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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

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

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

Cabin altitude setting 23= 23,000 ft

Outlet connector(s) model (ref. 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
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.