



O₂ CORPORATION

PRODUCT CATALOG

JULY 2006



O₂ CORPORATION
235 N. WASHINGTON
WICHITA, KS 67202
PHONE: (316)-634-1240 FAX: (316)-634-1061
www.o2corporation.com

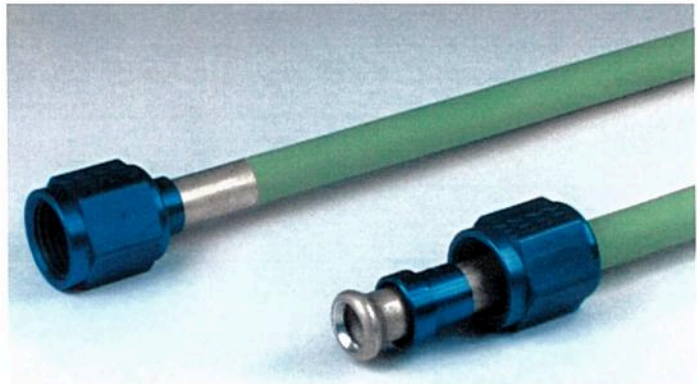
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ALUMINUM LINES

The O₂ Corporation Aluminum Oxygen Lines are manufactured to meet specific oxygen plumbing requirements. These lines are used to transfer oxygen from an oxygen cylinder to remote oxygen delivery devices. Because each aircraft's layout is different, these lines must be tailored to fit each design, and this is commonly accomplished through customer-supplied specifications. With these specifications, the aluminum lines may include bends to help fit to the aircraft layout as well as to avoid other interior components.

The most common fittings at the end of these lines are a flared connection consisting of a female nut and sleeve. We offer single flares per the MS33584 or AS4330 standards, and double flares to the MS33583 standard. These lines may also include a protective covering, as required by the customer, and typically includes heat shrink, primer, or a chemical film. Standard colors for each protective cover is: white for the heat shrink, green for the primer, and gold for the chemical film.



Each line may be pressure tested, within testing capabilities, as required by the customer. Each line is cleaned for oxygen service, and to protect the line from contamination each line is shipped with a protective plastic cap on both ends and is heat-sealed in a protective sleeve. Please contact us with your aluminum oxygen line needs!



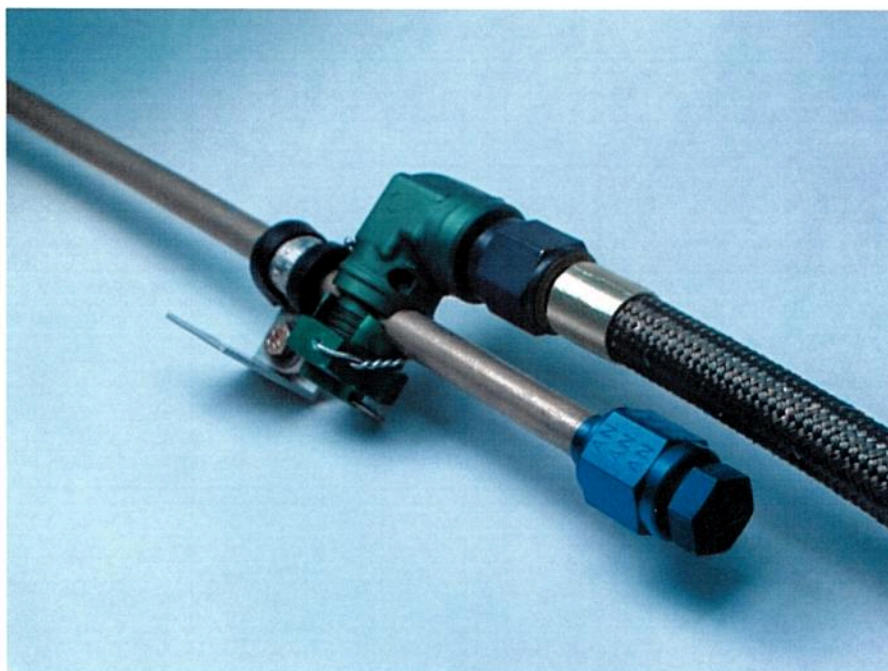
We also offer oxygen line assemblies as specified by the customer. These assemblies minimize the time required during installation of the oxygen lines. The oxygen line assemblies may include any of our Line Taps,

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and the addition of lock wire to these connections is also available. Each Line Tap offers the addition of a Low Pressure Flex Hose, which is commonly used to connect to a remote oxygen delivery device. Other possibilities include the addition of unions, elbows, plugs, bleed valves, or whatever your system requires.



Each line and component is cleaned for oxygen service. The oxygen line assembly is heat-sealed in a protective sleeve, and each connection is capped or plugged to prevent contamination.



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BULKHEAD FITTINGS

The O₂ Corporation Bulkhead Fittings are made from solid brass to offer both oxygen compatibility and corrosion resistance. The operating pressure range for these fittings is 0 – 2,000 psi, and the proof pressure is 3,000 psi.

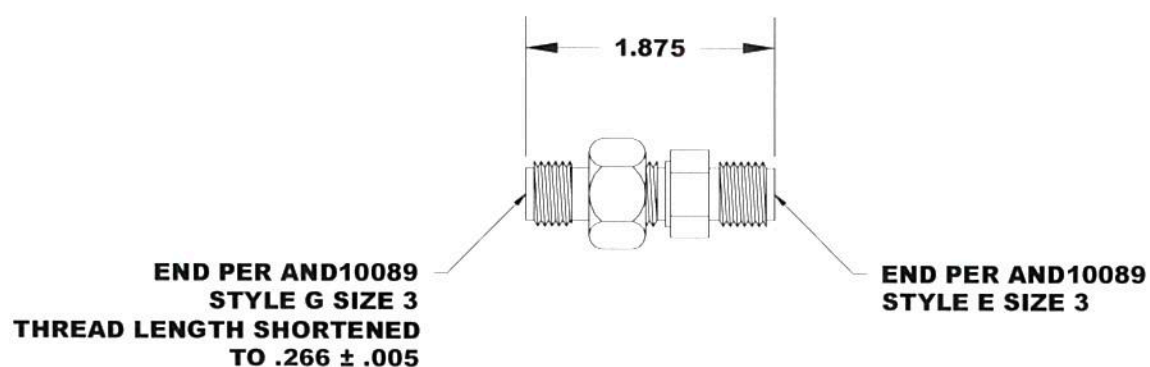
Our Oxygen Fill Valve is used for charging a high-pressure aircraft oxygen cylinder with a ground service station. Each Fill Valve includes a cap and chain assembly (chain length is 6 – 6 ½") to provide protection from contamination when not in use. Each valve also includes an internal filter to prevent any particulates from being transferred into the aircraft oxygen cylinder.



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O2C99T05-1

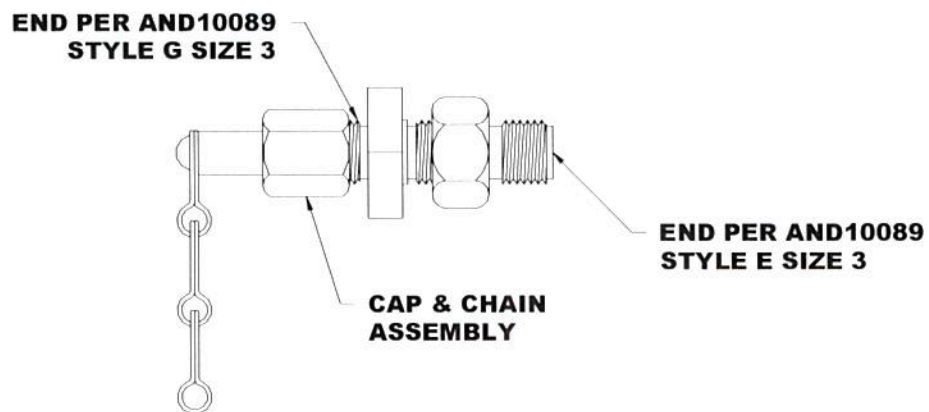
Our Straight Bulkhead Fitting provides end connections per AND10089, Style G, Size 3. The thread length on one end is shortened as shown in the illustration below:



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O2C99T07-1

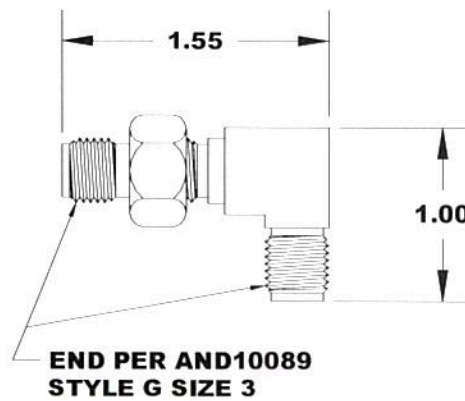
Our Oxygen Fill Valve provides end connections per AND10089, Style G, Size 3, as shown in the illustration below:



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O2C99T05-2

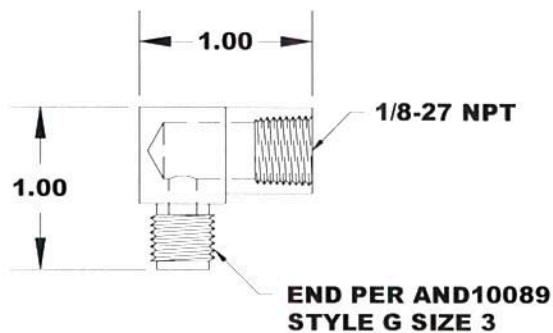
Our Elbow Bulkhead Fitting provides end connections per AND10089, Style G, Size 3, as shown in the illustration below:



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O2C99T14-1

Our Elbow Adapter provides an end connection per AND10089, Style G, Size 3, and the other with an 1/8 NPT internal thread, as shown in the illustration below:



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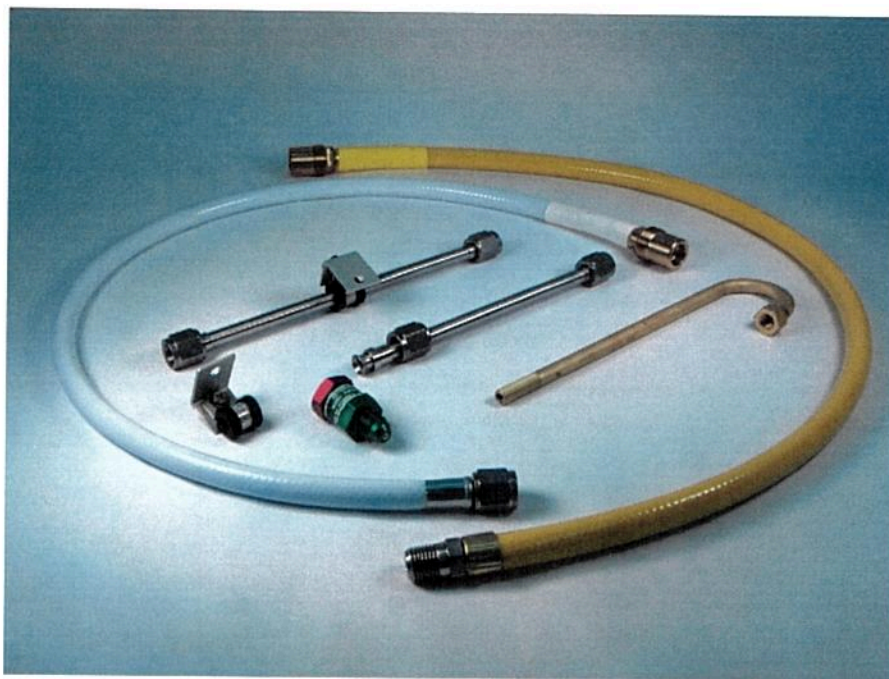


CUSTOM PRODUCTS

If you have a special need for a product that requires custom and unique design specifications we will do our best to meet your requirements using the "Can Do" principle. We might not have the capability to manufacture every product needed, but we certainly welcome any opportunity or challenge.

Because we specialize in Aircraft Oxygen Equipment, we are eager to manufacture any related products or components. We have previously met customer requirements for custom parts or assemblies, and below is a list of some examples:

- Remote Fill Valves
- Customized Fill Stations including pressure gauge and fill valves
- Mounting Brackets for oxygen lines
- Plumbing, including lines and fittings, for an oxygen medical cabinet



We also offer some products that originated as a custom product, but are currently offered as a standard product. These products may be found below:

- Mask Dust Cover
- "J" Filler Valve

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Oxygen Lines made from Type 316 Stainless Steel

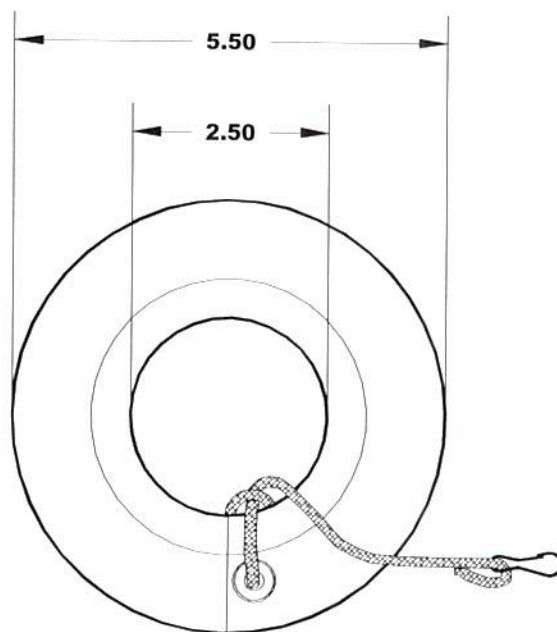


Mounting Clamps

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O2C107

Our Mask Dust Covers offer protection for your oxygen masks from dust and other particulates that might be harmful to breathe when the mask is used.

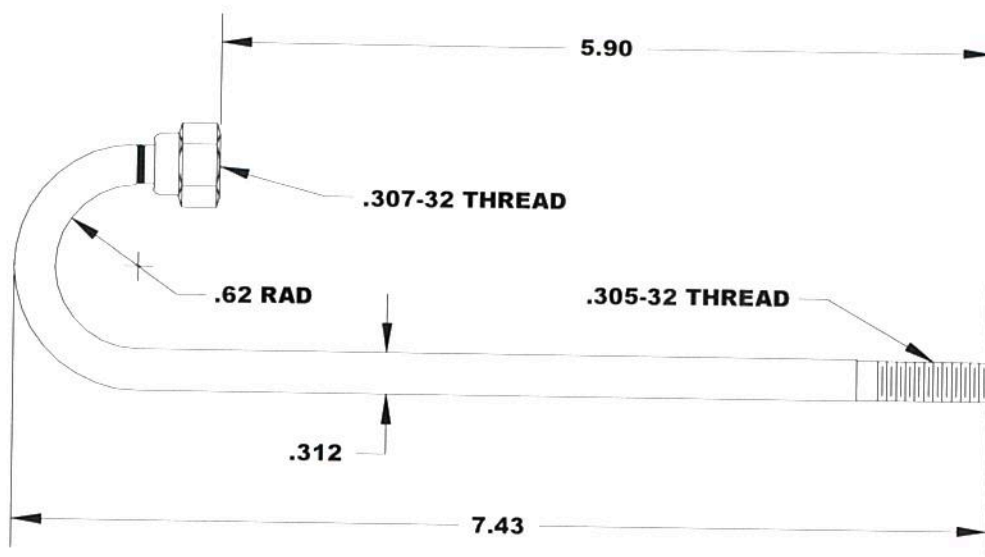


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O2C74T03-1



Our Remote Fill Valves can be manufactured specifically to your design and dimensions to meet all of your compatibility requirements. The material used for the valve shown below is T-19-V Brass per CDA 332.

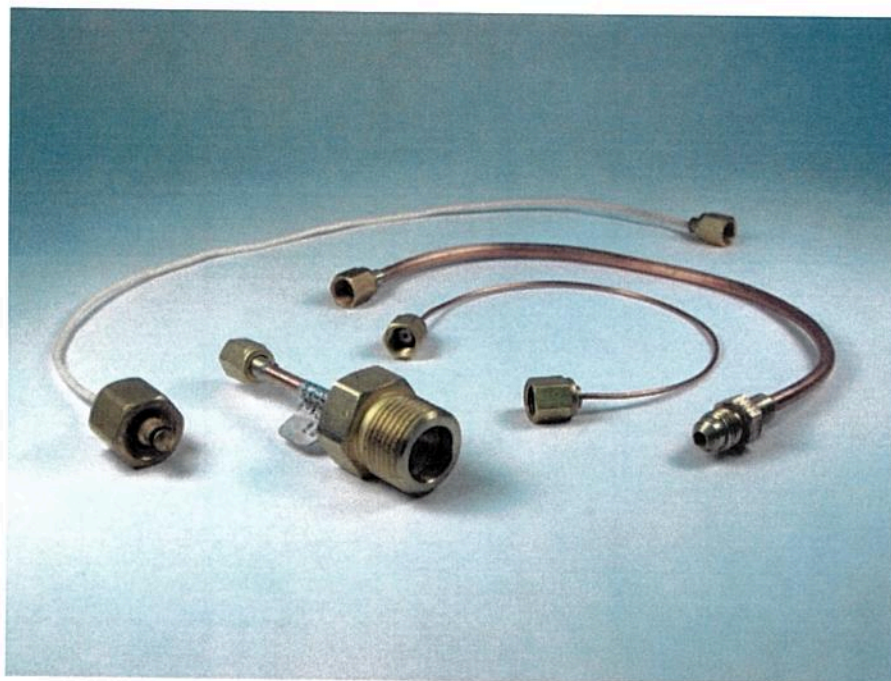


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HIGH PRESSURE LINES

The O₂ Corporation High Pressure Lines are used with connections involving oxygen at high-pressure conditions. Each line is cleaned for oxygen service, has a maximum operating pressure of 2,400 psi, and is proof pressure tested to 3,000 psi. We use Copper tubing per ASTM-B-280 and silver braze each fitting to conform to QQ-B-654 or BAg-7. It is recommended that a "coil" remain in the line to allow for excessive pulling and/or vibration.

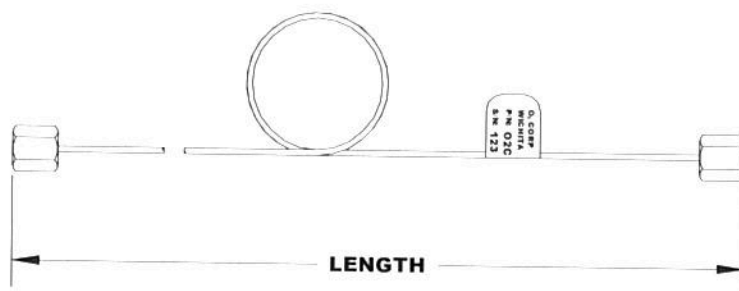


We offer 1/16-inch O.D. capillary lines for high-pressure flows requiring a minimized internal flow area. These lines have intended uses such as connecting a pressure gauge to a high-pressure oxygen source. Some of our capillary lines are covered with heat shrink per MT3053/5-104/304-9 to protect against chafing. Please refer to the individual part numbers on the following pages to determine if the heat shrink is included.

We also offer 3/16-inch O.D. lines for filling high-pressure oxygen tanks. These lines can be used for a connection from an oxygen tank to a fill valve, or from one oxygen tank to another oxygen tank.

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All of our High Pressure Lines have an "-XX" or "-XXX" included in the part number that designates the length of the line, specified in inches. The length is measured from the end of one fitting to the other as shown in the illustration below.



Example part number for ordering:

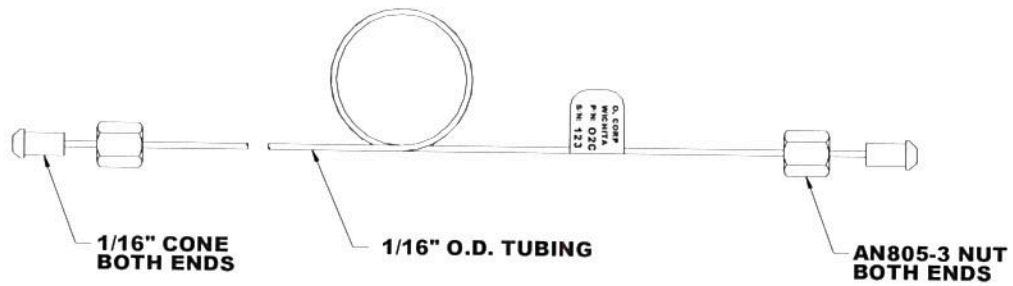
O2C11T08 - 025

BASIC PART NUMBER

LENGTH IN INCHES
(25 inches shown here)

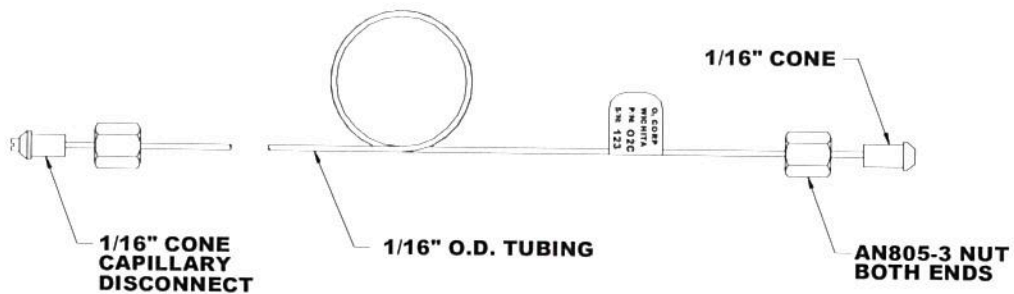
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O2C11T08-XXX



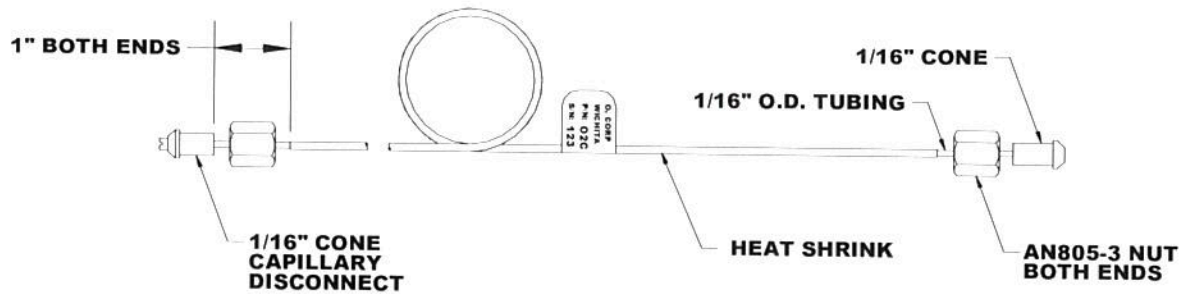
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O2C11T09-1-XXX



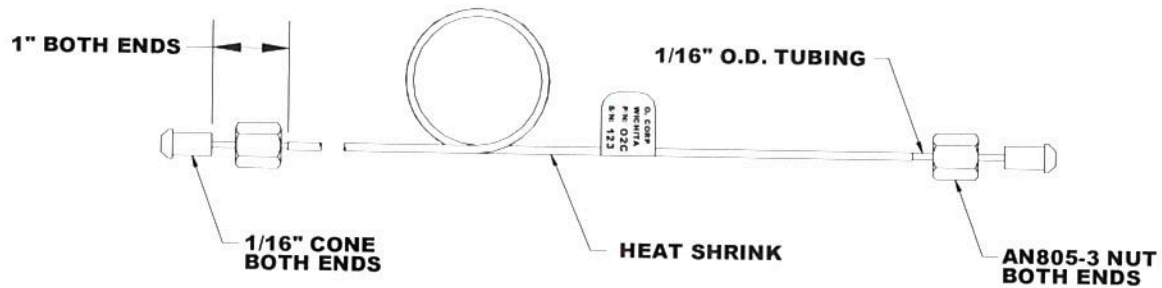
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O2C11T09-11-XXX



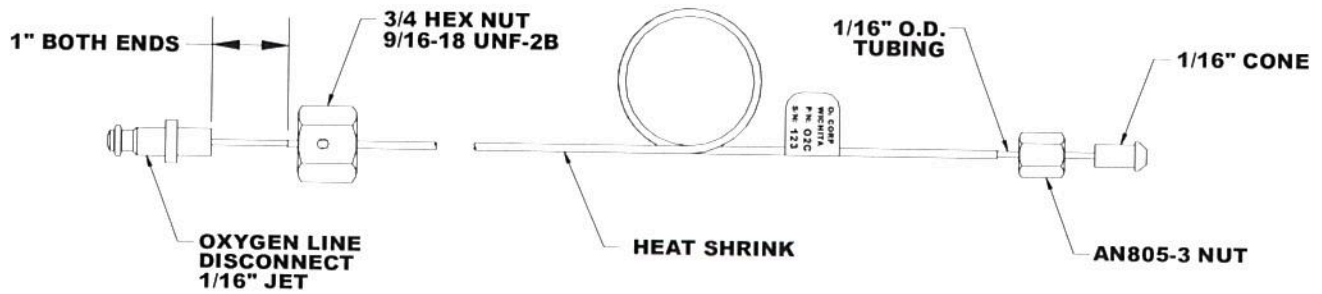
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O2C11T12-XXX



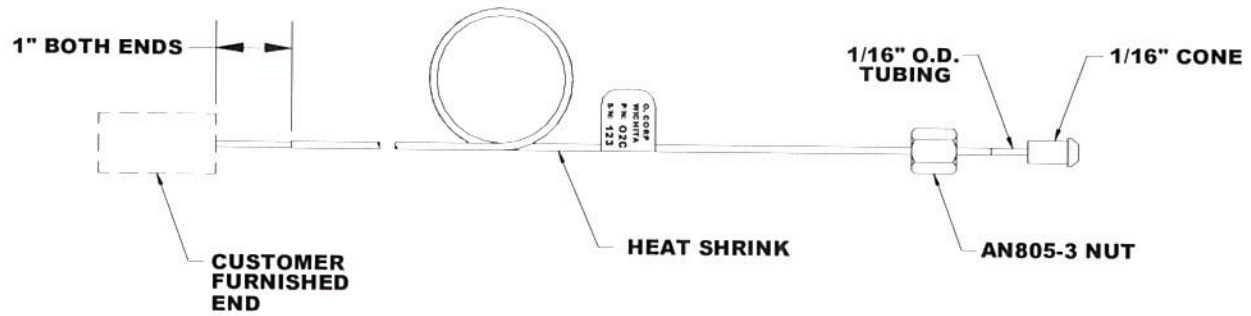
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O2C11T13-XXX



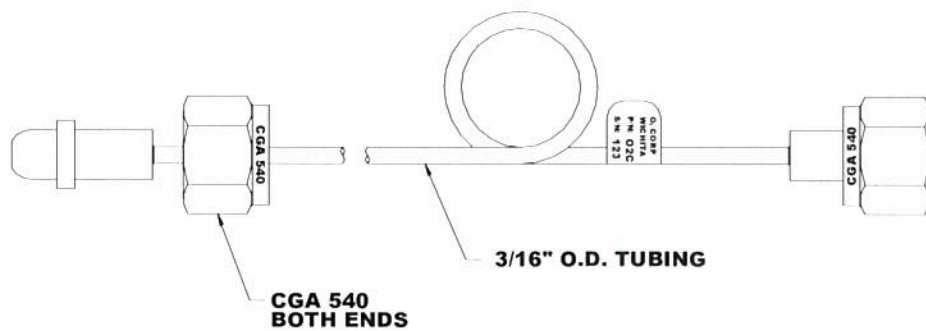
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O2C11T20-XX



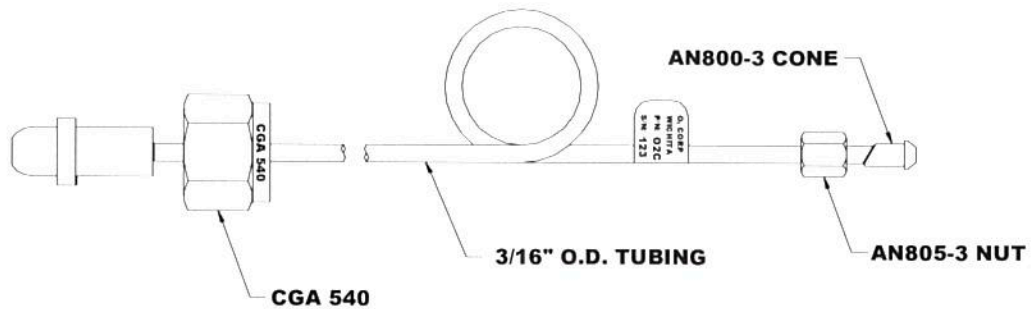
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O2C11T01-XX



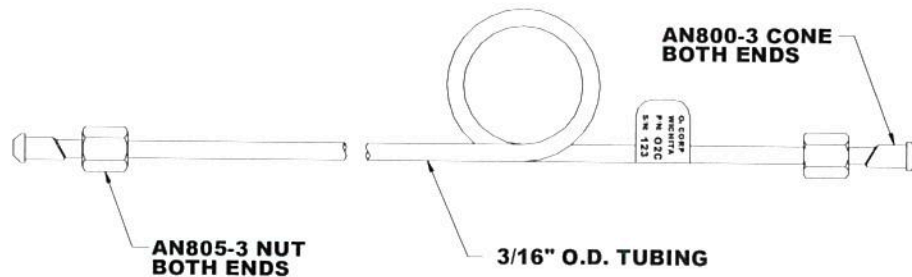
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O2C11T02-XX



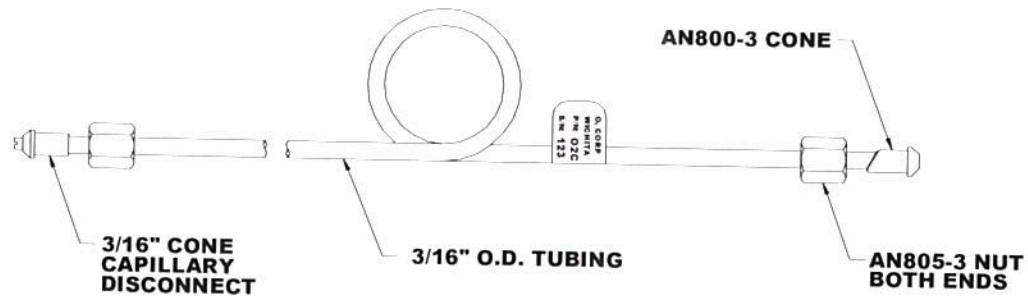
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O2C11T03-XXX



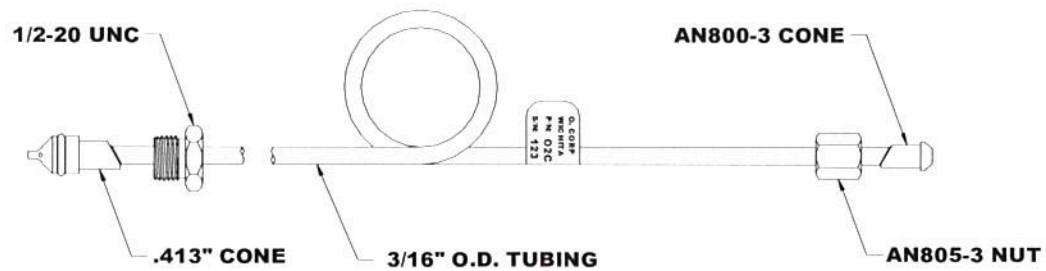
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O2C11T09-2-XXX



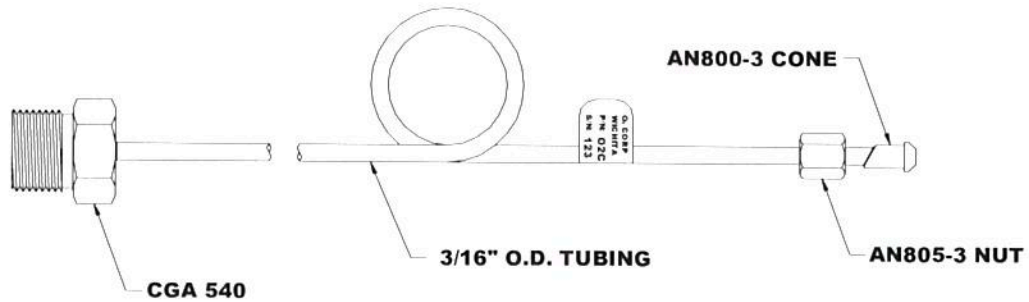
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O2C11T10-XX



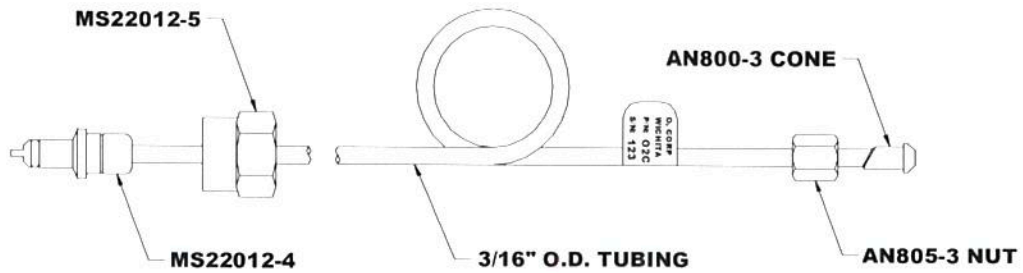
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O2C11T11-XX



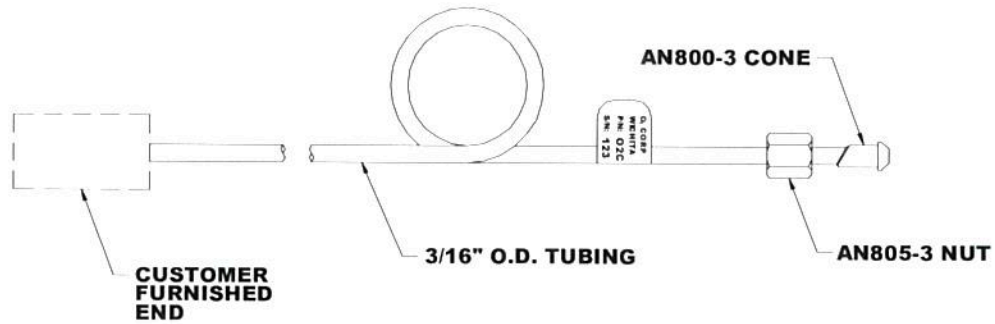
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O2C11T16-XX



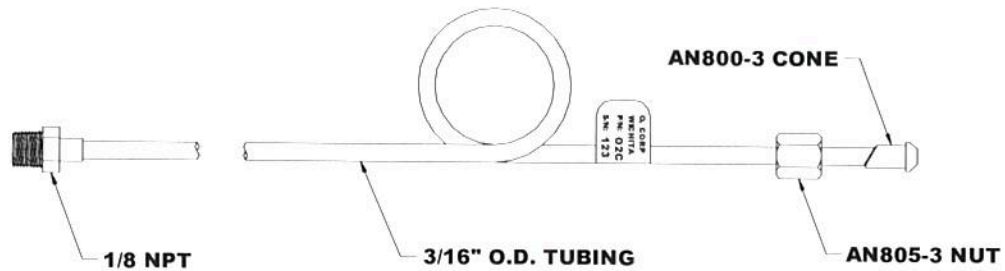
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O2C11T17-XXX



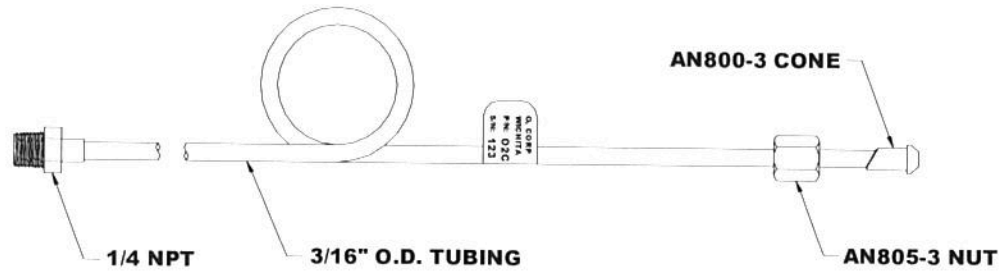
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O2C11T19-1-XXX



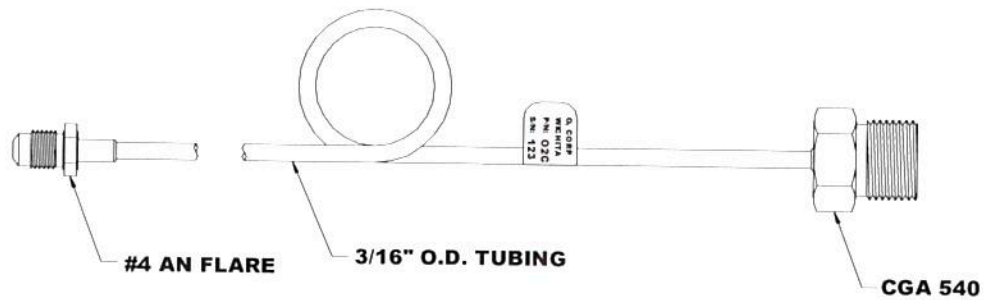
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O2C11T19-2-XX



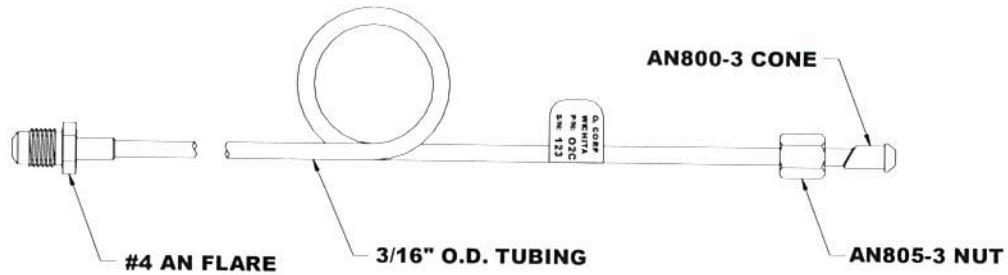
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O2C11T21-4-XXX



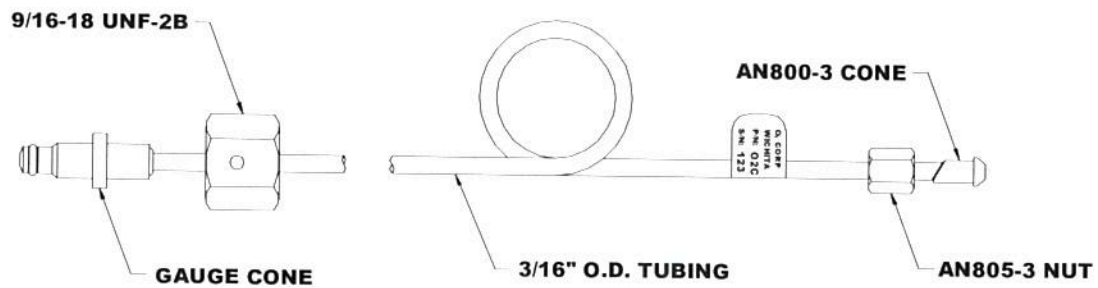
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O2C11T22-4-XXX



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O2C11T24-XXX

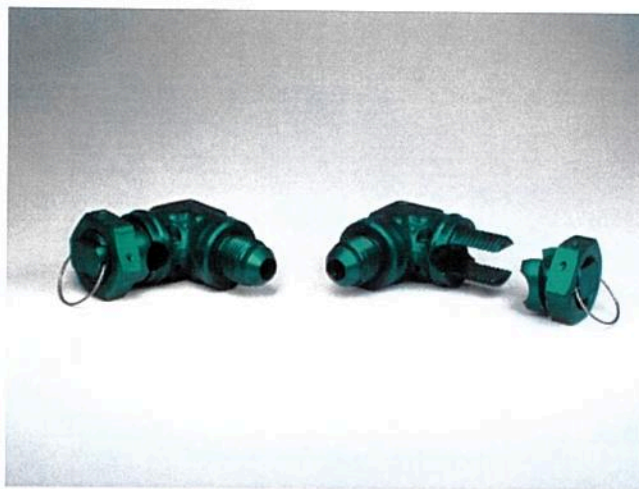


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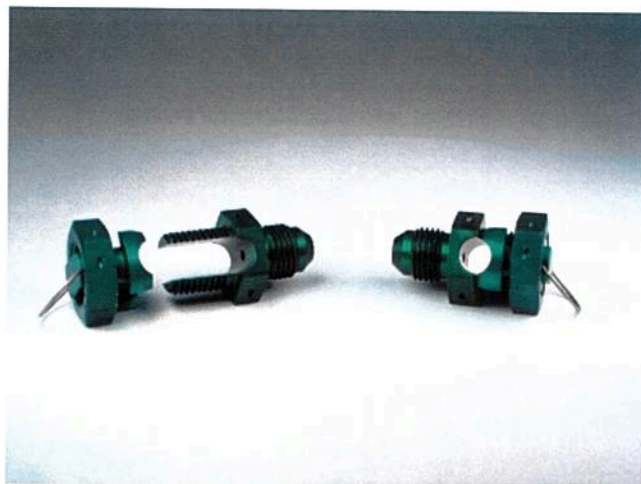


LINE TAP ASSEMBLIES

The O₂ Corporation Line Tap Assemblies offer connections at any location along main oxygen feed lines. By simply adding a mounting hole in the oxygen line, our Line Taps are easily installed to provide additional oxygen line locations. The diameter of the mounting hole must be 0.109 inches in order to properly connect the Line Tap, and a silicone gasket provides a leak proof seal. Each Line Tap is machined with external holes to offer locations for lock wire.

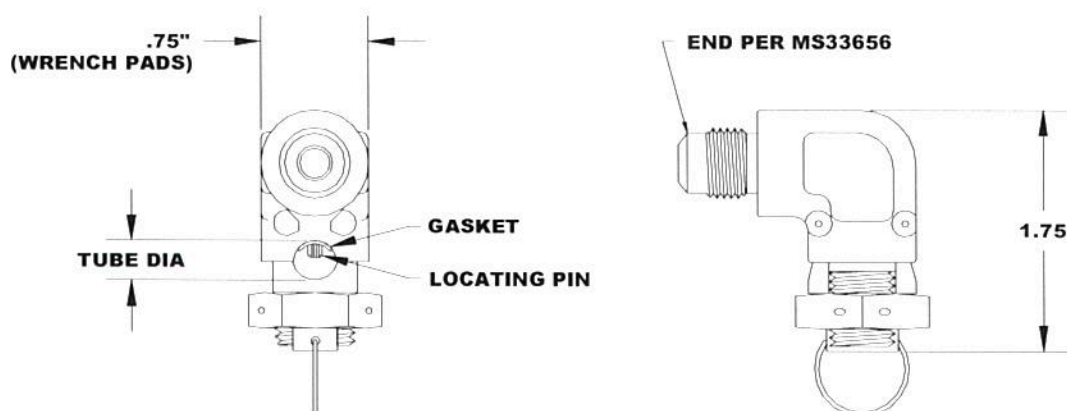


Our Line Tap Assemblies, Part Numbers O2C10T05 and O2C10T1 are made from 2014 aluminum and anodized green to MIL-A-8625. They are available in either a straight or elbow configuration, and come in either a size 4 or 5 flared connection. The operating pressure range is 5 – 125 psi, and the proof pressure is 250 psi. The recommended installation torque is 15 – 25 inch pounds. Additional sizes for the fitting end and tube size are available for all of our Line Tap Assemblies as custom order items.



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O2C10T05



Basic Part Number	Fitting End			Nominal Tube Size*	Tube Diameter (inches)
	Type	Size*	Thread		
O2C10T05	Flared	4	.438-20 UNJF-3A	-5	.312
	Flared	5	.500-20 UNJF-3A	-5	.312

Example part number for ordering:

O2C10T05 - 4 - 5

—|

BASIC PART NUMBER

—|

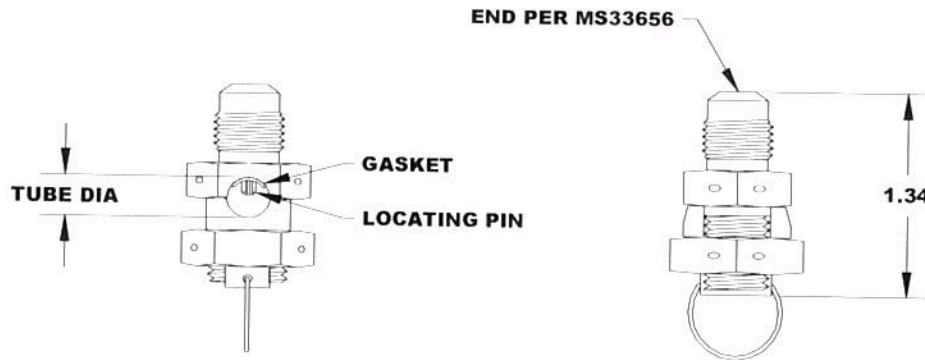
FITTING SIZE
(*SEE TABLE)

—|

TUBE SIZE
(*SEE TABLE)

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O2C10T1



Basic Part Number	Fitting End			Nominal Tube Size*	Tube Diameter (inches)
	Type	Size*	Thread		
O2C10T1	Flared	5	.500-20 UNJF-3A	-5	.312

Example part number for ordering:

O2C10T1 - 5 - 5

—|

BASIC PART NUMBER

—|

FITTING SIZE
(*SEE TABLE)

—|

TUBE SIZE
(*SEE TABLE)

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In the picture shown below is our Elbow Line Tap, part number O2C10T05-5-5, installed on an aluminum oxygen line. Lock wire was used after installation to prevent accidental removal of the line tap. This particular line tap is mated with a low-pressure flexible oxygen hose to deliver oxygen to an oxygen delivery device, such as a Mask Presentation Unit.

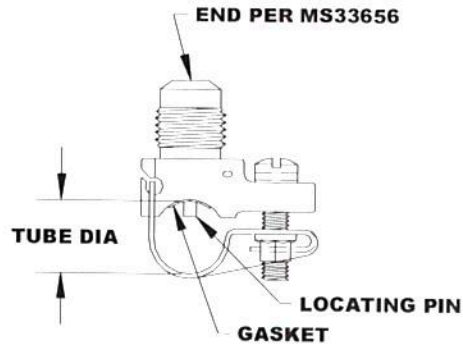


We also offer Saddle Line Tap Assemblies, Part Numbers O2C10T3 and O2C10T4, for larger size tubing. The body is made from aluminum, and the clamp, pin, screw, and washer are all made from corrosion resistant steel. The fitting end is available in size 5 for both a flared or flareless connection. The operating pressure range is 5 – 125 psi, and the proof pressure is 250 psi. The recommended installation torque for the screw is 10 – 15 inch pounds.



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O2C10T3



Basic Part Number	Fitting End			Nominal Tube Size*	Tube Diameter (inches)
	Type	Size*	Thread		
O2C10T3	Flared	5	.500-20 UNJF-3A	-8	.500
	Flared	5	.500-20 UNJF-3A	-12	.750

Example part number for ordering:

O2C10T3 - 5 - 8

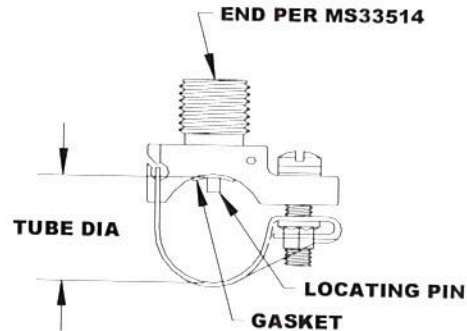
BASIC PART NUMBER

FITTING SIZE (*SEE TABLE)

TUBE SIZE (*SEE TABLE)

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O2C10T4



Basic Part Number	Fitting End			Nominal Tube Size*	Tube Diameter (inches)
	Type	Size*	Thread		
O2C10T4	Flareless	5	.500-20 UNJF-3A	-12	.750

Example part number for ordering:

O2C10T4 - 5 - 12

BASIC PART NUMBER

FITTING SIZE (*SEE TABLE)

TUBE SIZE (*SEE TABLE)

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NOTES:

1. IDENTIFY PART ON LABEL (HEAT SHRINK TUBING)
- LOCATION OF LABELS ARE APPROX. AS SHOWN ON ASSEMBLY PAGES.
2. PRIOR TO ASSEMBLY:
- CLEAN THE OXYGEN LINE & ALL HARDWARE (NUTS, SLEEVES, UNIONS, FITTINGS) PER ARP1176.
- ASSEMBLED PARTS SHOULD BE CAPPED, PLUGGED AND PACKAGED PER ARP1176.
3. ASSEMBLY:

(TUBES DIMENSION FROM END OF FLARE TO FLARE)
- FLARE TUBE ENDS PER AS4330.
- TORQUE ALL FITTINGS AND UNIONS TO 130-150 IN.LB.
- TORQUE LINE TAPS TO 15-25 IN-LB. AND INSTALL LOCK WIRE PER NASM33540.
4. LEAKAGE TESTING:
- PROOF PRESSURE & LEAKAGE TEST SYSTEM PER SAE ARP1532 SECTIONS 8.1 & 8.2, USING NITROGEN OR OXYGEN, AT 195 ± 5 PSI FOR 5 MINUTES.
5. AFTER LEAKAGE TESTING:
- WIPE OFF LEAK DETECTOR AND PLUG & CAP THE OXYGEN LINE ASSEMBLY.
- APPLY "TAMPER PROOF TORQUE MARK" ACROSS FITTINGS & UNIONS AS NEEDED
- PACKAGE OXYGEN LINE ASSEMBLY PER ARP1176
- 6 APPLY CLEAR SELF - ADHESIVE POLYURETHANE TAPE OVER CAUTION PLACARD.
- 7 FINAL ASSEMBLY/ INSTALLATION BY CUSTOMER:

- ASSEMBLE TUBE SUB-ASSEMBLIES TOGETHER
- FITTINGS AND CONNECTION POINTS ARE TO BE TORQUED PER SPECIFICATIONS LISTED IN NOTE 3
- ATTACHED ALL GROUND STUD & INSTALLATION HARDWARE **(NOT INCLUDED IN THIS ASSEMBLY)**

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

ORIGINAL

AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS			
REF	QTY	PART NUMBER	DESCRIPTION
PAGE 3	1	OC15T001-1	LINE SUB ASSEMBLY
PAGE 4	1	OC15T001-2	LINE SUB ASSEMBLY
PAGE 5	1	OC15T001-3	LINE SUB ASSEMBLY
PAGE 6	1	OC15T001-4	LINE SUB ASSEMBLY

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DRAWN BY: ZPM	DATE: 19 NOV 2024	 O2 CORPORATION AIRCRAFT OXYGEN EQUIPMENT SPECIALISTS	NAME OXYGEN LINE ASSEMBLY WITH FLEX HOSES
APPROVED: 	DATE: 11-21-2024		DWG NO: O2C15T001
TOLERANCE EXCEPT AS NOTED	DECIMAL X ±.10 XX ±.01 XXX ±.005 ANGULAR ± 1/2		PAPER SIZE ANSI C
			SHEET 1 OF 6
			REV NC

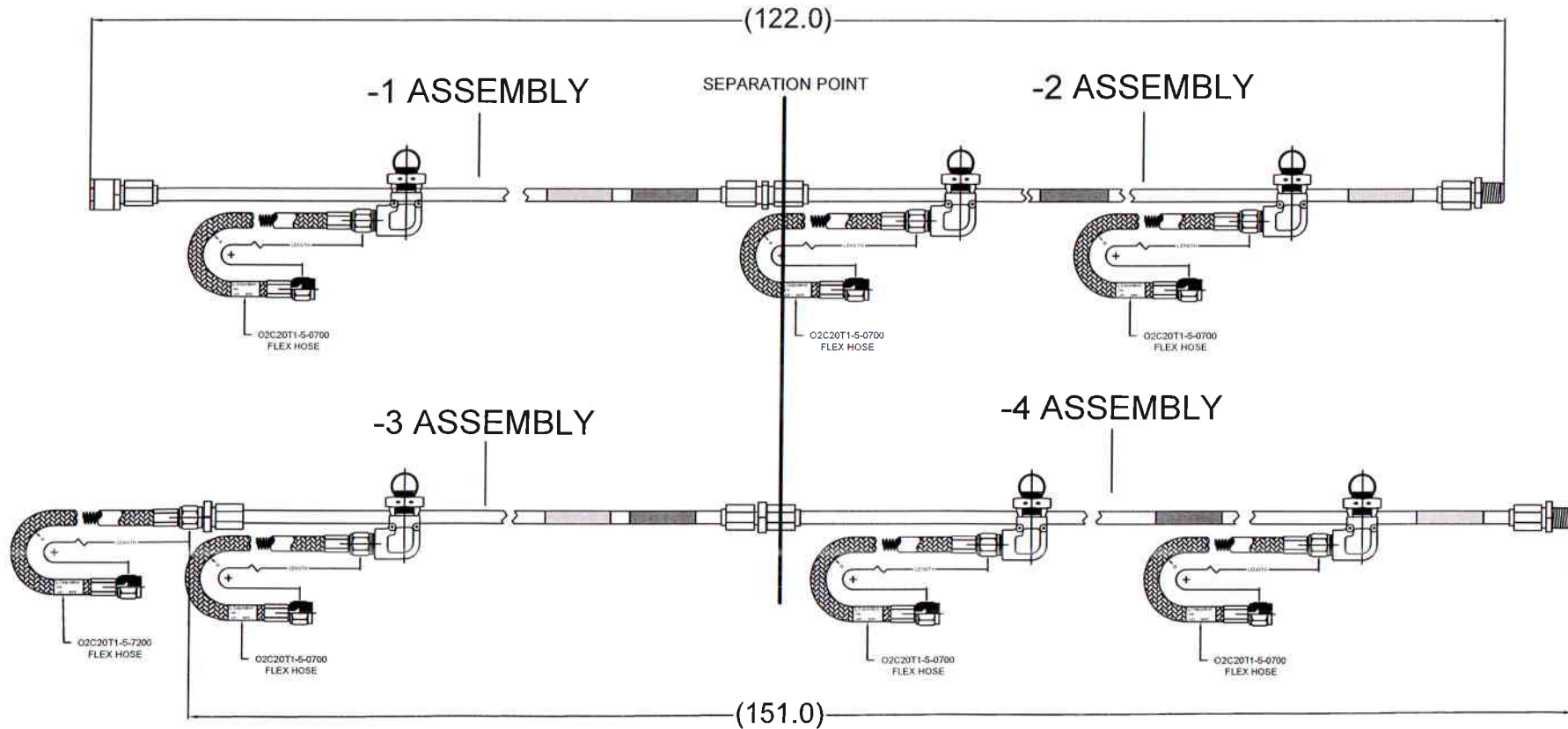
NOTES:

SEE PAGE 1 FOR ADDITIONAL NOTES

ORIGINAL

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
SEE PAGE 1 FOR REVISION INFO			



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DRAWN BY: ZPM DATE: 19 NOV 2024

APPROVED: *[Signature]* DATE: 11-21-2024

TOLERANCE DECIMAL
 EXCEPT AS NOTED
 X ± .10
 XX ± .01
 XXX ± .005
 ANGULAR ± 1/2



NAME
 OXYGEN LINE ASSEMBLY
 WITH FLEX HOSES

DWG NO: O2C15T001

PAPER SIZE ANSI C

SHEET 2 OF 6

REV
 NC

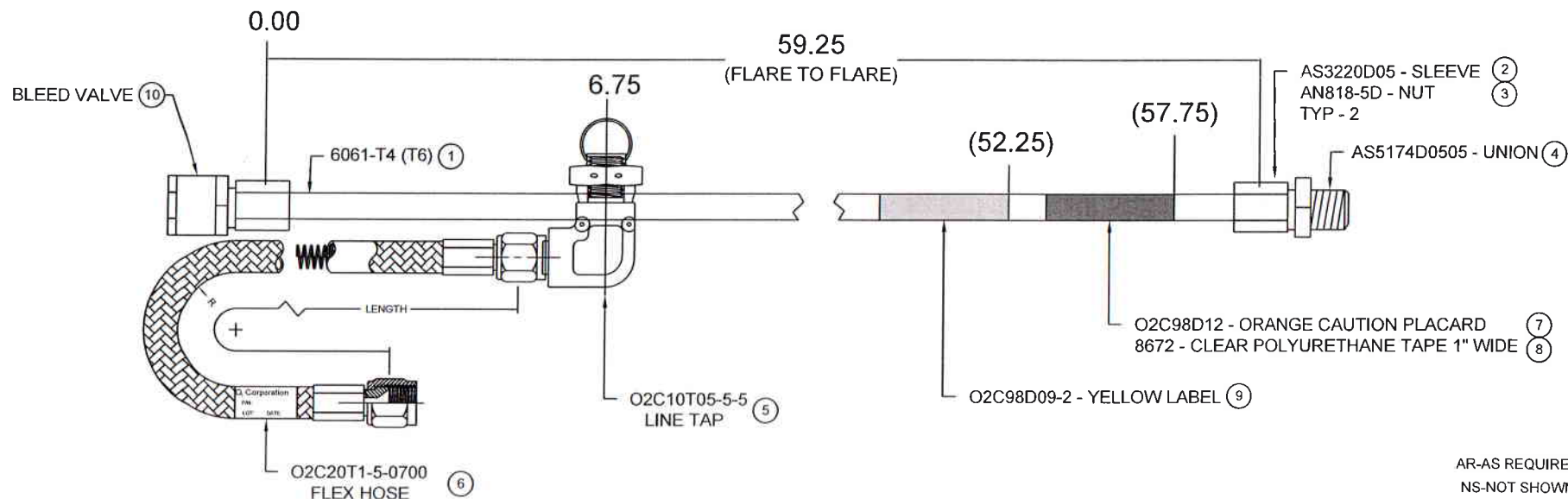
NOTES:

SEE PAGE 1 FOR ADDITIONAL NOTES

ORIGINAL

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
SEE PAGE 1 FOR REVISION INFO			



-1 ASSEMBLY

TOLERANCE:

LENGTHS (XXXX): $\pm 0.03"$

AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	AR	6061-T4 (T6) MIL-C-5541	6061-T4 OR T6 TUBE AMS-VW-T-700/6 - 5/16 OD X .035W W/CHEM FILM
2	2	AS3220D05	SLEEVE BLUE ANODIZED
3	2	AN818-5D	NUT, TUBE COUPLING (ALUMINUM) BLUE
4	1	AS5174D0505	UNION & REDUCER FITTING
5	1	O2C10T05-5-5	ELBOW LINE TAP ASSEMBLY #5 FLARED FOR 5/16" TUBING
6	1	O2C20T1-5-0700	FLEXIBLE HOSE ASSEMBLY, 7.00' LONG
7	1	O2C98D12	PLACARD, CAUTION
8	AR	8672	CLEAR POLYURETHANE TAPE 1" WIDE
9	1	O2C98D09-2	YELLOW HEAT SHRINK LABEL M23053/5-108-4
10	1	P24060-2	BLEED VALVE
NS	AR	83316 - RED	TORQUE SEAL - RED

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DATE: 19 NOV 2024

APPROVED: *[Signature]*

DATE: 11-21-2024

TOLERANCE

DECIMAL

X $\pm .10$

EXCEPT AS

XX $\pm .01$

XXX $\pm .005$

NOTED

ANGULAR

$\pm 1/2$



NAME
OXYGEN LINE ASSEMBLY
WITH FLEX HOSES

DWG NO: O2C15T001

PAPER SIZE ANSI C

SHEET 3 OF 6

REV
NC

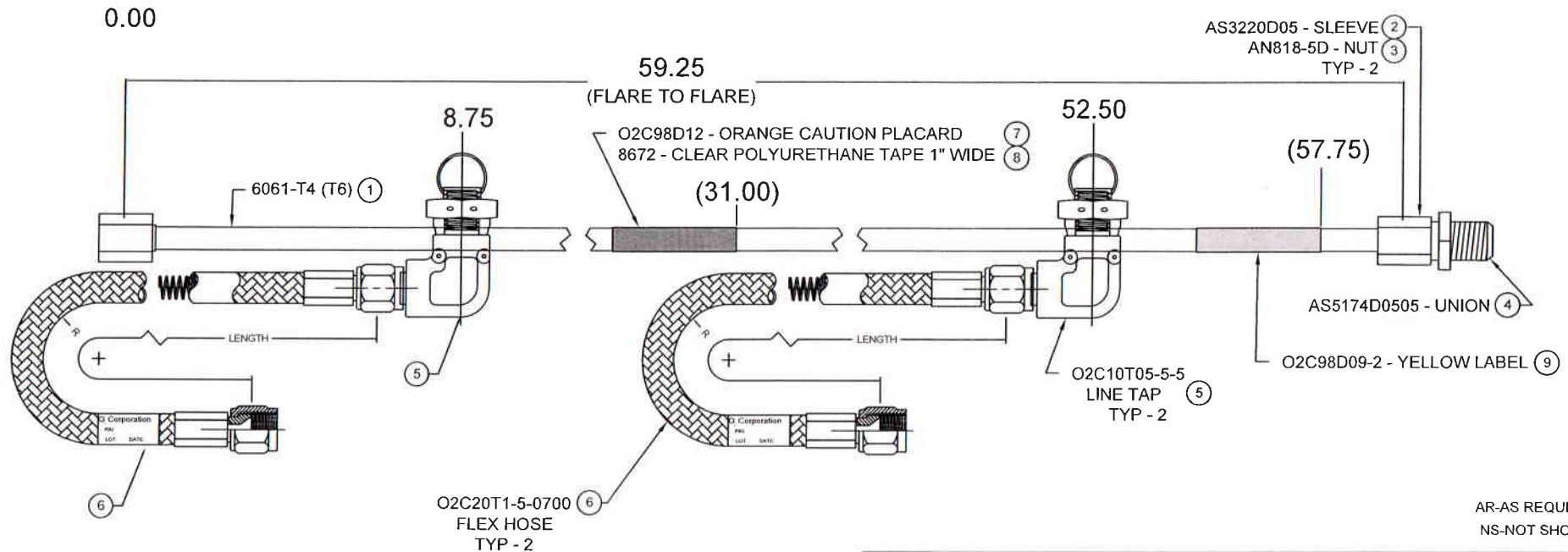
NOTES:

SEE PAGE 1 FOR ADDITIONAL NOTES

ORIGINAL

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
SEE PAGE 1 FOR REVISION INFO			



-2 ASSEMBLY

TOLERANCE:

LENGTHS (XXXX): $\pm 0.03"$

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	AR	6061-T4 (T6) MIL-C-5541	6061-T4 OR T6 TUBE AMS-WW-T-700/6 - 5/16 OD X .035W W/CHEM FILM
2	2	AS3220D05	SLEEVE BLUE ANODIZED
3	2	AN818-5D	NUT, TUBE COUPLING (ALUMINUM) BLUE
4	1	AS5174D0505	UNION & REDUCER FITTING
5	2	O2C10T05-5-5	ELBOW LINE TAP ASSEMBLY #5 FLARED FOR 5/16" TUBING
6	2	O2C20T1-5-0700	FLEXIBLE HOSE ASSEMBLY, 7.00" LONG
7	1	O2C98D12	PLACARD, CAUTION
8	1	8672	CLEAR POLYURETHANE TAPE 1" WIDE
9	1	O2C98D09-2	YELLOW HEAT SHRINK LABEL M23053/5-108-4
1	AR	83316 - RED	TORQUE SEAL - RED DYKEM CROSS CHECK PERMANENT TAMPERPROOF MARKER

DRAWN BY: ZPM

DATE: 19 NOV 2024

APPROVED: 

DATE: 11-21-2024

TOLERANCE

DECIMAL

X $\pm .10$ XX $\pm .01$ XXX $\pm .005$

EXCEPT AS

NOTED

ANGULAR $\pm 1/2$ 

NAME

OXYGEN LINE ASSEMBLY
WITH FLEX HOSES

DWG NO: O2C15T001

PAPER SIZE ANSI C

SHEET 4 OF 6

REV
NC

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NOTES:

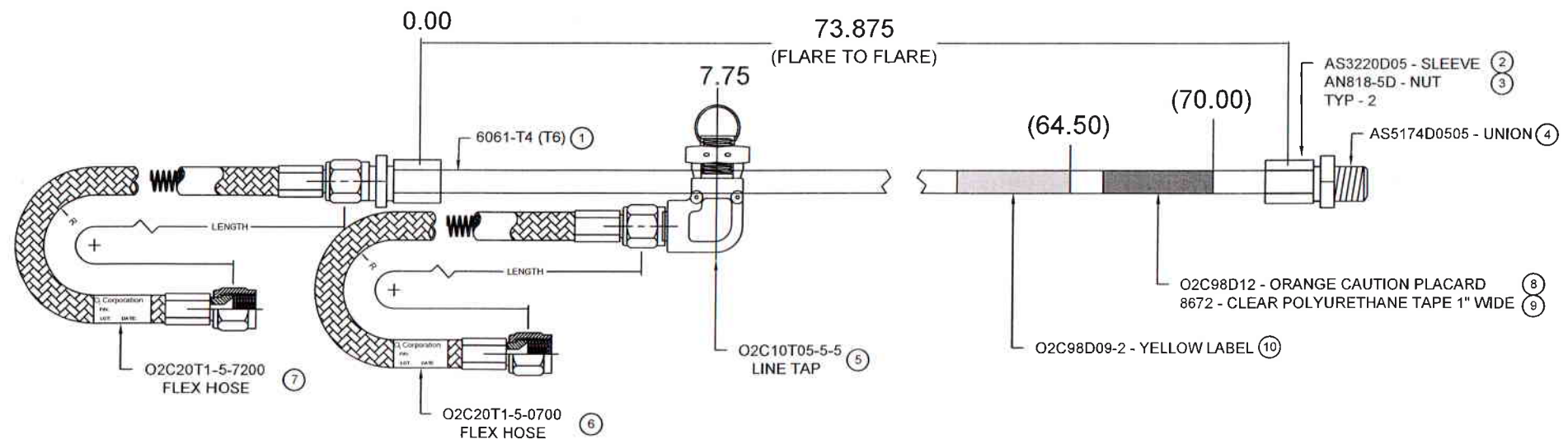
SEE PAGE 1 FOR ADDITIONAL NOTES

ORIGINAL

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
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SEE PAGE 1 FOR REVISION INFO



AR-AS REQUIRED
NS-NOT SHOWN

-3 ASSEMBLY

TOLERANCE:
LENGTHS (XXXX): ± 0.03"

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	AR	6061-T4 (T6) MIL-C-5541	6061-T4 OR T6 TUBE AMS-VWV-T-700/6 - 5/16 OD X .035W W/CHEM FILM
2	2	AS3220D05	SLEEVE BLUE ANODIZED
3	2	AN818-5D	NUT, TUBE COUPLING (ALUMINUM) BLUE
4	1	AS5174D0505	UNION & REDUCER FITTING
5	1	O2C10T05-5-5	ELBOW LINE TAP ASSEMBLY #5 FLARED FOR 5/16" TUBING
6	1	O2C20T1-5-0700	FLEXIBLE HOSE ASSEMBLY, 7.00" LONG
7	1	O2C20T1-5-7200	FLEXIBLE HOSE ASSEMBLY, 72.00" LONG
8	1	O2C98D12	PLACARD, CAUTION
9	AR	8672	CLEAR POLYURETHANE TAPE 1" WIDE
10	1	O2C98D09-2	YELLOW HEAT SHRINK LABEL M23053/5-108-4
NS	AR	83316 - RED	TORQUE SEAL - RED

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DRAWN BY: ZPM	DATE: 19 NOV 2024
APPROVED: <i>[Signature]</i>	DATE: 11-21-2024
TOLERANCE	DECIMAL
EXCEPT AS	XXX ± .005
NOTED	ANGULAR ± 1/2



NAME OXYGEN LINE ASSEMBLY WITH FLEX HOSES		
DWG NO: O2C15T001		
PAPER SIZE ANSI C	SHEET 5 OF 6	REV NC

NOTES:

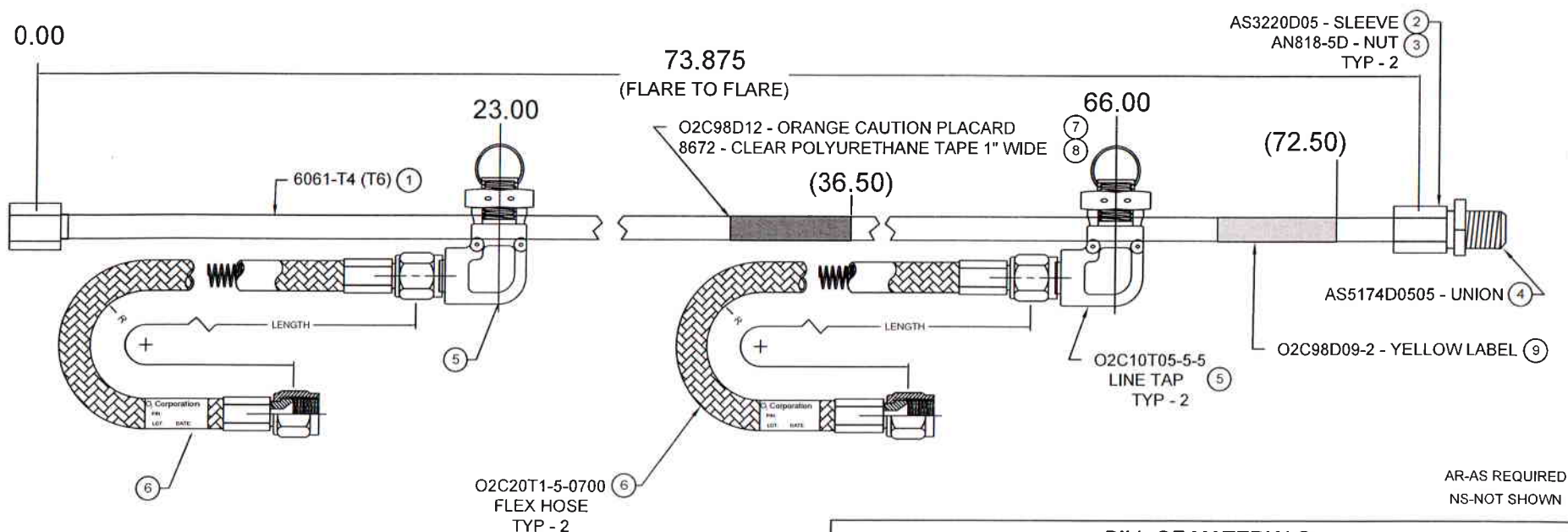
SEE PAGE 1 FOR ADDITIONAL NOTES

ORIGINAL

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
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SEE PAGE 1 FOR REVISION INFO



-4 ASSEMBLY

TOLERANCE:

LENGTHS (XXXX): ± 0.03 "

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	AR	6061-T4 (T6) MIL-C-5541	6061-T4 OR T6 TUBE AMS-WW-T-700/6 - 5/16 OD X .035W W/CHEM FILM
2	2	AS3220D05	SLEEVE BLUE ANODIZED
3	2	AN818-5D	NUT, TUBE COUPLING (ALUMINUM) BLUE
4	1	AS5174D0505	UNION & REDUCER FITTING
5	2	O2C10T05-5-5	ELBOW LINE TAP ASSEMBLY #5 FLARED FOR 5/16" TUBING
6	2	O2C20T1-5-0700	FLEXIBLE HOSE ASSEMBLY, 7.00" LONG
7	1	O2C98D12	PLACARD, CAUTION
8	1	8672	CLEAR POLYURETHANE TAPE 1" WIDE
9	1	O2C98D09-2	YELLOW HEAT SHRINK LABEL M23053/5-108-4
1	AR	83316 - RED	TORQUE SEAL - RED DYKEM CROSS CHECK PERMANENT TAMPERPROOF MARKER

DRAWN BY: ZPM DATE 19 NOV 2024

APPROVED: *[Signature]*

DATE 11-21-2024

TOLERANCE	DECIMAL	X $\pm .10$
EXCEPT AS		XX $\pm .01$
		XXX $\pm .005$
NOTED	ANGULAR	$\pm 1/2$

NAME
OXYGEN LINE ASSEMBLY
WITH FLEX HOSES

DWG NO: O2C15T001

PAPER SIZE ANSI C SHEET 6 OF 6 REV NC

PROPRIETARY NOTICE

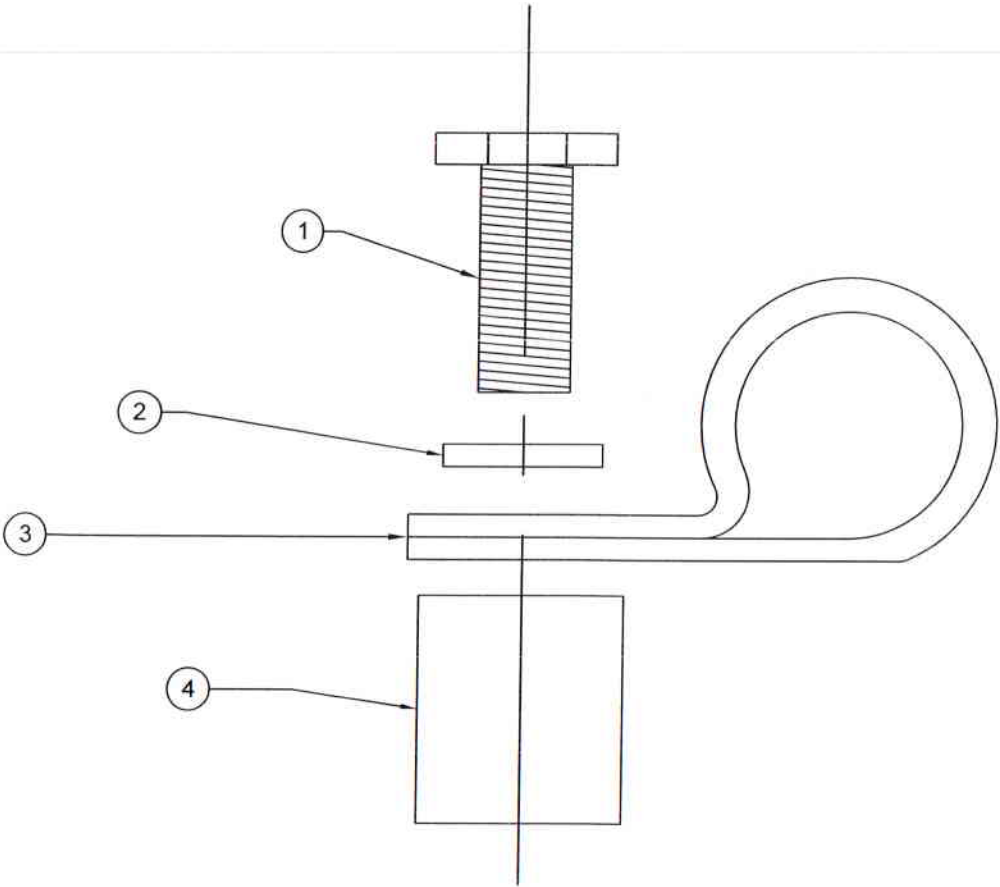
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NOTES:
1 FINAL ASSEMBLY/ INSTALLATION BY CUSTOMER:
- PACKED LOOSE IN POLY BAG FOR INSTALLATION BY CUSTOMER

ORIGINAL

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED



AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	AR	NAS1801-08-15	HEX HEAD SCREW FULL THREAD #8-32 X .94 L
2	AR	NAS1149DN816K	WASHER #8
3	AR	MS21919WDG5	CLAMP WITH WEDGE
4	AR	NAS61-3C-069	NYLON UNTHREADED ROUND SPACER 1/2" OD, 11/16" LENGTH, #10 SCREW SIZE

SAMPLE CALLOUT: O2C16T001-5 NUMBER OF PARTS OF EACH PER KIT 5 SHOWN
BASE PART NUMBER

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DRAWN BY: ZPM	DATE: 14 NOV 2024	 O ₂ CORPORATION AIRCRAFT DIVISION EQUIPMENT DEVELOPMENT	NAME LINE SUPPORT HARDWARE FOR OXYGEN HARDLINES
APPROVED: 	DATE: 11-15-2024		DWG NO: O2C16T001
TOLERANCE EXCEPT AS NOTED	DECIMAL XX ±.01 XXX ±.005 ANGULAR ± 1/2 °		PAPER SIZE ANSI C
			SHEET 1 OF 1

NOTES:

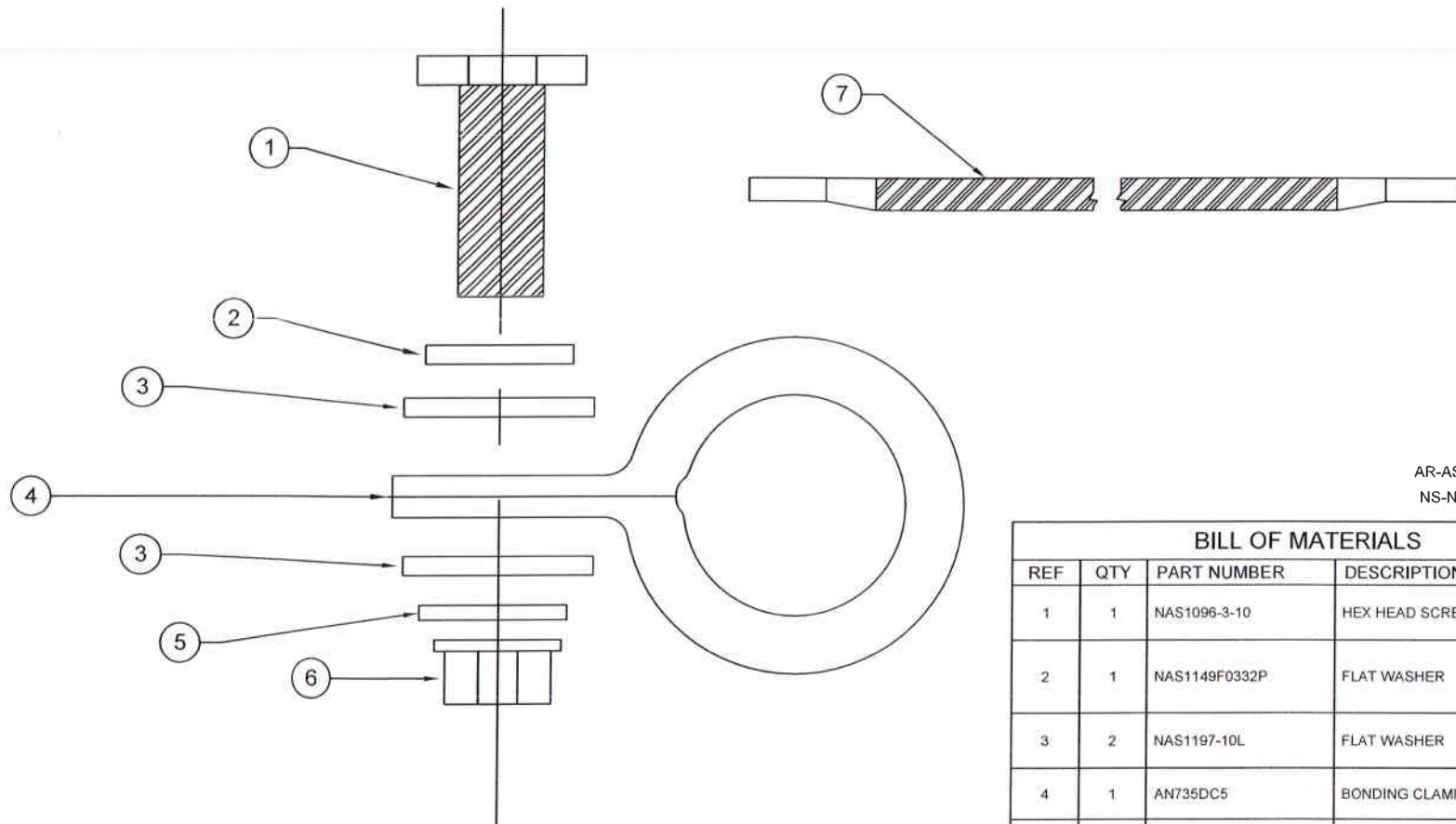
1 FINAL ASSEMBLY/ INSTALLATION BY CUSTOMER:

-PACKED LOOSE IN POLY BAG FOR INSTALLATION BY CUSTOMER.

ORIGINAL

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED



AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	1	NAS1096-3-10	HEX HEAD SCREW #10-32 X .63 L
2	1	NAS1149F0332P	FLAT WASHER
3	2	NAS1197-10L	FLAT WASHER
4	1	AN735DC5	BONDING CLAMP WITH CHEM FILM
5	1	MS35338-138	LOCK WASHER
6	1	MS21043-3	SELF LOCKING NUT
7	AR	MS25083-28BXX	BONDING JUMPER

SAMPLE CALLOUT: O2C16T002-16 LENGTH OF BONDING JUMPER IN WHOLE INCHES
IF BLANK OR -00 – NO JUMPER IS INCLUDED
BASE PART NUMBER

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DRAWN BY: ZPM	DATE: 14 NOV 2024
APPROVED: <i>[Signature]</i>	DATE: 11-20-2024
TOLERANCE EXCEPT AS NOTED	DECIMAL XX ± .01 XXX ± .005 ANGULAR ± 1/2°



NAME GROUND STUD ASSEMBLY FOR OXYGEN HARDLINES W/BONDING JUMPER
DWG NO: O2C16T002
PAPER SIZE ANSI C
SHEET 1 OF 1
REV NC



LOW PRESSURE FLEXIBLE HOSES

Our Flex Hoses offer flexible oxygen line connections at low pressure conditions. These hoses offer connections along the main oxygen feed line to accommodate oxygen distribution within the aircraft. An example would be connecting the main oxygen feed line to a mask presentation unit, which can be found within a typical passenger aircraft. Another great feature is the flexibility, which helps compensate for vibration/movement, and is beneficial during installation/removal of a mask presentation unit.

Our Flex Hoses are covered with green Nomex to provide strength and protection from both fire and foreign substances such as water, oil, etc. The color green is used, as this is standard identification for oxygen. The fittings at each end are a female nut, are available as either a flared or flareless type, and the various sizes are listed in the table below. The type of material for the fittings is aluminum, and Type 316 Stainless Steel is available in size 5 only. The flared fitting will mate with MS33656 end fittings. The flareless fitting will mate with MS33514 end fittings. Our flex hoses are also manufactured to prevent kinks, but each fitting size requires a minimum bend radius and is specified in the table below.

Fitting End Size	Thread	Minimum Bend Radius (inches)
4	.438-20-UNJF-3B	1.00
5	.500-20-UNJF-3B	1.25



O₂ CORPORATION
235 N. WASHINGTON
WICHITA, KS 67202
PHONE: (316) - 634-1240 FAX: (316) - 634-1061
www.o2corporation.com

These hoses have a maximum operating pressure of 125 psi. The proof pressure and minimum burst pressure are 250 psi and 500 psi, respectively. Each hose is individually tested for leaks and pressure rating, and cleaned for oxygen service. The operating temperature range is -40° to +165° F, while the range for exposure is -65° to +185° F.

In order to meet each customer's requirements, each Flex Hose is built to order to meet the given length and fitting requirements. The hose length can be as precise as a hundredth of an inch. Each hose is cleaned for oxygen service, and to protect the hose from contamination, each hose is shipped with a protective plastic cap on both ends and is heat-sealed in a plastic sleeve.

Information regarding our Flex Hose numbering system is detailed below:

Basic Part Number	End A	End B
O2C20T1	Flared	Flared
O2C20T3	Flareless	Flareless
O2C20T5	Flared	Flareless
O2C20T13	Flared	Flared
O2C20T14	Flared	90° Flared
O2C20T15	Flared	Customer Furnished

Example part number for ordering:

O2C20T1 - 4 - 5 - 3000

BASIC PART NUMBER

FITTING SIZE

HOSE LENGTH IN INCHES & HUNDRETHS

USE ONLY WHEN A & B FITTINGS ARE DIFFERENT SIZES

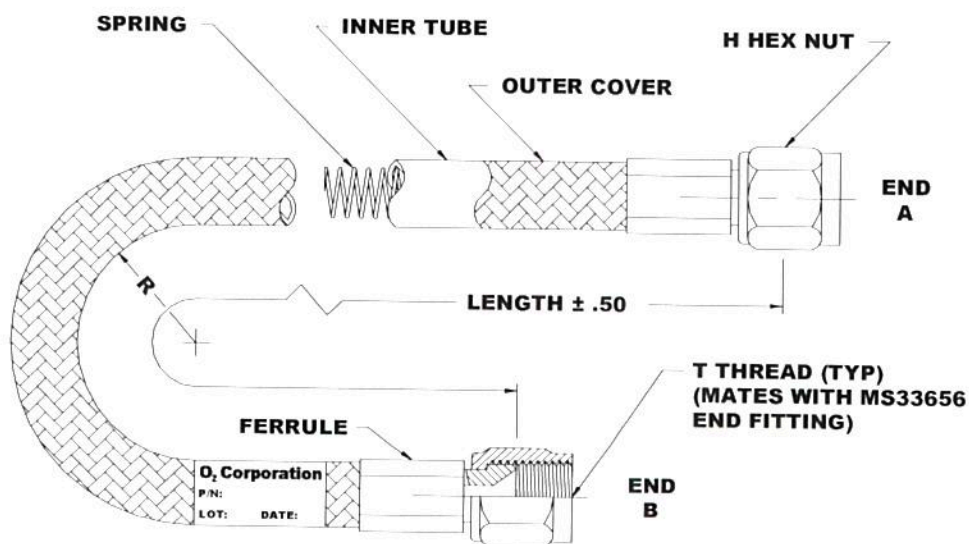
Our current hose assemblies represent the most commonly used materials and sizes for oxygen service. If you have a need for a different size, material, configuration, etc, we are ready and willing to help accommodate any needs beyond what we currently offer.



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O2C20T1

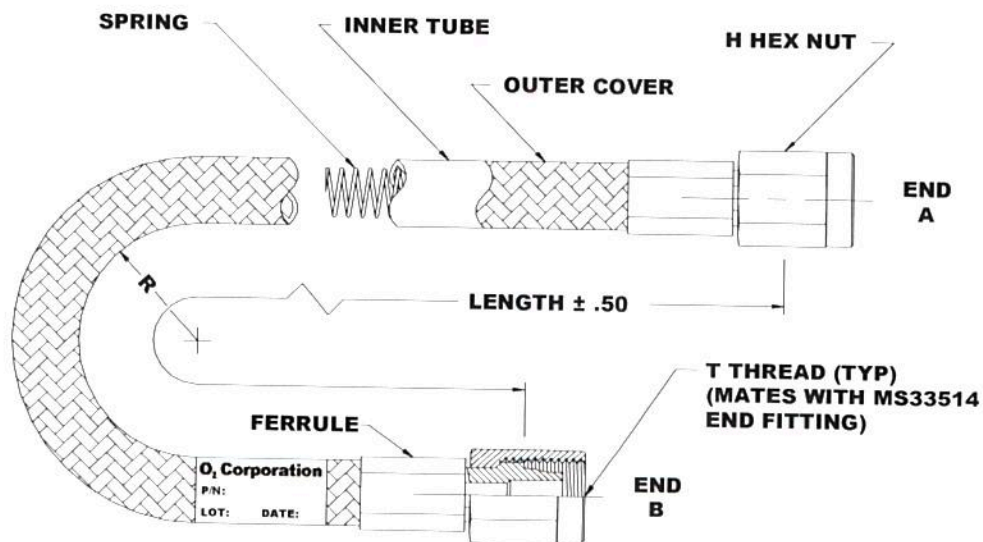
This hose offers a flared connection at each end by means of female nut, and is available in sizes 4 and/or 5. The fittings will mate with MS33656 end fittings and the type of material is aluminum. The fittings are anodized green so as to maintain standard color identification for components used for oxygen service.



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O2C20T3

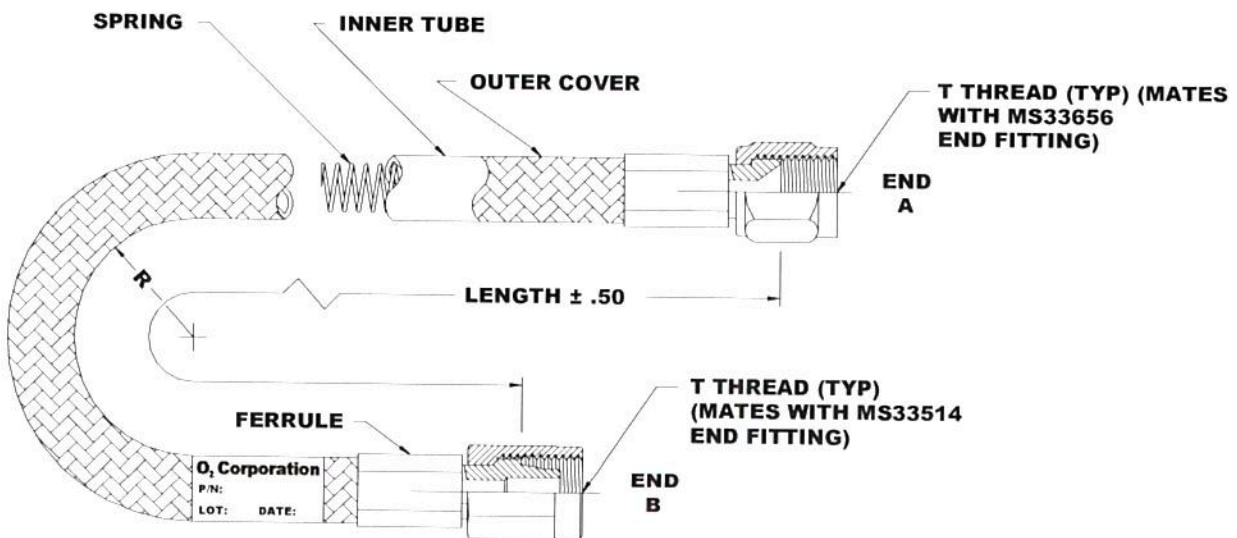
This hose offers a flareless connection at each end by means of female nut, and is available in sizes 4 and/or 5. The fittings will mate with MS33514 end fittings and the type of material is aluminum. The fittings are anodized green so as to maintain standard color identification for components used for oxygen service.



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O2C20T5

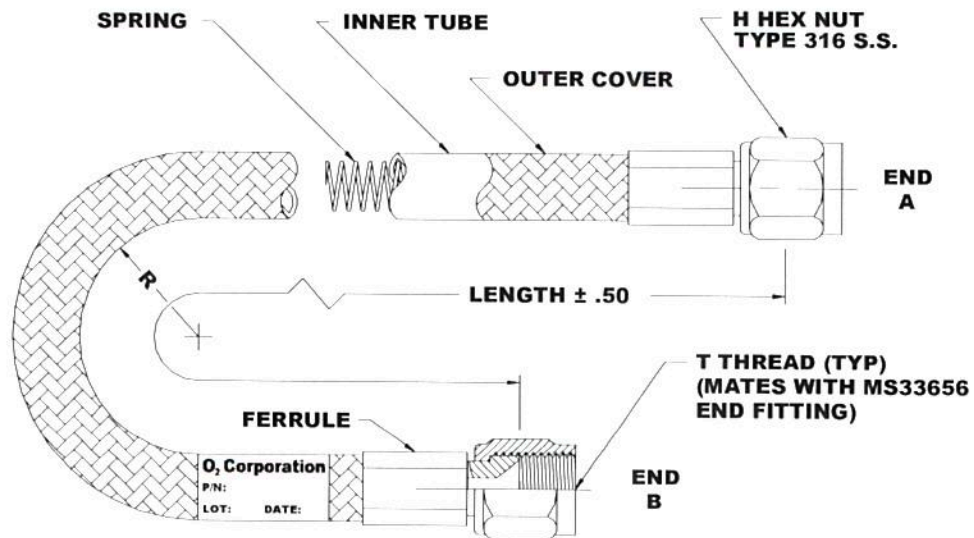
This hose offers a flared connection at one end and a flareless connection at the other end. The fitting for both ends is a female nut, available in sizes 4 and/or 5. The flared fitting will mate with MS33656 end fittings, and the flareless fitting will mate with MS33514 end fittings. The type of material for both fittings is aluminum, and they are anodized green so as to maintain standard color identification for components used for oxygen service.



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O2C20T13

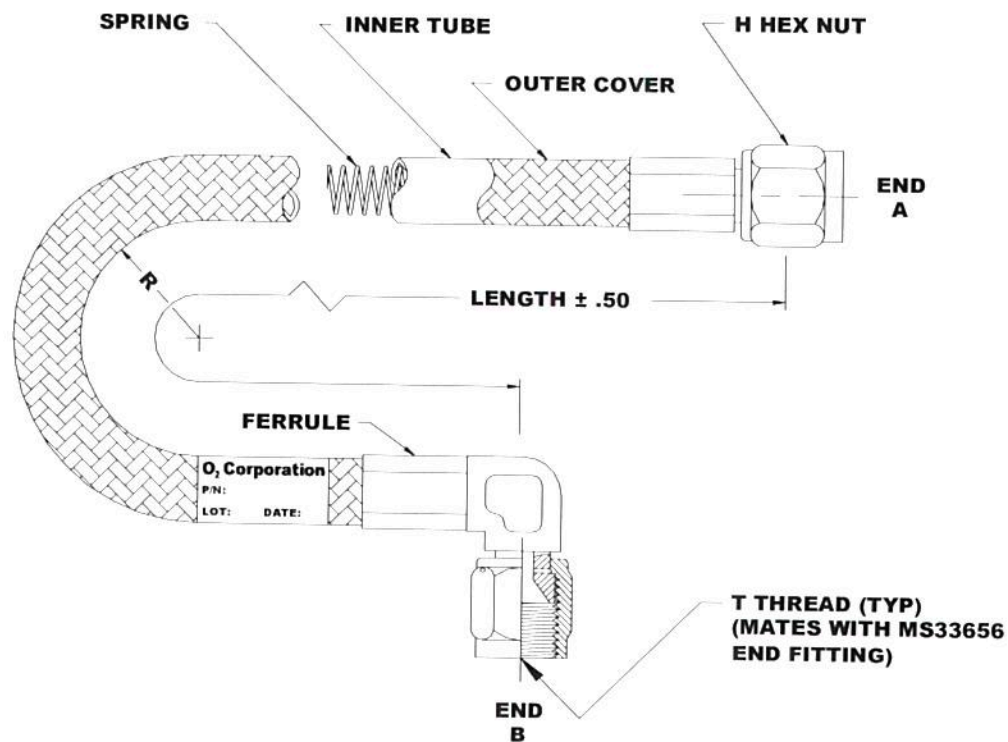
This hose offers a flared connection at each end by means of female nut, and is currently available in size 5 only. The fittings will mate with MS33656 end fittings and the type of material is Type 316 stainless steel.



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O2C20T14

This hose offers a flared connection at each end by means of female nut, and is currently available in size 5 only. This hose assembly provides a straight fitting at one end and a 90° elbow at the other end. The fittings will mate with MS33656 end fittings and the type of material is aluminum. The fittings are anodized green so as to maintain standard color identification for components used for oxygen service.



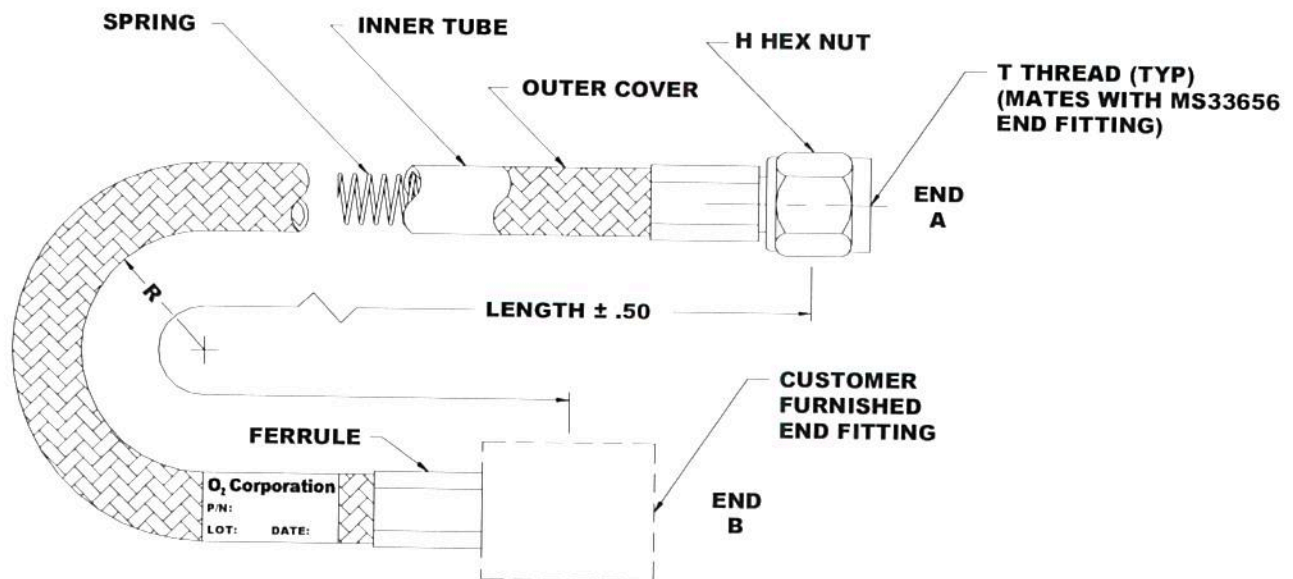
O₂ CORPORATION
235 N. WASHINGTON
WICHITA, KS 67202
PHONE: (316)-634-1240 FAX: (316)-634-1061
www.o2corporation.com

O2C20T15

This hose offers a flared connection at one end by means of a female nut, available in either size 4 or 5, and will mate with MS33656 end fittings. The type of material is aluminum and is anodized green so as to maintain standard color identification for components used for oxygen service.

The opposing end offers a connection provided by the customer. The customer furnished fitting must be compatible with the existing design. The stem diameter that is inserted into the hose must be .230 inches minimum, or capable of being reduced to .230 – .250 inches.

The customer furnished fitting should not have any flow restriction if used with a Nebulizer Kit. If a flow restriction is present and cannot be removed the fitting shall not be used in a Nebulizer Kit Assembly.



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NOTES:

CLEANED IN ACCORDANCE WITH SAE ARP1176-3
AND PACKAGED TO PER SAE AIR5742

OPERATING SPECIFICATIONS:

PRESSURE (@ 70° F):
OPERATING: 125 PSI
PROOF: 250 PSI
BURST: 500 PSI

TEMPERATURE:

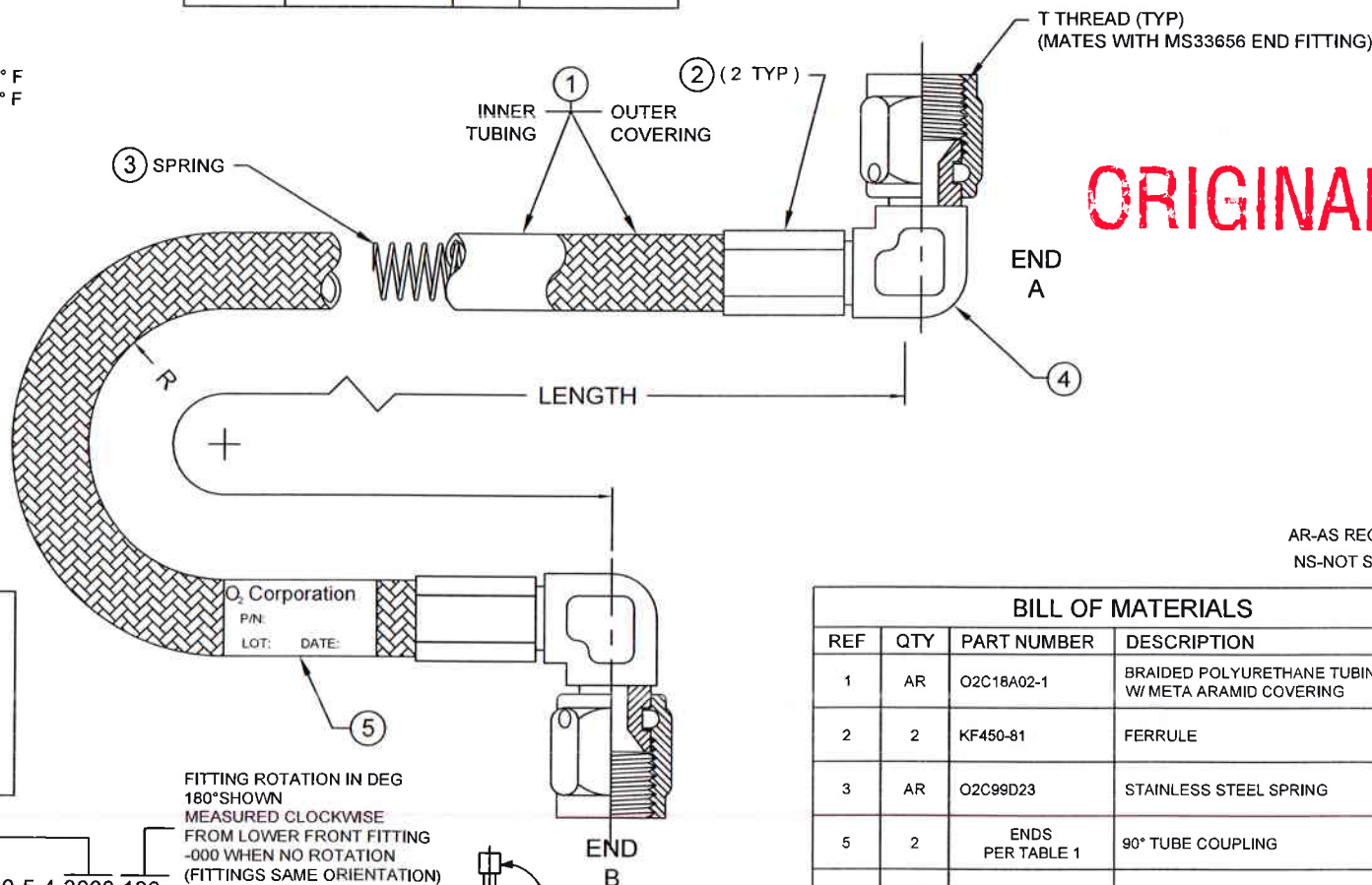
OPERATING: -40° TO + 165° F
EXPOSURE: -65° TO + 185° F

MIN. BEND RADIUS - 1.00"

TABLE 1			
FITTING END SIZE	THREAD	HEX	FITTINGS END A & B
4	.438-20 UNJF-3B	.563	O2C21A02-4
5	.500-20 UNJF-3B	.625	O2C21A02-5

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED



TOLERANCE:
LENGTHS (XXXX):
 $\pm 0.5" < 36"$ (LESS THAN)
 $\pm 2.0" \geq 36"$ (EQUAL OR GREATER THAN)
ROTATION (XX°): $\pm 10^\circ$

HOSE LENGTH IN INCHES & HUNDREDTHS
30" LENGTH SHOWN

SAMPLE CALLOUT: O2C20T30-5-4-3000-180

BASE P/N

FITTING SIZE

USE ONLY WHEN A & B FITTINGS
ARE DIFFERENT SIZES

END(S)
A & B

FITTING ROTATION IN DEG
180° SHOWN
MEASURED CLOCKWISE
FROM LOWER FRONT FITTING
-000 WHEN NO ROTATION
(FITTINGS SAME ORIENTATION)

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EXCEPT WHEN SUCH USER POSSESSES DIRECT, WRITTEN AUTHORIZATION FROM O2 CORPORATION.

AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	AR	O2C18A02-1	BRAIDED POLYURETHANE TUBING W/ META ARAMID COVERING
2	2	KF450-81	FERRULE
3	AR	O2C99D23	STAINLESS STEEL SPRING
5	2	ENDS PER TABLE 1	90° TUBE COUPLING
5	1	O2C98D04-1	LABEL

DRAWN BY: ZPM	DATE: 27 FEB 2025		NAME: BRAIDED POLYURETHANE HOSE ASSEMBLY W/ FLARED FITTINGS 90° FITTINGS W/ ROTATION VARIANCE
APPROVED: <i>[Signature]</i>	DATE: 2-27-25		DWG NO: O2C20T30
TOLERANCE EXCEPT AS NOTED	DECIMAL X $\pm .10$ XX $\pm .01$ XXX $\pm .005$ ANGULAR $\pm 1/2$		PAPER SIZE ANSI C
			SHEET 1 OF 1

NOTES:

CLEANED IN ACCORDANCE WITH SAE ARP1176-3
AND PACKAGED TO PER SAE AIR5742

**OPERATING SPECIFICATIONS ARE
DEPENDENT ON CUSTOMER FITTING**

**STANDARD SPECIFICATIONS BELOW
ARE USED UNLESS CUSTOMER
SPECIFIES OTHERWISE**

OPERATING SPECIFICATIONS:

PRESSURE (@ 70° F):

OPERATING: 125 PSI

PROOF: 250 PSI

BURST: 500 PSI

TEMPERATURE:

OPERATING: -40° TO + 165° F

EXPOSURE: -65° TO + 185° F

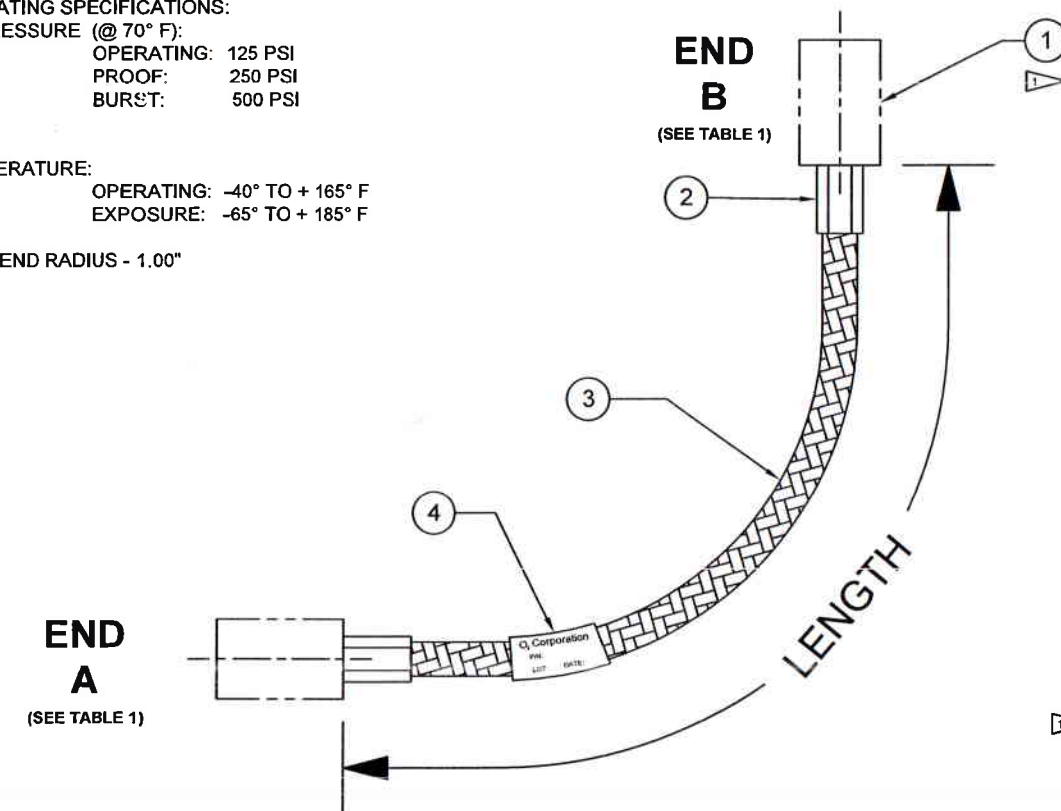
MIN. BEND RADIUS - 1.00"

TABLE 1
FITTING REQUIREMENTS
ANY FITTING, BARBED WONDER OR COMBINATION OF: .215-.250 OR CAN BE MACHINED ON THE END WHICH IS INSTALLED INTO THE TUBING.

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED

ORIGINAL



**END
A**
(SEE TABLE 1)

**END
B**
(SEE TABLE 1)

1 2 TYP
MUST MEET TABLE 1 REQUIREMENTS

TOLERANCE:
LENGTHS (XXXX):
 $\pm 0.5" < 36"$ (LESS THAN)
 $\pm 2.0" \geq 36"$ (EQUAL OR GREATER THAN)

AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	2	END A/B - PER TABLE 1	NUT & BARBED WONDER, TUBE COUPLING CUSTOMER FURNISHED
2	2	KF450-81	FERRULE
3	AR	O2C18A02-1	BRAIDED POLYURETHANE TUBING W/ META ARAMID COVERING
4	1	O2C98D04-1	LABEL
NS	AR	O2C99D23	SS SPRING

SAMPLE CALLOUT: O2C20T31-3000

BASE P/N

HOSE LENGTH IN INCHES & HUNDREDTHS
30" HOSE SHOWN

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DRAWN BY: ZPM DATE: 01 MAY 2025

APPROVED: JLO DATE: 5-7-2025

TOLERANCE DECIMAL
X $\pm .10$
XX $\pm .03$
XXX $\pm .005$
NOTED ANGULAR $\pm 1/2$



NAME
BRAIDED POLYURETHANE HOSE
AND CUSTOMER FURNISHED ENDS

DWG NO: O2C20T31

PAPER SIZE ANSI C SHEET 1 OF 1 REV NC

NOTES:

CLEANED IN ACCORDANCE WITH SAE ARP1176-3
AND PACKAGED TO PER SAE AIR5742

OPERATING SPECIFICATIONS:

PRESSURE (@ 70° F):

OPERATING: 125 PSI

PROOF: 250 PSI

BURST: 500 PSI

TEMPERATURE:

OPERATING: -40° TO + 165° F

EXPOSURE: -65° TO + 185° F

MIN. BEND RADIUS - 1.02"

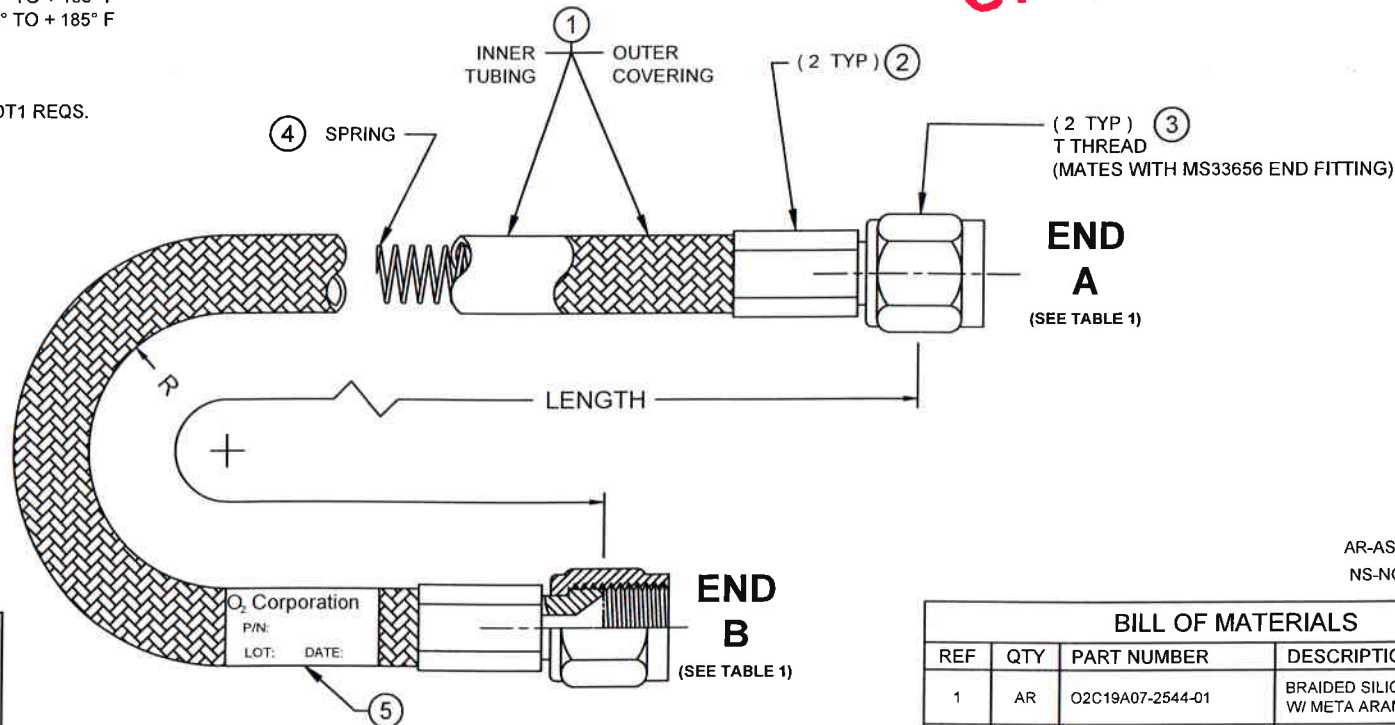
MEETS AND EXCEEDS P/N O2C20T1 REQS.

TABLE 1			
FITTING END SIZE	THREAD	HEX	END A/B FITTING ②
4	.438-20 UNJF-3B	.563	AN818-4D O2C21D01-4
5	.500-20 UNJF-3B	.625	AN818-5D O2C21D01-5

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED

ORIGINAL



TOLERANCE:
LENGTHS (XXXX):

± 0.5" < 36" (LESS THAN)

± 2.0" ≥ 36" (EQUAL OR GREATER THAN)

SAMPLE CALLOUT: OXS1001-5-4-3000

BASE P/N

FITTING SIZE

END(S)
A & B

HOSE LENGTH IN INCHES & HUNDREDTHS
30" LENGTH SHOWN

USE ONLY WHEN A & B FITTINGS
ARE DIFFERENT SIZES

AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	AR	O2C19A07-2544-01	BRAIDED SILICONE TUBING W/ META ARAMID COVERING
2	2	KF450-81	FERRULE
3	2	END A/B PER TABLE 1	NUT & BARBED WONDER, TUBE COUPLING
4	AR	O2C99D23	STAINLESS STEEL SPRING
5	1	O2C98D04-1	LABEL

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DRAWN BY: ZPM DATE: 15 DEC 2023

APPROVED: *[Signature]* DATE: 12-15-23

TOLERANCE DECIMAL XX ± 01
EXCEPT AS XXX ± 005
NOTED ANGULAR ± 1/2°



NAME:
BRAIDED SILICONE HOSE ASSEMBLY
W/ FLARED FITTINGS - STRAIGHT

DWG NO: OXS1001

PAPER SIZE ANSI C

SHEET 1 OF 1

REV
NC

NOTES:

CLEANED IN ACCORDANCE WITH SAE ARP1176-3
AND PACKAGED TO PER SAE AIR5742

OPERATING SPECIFICATIONS:

PRESSURE (@ 70° F):

OPERATING: 125 PSI

PROOF: 250 PSI

BURST: 500 PSI

TEMPERATURE:

OPERATING: -40° TO + 165° F

EXPOSURE: -65° TO + 185° F

MIN. BEND RADIUS - 1.00"

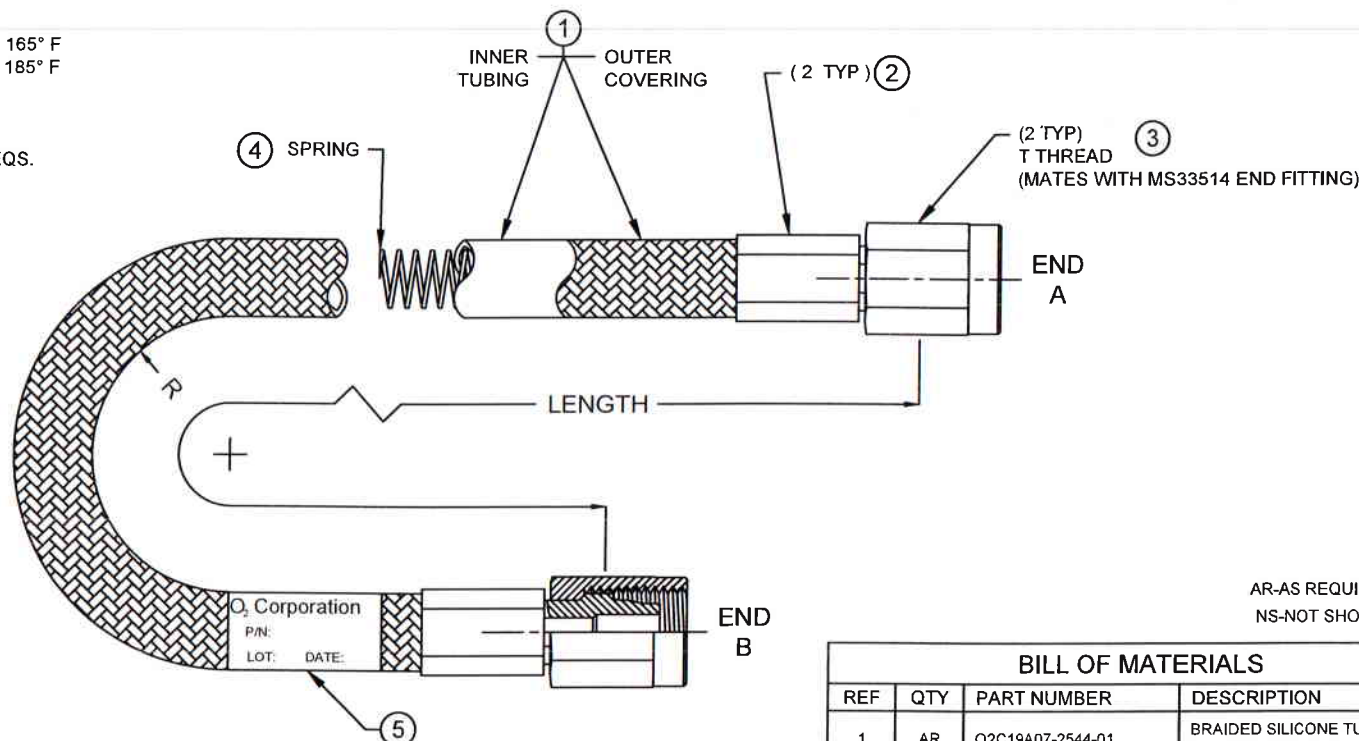
MEETS AND EXCEEDS P/N O2C20T3 REQS.

TABLE 1			
FITTING END SIZE	THREAD	HEX	END A/B FITTING ②
4	.438-20 UNJF-3B	.563	MS21921-4D O2C21D04-3
5	.500-20 UNJF-3B	.625	MS21921-5D O2C21D04-1

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED

ORIGINAL



TOLERANCE:
LENGTHS (XXXX):

± 0.5" < 36" (LESS THAN)

± 2.0" ≥ 36" (EQUAL OR GREATER THAN)

AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	AR	O2C19A07-2544-01	BRAIDED SILICONE TUBING W/ META ARAMID COVERING
2	2	KF450-81	FERRULE
3	2	END A/B PER TABLE 1	NUT & BARBED WONDER, TUBE COUPLING
4	AR	O2C99D23	STAINLESS STEEL SPRING
5	1	O2C98D04-1	LABEL

SAMPLE CALLOUT: OXS1003-4-5-3000

BASE P/N

FITTING SIZE

END(S)
A & B

HOSE LENGTH IN INCHES & HUNDREDTHS
30" LENGTH SHOWN

USE ONLY WHEN A & B FITTINGS
ARE DIFFERENT SIZES

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DRAWN BY: ZPM

DATE: 13 FEB 2024

APPROVED: *[Signature]*

DATE: 3-6-2024

TOLERANCE

DECIMAL XX ± 01

EXCEPT AS

XXX ± 005

NOTED

ANGULAR ± 1/2°



NAME

BRAIDED HOSE ASSEMBLY
W/FLARELESS FITTINGS

DWG NO: OXS1003

PAPER SIZE ANSI C

SHEET 1 OF 1

REV
NC

NOTES:

CLEANED IN ACCORDANCE WITH SAE ARP1176-3
AND PACKAGED TO PER SAE AIR5742

OPERATING SPECIFICATIONS:

PRESSURE (@ 70° F):
OPERATING: 125 PSI
PROOF: 250 PSI
BURST: 500 PSI

TEMPERATURE:

OPERATING: -40° TO + 165° F
EXPOSURE: -65° TO + 185° F

MIN. BEND RADIUS - 1.00"

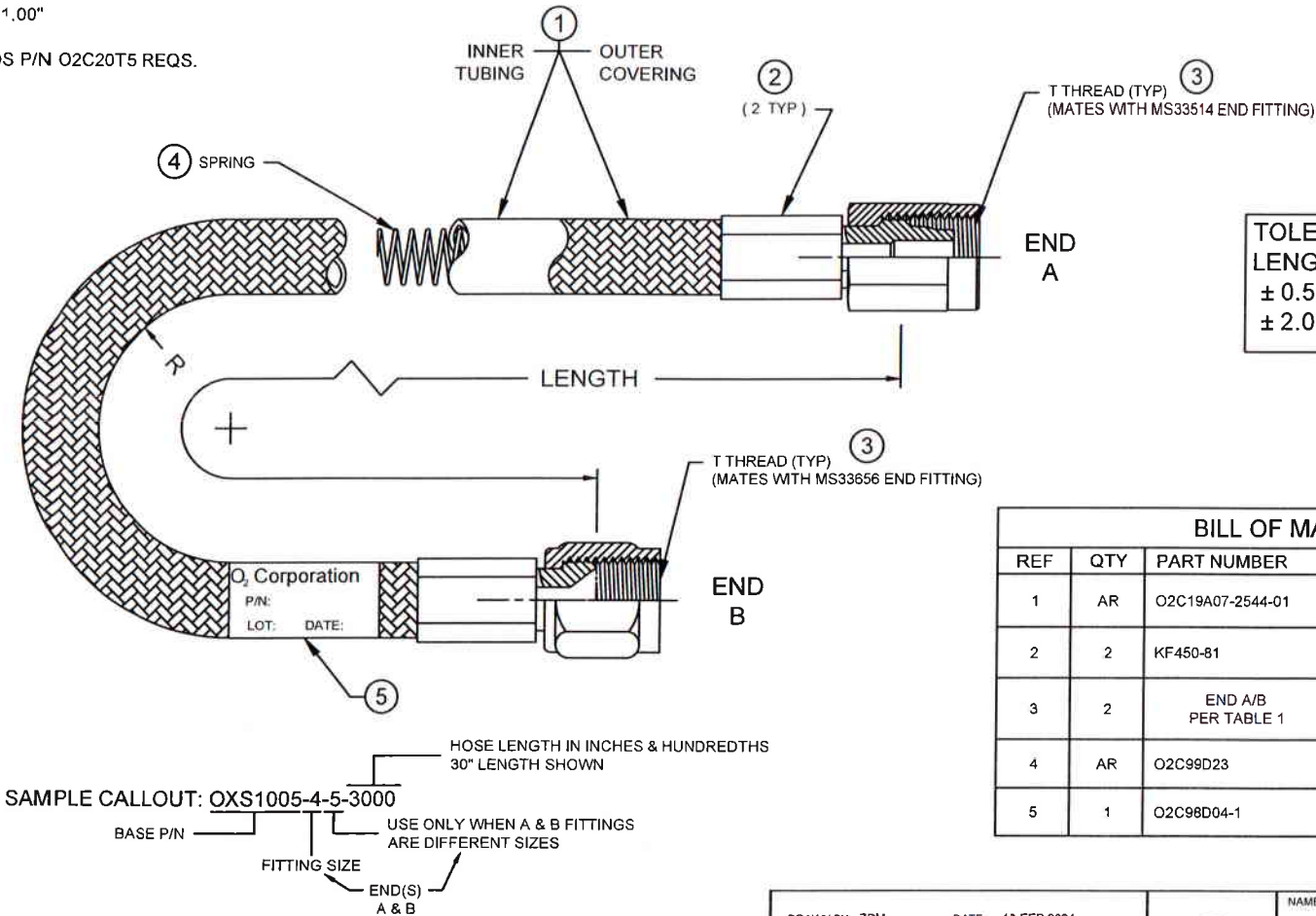
MEETS AND EXCEEDS P/N O2C20T5 REQS.

TABLE 1				
FITTING END SIZE	THREAD	HEX	END A FITTING	END B FITTING
4	.438-20 UNJF-3B	.563	MS21921-4D O2C21D04-3	AN818-4D O2C21D01-4
5	.500-20 UNJF-3B	.625	MS21921-5D O2C21D04-1	AN818-5D O2C21D01-5

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED

ORIGINAL



TOLERANCE:
LENGTHS (XXXX):
± 0.5" < 36" (LESS THAN)
± 2.0" ≥ 36" (EQUAL OR GREATER THAN)

AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	AR	O2C19A07-2544-01	BRAIDED SILICONE TUBING W/ META ARAMID COVERING
2	2	KF450-81	FERRULE
3	2	END A/B PER TABLE 1	NUT & BARBED WONDER, TUBE COUPLING
4	AR	O2C99D23	STAINLESS STEEL SPRING
5	1	O2C98D04-1	LABEL

SAMPLE CALLOUT: OXS1005-4-5-3000

BASE P/N
FITTING SIZE
END(S)
A & B
USE ONLY WHEN A & B FITTINGS
ARE DIFFERENT SIZES

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AUTHORIZATION FROM O2 CORPORATION.

DRAWN BY: ZPM	DATE: 13 FEB 2024		NAME: BRAIDED HOSE ASSEMBLY W/FLARED & FLARELESS FITTINGS
APPROVED: <i>[Signature]</i>	DATE: 3-5-2024		DWG NO: OXS1005
TOLERANCE EXCEPT AS NOTED	DECIMAL XX ± .01 XXX ± .005 ANGULAR ± 1/2°		PAPER SIZE ANSI C
SHEET 1 OF 1			REV NC

NOTES:

CLEANED IN ACCORDANCE WITH SAE ARP1176-3
AND PACKAGED TO PER SAE AIR5742

ALL FITTING MUST BE MACHINED OR BE BARBLESS
FOR USE IN NEBULIZER HOSE

OPERATING SPECIFICATIONS:

PRESSURE (@ 70° F):

OPERATING/ PROOF:

PER O2C50 CHART
AS FITTINGS REQUIRED

MIN. BEND RADIUS - 1.00"

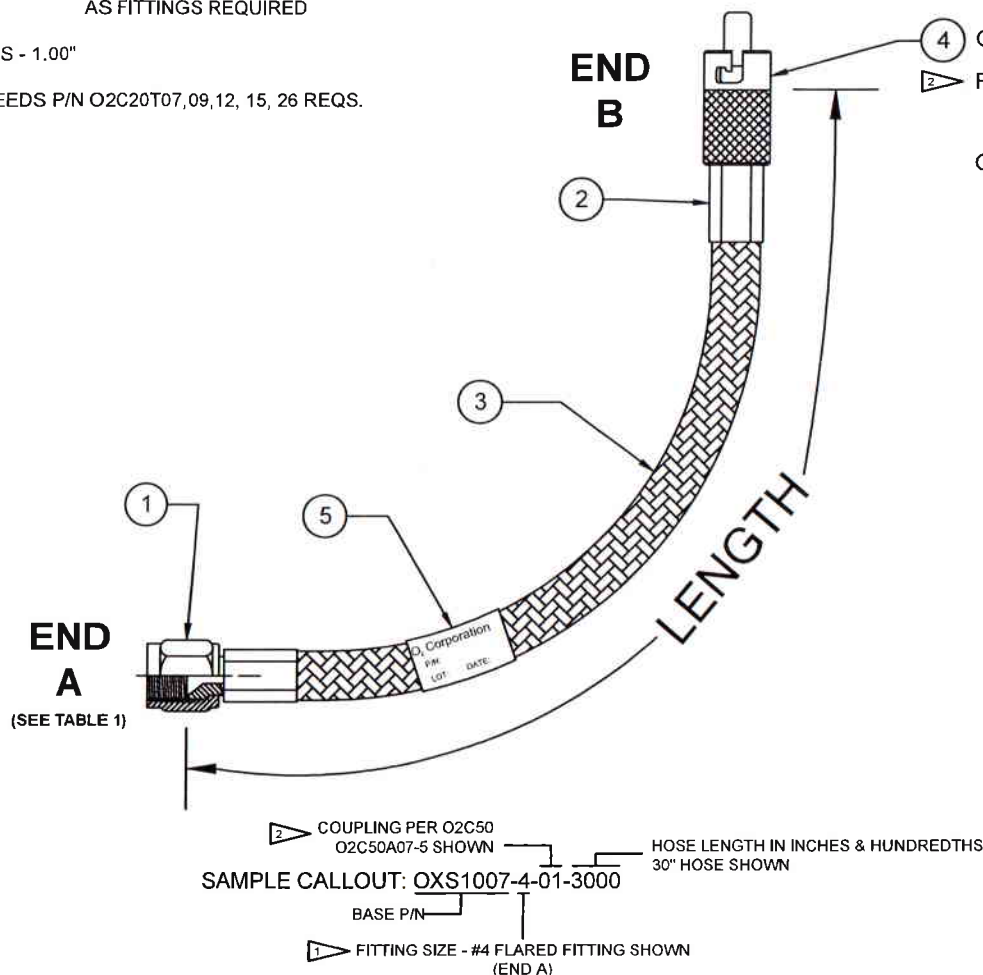
MEETS AND EXCEEDS P/N O2C20T07,09,12, 15, 26 REQS.

TABLE 1			
FITTING END SIZE	THREAD	HEX	END A FITTING MATES W/ AS4395 (MS33656)
4	.438-20 UNJF-3B	.563	AN818-4D O2C21D01-4
5	.500-20 UNJF-3B	.625	AN818-5D O2C21D01-5

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	REVISED NOTES: * REMOVED TEMPERATURE RATING. * CHANGED OPERATING SPECS TO SEE O2C50 CHART FOR REQS., * UPDATED HOSES THAT ARE EXCEEDED. * PN CALL-OUT FOR FITTING CHART REQS. ADDED: * FLAG NOTES ARE REQ.	02 Jan 2024	

ORIGINAL



O2C50 COUPLING

REF. O2C50 DRAWING FOR AVAILABLE COUPLINGS
AND MATING OUTLETS

O2C50A07-5 SHOWN (-01)

TOLERANCE:

LENGTHS (XXXX):

$\pm 0.5" < 36"$ (LESS THAN)

$\pm 2.0" \geq 36"$ (EQUAL OR GREATER THAN)

AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	1	END A -- PER TABLE 1	NUT & BARBED WONDER, TUBE COUPLING
2	2	KF450-81	FERRULE
3	AR	O2C19A07-2544-01	BRAIDED SILICONE TUBING (META ARAMID.)
4	1	END B -- O2C50 COUPLING	PER O2C50 DRAWING
5	1	O2C98D04-1	LABEL
NS	AR	O2C99D23	SS SPRING

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DRAWN BY: ZPM

DATE: 13 NOV 2023

APPROVED: *SLC*

DATE: 1-2-2024

TOLERANCE

DECIMAL XX $\pm .01$

EXCEPT AS

XXX $\pm .005$

NOTED

ANGULAR $\pm 1/2^\circ$



NAME

BRAIDED SILICONE NEBULIZER HOSE
W/ O2C50 COUPLING
AND MS33656 FLARED FITTING

DWG NO: OXS1007

PAPER SIZE ANSI C

SHEET 1 OF 1

REV
A

NOTES:

CLEANED IN ACCORDANCE WITH SAE ARP1176-3
AND PACKAGED TO PER SAE AIR5742

OPERATING SPECIFICATIONS:

PRESSURE (@ 70° F):
OPERATING: 125 PSI
PROOF: 250 PSI
BURST: 500 PSI

TEMPERATURE:

OPERATING: -40° TO + 165° F
EXPOSURE: -65° TO + 185° F

MIN. BEND RADIUS - 1.00"

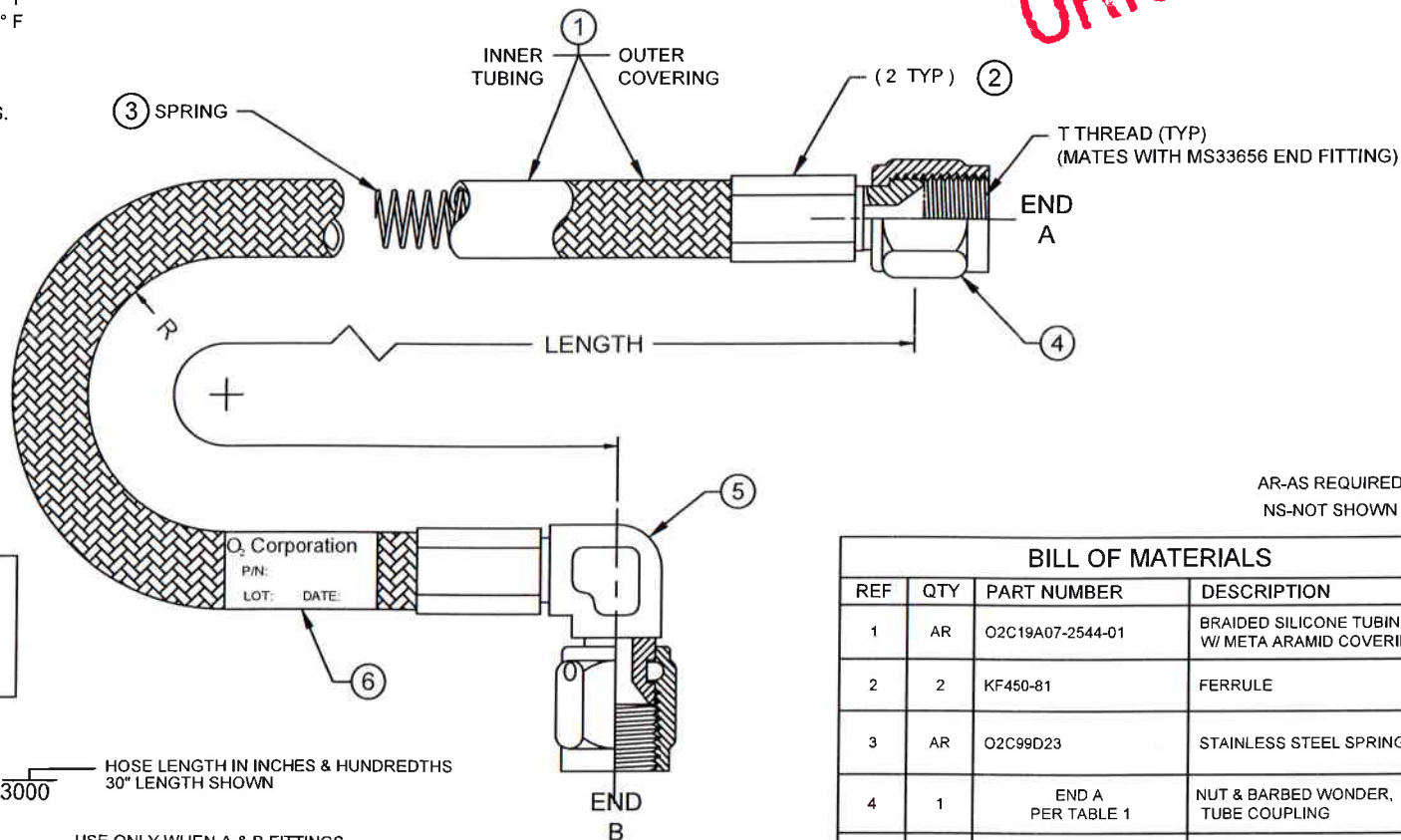
MEETS AND EXCEEDS P/N O2C20T14 REQS.

TABLE 1				
FITTING END SIZE	THREAD	HEX	FITTINGS END A	FITTINGS END B
4	.438-20 UNJF-3B	.563	O2C818-4D O2C21D01-4	O2C21A02-4
5	.500-20 UNJF-3B	.625	O2C818-5D O2C21D01-5	O2C21A02-5

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED

ORIGINAL



TOLERANCE:
LENGTHS (XXXX):
± 0.5" < 36" (LESS THAN)
± 2.0" ≥ 36" (EQUAL OR GREATER THAN)

SAMPLE CALLOUT: OXS1014-5-4-3000
HOSE LENGTH IN INCHES & HUNDREDTHS
30" LENGTH SHOWN
BASE P/N
FITTING SIZE
END(S)
A & B
USE ONLY WHEN A & B FITTINGS
ARE DIFFERENT SIZES

AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	AR	O2C19A07-2544-01	BRAIDED SILICONE TUBING W/ META ARAMID COVERING
2	2	KF450-81	FERRULE
3	AR	O2C99D23	STAINLESS STEEL SPRING
4	1	END A PER TABLE 1	NUT & BARBED WONDER, TUBE COUPLING
5	1	END B PER TABLE 1	90° TUBE COUPLING
6	1	O2C98D04-1	LABEL

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DRAWN BY: ZPM	DATE: 15 DEC 2023
APPROVED: <i>[Signature]</i>	DATE: 12-15-2023
TOLERANCE	DECIMAL XX ± .01
EXCEPT AS	XXX ± .005
NOTED	ANGULAR ± 1/2°



NAME:
BRAIDED SILICONE HOSE ASSEMBLY
W/ FLARED FITTINGS
STRAIGHT AND 90° FITTINGS

DWG NO: OXS1014

PAPER SIZE ANSI C SHEET 1 OF 1 REV NC

NOTES:

CLEANED IN ACCORDANCE WITH SAE ARP1176-3
AND PACKAGED TO PER SAE AIR5742

OPERATING SPECIFICATIONS:

PRESSURE:

OPERATING: 50 - 100 PSI

PROOF: 140 PSI

TEMPERATURE RATINGS:

OPERATING: -40° - +165° F

EXPOSURE: -65° - +185° F

MIN. BEND RADIUS - 1.00"

MEETS AND EXCEEDS P/N O2C20T29 REQS.

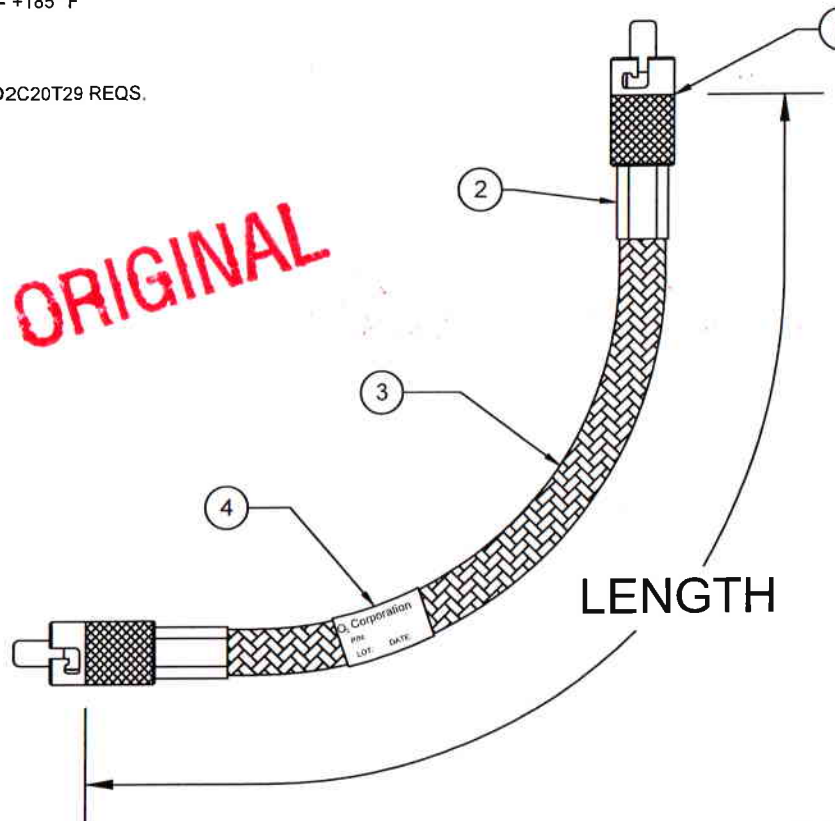
TABLE 1 - MATING OUTLETS

O2 CORPORATION	O2C40T01 SERIES
B/E AEROSPACE	170089, 170081, & Z808
AVOX SYSTEMS	802959-01 & 36728-01
EROS	BPB153 & DPB181 (NON-METERED)

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED

ORIGINAL



O2C50A07-5 COUPLING 2 TYP

REF. TABLE 1 FOR MATING OUTLETS

TOLERANCE:

LENGTHS (XXXX):

$\pm 0.5" < 36"$ (LESS THAN)

$\pm 2.0" \geq 36"$ (EQUAL OR GREATER THAN)

AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	2	O2C50A07-5	BAYONET COUPLING - BARBLESS
2	2	KF450-81	FERRULE
3	AR	O2C19A07-2544-01	BRAIDED SILICONE TUBING (META ARAMID.)
4	1	O2C98D04-1	LABEL
NS	AR	O2C99D23	SS SPRING

SAMPLE CALLOUT: OXS1029-3000

BASE P/N

HOSE LENGTH IN INCHES & HUNDREDTHS
30" HOSE SHOWN

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DRAWN BY: ZPM

DATE: 25 JAN 2024

APPROVED: *320*

DATE: *1-25-24*

TOLERANCE

DECIMAL XX $\pm .01$

EXCEPT AS

XXX $\pm .005$

NOTED

ANGULAR $\pm 1/2^\circ$



NAME

BRAIDED SILICONE NEBULIZER HOSE
W/ O2C50A07-5 BAYONET COUPLING
BOTH ENDS

DWG NO: OXS1029

PAPER SIZE ANSI C

SHEET 1 OF 1

REV

NC



MANIFOLDS

The O₂ Corporation Manifolds are designed to regulate the flow of oxygen from an on board oxygen source to an oxygen presentation device. Our manifolds are designed to accommodate 1 or 2 oxygen presentation devices by means of an outlet. Once the on board oxygen supply has been activated, the manifold can then be activated by releasing the Pin/Pull Ring Actuator and oxygen delivery will commence.



Our manifolds include a 1/8" NPT Inlet for connection to an on board oxygen source.

Part Number*	Description
100-002-XX	Dual Manifold Assembly
100-006-XX	Single Manifold Assembly

* Flow rate designated by "-XX" and set per O2 Corporation Flow-Dot Drawing

O₂ CORPORATION
235 N. WASHINGTON
WICHITA, KS 67202
PHONE: (316) - 634 - 1240 FAX: (316) - 634 - 1061
www.o2corporation.com



MASK ASSEMBLIES

The O₂ Corporation Mask Assemblies provide a means for therapeutic oxygen delivery for individual passenger needs. An oxygen outlet is required for the use of a Mask Assembly, and will allow the passenger to connect to either a fixed or portable oxygen source.

When an oxygen outlet is available in the aircraft, the passenger may connect to the aircraft oxygen system to receive therapeutic oxygen during flight. This method for oxygen delivery provides convenience for the passenger, as well as for the flight operators that would otherwise have to address a supplemental oxygen cylinder being brought on board.

Our Mask Assemblies will also connect to a charged oxygen cylinder that includes a compatible outlet. This offers the user the convenience of having portable oxygen available to them.

Each mask assembly is equipped with either a Clear "Triangular" style mask or a Yellow "Dixie Cup" style mask. Because each aircraft may come equipped with different oxygen outlets, we offer a variety of couplings to meet compatibility requirements. The information regarding which couplings are available for each Mask Assembly, other equivalent couplings, and which outlets they will mate with, are detailed below.

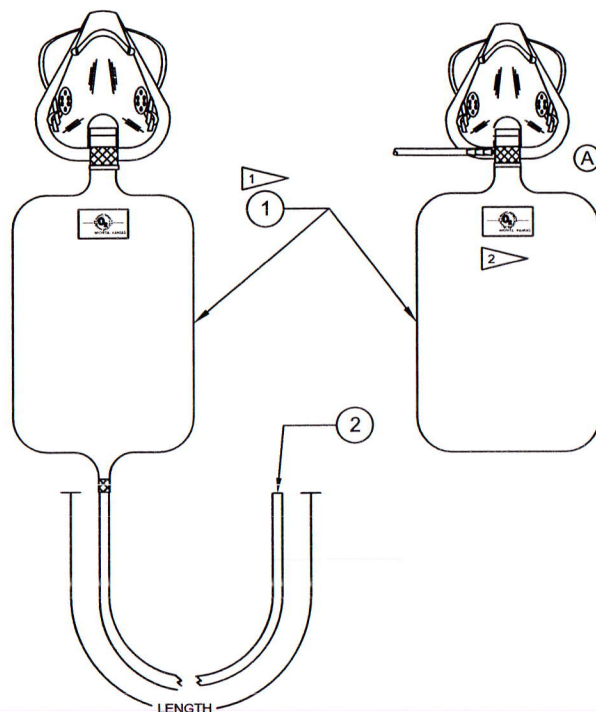


O₂ CORPORATION
235 N. WASHINGTON
WICHITA, KS 67202
PHONE: (316)-634-1240 FAX: (316)-634-1061
www.o2corporation.com

NOTES:

- 1 301-030-06 IS AN ALTERNATIVE MASK CONFIGURATION (A)
W/TUBING ATTACHED ON SIDE OF MASK
- 2 VINYL STICKER 301-030-4 ADDED DURING FINAL ASSEMBLY

ORIGINAL



TOLERANCE:
LENGTHS (XXXX): ± 1.0 "

SAMPLE CALLOUT: O2C52A03-2
BASE P/N

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REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	UPDATED: FORMAT CHANGED: ADDED: ALT ASSEMBLY CONFIGURATION	4-3-2025	56

AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	1	O2C54A01-1 OR 301-030-06 (A)	CLEAR MASK AND BAG ASSEMBLY
2	58"	O2C18D01-3	TUBING
NS	AR	471-1/2" GREEN TAPE	GREEN TAPE

DRAWN BY: O2 CORP DATE: 03 SEPT 1998

APPROVED: JLO DATE: 03 SEPT 1998

TOLERANCE DECIMAL
X $\pm .10$
XX $\pm .01$
XXX $\pm .005$
NOTED ANGULAR $\pm 1/2$



NAME
CLEAR MASK ASSEMBLY WITH
58" TUBING

DWG NO: O2C52A03-2

PAPER SIZE ANSI C SHEET 1 OF 1 REV A

NOTES:

- 1 MASK IS INCOMPATIBLE WITH FLOW INDICATORS
- 2 301-030-06 IS AN ALTERNATIVE MASK CONFIGURATION (D) W/TUBING ATTACHED ON SIDE OF MASK
- 3 MAX LENGTH IS 600 INCHES USING O2C18D06-50 SLIP-ON TUBING W/ 50 FEET OF TUBING
- 4 STANDARD TUBING LENGTH IS 7 FEET LONG.
- 5 VINYL STICKER 301-030-4 ADDED DURING FINAL ASSEMBLY

ORIGINAL

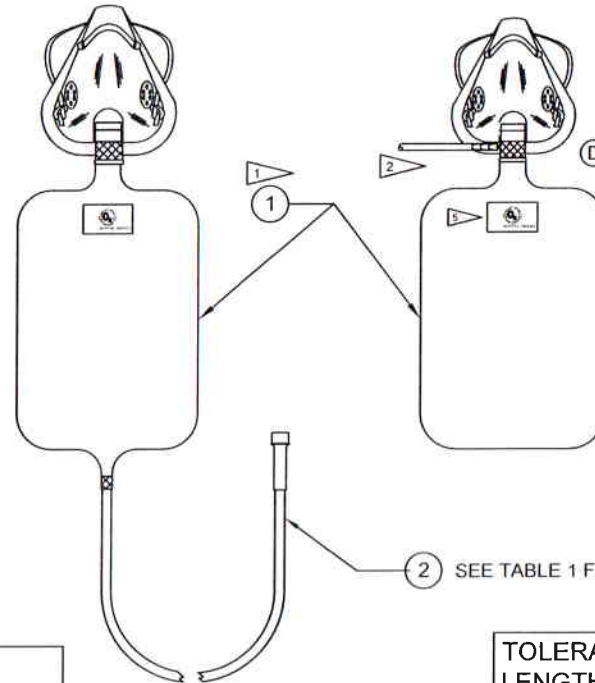


TABLE 1 - TUBING LENGTH


LENGTH OF TUBING IN INCHES	PART NUMBER	DESCRIPTION
84 INCHES	301-030-6 WITH ATTACHED TUBING	7' OF TUBING (STD)
UP TO 168 INCHES	O2C55T03-2	CANNULA WITH 14 FEET OF TUBING
169 TO 300 INCHES	O2C18D06-25	SLIP-ON TUBING WITH 50 FEET OF TUBING
301 TO 600 INCHES	O2C18D06-50	SLIP-ON TUBING WITH 50 FEET OF TUBING

SAMPLE CALLOUT: O2C52A11-144 = TOTAL LENGTH OF 144" (12') SHOWN
 BASE P/N _____ LENGTH - SEE TABLE 1 FOR TUBING USED

PROPRIETARY NOTICE

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REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
D	UPDATED: FORMAT CHANGED: ADDED: ALT. ASSEMBLY CONFIGURATION	12-10-24	

TOLERANCE:
LENGTHS (XXXX): $\pm 6.0"$

AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	1	O2C54A01-1 OR 301-030-06 (D)	CLEAR MASK AND BAG ASSEMBLY
2	AR	SEE TABLE 1	TUBING
NS	AR	471-1/2" GREEN TAPE	GREEN TAPE

DRAWN BY: O2 CORP DATE: 08 OCT 1998

APPROVED: JLO DATE: 08 OCT 1998

TOLERANCE DECIMAL
 X $\pm .10$
 XX $\pm .01$
 XXX $\pm .005$
 NOTED ANGULAR $\pm 1/2$



NAME
CLEAR MASK ASSEMBLY WITH
SLIP ON TUBING

DWG NO: O2C52A11

PAPER SIZE ANSI C SHEET 1 OF 1 REV D

O2C52T04-1

This Mask Assembly comes with a Clear "Triangular" style mask, an instruction card, and 58 inches of clear tubing. It is equipped with a coupling, part number O2C50A03-1, which is equivalent to the following couplings:

Equivalent Couplings	
Manufacturer	Part Number
B/E Aerospace	210019
	211765
AVOX	14807

This Mask Assembly will mate with the following oxygen outlets:

Compatible Outlets	
Manufacturer	Part Number
B/E Aerospace	170087
	110027
AVOX	5507



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235 N. WASHINGTON
WICHITA, KS 67202
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www.o2corporation.com

O2C52T04-2

This Mask Assembly comes with a Clear "Triangular" style mask, an instruction card, and 58 inches of clear tubing. It is equipped with the coupling, part number O2C50A08-00, which is equivalent to the following couplings:

Equivalent Couplings	
Manufacturer	Part Number
B/E Aerospace	118041
	173017
	173701
	173703
AVOX	802039
	802627

This Mask Assembly will mate with the following outlets:

Compatible Outlets	
Manufacturer	Part Number
B/E Aerospace	170087
	110027
AVOX	5507



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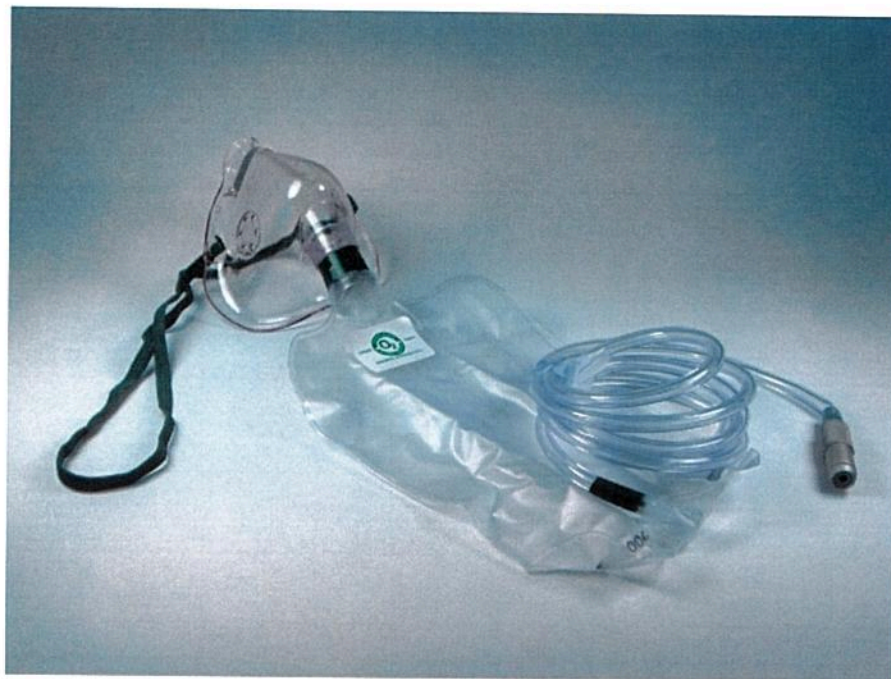
O2C52T04-4

This Mask Assembly comes with a Clear "Triangular" style mask, an instruction card, and 58 inches of clear tubing. It is equipped with a coupling, part number O2C50D02-1, which is equivalent to the following couplings:

Equivalent Couplings	
Manufacturer	Part Number
B/E Aerospace	119030
	500186
AVOX	29559

This Mask Assembly will mate with the following outlets:

Compatible Outlets	
Manufacturer	Part Number
B/E Aerospace	170088
	110106-XX
AVOX	5041



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O2C52T08-X

This Mask Assembly comes with the Yellow "Dixie Cup" style mask, a flow indicator, and a vinyl stowage pouch. The total length of the assembly is designated by the "-X" portion of the part number, and is available as indicated:

Dash Number	Length (feet)
-1	20
-2	10
-3	6
-4	12
-5	18

This assembly is equipped with a coupling, part number O2C50A07-1-75, which flows at a rate of 7.5 liters per minute (lpm) at 70 psig. This coupling will mate with an O2 Corporation oxygen outlet, as well as the following outlets:

Compatible Outlets	
Manufacturer	Part Number
B/E Aerospace	170089
AVOX	802959-01



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O2C52T10-02ZYYXX

This Mask Assembly comes with a Clear "Triangular" style mask and a flow indicator. The length of the tubing is designated by the "Z" portion of the part number, and is represented with either an "A" for 58 inches of tubing, or a "B" for 72 inches of tubing. The "YY" portion of the part number represents the flow rate of the coupling, part number O2C50A07-1-XX, in lpm. The "XX" portion of the part number indicates the pressure at which the specified flow rate will be obtained. For a coupling without flow restriction, which should be used with a restricted outlet, use "0000" in place of the "YYXX" portion of the part number.

This Mask Assembly offers a vinyl stowage pouch as an option. If a pouch is to be included, it is indicated by adding a "P" at the very end of the part number.

An example part number for ordering is shown below. For this example, the length of the tubing is 58 inches, the coupling flow rate is 7.5 lpm @ 70 psig, and a pouch is included.

O2C52T10 - 02 A 7570 P

BASIC PART NUMBER

ADD "P" FOR POUCH
IF REQUIRED

TUBING LENGTH

FLOW & PRESSURE

This Mask Assembly will mate with an O2 Corporation oxygen outlet, as well as the following outlets:

Compatible Outlets	
Manufacturer	Part Number
B/E Aerospace	170089
AVOX	802959-01



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NOTES:

- 1 O2C50A07-1-XXXX IS A METERED FITTING*
EXAMPLE FLOW IS:
O2C50A07-1-7570
7.5 ± .25 - .00 LPM @ 70 PSIG
* IS FREE FLOWING WHEN 0000 IS IN CALLOUT
2. FLOW INDICATOR IS LOCATED APPROXIMATELY 12 INCHES FROM BAG
- 3 MINIMUM LENGTH OF ASSEMBLY IS 24" (2' 0")
- 4 USE O2C52A12-1 FOR TUBE LENGTHS UP TO 276" (23')
USE O2C52A12-2 FOR TUBE LENGTHS OVER 276" (23')
- 5 PART LENGTHS OF -X ARE FROM TABLE 1
PART LENGTHS OF -L ARE IN WHOLE INCHES (F)
- 6 301-030-06 IS AN ALTERNATIVE MASK CONFIGURATION W/TUBING ATTACHED ON SIDE OF MASK

ORIGINAL

TABLE 1 - TUBING & LENGTH		
DASH LETTER	LENGTH OF TUBING IN INCHES	TOTAL LENGTH IN FEET
A	58 INCHES	4 FEET 6 INCHES
B	72 INCHES	6 FEET
C	216 INCHES	18 FEET
D	84 INCHES	7 FEET
E	180 INCHES	15 FEET
F	120 INCHES	10 FEET
G	300 INCHES	25 FEET
3 -L	AR	AR

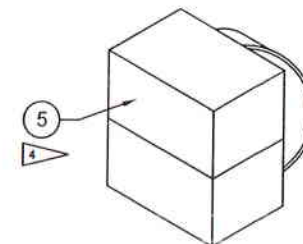
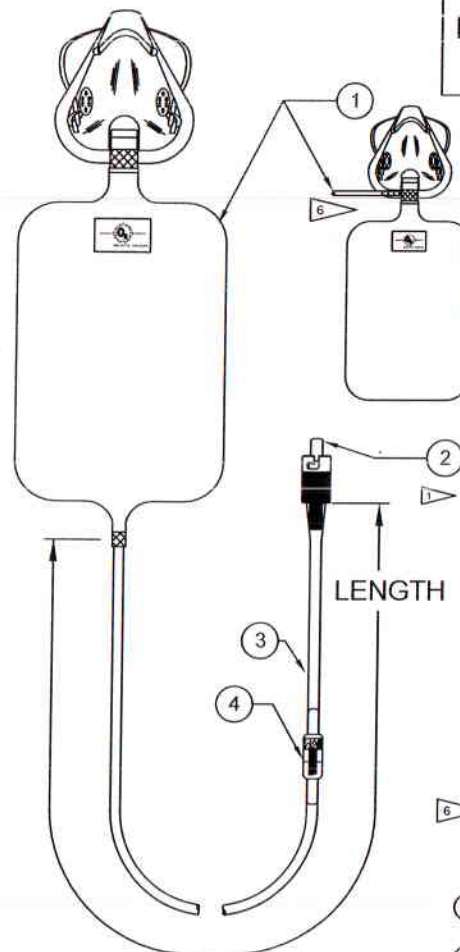
- (F) SAMPLE CALLOUT: O2C52T10-02F7570P = TOTAL LENGTH OF 120" (10') SHOWN
 BASE P/N ——— LENGTH FROM TABLE 1
- FLOW RATE IN 0.1 LPM AND IN PSIG (SEE NOTE 1)
 ——— ADD "P" FOR POUCH AS REQUIRED (AR)
- (F) IF -L IS USED: O2C52T10-02-288-7570P = TOTAL LENGTH OF 288" (24') SHOWN
 BASE P/N ——— LENGTH IN WHOLE INCHES
- FLOW RATE IN 0.1 LPM AND IN PSIG (SEE NOTE 1)
 ——— ADD "P" FOR POUCH AS REQUIRED (AR)

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REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
F	UPDATED: FORMAT POUCH NOTES CALL OUT NOTE CHANGED: ADDED: ALT TUBING OPTIONS, FLOW INDICATOR, -L FOR ALL FUTURE LENGTHS, AND G LENGTH OF 300"	11-11-24	[Signature]



TOLERANCE:
LENGTHS (XXXX):
± 1.0" < 36" (LESS THAN)
± 2.0" ≥ 36" (EQUAL OR GREATER THAN)

AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS			
REF	QTY	PART NUMBER	DESCRIPTION
0	1	O2C52A01-1 OR 301-030-06	CLEAR MASK AND BAG ASSEMBLY
2	1	O2C50A07-1-XXXX	BAYONET STYLE FITTING W/FLOW RESTRICTION
(F) 3	AR	O2C18D01-3 OR O2C18D04	TUBING
(F) 4	1	O2C66D03-1 OR O2C66D03-2	FLOW INDICATOR
NS	AR	VINYL LABEL	PART NUMBER LABEL
5	AR	O2C52A12-1 OR O2C52A12-2	GREEN POUCH AND STRAP (SEE NOTE 4)
NS	AR	471-1/2" GREEN TAPE	GREEN TAPE

DRAWN BY: O2 CORP DATE: 05 FEB 2000

APPROVED: JLO DATE: 05 FEB 2000

TOLERANCE
EXCEPT AS NOTED
DECIMAL XX ± .01
XXX ± .005
ANGULAR ± 1/2°



NAME
CLEAR MASK ASSEMBLY WITH
O2C50A07-1 FLOW RESTRICTED FITTING
W/POUCH OPTION

DWG NO: O2C52T10-02ZYYXX

PAPER SIZE ANSI C SHEET 1 OF 1 REV F

O2C52T10-04

This Mask Assembly also comes with a Clear "Triangular" style mask, an instruction card, and 58 inches of clear tubing. It is equipped with the coupling, part number O2C50D04-1, which is equivalent to the following couplings:

Equivalent Couplings	
Manufacturer	Part Number
B/E Aerospace	118040, 173720
	173723
AVOX	5065-10
Military Drawing	MS21964-20

This Mask Assembly will mate with the following outlets:

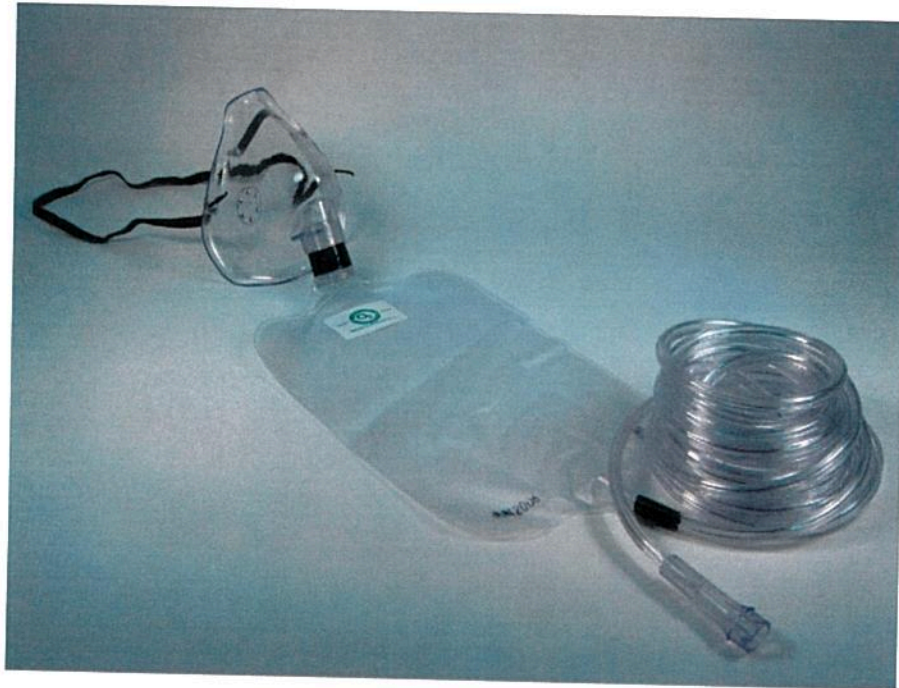
Compatible Outlets	
Manufacturer	Part Number
B/E Aerospace	110022, 110112
	110118, 170086
	170120, Z406
	Z651, Z652
AVOX	5009



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O2C52T10-11-XXX

This Mask Assembly comes with a Clear "Triangular" style mask. The length of the tubing is designated by the "-XXX" portion of the part number, and provides a slip-on connection. This assembly provides tubing lengths up to 600 inches.

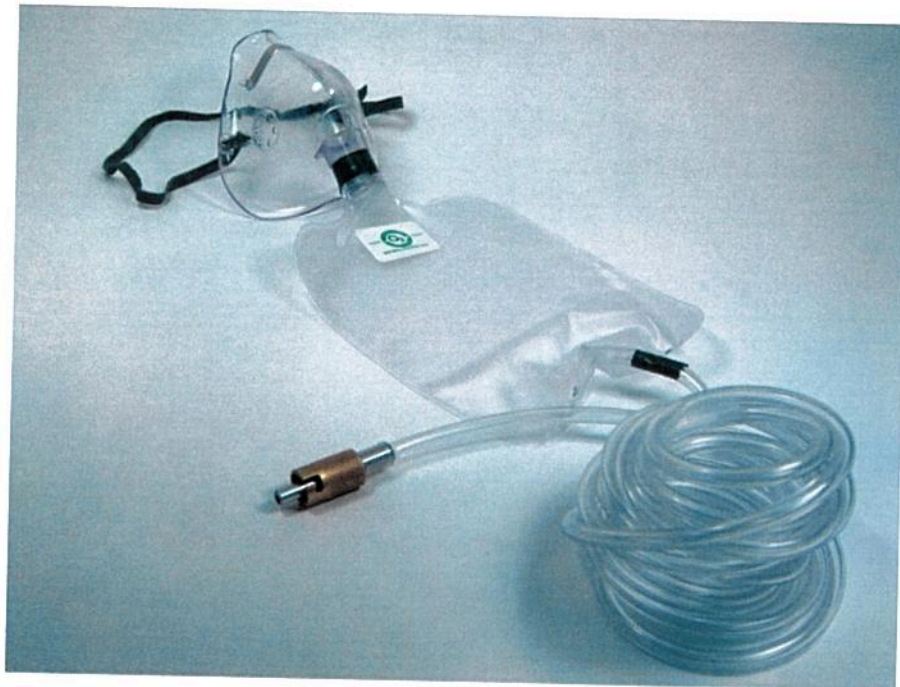


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O2C52T10-12-XXX

This Mask Assembly comes with a Clear "Triangular" style mask. The length of the tubing is designated by the "-XXX" portion of the part number. This assembly is equipped with a coupling, part number O2C50A07-1-75, which flows at a rate of 7.5 liters per minute (lpm) at 70 psig. This coupling will mate with an O2 Corporation oxygen outlet, as well as the following outlets:

Compatible Outlets	
Manufacturer	Part Number
B/E Aerospace	170089
AVOX	802959-01



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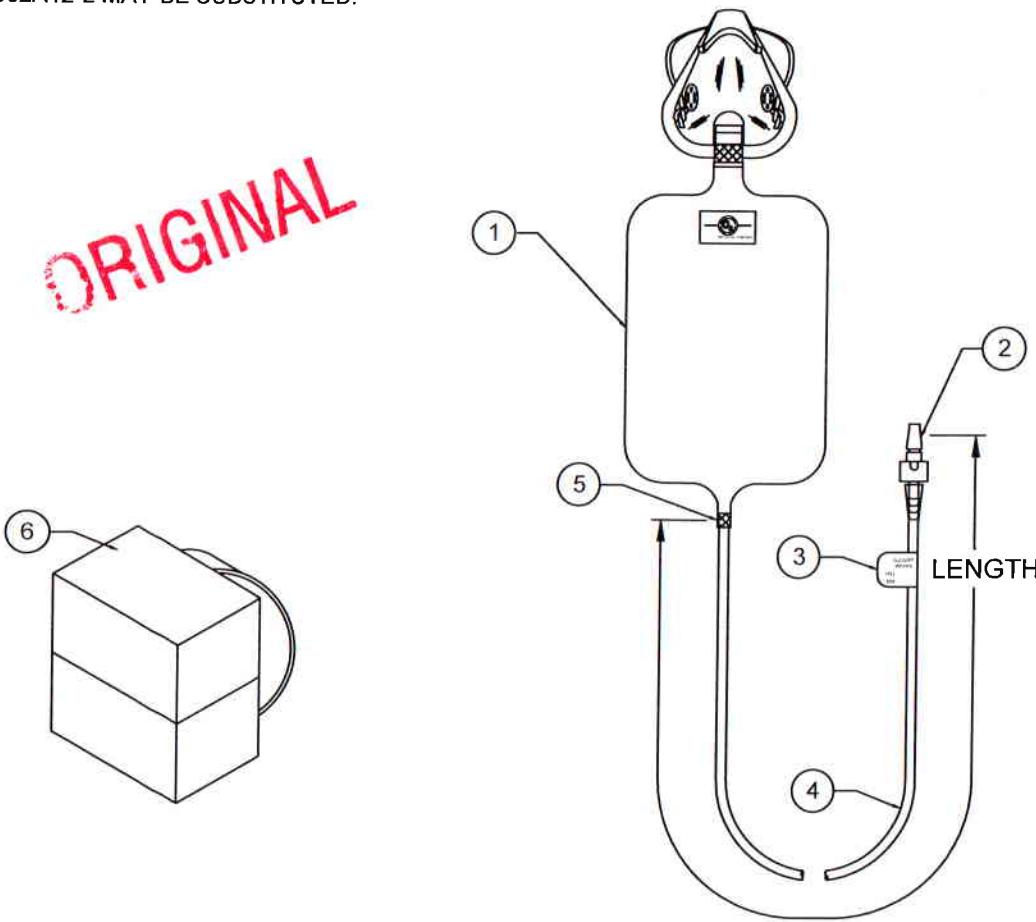
NOTES:

1. FOR MASK ASSEMBLIES OVER 120" LONG
P/N: O2C52A12-2 MAY BE SUBSTITUTED.

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED

ORIGINAL



MATES WITH BRITISH
STANDARD BS5682 OUTLETS

TOLERANCE:
LENGTHS (XXXX):
± 0.5" < 36" (LESS THAN)
± 2.0" ≥ 36" (EQUAL OR GREATER THAN)

AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	1	O2CA54A01-1	MASK ASSEMBLY / BAG, MASK, & GROMMET
2	1	O2C50A11-XXYY	FLOW RESTRICTED FITTING BRITISH STANDARD BS5682 (SET AS REQUIRED)
3	1	O2C98D07-1	SERIAL NUMBER LABEL
4	1	O2C18D01-3	TUBING
5	3"	471-1/2"	GREEN TAPE
6	AR	O2C52A12-1	GREEN POUCH AND STRAP (SEE NOTE 1)

SAMPLE CALLOUT: O2C52T17-7570-84P = 7.5 LPM @ 70 PSIG CUT TO 84"
BASE P/N FLOW IN .1 LPM PRESSURE IN PSIG ADD "P" FOR POUCH AS REQUIRED (AR) LENGTH IN WHOLE INCHES

PROPRIETARY NOTICE

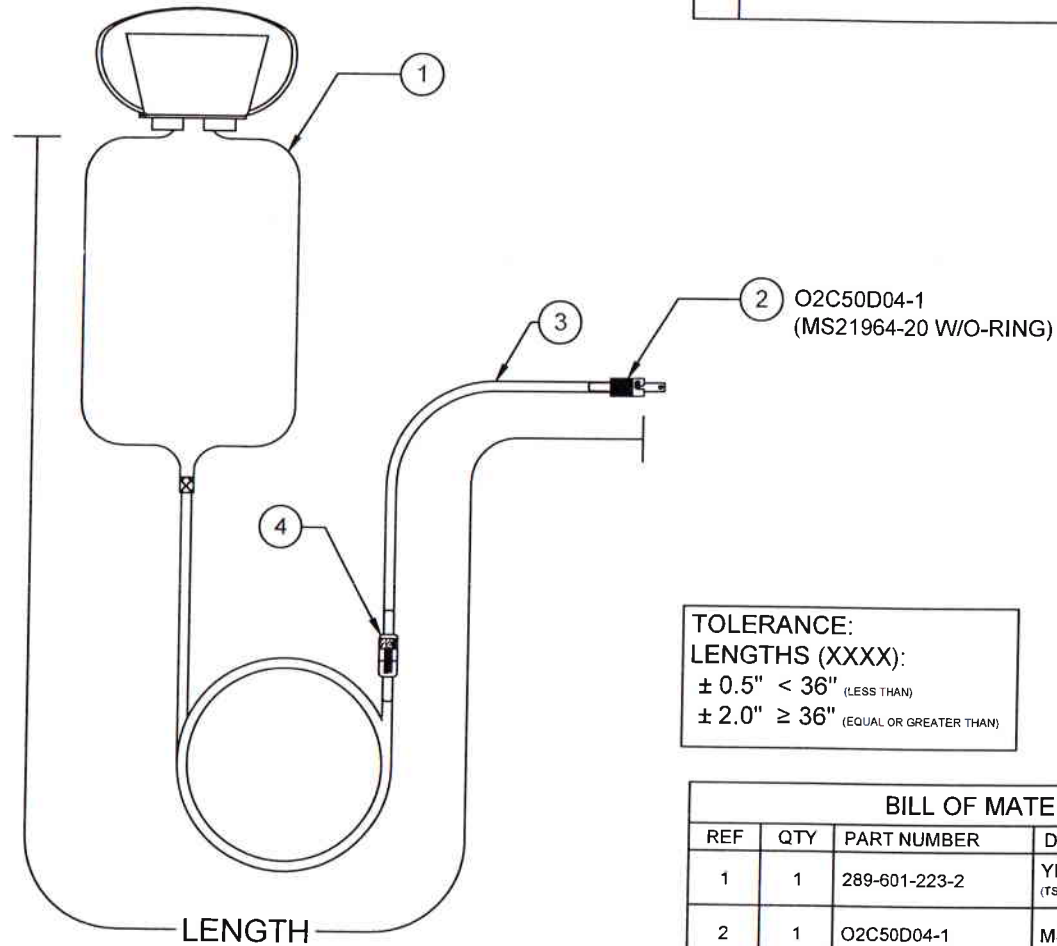
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WHEN SUCH USER POSSESSES DIRECT, WRITTEN
AUTHORIZATION FROM O2 CORPORATION.

DRAWN BY: ZPM	DATE: 01 DEC 2023	 O2 CORPORATION AIRCRAFT CARBIDE EQUIPMENT SPECIALISTS	NAME: CLEAR MASK ASSEMBLY WITH BRITISH STANDARD MEDICAL FITTING BS 5682 FOR OXYGEN SERVICE
APPROVED: 	DATE: 12-1-23		DWG NO: O2C52T17
TOLERANCE EXCEPT AS NOTED	DECIMAL XX ± .01 XXX ± .005 ANGULAR ± 1/2°		PAPER SIZE ANSI C
SHEET 1 OF 1			REV NC

NOTES:

1. 289-601-223-2 LENGTH IS 52"

ORIGINAL



TOLERANCE:
LENGTHS (XXXX):
± 0.5" < 36" (LESS THAN)
± 2.0" ≥ 36" (EQUAL OR GREATER THAN)

AR-AS REQUIRED
NS-NOT SHOWN

SAMPLE CALLOUT: O2C52T18-84 = TOTAL LENGTH OF 84" SHOWN
BASE P/N LENGTH IN WHOLE INCHES

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	1	289-601-223-2	YELLOW MASK ASSEMBLY (TSO-64A)
2	1	O2C50D04-1	MS21964-20 W/O-RING
3	AR	O2C18D04	TUBING
4	1	O2C66D03-1 OR O2C66D03-2	FLOW INDICATOR
NS	AR	O2C98D07-1	PART NUMBER LABEL

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AUTHORIZATION FROM O2 CORPORATION.

DRAWN BY: ZPM DATE: 16 JAN 2024
APPROVED: *[Signature]* DATE: 1-16-24
TOLERANCE DECIMAL XX ± 01
EXCEPT AS XXX ± 005
NOTED ANGULAR ± 1/2°



NAME
YELLOW MASK WITH
MS21964-20 FITTING

DWG NO: O2C52T18

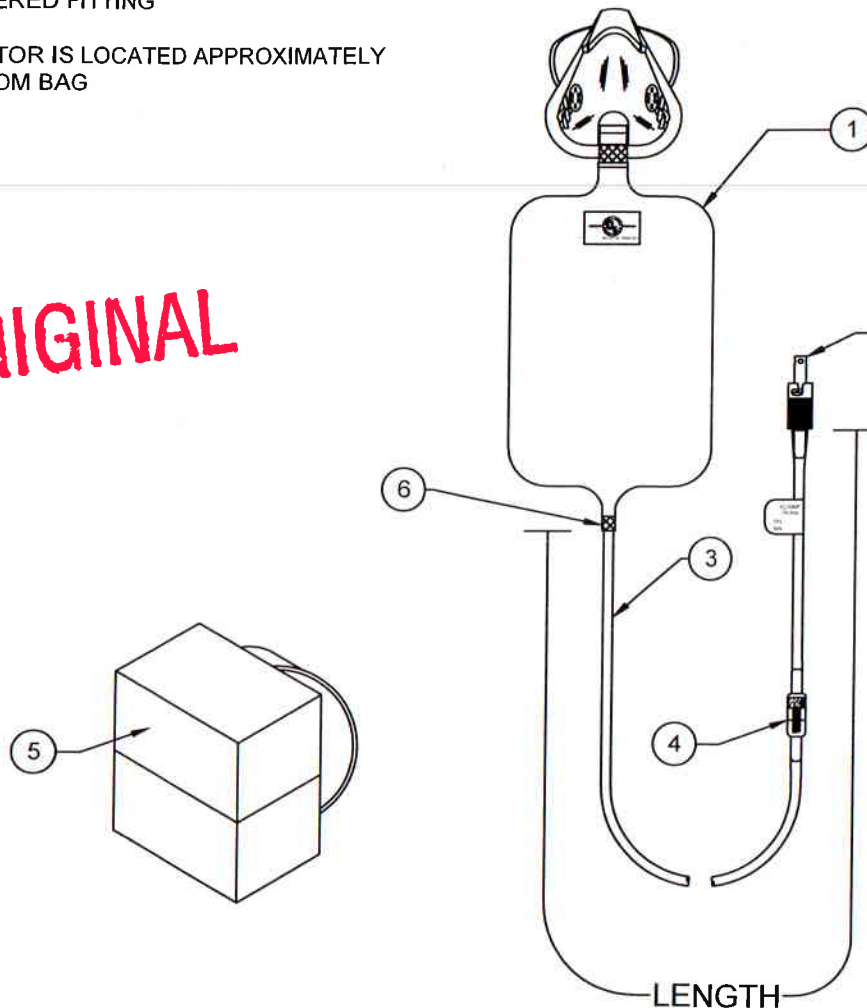
PAPER SIZE ANSI C SHEET 1 OF 1 REV NC

NOTES:

1. O2C50D04-1 (MS21964-20 W/O-RING)
IS AN UNMETERED FITTING

2. FLOW INDICATOR IS LOCATED APPROXIMATELY
12 INCHES FROM BAG

ORIGINAL



SAMPLE CALLOUT: O2C52T19-84P = TOTAL LENGTH OF 84" SHOWN
BASE P/N LENGTH IN WHOLE INCHES

ADD "P" FOR POUCH AS REQUIRED (AR)

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REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	ADDED: ISO DRAWING OF POUCH, CALLOUT NOTE FOR POUCH, & BOM ITEMS (5 & 6)	2-13-24	

O2C50D04-1
(MS21964-20 W/O-RING)
SEE O2C50 DRAWING FOR
MATING OUTLETS

TOLERANCE:

LENGTHS (XXXX):

± 0.5" < 36" (LESS THAN)

± 2.0" ≥ 36" (EQUAL OR GREATER THAN)

AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	1	O2C54A01-1	MASK ASSEMBLY / BAG, MASK, & GROMMET
2	1	O2C50D04-1	MS21964-20 W/O-RING
3	AR	O2C18D01-3	TUBING
4	1	O2C66D03-1 OR O2C66D03-2	FLOW INDICATOR
NS	AR	VINYL LABEL	PART NUMBER LABEL
5	AR	O2C52A12-1	GREEN POUCH AND STRAP (SEE NOTE 1)
6	3"	471-1/2"	GREEN TAPE

DRAWN BY: ZPM

DATE: 05 FEB 2024

APPROVED: JLO

DATE: 05 FEB 2024

TOLERANCE

DECIMAL XX ± .01

EXCEPT AS

XXX ± .005

NOTED

ANGULAR ± 1/2 "



NAME

CLEAR MASK ASSEMBLY WITH
MS21964-20 FITTING

DWG NO: O2C52T19

PAPER SIZE ANSI C

SHEET 1 OF 1

REV

A

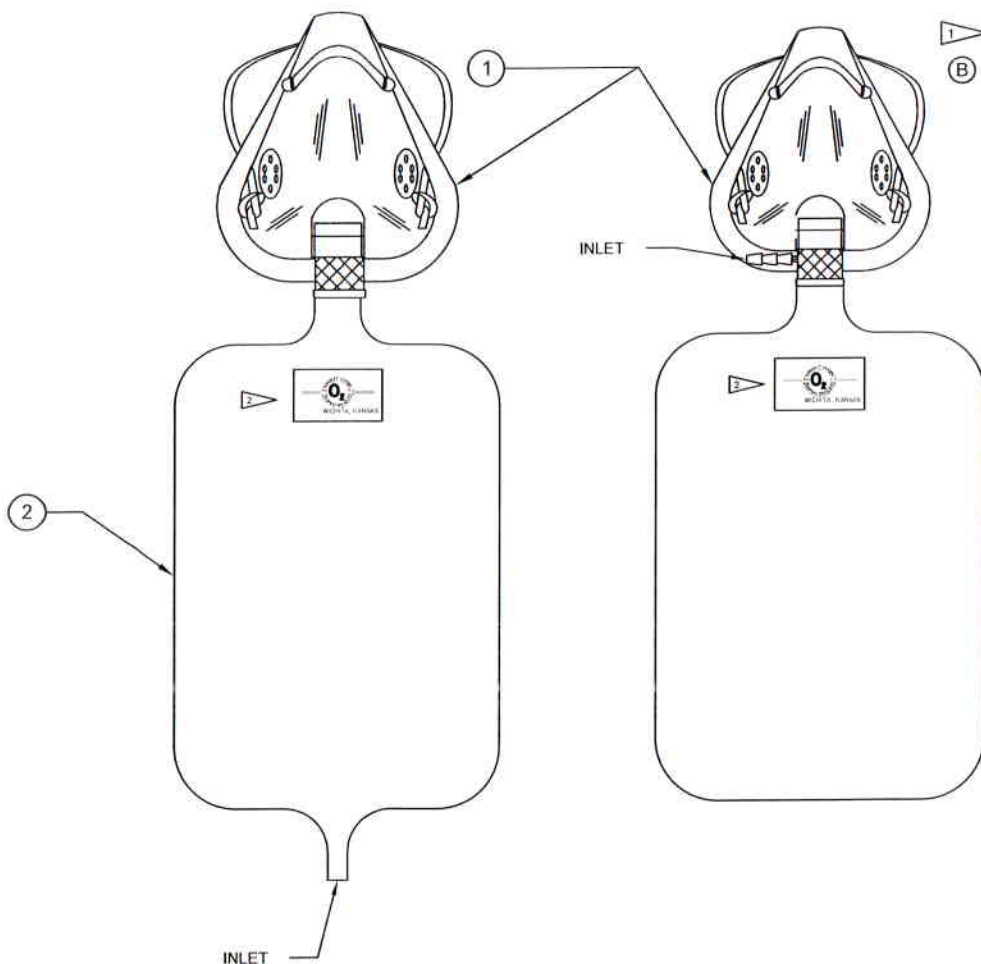
NOTES:

- 1 301-030-06 IS AN ALTERNATIVE MASK CONFIGURATION (B) W/TUBING ATTACHED ON SIDE OF MASK
- 2 VINYL STICKER 301-030-4 ADDED DURING FINAL ASSEMBLY

ORIGINAL

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
B	UPDATED: FORMAT CHANGED: ADDED: ALT ASSEMBLY CONFIGURATION	10-11-24	[Signature]



AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	1	O2C54A01-2 OR 301-030-06 (B) (BAG ATTACHED & NO TUBING)	CLEAR MASK AND BAG ASSEMBLY
2	1	301-030-3	VINYL BAG-CLEAR
NS	AR	471-1/2" GREEN TAPE	GREEN TAPE

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DRAWN BY: O2 CORP DATE: 17 NOV 1992

APPROVED: KSH DATE: 17 NOV 1992

TOLERANCE DECIMAL
X ± .10
XX ± .01
XXX ± .005
NOTED ANGULAR ± 1/2



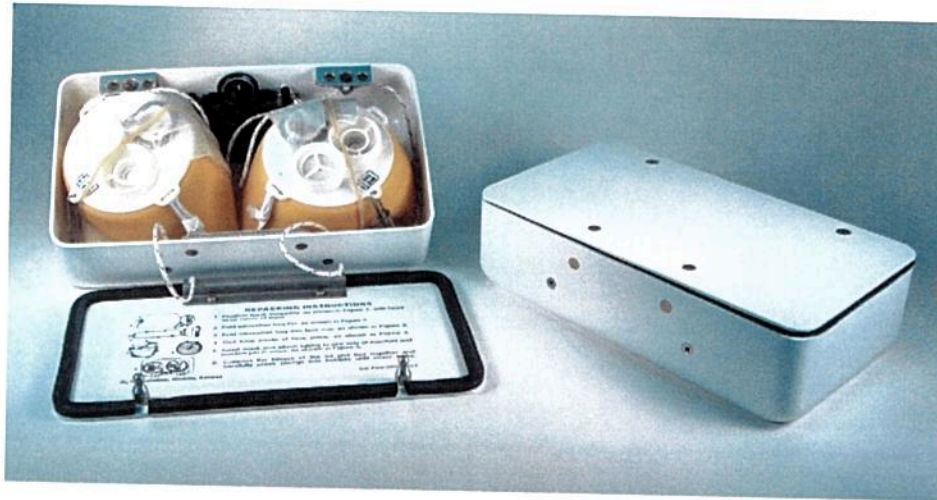
NAME
CLEAR MASK & BAG ASSEMBLY

DWG NO: O2C54A01-1

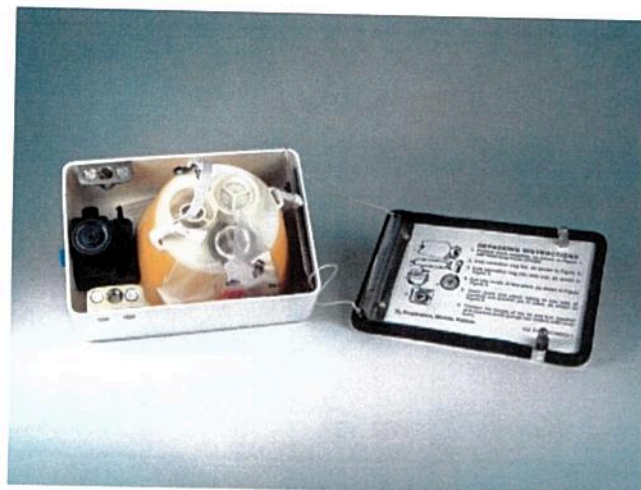
PAPER SIZE ANSI C SHEET 1 OF 1 REV B



MASK PRESENTATION UNITS



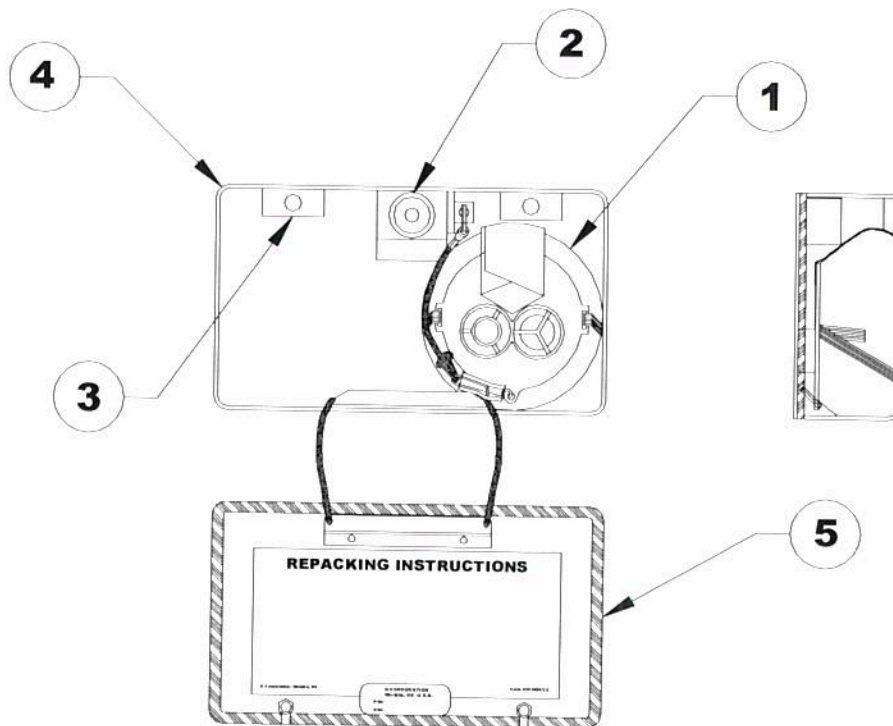
The O₂ Corporation Passenger Mask Presentation Units are designed to provide supplemental oxygen to passengers in the event of a loss of cabin pressurization. Oxygen is delivered by means of a Yellow "Dixie Cup" style mask, and regulated by a manifold. O₂ Corporation's manifolds are designed to deliver the required oxygen flow rate for various altitudes, and may be adjusted to meet specific customer requirements. The Mask Presentation Unit includes a 1/8" NPT inlet for connection to an oxygen source. A list of the current part numbers is referenced in the table on the following page.



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Part Number	Number of Masks	Overall Dimensions	Hinge Location	Remarks
150-001-XX	1	7.00"L x 4.00"W x 2.00" H	Side	
150-002-XX	2	7.00"L x 4.00"W x 2.00" H	Side	
150-004-XX	2	7.00"L x 4.00"W x 2.00" H	End	
150-009-XX	1	7.00"L x 4.00"W x 2.00" H	End	Slotted Box
150-010-XX	2	7.00"L x 4.00"W x 2.00" H	End	Slotted Box
152-004-XX	1	5.00"L x 3.50"W x 2.00" H	End	

The flow rate is designated by the "-XX" portion of the part number, and is defined by the O₂ Corporation Flow-Dot drawing. For current flow rates please contact O₂ Corporation.



Item	Description
1	Mask
2	Manifold
3	Latch
4	Box
5	Lid

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WICHITA, KS 67202
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Testing requirements and maintenance should be provided by each operator in a form relevant to their operation, such as an Aircraft Maintenance Manual. Testing of the MPU, after installation has been completed, is recommended to be done once a year at a minimum. The oxygen system should be pressurized so that each MPU is activated, and then each MPU should be inspected for:

- The MPU deploys correctly and the passenger masks have dropped.
- The repacking label on the inside of the lid is attached and legible.
- The tubing on the mask assembly is connected to the mask outlet on the manifold.
- The lanyard on the mask assembly is connected to both the pull pin assembly and the mounting terminal on the mask assembly.
- The pull pin assembly is correctly installed in the manifold.

The next step is to visually inspect the mask assemblies. Each mask assembly should be inspected for the following:

- Deformation
- Kinks
- Tears
- Damaged Lanyards
- Sticking Valves
- Discoloration
- Head harness condition
- Solid or liquid contamination in or on the:
 - Facepiece
 - Vinyl Reservoir Bag
 - Tubing

This visual inspection is recommended to be done once a year, at a minimum, for the first three (3) years of service. After the third year, all service is on condition. A more frequent visual inspection is recommended using the same inspection criteria. If any of these discrepancies are found, contact O₂ Corporation for further instructions.

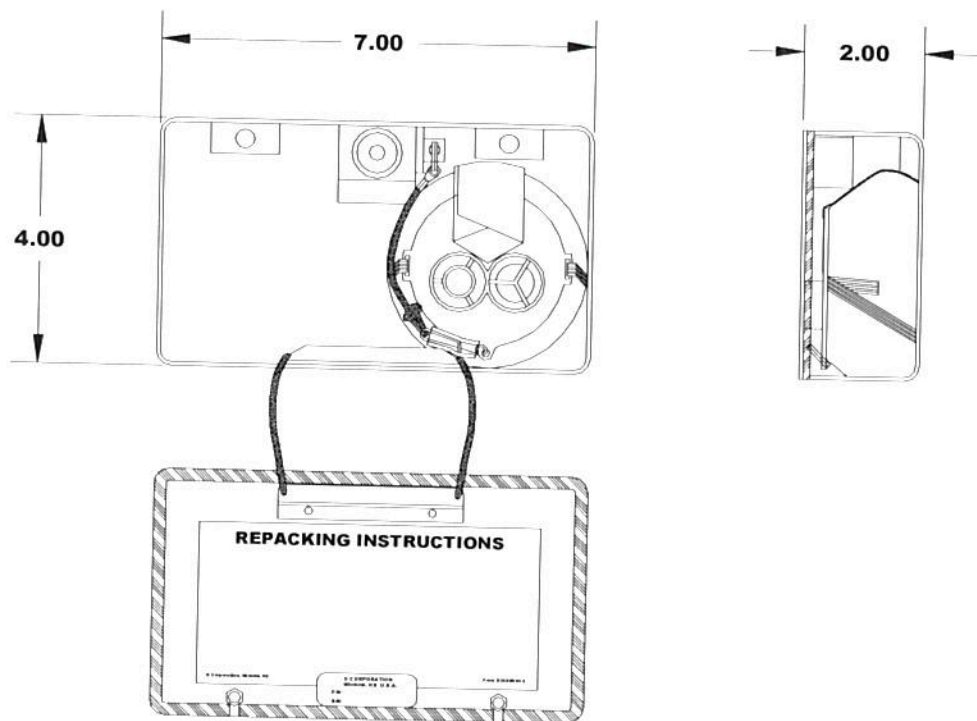
Once the inspection of the internal components is complete, the mask assemblies must be repacked and the lid secured back in place. Each MPU has a repacking instruction label attached to the inside surface of the lid, and should be used as a guide for completing this task. Care must be taken to ensure that there is no tubing or lanyard cord caught between the lid and the box when closing.

O₂ Corporation recommends overhauling the MPU every three (3) years. This will allow customers assurance that their units are functioning as intended and that any components with a shelf life will be replaced. O₂ Corporation is authorized, under Air Agency Certificate # OTWR615K, to overhaul mask presentation units manufactured by O₂ Corporation. Customers that need to have their MPU units overhauled should contact O₂ Corporation with the part number and quantity information before shipping them. This will allow us to verify that all of the needed components will be on hand, or acquire the components needed, and will allow us to provide a faster turnaround time.

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150-001-XX

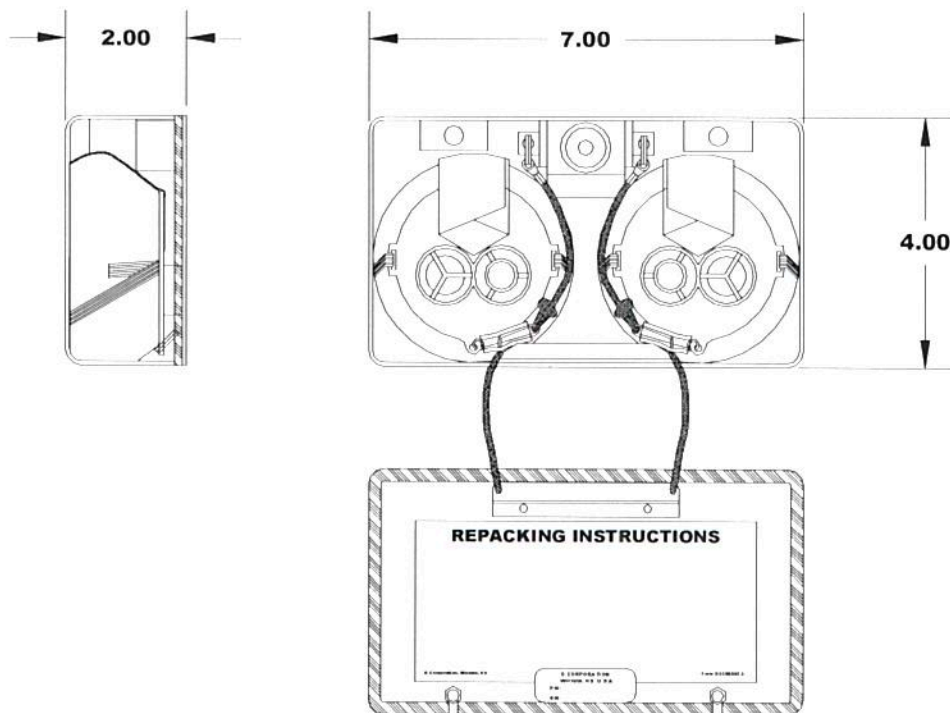
This Mask Presentation Unit includes one mask and is hinged along the length of the box. The weight of this unit is approximately 16 ounces.



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150-002-XX

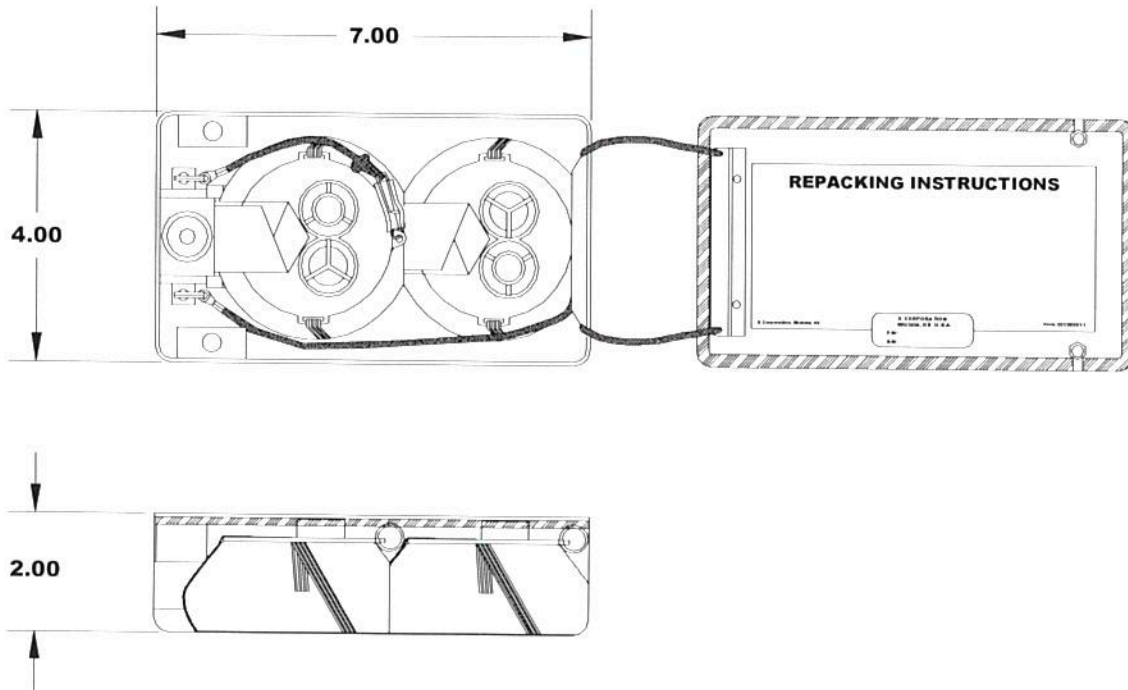
This Mask Presentation Unit includes two masks and is hinged along the length of the box. The weight of this unit is approximately 19 ounces.



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150-004-XX

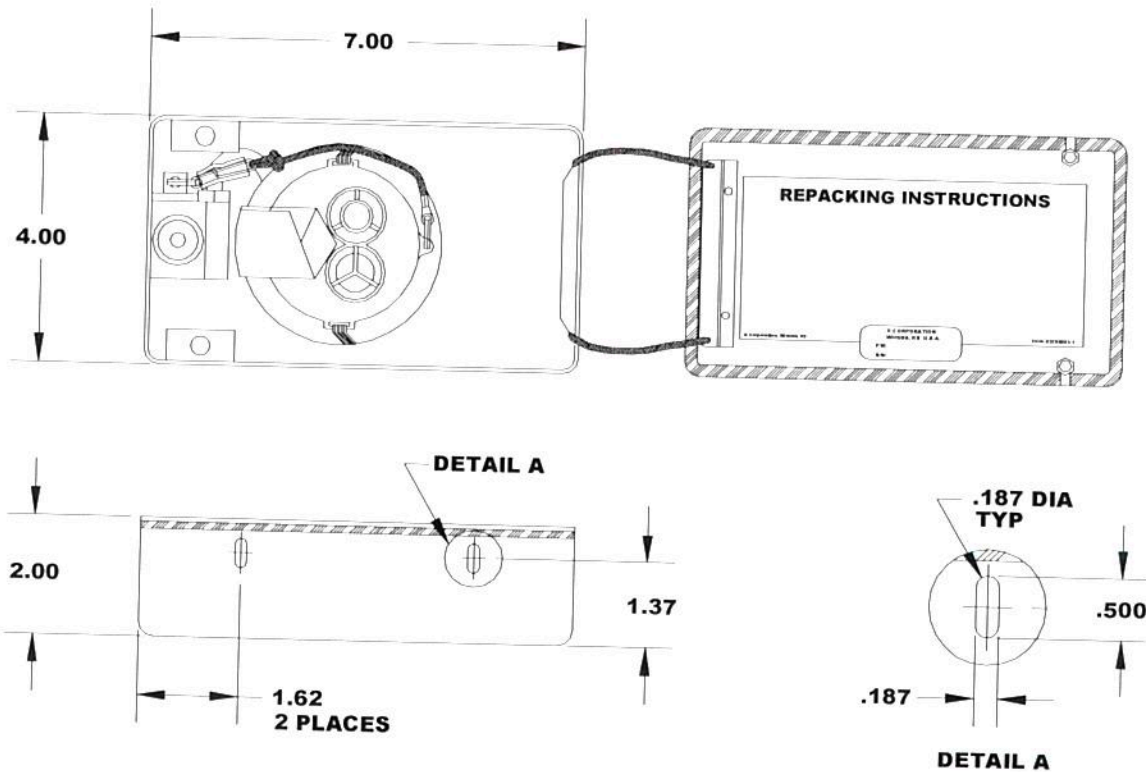
This Mask Presentation Unit includes two masks and is hinged along the width of the box. The weight of this unit is approximately 19 ounces.



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150-009-XX

This Mask Presentation Unit includes one mask and is hinged along the width of the box. This unit includes slots for locating the unit during installation. The weight of this unit is approximately 16 ounces.



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NOTES:

- 1 UNITS MFG BEFORE 21 APR 2010 MAY BE MODIFIED, REPAIRED, OR OVERHAULED USING P/N: 289-601-223-2
- 2 WEIGHT APPROX 18 OZ.

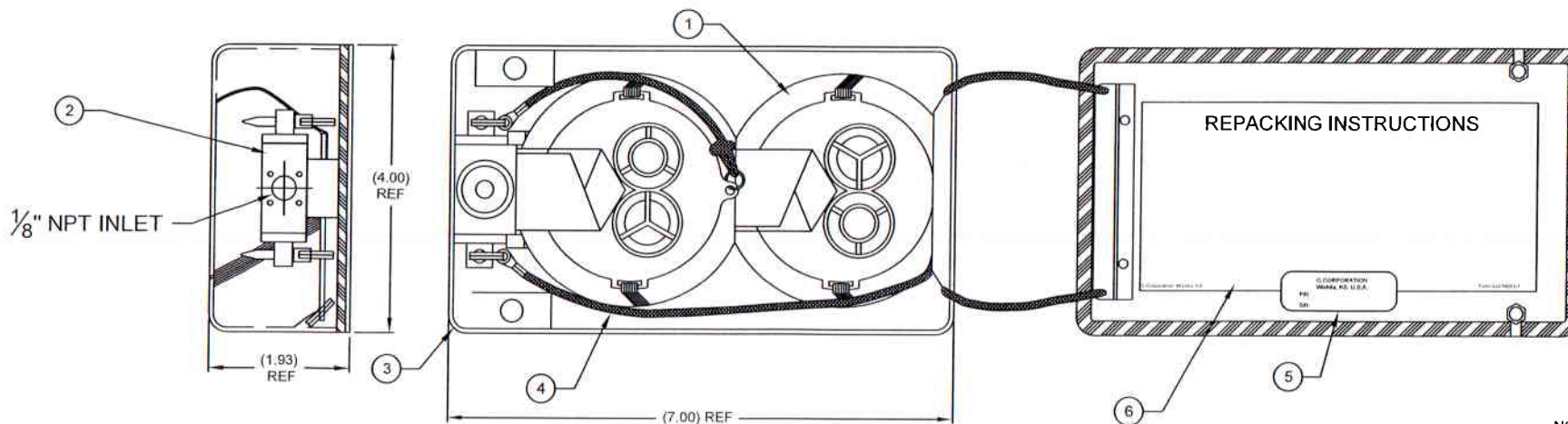
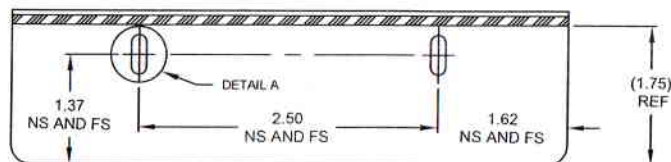
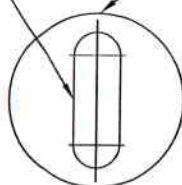
ORIGINAL

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
E	<p>UPDATED: FORMAT TO NEW LAYOUT</p> <p>REMOVED: - NOTE ABOUT UNITS MADE AFTER AS NOTE 1 COVERS - ASSEMBLED PER PRO 02C1016PRO - 1/8" NPT INLET, NOW CALLED OUT BY ARROW</p> <p>FIXED: - PART NUMBER CALLOUT WAS: 150-009-01 - WRONG BASE P/N IS: 150-010-39</p> <p>ADDED: - DETAIL A & RELATED TEXT - ADDITIONAL PROFILE VIEW (SIDE ON MANIFOLD END) - 100-009-XX MANIFOLD TO BOM AS OPTIONAL CONFIGURATION</p> <p>CHANGED: -BOM: 100-134 TO NS</p>	12-11-24	560

2X R
REF (.18 X .50)
2 PL
NS AND FS

DETAIL A



REPACKING INSTRUCTIONS

NS-NOT SHOWN

SAMPLE CALLOUT: 150-010-39

BASE P/N

DASH NUMBER PER
FLOW-DOT DRAWING TO
DESIGNATE FLOW RATE

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	2	289-601-223-2	MASK
2	1	100-002-XX OR 100-009-XX	DUAL MANIFOLD (PACKING) DUAL MANIFOLD (FIX FLOW)
3	1	150-010BA	BOX & LID ASSEMBLY
4	2	100-119-2-18	LANYARD ASSEMBLY
5	1	VINYL LABEL	S/N LABEL
6	1	02C98D03-3	INSTRUCTION LABEL
NS	4	100-134	SCREW

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DRAWN BY: O2 CORP DATE: 17 MAR 1998

APPROVED: JLO DATE: 17 MAR 1998

TOLERANCE DECIMAL
X ±.10
XX ±.01
XXX ±.005
NOTED ANGULAR ± 1/2



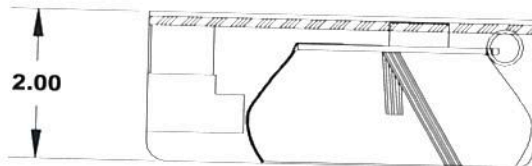
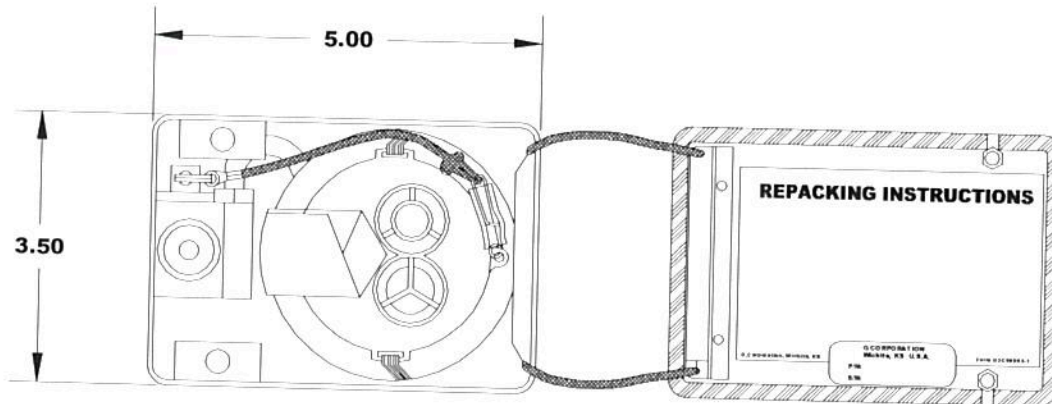
NAME:
DOUBLE MPU WITH
END OPENING
MOUNTING SLOTS

DWG NO: 150-010-XX

PAPER SIZE ANSIC SHEET 1 OF 1 REV

152-004-XX

This Mask Presentation Unit includes one mask and is hinged along the width of the box. The weight of this unit is approximately 12 ounces.



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NEBULIZER KITS

The O₂ Corporation Nebulizer Kit is a device that is used to provide humidified oxygen. The advantage of humidified oxygen is to prevent the drying of the nose and sinus membranes, providing a higher quality of comfort for the user. Our Nebulizer Kits will mate with an oxygen source, such as a charged oxygen bottle or oxygen outlet, which may be fixed or portable. For listings of oxygen outlet compatibility, see the details for each specific series below.

Each Nebulizer Kit is equipped with a 12-position Regulator, which provides the user with the option to use 11 different flow rate settings plus one position to turn the flow off. Each kit also includes a Mask, Flexible Low-Pressure Hose, Humidifier, and either a permanent or slip-on hose connection for the Mask/Humidifier. A cannula is also available with the O2C33K08 Series Nebulizer Kit. We offer two types of Masks, either a Clear "Triangular" style mask or a Yellow "Dixie Cup" style mask. The Flexible Low-Pressure Hose connects the Nebulizer Kit to the oxygen outlet by means of a coupling, and varies by length as required for each customer's needs.

Example part number for ordering:

O2C33K01 - 180

BASIC PART NUMBER

HOSE LENGTH IN INCHES

An O2 Corporation Nebulizer Kit comes with a three-year warranty. At the conclusion of this three-year period the Mask Assembly should be replaced. O2 Corporation also offers an overhaul consisting of component replacement, functional testing, and recertification for another three years.

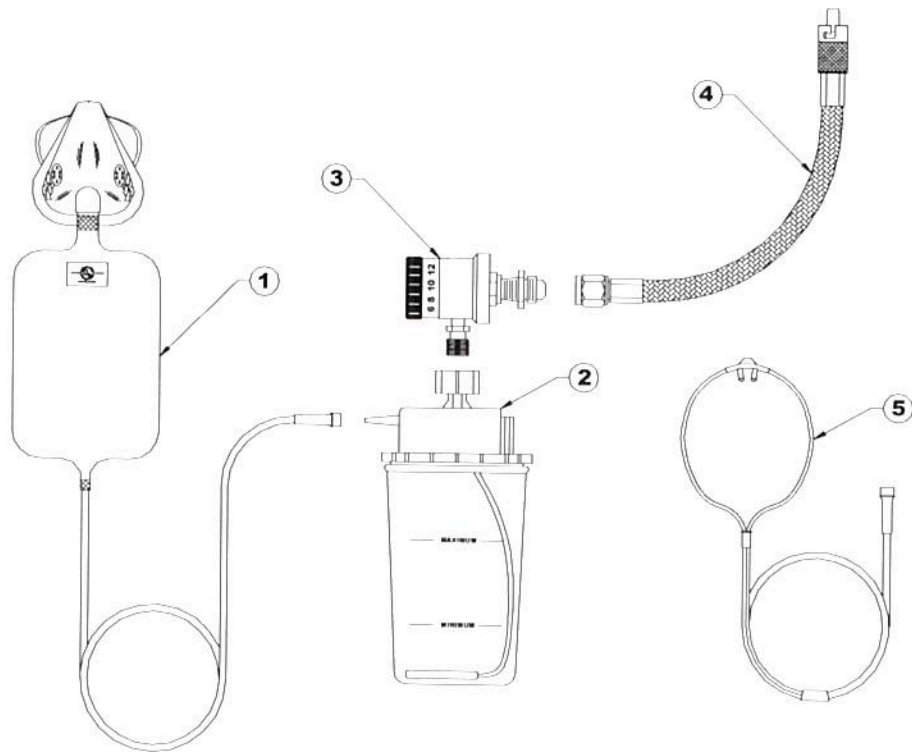
Replacement parts are available at O2 Corporation and ordering information is provided in the table below:

DESCRIPTION	PART NUMBER
Clear "Triangular" Mask	O2C52A11-84
Yellow "Dixie Cup" Mask	289-601-223-2
Humidifier Assembly	O2C33D01
Cannula	O2C55T03-1

CAUTION:

- Using a Nebulizer Kit with an aircraft's oxygen system will consume the oxygen supply, precautionary measures should be considered to assure an adequate supply is available for emergency use.
- For sanitary purposes, cleaning of the Mask and/or Humidifier should only be considered if the Nebulizer Kit is going to be re-used by the same individual.

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ITEM	DESCRIPTION
1	Mask Assembly (clear mask shown)
2	Humidifier Assembly
3	Regulator
4	Hose Assembly
5	Cannula*

* Cannula included with O2C33K08 Series only

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O2C33K01 Series

This kit includes the Yellow "Dixie Cup" style mask for oxygen delivery. It is equipped with a coupling, part number O2C50A07-5, and a list of the compatible oxygen outlets for this coupling can be found below:

Compatible Oxygen Outlets	
Manufacturer	Part Number
AVOX	36728
	802959-01
B/E Aerospace	170081
	170089
EROS	DPB153



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O2C33K02 Series

This kit includes the Clear "Triangular" style mask for oxygen delivery. It is equipped with a coupling, part number O2C50A07-5, and a list of the compatible oxygen outlets for this coupling can be found below:

Compatible Oxygen Outlets	
Manufacturer	Part Number
AVOX	36728
	802959-01
B/E Aerospace	170081
	170089
EROS	DPB153



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O2C33K04 Series

This kit includes the Yellow "Dixie Cup" style mask for oxygen delivery. It is equipped with a coupling, part number O2C50D09-1, and a list of the compatible oxygen outlets for this coupling can be found below:

Compatible Oxygen Outlets	
Manufacturer	Part Number
AVOX	8571
	8572
	8802-12
	23599



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O2C33K08 Series

This kit uses either a Clear "Triangular" style mask or a Cannula for oxygen delivery. The kit includes both components for user preference. This series also offers four different types of couplings, therefore there is a part number for each coupling and information for each is listed below.

Example part number for ordering the O2C33K08 series Nebulizer Kit:

O2C33K08 - 01 - 180

BASIC PART NUMBER
COUPLING TYPE

HOSE LENGTH IN INCHES

O2C33K08-01

This kit is equipped with the coupling part number O2C50A07-5, and a list of the compatible oxygen outlets for this coupling can be found below:

Compatible Oxygen Outlets	
Manufacturer	Part Number
AVOX	36728
	802959-01
B/E Aerospace	170081
	170089
EROS	DPB153

O2C33K08-02

This kit is equipped with the coupling part number O2C50A08-00, and a list of the compatible oxygen outlets for this coupling can be found below:

Compatible Oxygen Outlets	
Manufacturer	Part Number
AVOX	802040
	802863
B/E Aerospace	170004, 170005
	170021, 170022
	170025, 170092
	170093, 170095
	170096, 170097
	170098, 170099
	170100

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NOTES:

CLEANED IN ACCORDANCE WITH SAE ARP1176-3
AND PACKAGED TO PER SAE AIR5742

OPERATING SPECIFICATIONS:

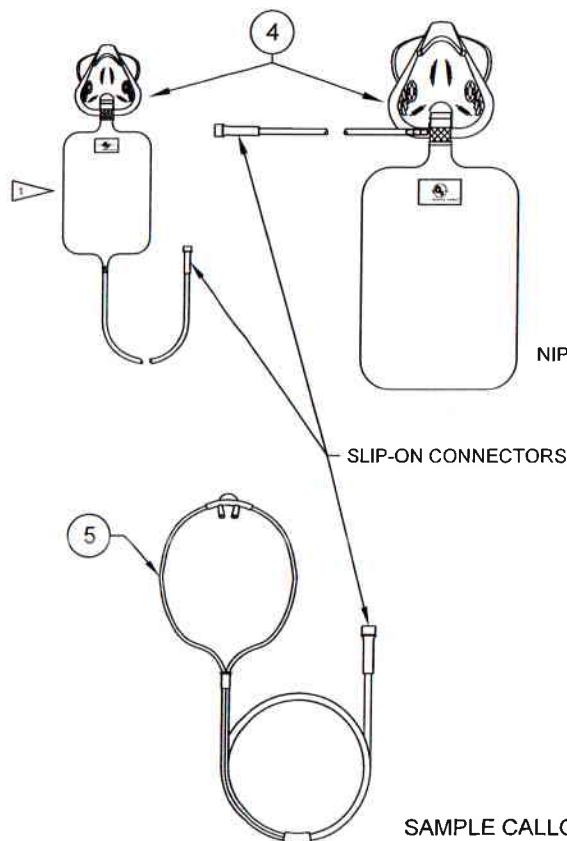
PRESSURE (@ 70° F):

OPERATING/ PROOF:

PER O2C50 CHART
AS FITTINGS REQUIRED

MIN. BEND RADIUS - 1.00"

1 O2C52A11-84 MASK W/ ALTERNATE TUBING POSITION



SAMPLE CALLOUT: OC33K08-01-030

BASE P/N

FITTING PER O2C50 CHART - O2C50A07-5 (-01) SHOWN
(END A)

FLOW CHART	
DIAL POSITION	LPM FLOW (@ 50 ± 1 PSIG)
0	.5 ± .10
0.5	.5 ± .10
1	1.00 ± .10
2	2.00 ± .20
3	3.00 ± .30
4	4.00 ± .40
5	5.00 ± .50
6	6.00 ± .60
8	8.00 ± .80
10	10.00 ± 1.00
12	12.00 ± 1.20
15	15.00 ± 1.50

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
F	ADDED * ADDED FLAG NOTE 1 - O2C52A11-84 MASK W/ ALTERNATE TUBING POSITION CHANGED * REGULATOR FROM BOTTLE TO SHOWN ATTACHED TO HOSE	12-19-24	360

ORIGINAL

O2C50 COUPLING

REF. O2C50 DRAWING FOR AVAILABLE
COUPLINGS AND MATING OUTLETS

O2C50A07-5 SHOWN (-01)

TOLERANCE:
LENGTHS (XXXX):

± 0.5" < 36" (LESS THAN)

± 2.0" ≥ 36" (EQUAL OR GREATER THAN)

AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	1	AN816-4D	ADAPTER, STRAIGHT
2	1	OXS1007-4-XX-YYY	LOW PRESSURE NEBULIZER HOSE WITH O2C50 COUPLING
3	1	O2C33D01	HUMIDIFIER BOTTLE
4	1	O2C52A11-84	SLIP-ON MASK ASSY
5	1	O2C55T03-1	SLIP-ON CANNULA
6	1	OC76D01-1	FLOW REGULATOR

DRAWN BY: O2 CROP DATE: 10 NOV 1996

APPROVED: BURT DATE: 10 NOV 1996

TOLERANCE
EXCEPT AS
NOTED

DECIMAL
X ± .10
XX ± .01
XXX ± .005
ANGULAR ± 1/2



NAME
NEBULIZER KIT
W/ O2C50 COUPLING,
SLIP-ON MASK AND CANNULA

DWG NO: O2C33K08

PAPER SIZE ANSI C SHEET 1 OF 1 REV F

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O2C33K08-04

This kit is equipped with the coupling part number O2C50D09-1, and a list of the compatible oxygen outlets for this coupling can be found below:

Compatible Oxygen Outlets	
Manufacturer	Part Number
AVOX	8571
	8572
	8802-12
	23599



O2C33K08-01-XXX Shown

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NOTES:

CLEANED IN ACCORDANCE WITH SAE ARP1176-3
AND PACKAGED TO PER SAE AIR5742

OPERATING SPECIFICATIONS:
OPERATING/ PROOF:
MAINTAINED BY METERED OUTLETS SYSTEM

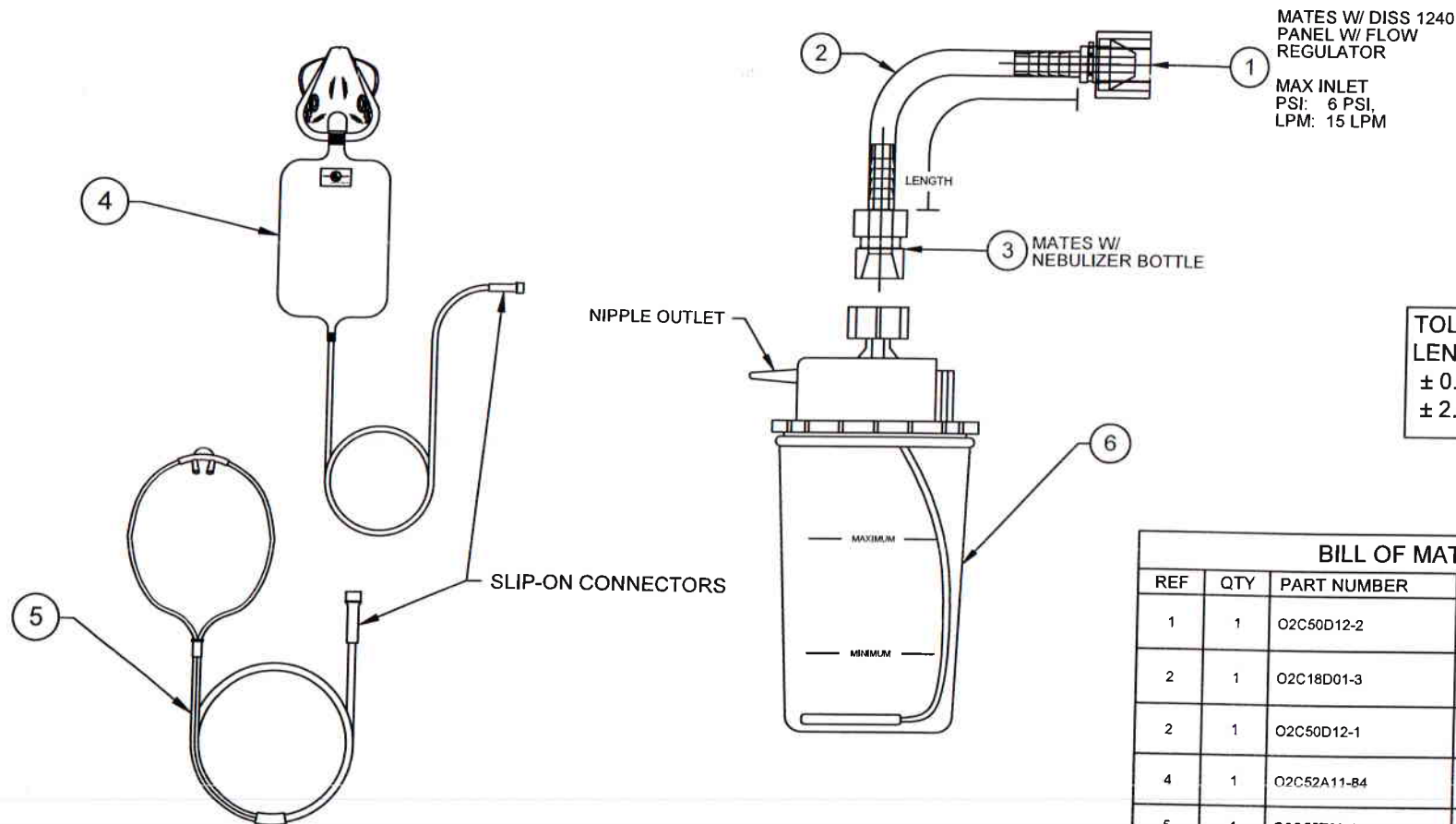
MIN. BEND RADIUS - 1.00"

*** MUST BE USED IN A SYTEMS WITH METERED FLOW ***

ORIGINAL

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED



TOLERANCE:
LENGTHS (XXXX):
± 0.5" < 36" (LESS THAN)
± 2.0" ≥ 36" (EQUAL OR GREATER THAN)

AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	1	O2C50D12-2	DISS 1240 STYLE FITTING FEMALE
2	1	O2C18D01-3	TUBING
2	1	O2C50D12-1	DISS 1240 STYLE FITTING MALE
4	1	O2C52A11-B4	SLIP-ON MASK ASSY
5	1	O2C55T03-1	SLIP-ON CANNULA
6	1	O2C33D01	HUMIDIFIER BOTTLE

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SAMPLE CALLOUT: OC33K14-30

BASE P/N
TUBING LENGTH IN INCHES
30" HOSE SHOWN

DRAWN BY: ZPM DATE: 16 APR 2024

APPROVED: J30 DATE: 4-23-2024

TOLERANCE DECIMAL XX ± .01
EXCEPT AS XXX ± .005
NOTED ANGULAR ± 1/2 "



NAME
NEBULIZER KIT
DISS 1240 FITTINGS
SLIP-ON MASK AND CANNULA

DWG NO: O2C33K14

PAPER SIZE ANSI C SHEET 1 OF 1 REV NC



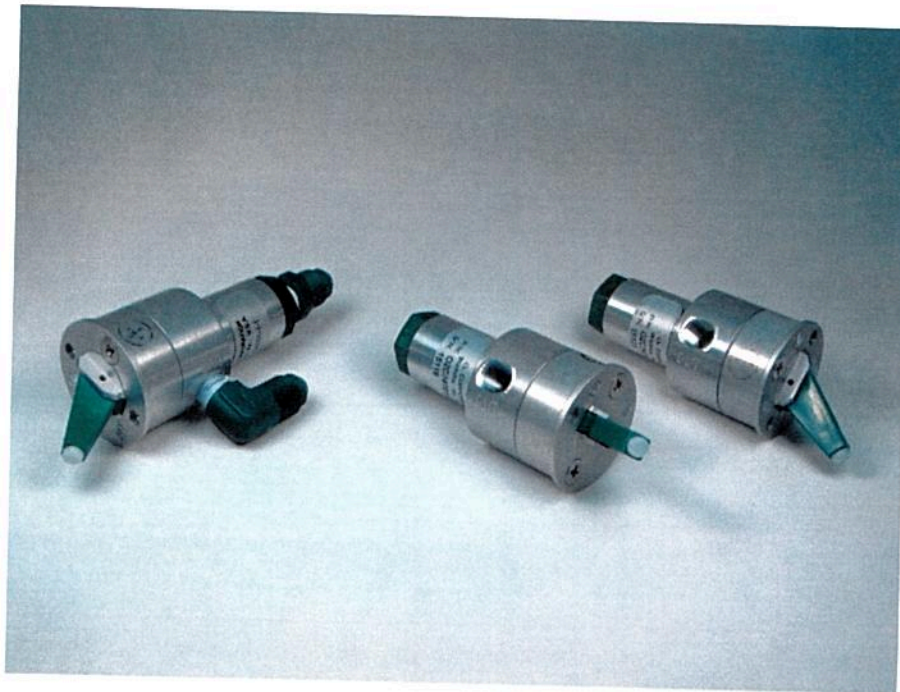
ON/OFF OXYGEN VALVES

The O₂ Corporation On/Off Valves are used in oxygen systems, at low-pressure conditions, to control downstream system components. Our valves may be used for manual activation of the passenger supplemental oxygen supply. Conversely they may also be used to disable the passenger oxygen supply when isolation of the crew member oxygen supply is needed. The valve is fully opened and closed by simply flipping the On/Off lever. The flow of oxygen may only travel in one direction, from the inlet port to the outlet port. The inlet and outlet ports both provide a 1/8" ANPT connection.

The service medium for our valves is Aviators Breathing Oxygen. The working pressure is 70 psi with a maximum operating pressure of 150 psi. The operating temperature range is -65° to +165° F. The weight of the valve alone is approximately 0.25 lbs.

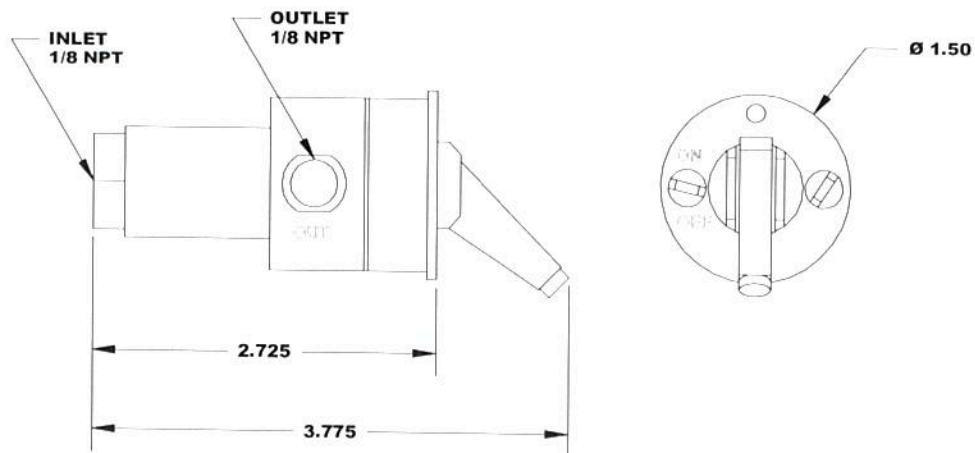
Each valve is pressure tested to assure bubble-free leakage internally from the inlet to outlet port. Each valve is cleaned for oxygen service and individually packaged. Air Force designation for this valve is CRU-18/A.

We offer the same On/Off Valve in 3 different configurations. Part numbers O2C74T01 and O2C74T01-1 are valves without any fittings, the only difference being the orientation of the lever. The third valve, O2C74T01-1-1 comes complete with mating fittings as shown below.

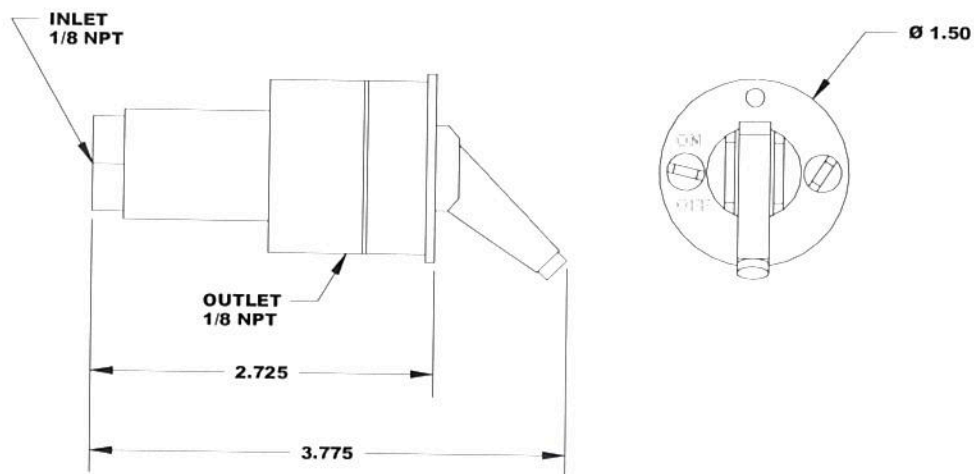


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O2C74T01

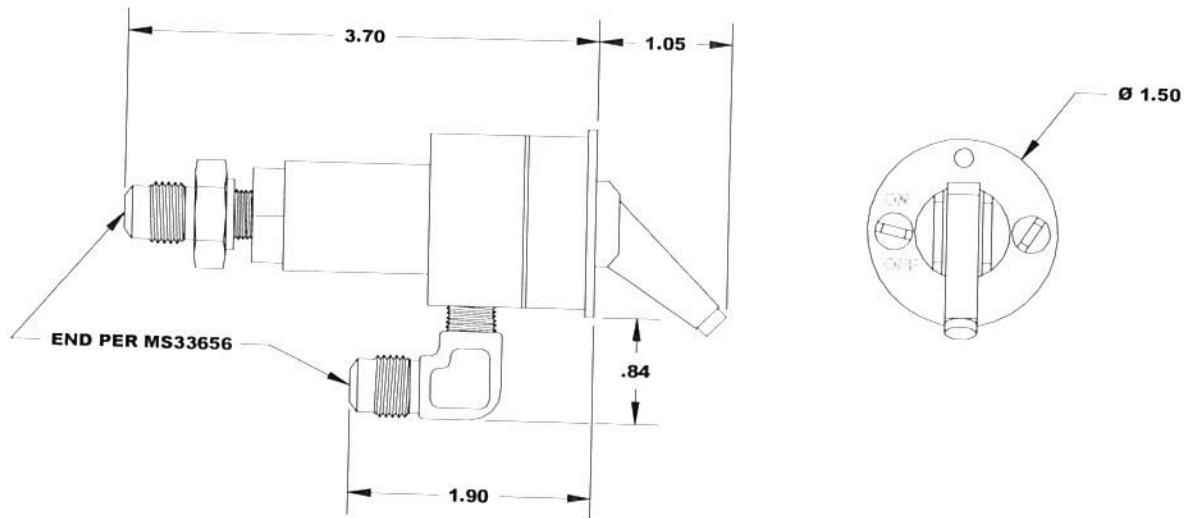


O2C74T01-1



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O2C74T01-1-1

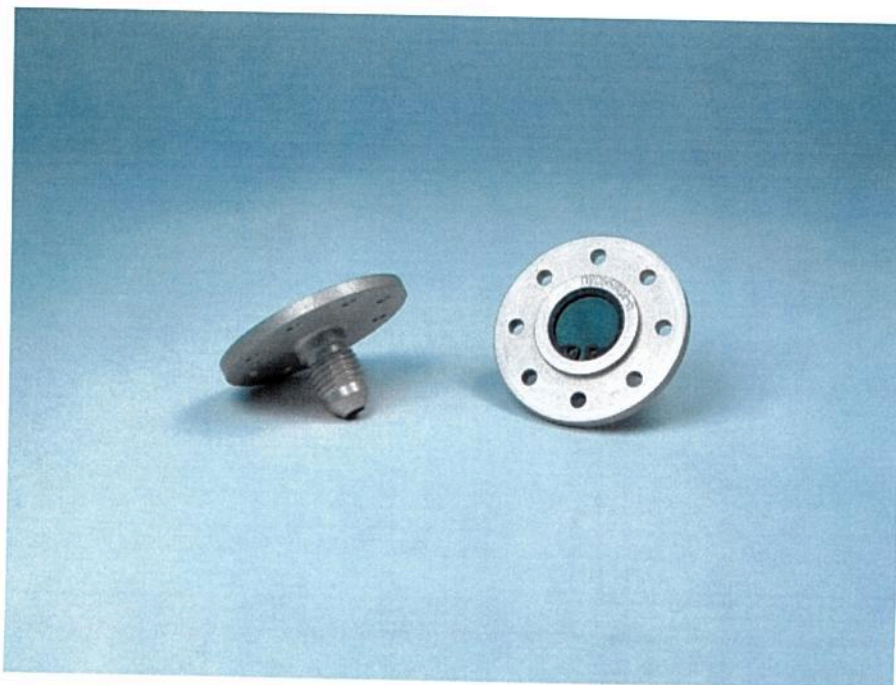


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OVERBOARD DISCHARGE INDICATOR

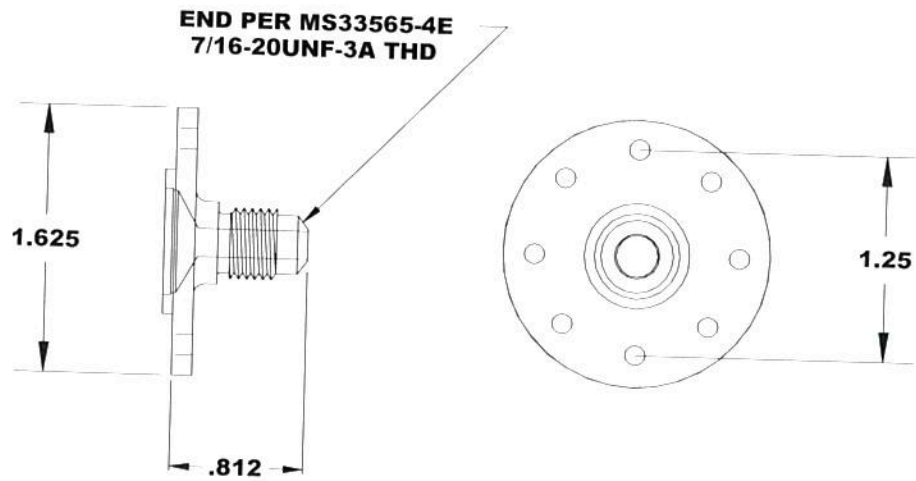
The O₂ Corporation Overboard Discharge Indicator presents a visual indication that oxygen is venting overboard from the aircraft's oxygen system. Because this indicator is mounted along the aircraft skin it can only be checked from outside the aircraft, most likely during a preflight inspection or ground check. The indicator should be connected to a high-pressure safety relief device found on the oxygen cylinder.



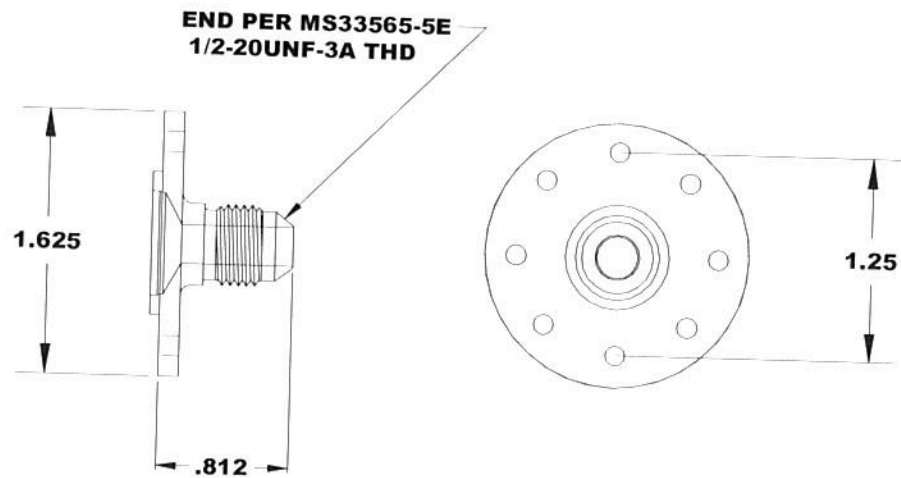
We offer two Overboard Discharge Indicators that are dimensionally similar with the only difference being the thread size. Please refer to the following pages for product specifications.

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O2C66T02-4



O2C66T02-5

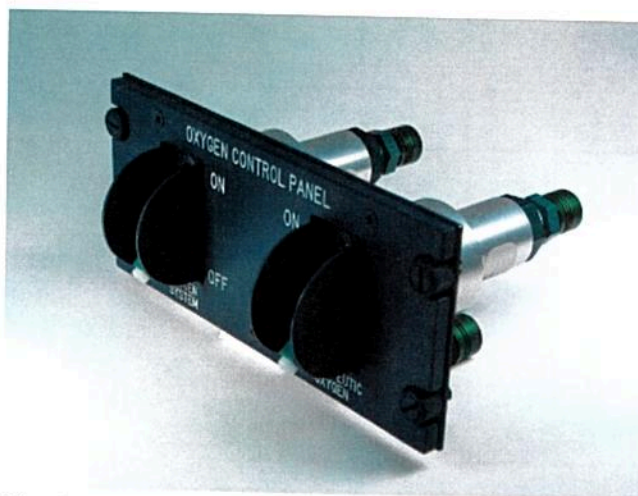


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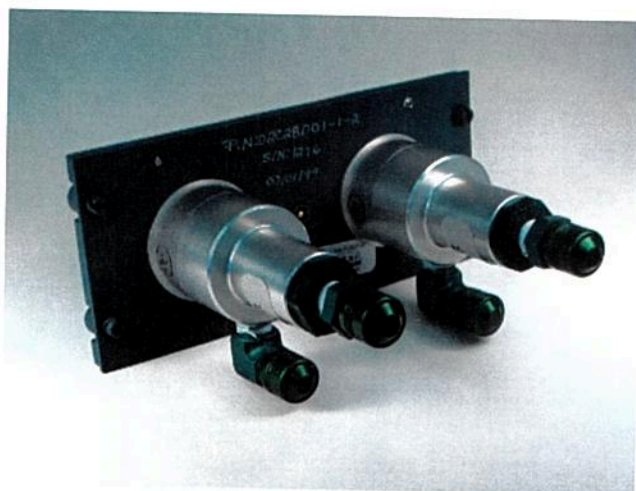


OXYGEN CONTROL PANELS

The O₂ Corporation Oxygen Control Panels are designed to allow initiation of the on board oxygen supply at any cabin altitude up to 25,000 feet. Our panels are available with either one or two On/Off Oxygen Valves. The specifications for our panels, such as panel coloring, are listed below.

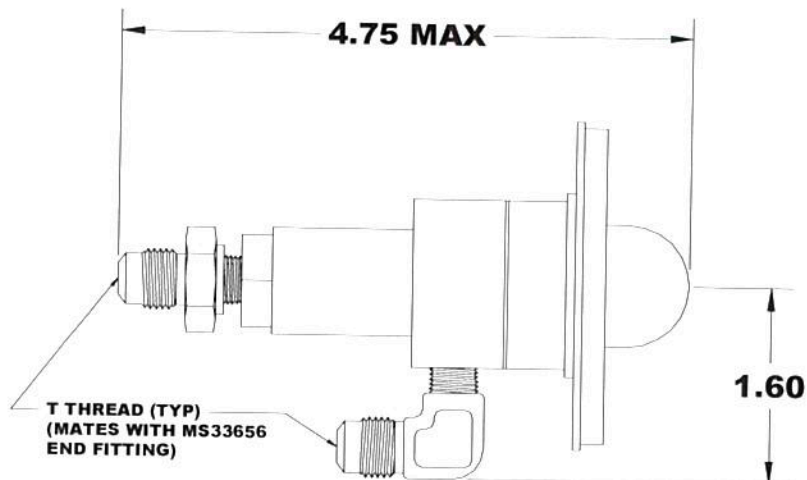
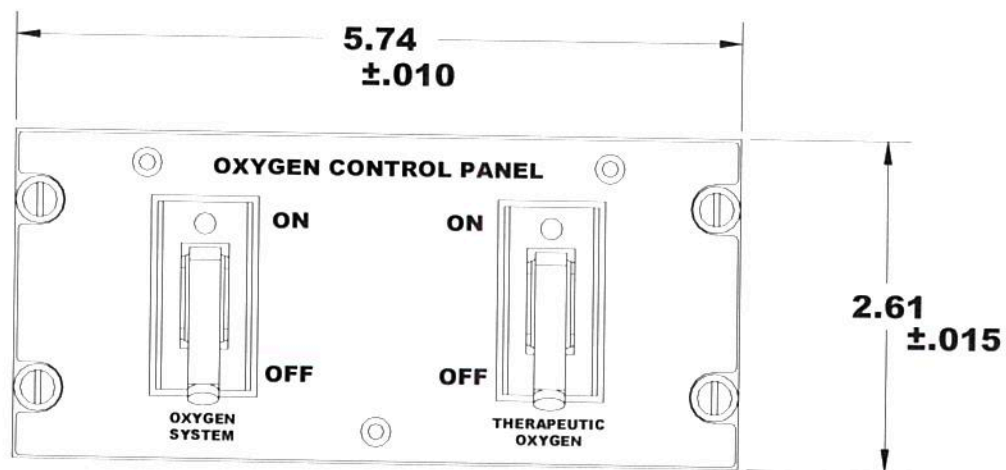


- LIGHTING: Blue-Filtered White Type IV, Class 2-BW, Per MIL-P-7788F
- BACKGROUND: Color Gray Per FED-STD-595, Color Number 36118
- LEGEND COLOR: White Per FED-STD-595, Color Number 37857
- PANEL MOUNTING: DZUS Quick Release Panel Fasteners #PFSC 3-1/4-3B
- Spacing Per MS25212 Mounting Standards
- SWITCH GUARD: Reduces Accidental Operation
- ON/OFF VALVES: Exceed CRU 18-A with Zero Leakage for 24 Hour Test
- POWER: 5 Volt, 6 Milliamps



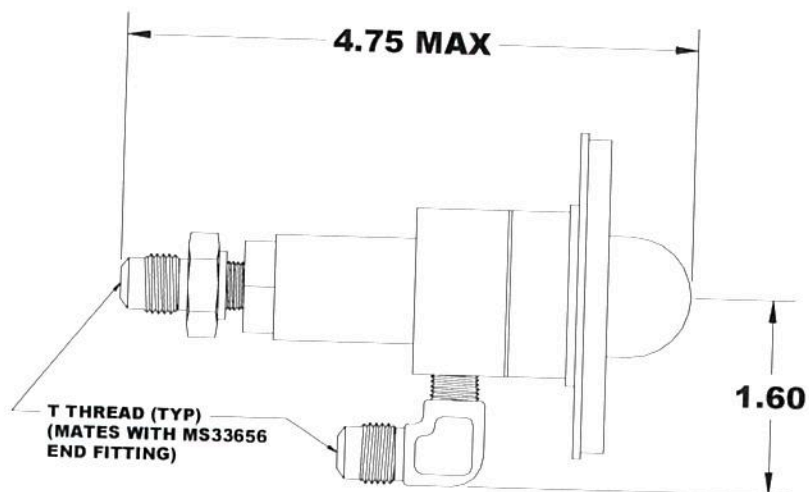
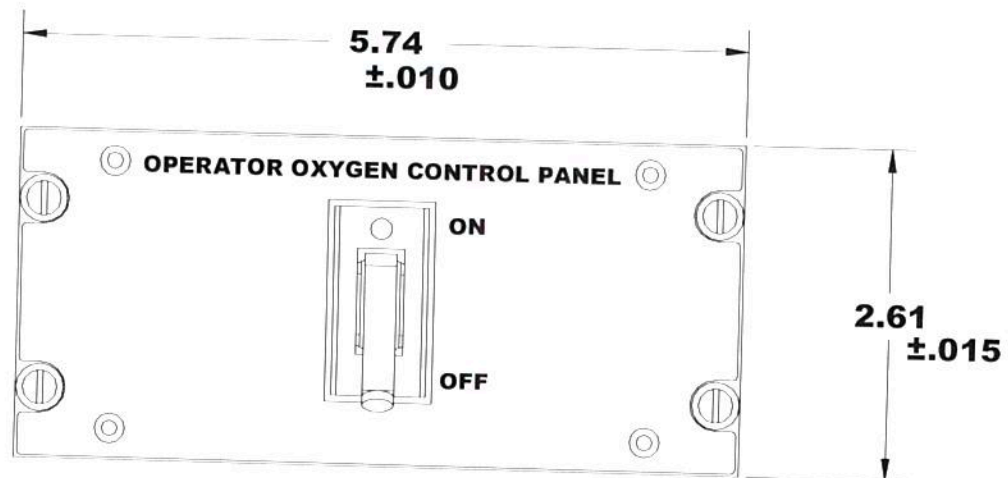
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O2C28T01-1



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O2C28T01-2

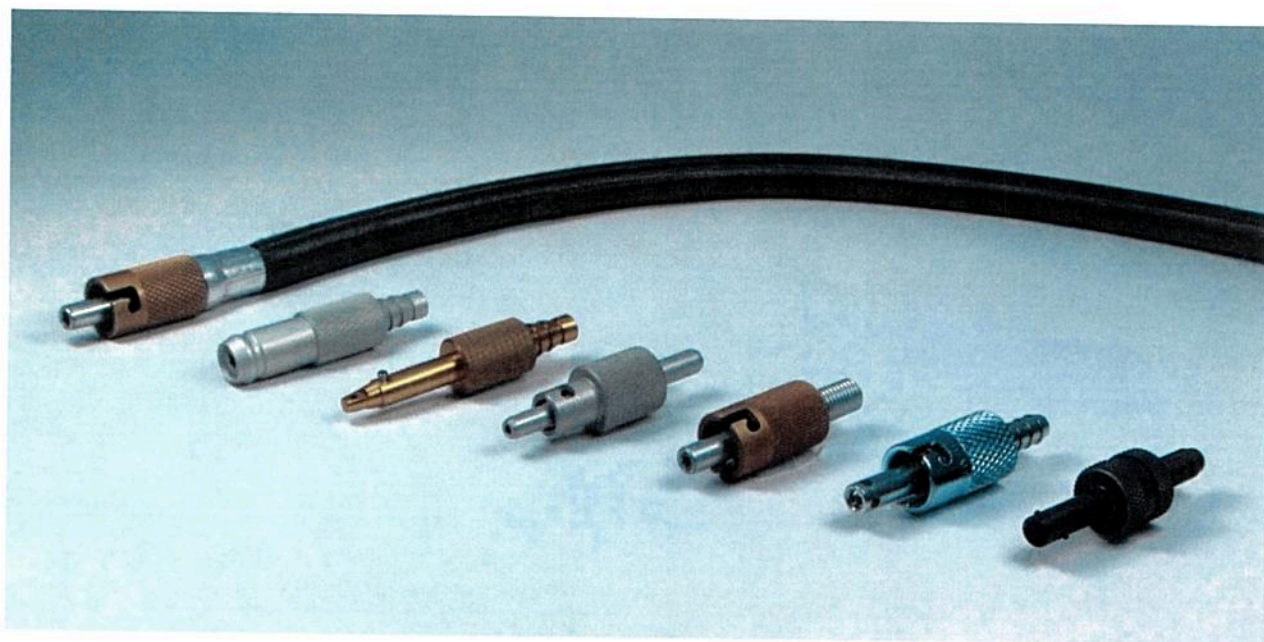


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OXYGEN COUPLINGS

The O₂ Corporation Oxygen Couplings are a plug-in connection between an oxygen delivery device and an oxygen source. When used with an oxygen delivery device, such as a Mask Assembly or Nebulizer Kit, the coupling will mate this device to an oxygen source such as a charged oxygen bottle or oxygen outlet. The oxygen source may be fixed or portable, and the coupling is manufactured to provide either a free flow or restricted flow, but not both. For product details pertaining to equivalent and compatible part numbers, please see the information below.



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NOTES:

THE COUPLING (FITTING) AND OUTLET MUST NOT HAVE FLOW RESTRICTION WHEN USED WITH NEBULIZER KITS.

BARBED FITTING USED IN MASK ASSEMBLY WITH FLOW RESTRICTION
BARBLESS USED IN NEBULIZER KITS WITH OUT RESTRICTION

FLOW RESTRICTIONS ARE AS REQUIRED; IF USED IN NON-METERED OUTLETS.

****NOT A COMPLETE LIST OF COMPATIBILITIES****

ORIGINAL

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
C	ADDED: O2C50A11 AS -06 FOR BRITISH STANDARD BS 5682 O2C50D04-1 AS -07 FOR MS21964-20 W/ O-RING UPDATED: FORMAT TO NEW STANDARD REDREW CHART FOR EASIER UPDATING	18 Dec 2023	560

O2C50 MATING FITTINGS

LISTED IN () ARE FORMALLY KNOWN AS

DASH #	O2 CORP COUPLING	EQUIVALENT COUPLINGS MUST BE FREE FLOW OR MODIFIED TO FREE FLOW	
-01 OR IF NO DASH IS SHOWN	O2C50A07-1 (BARBED) OR O2C50A07-5 (BARBLESS)	BE (PB)	173702 173704 270160
		AVOX (SCOTT)	36857 377007-077 802958
		EROS	DMZ14
-02	O2C50A08-XX	BE (PB)	118041 173017 173701 173703
		AVOX (SCOTT)	802039 802627

CONTINUED ON PAGE 2

O2C50 MATING OUTLETS

LISTED IN () ARE FORMALLY KNOWN AS

DASH #	O2 CORP COUPLING	MATING OUTLETS MUST BE FREE FLOW OR MODIFIED TO FREE FLOW	
-01	O2C50A07-1 (BARBED) OR O2C50A07-5 (BARBLESS)	BE (PB)	170081 170089
		AVOX	36728-01 802959-01
		EROS	DPB153 DPB181-00 DPB181-03 DPB181-06
-02	O2C50A08-XX	BE (PB)	170004 170005 170021 170022 170025 170092 170093 170095 170096 170097 170098 170099 170100
		AVOX	802040 802863

CONTINUED ON PAGE 2

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DRAWN BY: O2 CORP DATE: 01 JUL 1999

APPROVED: JLO DATE: 01 JUL 1999

TOLERANCE DECIMAL XX ± .01
EXCEPT AS XXX ± .005
NOTED ANGULAR ± 1/2 °



O2 CORPORATION
AIRCRAFT OXYGEN
EQUIPMENT SPECIALISTS

NAME
O2 FITTING CHART
EQUIVALENT FITTINGS AND OUTLETS

DWG NO: O2C50

PAPER SIZE ANSI C SHEET 1 OF 3

REV
C

NOTES:

SEE PAGE 1 FOR ADDITIONAL NOTES

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
C	SEE PAGE 1	18 Dec 2023	

ORIGINAL

O2C50 MATING FITTINGS

LISTED IN () ARE FORMALLY KNOWN AS

DASH #	O2 CORP COUPLING	EQUIVALENT COUPLINGS MUST BE FREE FLOW OR MODIFIED TO FREE FLOW	
-03	O2C50D04-2	HF: FS027 **THIS IS THE ONLY ONE THAT WORKS** **BACK PRESSURE BLOWS OUT O-RINGS ON OTHERS**	
		* SIERRA	777-37
		* FPI	4195 MS21964-20
		* BE (PB)	118040 173720 173723 (41A29887)
		* AVOX (SCOTT)	5065-10
-04	O2C50D09-1	BE (PB)	173711
		AVOX (SCOTT)	8570 8586 8830 802624
-05	O2C50D10	AVOX (SCOTT)	27521-01
-06	O2C50A11	BRITISH STANDARD BS 5682	
CONTINUED ON PAGE 3			

* ARE NOT USED DUE TO LEAKAGE

O2C50 MATING OUTLETS

LISTED IN () ARE FORMALLY KNOWN AS

DASH #	O2 CORP COUPLING	MATING OUTLETS MUST BE FREE FLOW OR MODIFIED TO FREE FLOW	
-03	O2C50D04-2	BE (PB)	110118 170086 170120 Z651
		AVOX (SCOTT)	5065-10
-04	O2C50D09-1	AVOX (SCOTT)	8571 8572 8802-12 23599
-05	O2C50D10	EROS	DPB181-00
-06	O2C50A11	O2C41T01-BS5682 ALL BS 5682	
CONTINUED ON PAGE 3			

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DRAWN BY: O2 CORP DATE: 01 JUL 1999

APPROVED: JLO DATE: 01 JUL 1999

TOLERANCE
EXCEPT AS
NOTED

DECIMAL XX ± .01
XXX ± .005
ANGULAR ± 1/2 °



O2 CORPORATION
AIRCRAFT DIVISION
EQUIPMENT SPECIALISTS

NAME
O2 FITTING CHART
EQUIVALENT FITTINGS AND OUTLETS

DWG NO: O2C50

PAPER SIZE ANSI C

SHEET 2 OF 3

REV
C

NOTES:
SEE PAGE 1 FOR ADDITIONAL NOTES


ORIGINAL

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
C	SEE PAGE 1	18 Dec 2023	

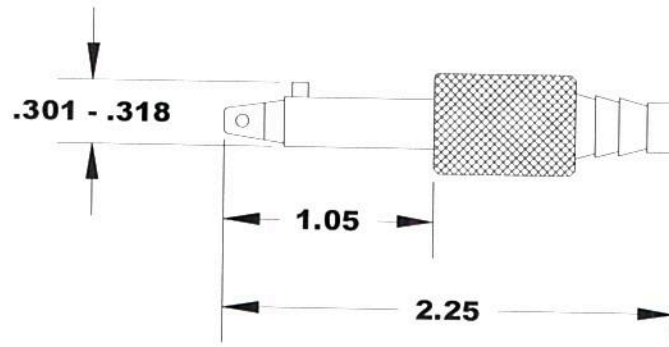
O2C50 MATING FITTINGS			
LISTED IN () ARE FORMALLY KNOWN AS			
DASH #	O2 CORP COUPLING	EQUIVALENT COUPLINGS MUST BE FREE FLOW OR MODIFIED TO FREE FLOW	
© -07	O2C50D04-1	AVOX (SCOTT)	565-10
		SIERRA	777-37 289-644 470-11
		MS	MS21964-20 W/ O-RING
		AF	41A2988
		AN	6009
		BE (PB)	118040 173720 173723

O2C50 MATING OUTLETS			
LISTED IN () ARE FORMALLY KNOWN AS			
DASH #	O2 CORP COUPLING	MATING OUTLETS MUST BE FREE FLOW OR MODIFIED TO FREE FLOW	
© -07	O2C50D04-1 (MS21964-20 W/ O-RING)	AN	6009
		BE (PB)	170086 Z406
		AVOX (SCOTT)	5008 (METERED)

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DRAWN BY: O2 CORP		DATE: 01 JUL 1999			NAME O2 FITTING CHART EQUIVALENT FITTINGS AND OUTLETS	
APPROVED: JLO		DATE: 01 JUL 1999			DWG NO: O2C50	
TOLERANCE		DECIMAL	XX ± .01	O2 CORPORATION AIRCRAFT OXYGEN EQUIPMENT SPECIALISTS	PAPER SIZE ANSI C	
EXCEPT AS			XXX ± .005		SHEET 3 OF 3	
NOTED		ANGULAR	± 1/2 °		REV C	

O2C50A03-1



This coupling is equivalent to the following couplings:

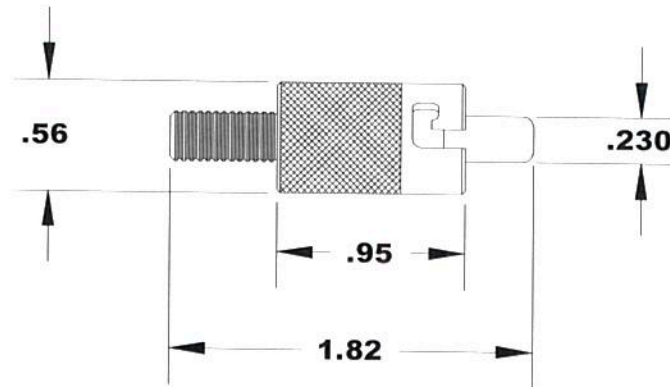
Equivalent Couplings	
Manufacturer	Part Number
B/E Aerospace	210019
	211765
AVOX	14807

This coupling will mate with the following oxygen outlets:

Compatible Outlets	
Manufacturer	Part Number
B/E Aerospace	170087
	110027
AVOX	5507

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235 N. WASHINGTON
WICHITA, KS 67202
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www.o2corporation.com

O2C50A07-1-XX



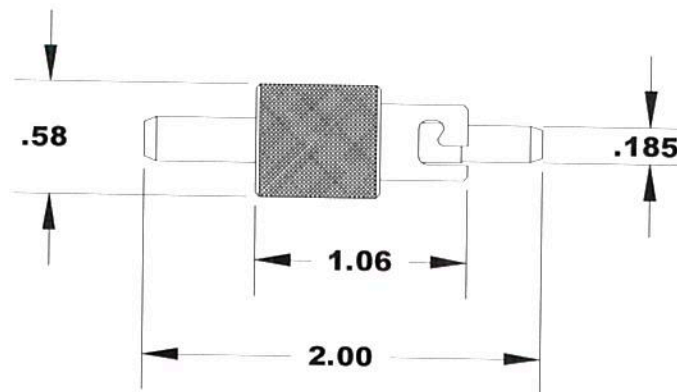
The "XX" portion of the part number indicates the flow rate in liters and tenths at a pressure of 70 psig. For a coupling without flow restriction simply leave the "XX" portion of the part number blank.

This coupling will mate with an O2 Corporation oxygen outlet, as well as the following oxygen outlets:

Compatible Outlets	
Manufacturer	Part Number
B/E Aerospace	170089
AVOX	802959-01

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www.o2corporation.com

O2C50A08-XX



The "XX" portion of the part number indicates the flow rate in liters and tenths at a pressure of 70 psig. For a coupling without flow restriction simply leave the "XX" portion of the part number blank.

This coupling is equivalent to the following couplings:

Equivalent Couplings	
Manufacturer	Part Number
B/E Aerospace	118041, 173017
	173701, 173703
AVOX	802039, 802627

This coupling will mate with the following oxygen outlets:

Compatible Outlets	
Manufacturer	Part Number
B/E Aerospace	170004, 170005
	170021, 170022
	170025, 170092
	170093, 170095
	170096, 170097
	170098, 170099
	170100
AVOX	802040, 802863

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235 N. WASHINGTON
WICHITA, KS 67202
PHONE: (316)-634-1240 FAX: (316)-634-1061
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NOTES:

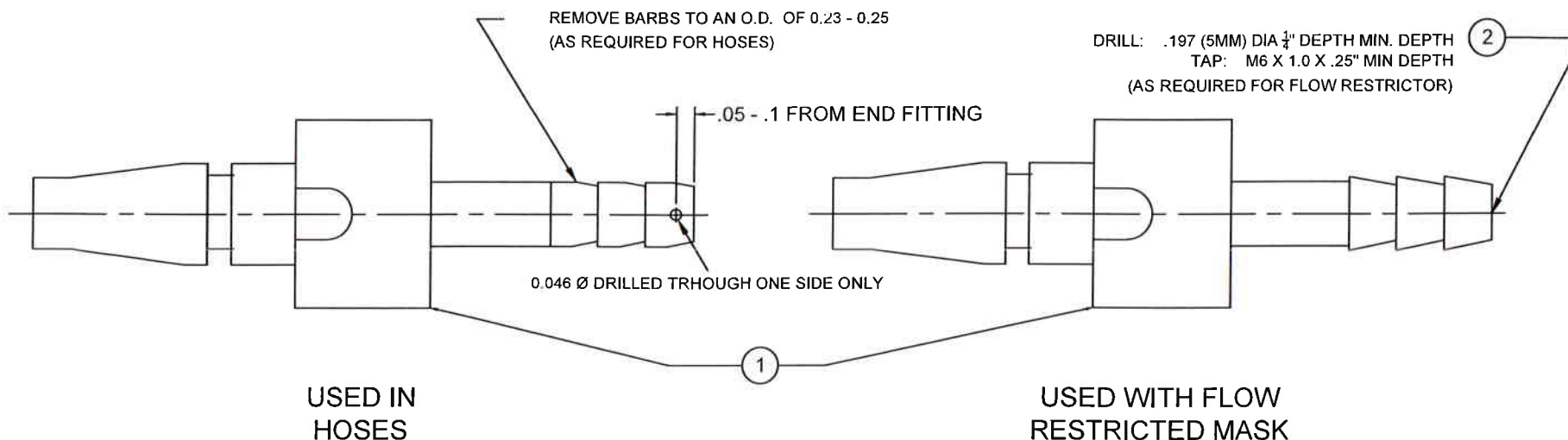
CONFORMS:
BRITISH STANDARD BS 5682

NO FLOW RESTRICTION WHEN USED IN HOSES
OR WITH USE IN METERED OUTLETS

ORIGINAL

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED



USED IN
HOSES

USED WITH FLOW
RESTRICTED MASK

AR-AS REQUIRED
NS-NOT SHOWN

TOLERANCE:
FLOW RATE (XX):
+ 0.25 LPM
- 0.00 LPM
PRESSURE RATE (XX):
± 1.00 PSI

BILL OF MATERIALS			
REF	QTY	PART NUMBER	DESCRIPTION
1	1	O2C50R11	BS5682 OXYGEN FITTING
2	1	O2C50D11-XXYY	FLOW RESTRICTOR (AS REQUIRED)

O2C50A11 = NO FLOW RESTRICTION
SAMPLE CALLOUT: O2C50A11-7570 = 7.5 LPM @ 70 PSIG
BASE P/N | FLOW IN .1 LPM | PRESSURE IN PSIG

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DRAWN BY: ZPM	DATE: 19 DEC 2023
APPROVED: <i>[Signature]</i>	DATE: 12-19-23
TOLERANCE	DECIMAL XX ± .01 EXCEPT AS NOTED XXX ± .005 ANGULAR ± 1/2 °



NAME
BRITISH STANDARD MEDICAL FITTING
BS 5682
FOR OXYGEN SERVICE

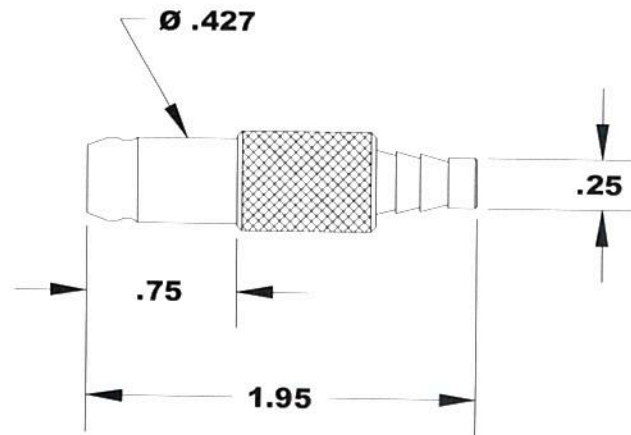
DWG NO: O2C50A11

PAPER SIZE ANSI C

SHEET 1 OF 1

REV
NC

O2C50D02-1



This coupling is equivalent to the following couplings:

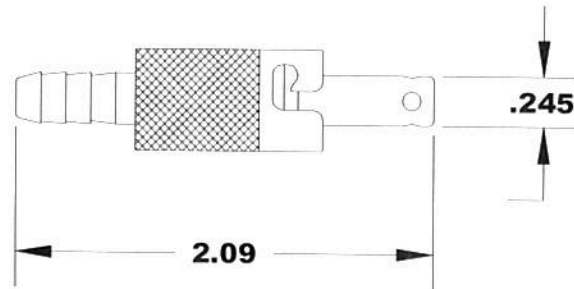
Equivalent Couplings	
Manufacturer	Part Number
B/E Aerospace	119030
	500186
AVOX	29559

This coupling will mate with the following oxygen outlets:

Compatible Outlets	
Manufacturer	Part Number
B/E Aerospace	170088
	110106-XX
AVOX	5041

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O2C50D04-1



This coupling is equivalent to the following couplings:

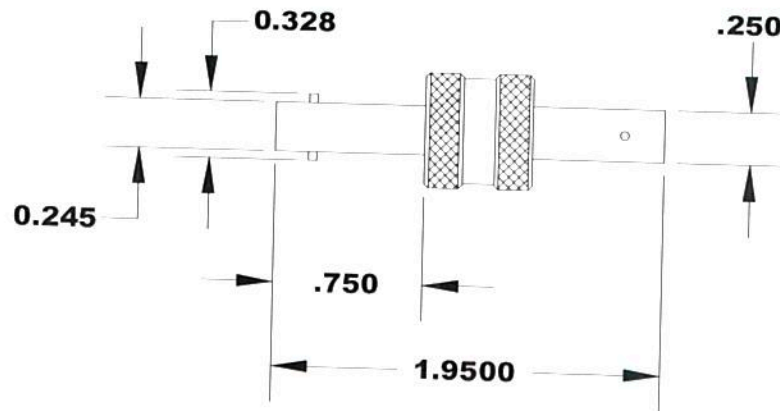
Equivalent Couplings	
Manufacturer	Part Number
B/E Aerospace	118040
	173720
	173723
AVOX	5065-10
Military	MS21964-20

This coupling will mate with the following oxygen outlets:

Compatible Outlets	
Manufacturer	Part Number
B/E Aerospace	110022, 110112
	110118, 170086
	170120, Z406
	Z651, Z652
AVOX	5009

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O2C50D09-1



This coupling is equivalent to the following couplings:

Equivalent Couplings	
Manufacturer	Part Number
B/E Aerospace	173711
AVOX	8570
	8586
	8830
	802624

This coupling will mate with the following oxygen outlets:

Compatible Outlets	
Manufacturer	Part Number
AVOX	8571
	8572
	8802-12
	23599

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 235 N. WASHINGTON
 WICHITA, KS 67202
 PHONE: (316)-634-1240 FAX: (316)-634-1061
 www.o2corporation.com

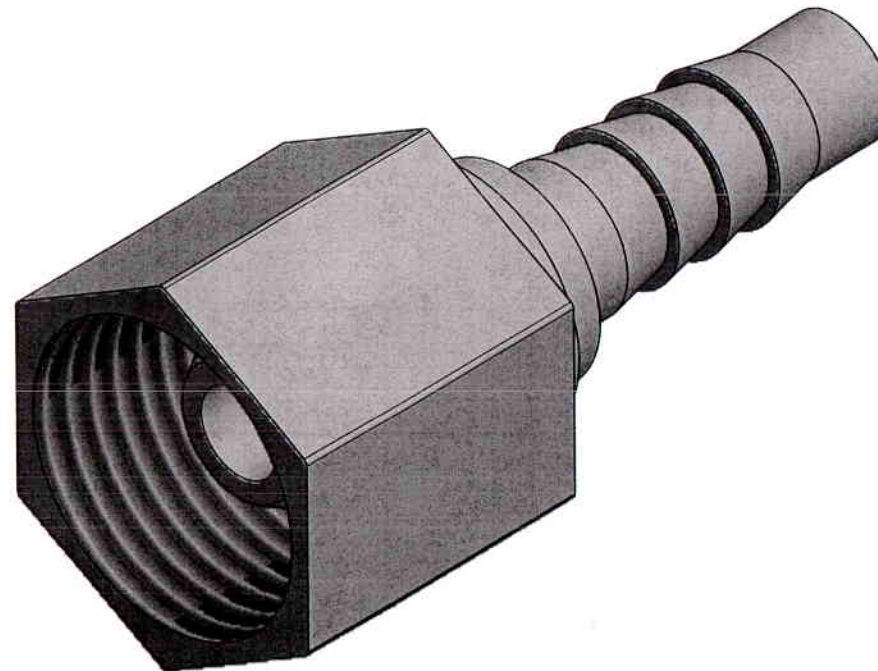
ORIGINAL

NOTES:

MUST MEET DISS 1240 REQS. FOR 1/4" ID TUBING


REVISIONS

REV.	DESCRIPTION	DATE	APPROVED



PROPRIETARY NOTICE

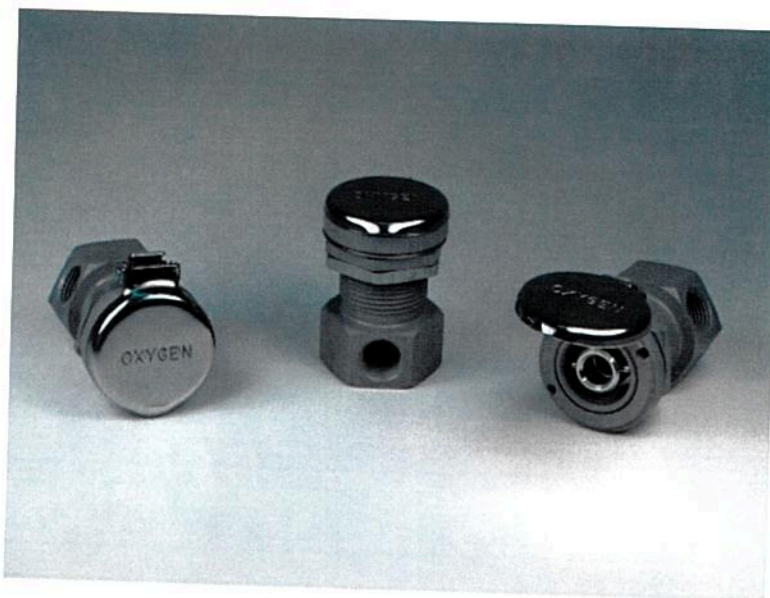
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DRAWN BY: ZPM	DATE: 16 APR 2024		NAME DISS 1240 FITTING FEMALE X 1/4" I.D. HOSE BARB W/ O-RING	
APPROVED: <i>JW</i>	DATE: 4-23-2024		DWG NO: O2C50D12-2	
TOLERANCE EXCEPT AS NOTED	DECIMAL XX ±.01 XXX ±.005 ANGULAR ± 1/2 °	PAPER SIZE ANSI C	SHEET 1 OF 1	REV NC



OXYGEN OUTLETS

The O₂ Corporation Oxygen Outlets are designed to provide a connection of a crewmember "quick don" oxygen mask, a constant flow oxygen mask, or an O₂ Corporation Mask Assembly to the main oxygen feed line. Each outlet may be positioned to the needed orientation during installation by adjusting the jamb nut. An oxygen mask is connected to the outlet by means of a bayonet-style oxygen coupling, and a list of compatible oxygen couplings are shown in the table below.



These outlets provide bubble-free leakage with or without the bayonet coupling engaged, and the intended service medium is Aviators Breathing Oxygen. The operating pressure range is 5 to 100 psig, and each outlet is proof tested to 140 psig. The operating flow rate is 200 lpm at 70 psig. The ambient temperature range is -40° to +160° F. Each outlet is cleaned for oxygen service and packaged in a heat-sealed sleeve, to prevent contamination, and weighs only 0.125 lbs.

COMPATIBLE OXYGEN COUPLINGS	
Manufacturer	Part Number
O2 Corporation	O2C50A07
B/E Aerospace	173702, 173704 270160
AVOX	36857, 37007-077 802958
EROS	DMZ14

O₂ CORPORATION
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O2C40T01

The basic part number for our standard oxygen outlet is **O2C40T01**. This outlet is available in three different configurations, where each configuration is represented by a dash number, and is detailed in the table below.

Part Number	Description
O2C40T01-1	Without "OXYGEN" engraved on the lid
O2C40T01-2 or O2C40T01-2C	With "OXYGEN" engraved on the lid
O2C40T01-3	No Lid

The lid used for part numbers O2C40T01-1, O2C40T01-2, and O2C40T01-2C is a polished, stainless steel lid. Previous documentation offered this lid with optional chrome plating, but a chrome plated lid has never been manufactured. To request a chrome plated lid, customers must use part number O2C40T03, and information regarding this part number can be obtained below.

Due to demand, part number O2C40T01-1 must currently be treated as a special order item. Please contact us for further information regarding this part number.

Our oxygen outlet, part number O2C40T01-2C, is approved for Parts Manufacturer Approval (PMA). A copy of the relevant PMA Supplement can be obtained on our website under the "INFORMATION" link, and is included in Supplement #3.

O2C40T03

We also offer an oxygen outlet with a custom finish for the lid. This allows our customers to match the installed outlet with the surrounding aircraft interior. The part number for an outlet with a custom finish lid is **O2C40T03**. This oxygen outlet is equivalent to all of our other oxygen outlets, the only difference is the finish on the lid.

Customers must specify the required finish for the outlet lid on their documentation (purchase order, etc). Currently "OXYGEN" is engraved on all lids for this part number. Please contact us for further information regarding this part number.

All of our oxygen outlets are equivalent to the following outlets:

EQUIVALENT OUTLETS	
Manufacturer	Part Number
B/E Aerospace	170081
	170089
AVOX	36728-01
	802959-01
EROS	DPB153

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WICHITA, KS 67202
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www.o2corporation.com

NOTES:

SERVICE MEDIA: GASEOUS BREATHING OXYGEN
OPERATING PRESSURE: 1-100 PSIG (1-690 kPa)
PROOF PRESSURE: 140 PSIG (965 kPa)

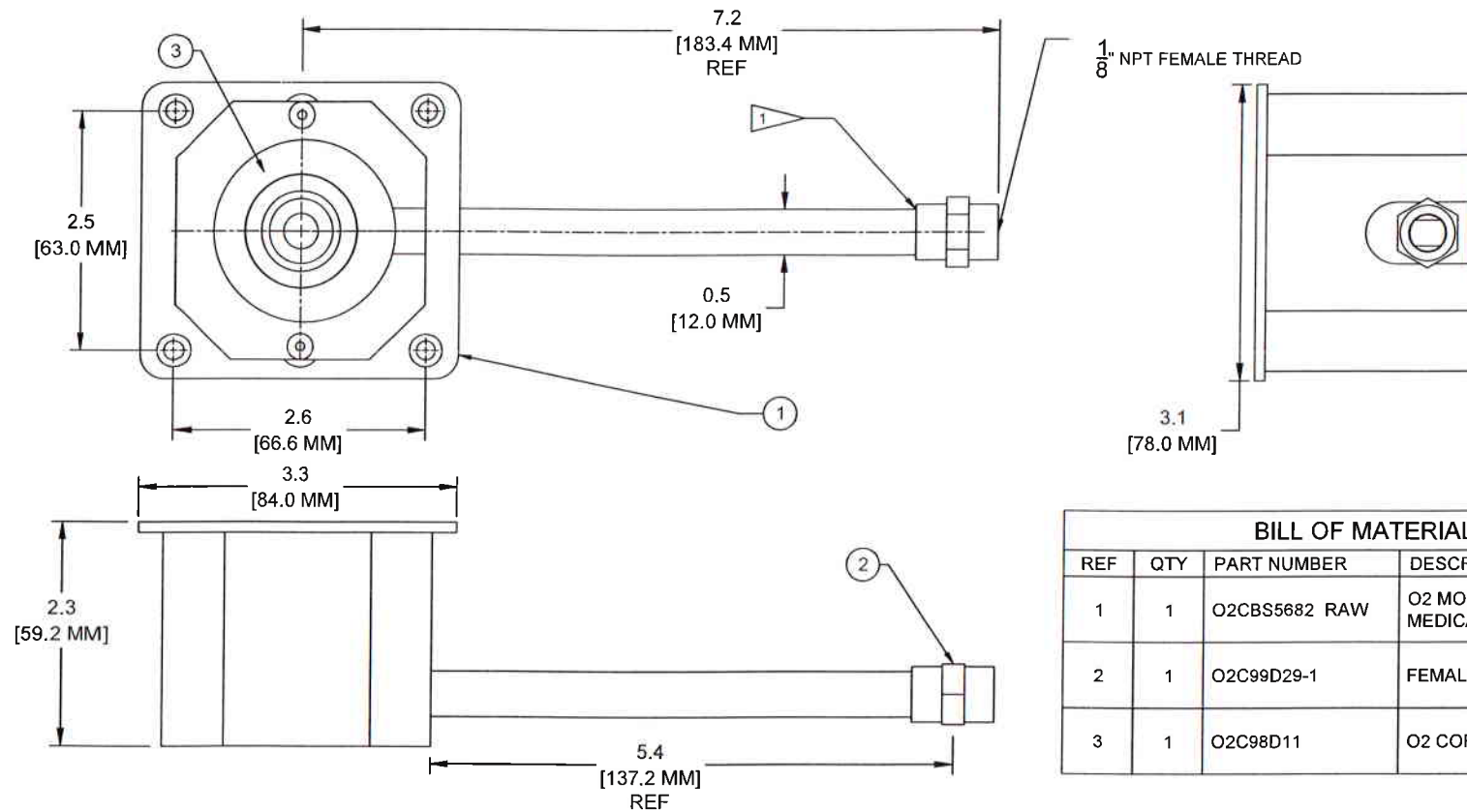
LEAKAGE:
BUBBLE FREE UNDER OPERATING CONDITIONS
WITH OR WITHOUT MATING COUPLING ENGAGED

▶ SOLDER WITH BAG 7 BRAZING ALLOY OR EQUIVALENT PER
QQ-B-654 OR AWS A5.8

ORIGINAL

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED



AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	1	O2CBS5682 RAW	O2 MODIFIED MEDICAL OUTLET RAW
2	1	O2C99D29-1	FEMALE 1/8" NPT FITTING
3	1	O2C98D11	O2 CORP LABEL

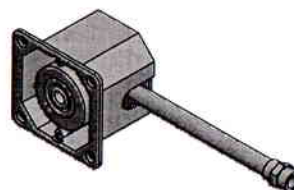
SAMPLE CALLOUT: O2C41T01-BS5682

BASE P/N

BRITISH STANDARD

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DRAWN BY: ZPM	DATE: 20 DEC 2023
APPROVED: <i>[Signature]</i>	DATE: 1-2-2024
TOLERANCE	DECIMAL XX ± 01
EXCEPT AS	XXX ± 005
NOTED	ANGULAR ± 1/2°



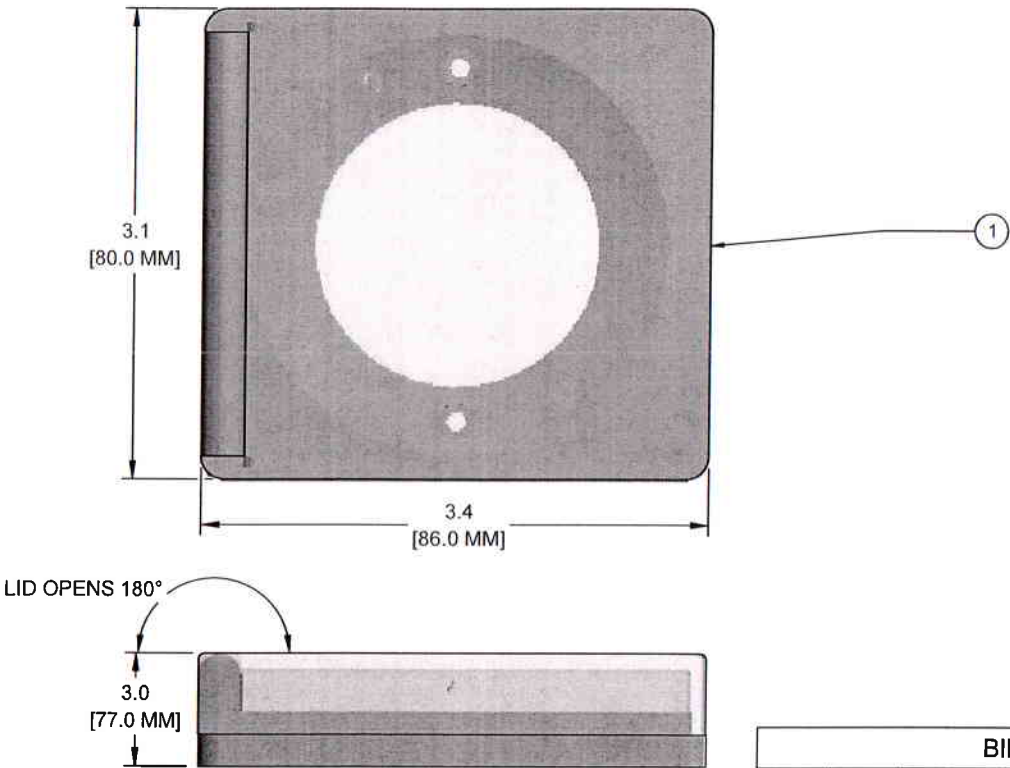
NAME	BRITISH STANDARD BS5682 FEMALE 1/8" NPT MEDICAL OUTLET WITH LID
DWG NO:	O2C41T01-BS5682
PAPER SIZE	ANSI C
SHEET 1 OF 2	REV NC

NOTES:

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
------	-------------	------	----------

ORIGINAL



AR-AS REQUIRED
NS-NOT SHOWN

BILL OF MATERIALS

REF	QTY	PART NUMBER	DESCRIPTION
1	1	DUST CAP	LID FOR OUTLET

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OR USED FOR ANY DESIGN OR MANUFACTURE EXCEPT
WHEN SUCH USER POSSESSES DIRECT, WRITTEN
AUTHORIZATION FROM O2 CORPORATION.



DRAWN BY: ZPM	DATE: 20 DEC 2023		NAME BRITISH STANDARD BS5682 MEDICAL OUTLET WITH LID FEMALE 1/8" NPT
APPROVED: 	DATE: 1-2-2024		DWG NO: O2C41T01-BS5682
TOLERANCE EXCEPT AS NOTED	DECIMAL XX ±.01 XXX ±.005 ANGULAR ± 1/2 °		PAPER SIZE ANSI C SHEET 2 OF 2 REV NC