testing required every 5 years for most aviation applications
- For aviation applications, the + and * are often only present at the initial hydrostatic test. The added benefit cannot be applied if not stamped on the most recent HST markings

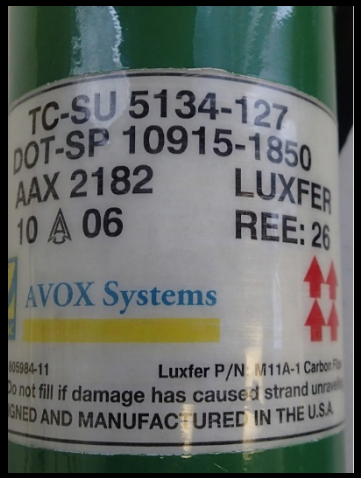


DOT 3HT XXXX

- This identification appears on the shoulder of the cylinder
- They have a calendar life limit of 24 years or 4380 pressurization cycles, whichever occurs first
- Hydrostatic testing is required every 3 years
- Refill activities should be tracked if occurring more than once every other day
- Higher detrimental effect of nicks and gouges due to the thinner wall thickness
- Greater handling care required

CARBON FIBER

- They mostly have a calendar life limit of 15 years
- Hydrostatic testing is usually every 5 years
- These specifications are detailed in the document called “Special permit” (in the adjacent picture SP 10915 for DOT and SU 5134 for TC or Transport Canada)



REGULATOR OVERHAUL REQUIREMENT

- As per Avox/Zodiac
  - 5 years when mounted on 3AA or Carbon fiber
  - 6 years when mounted on 3HT (to correspond with every other HST)

CHECK YOUR MOST RECENT CMM FOR CURRENT INTERVAL

This presentation can be downloaded from our website at www.sprint-aviation.com and may be used for non revenue training