Emergency Oxygen Supply Connection

SPECIFICATION

Specification Information

The Emergency Oxygen Supply Connection (EOSC) provides an inlet for connecting a temporary auxiliary source to the oxygen pipeline system for emergency or maintenance situations as required by National Fire Protection Association (NFPA) 99. The inlet consists of either a 1" (25mm) ball valve, with 1/2" and 1" National Pipe Thread Female (NPTF) connections or a 2" (50mm) ball valve, with 1-1/2" and 2" NPTF connections and a pressure gauge housed in a weather-tight enclosure. The front of the enclosure will be permanently labeled "Emergency Oxygen Supply Connection" for easy identification and provided with a padlock staple to prevent unauthorized access.

Two enclosures are available: The recessed mount enclosure is provided with a tubing extension directly out of the rear of the enclosure. The Surface Mount enclosure is provided with the tubing extension from the right side of the enclosure. Both enclosures are 14-gauge, cold rolled steel with a gray white polyester powder coat finish.

The Emergency Oxygen Supply Connection is to be connected per NFPA 99. For the piping schematic and dimensions see pages 2 and 3. Check valves are available to complete the installation as required by NFPA 99. For check valve product details, see BeaconMedaes specification sheets SSB-810-03 and SSB-810-02.

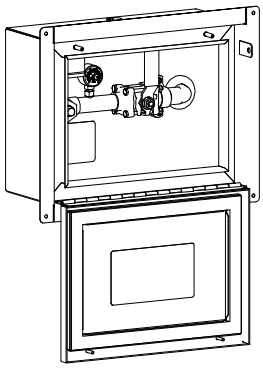
Relief valves are pre-set at 75 psi (517 kPa). The relief valve is a brass body, single-seat design, cleaned for oxygen use. It automatically re-seats to provide a bubble-tight seal after operation.

A terminal block is mounted within each enclosure that includes four sets of alarm contacts with a plastic cover. Wire the alarm contacts to the master alarm in accordance with NFPA 99. When not in use, each alarm contact inlcudes a jumper to keep the circuit closed, preventing the alarms from activating. A label within the enclosure allows for writing out each alarm signal to be monitored.

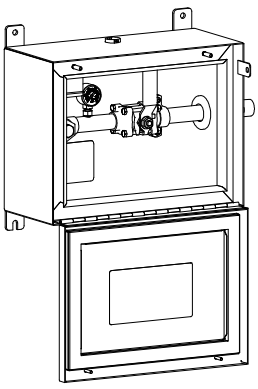
Features

- Powder-coated steel, weather-tight enclosure with padlock staple to prevent unauthorized access.
- 1/2" NPTF and 1" NPTF inlets (1" valve models) or 1-1/2" NPTF and 2" NPTF inlets (2" valve models).
- Entire valve assembly cleaned and capped for oxygen service.
- Recessed and Surface Mounted models available.
- Terminal strip with 4 alarm points and plastic cover.

Recessed Mount



Surface Mount



Ordering Information

Emergency Oxygen Supply Connection	
Product Number	**Description**
☐ 140434-00	1" Recessed EOSC with 1/2" and 1" NPT oxygen inlets
☐ 140435-00	1" Surface Mount EOSC with 1/2" and 1" NPT oxygen inlets
☐ 140436-00	2" Recessed EOSC with 1-1/2" and 2" NPT oxygen inlets
☐ 140437-00	2" Surface Mount EOSC with 1-1/2" and 2" NPT oxygen inlets

Relief Valves	
Product Number	**Description**
☐ 230399-01	3/4" NPT 75 psig (517 kPa) Relief Valve
☐ 230399-00	1" NPT 75 psig (517 kPa) Relief Valve

Check Valve with Extensions		
Product Number	**Check Valve Size**	**Overall Length (inches)**
☐ 211402-00	1"	15.72
☐ 211403-00	1-1/4"	16.06
☐ 211404-00	1-1/2"	16.45
☐ 211405-00	2"	17.18
☐ 211406-00	2-1/2"	18.10
☐ 211407-00	3"	22.76
☐ 211408-00	4"	24.56

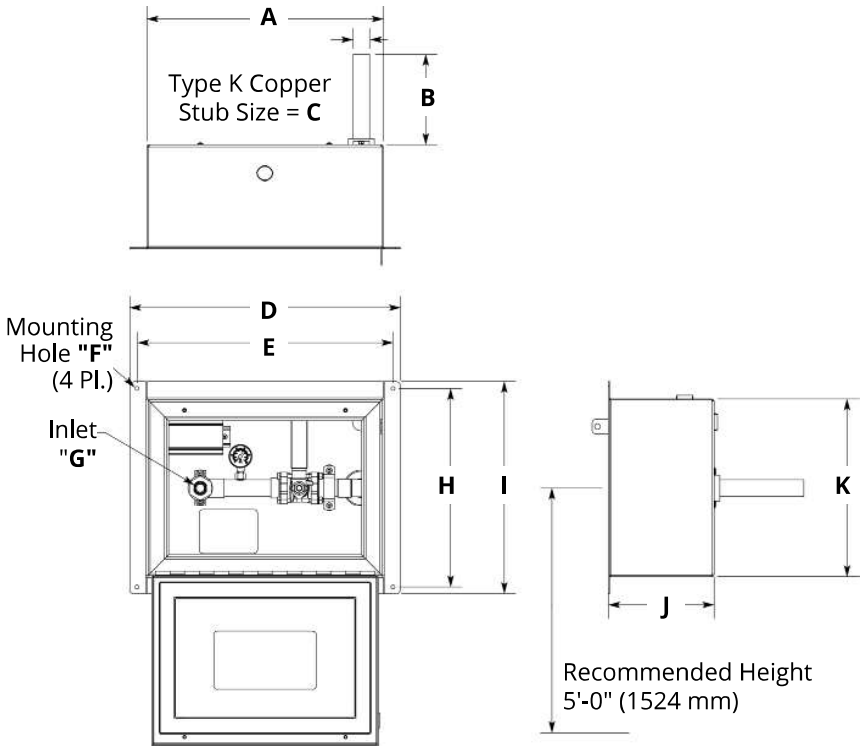
Note: A padlock is not provided. It is recommended that the padlock be keyed identically to the lock used on the gate of the bulk oxygen park. This would expedite entry in the event of an emergency.

Check Valve Threaded (No Extensions)			
Product Number	**Check Valve Size**	**Length (inches)**	**Outside Diameter (Inches)**
☐ 230389-00	1"	3.50	1.93
☐ 230774-00	1-1/4"	4.18	2.38
☐ 230390-00	1-1/2"	4.93	2.81
☐ 230396-00	2"	6.00	3.68
☐ 230775-00	2-1/2"	7.00	4.50
☐ 230776-00	3"	8.12	5.31

NFPA 99 Note on Threaded Check Valves: Check valves with threads are not used in systems compliant with NFPA 99, but may be permitted under other standards.

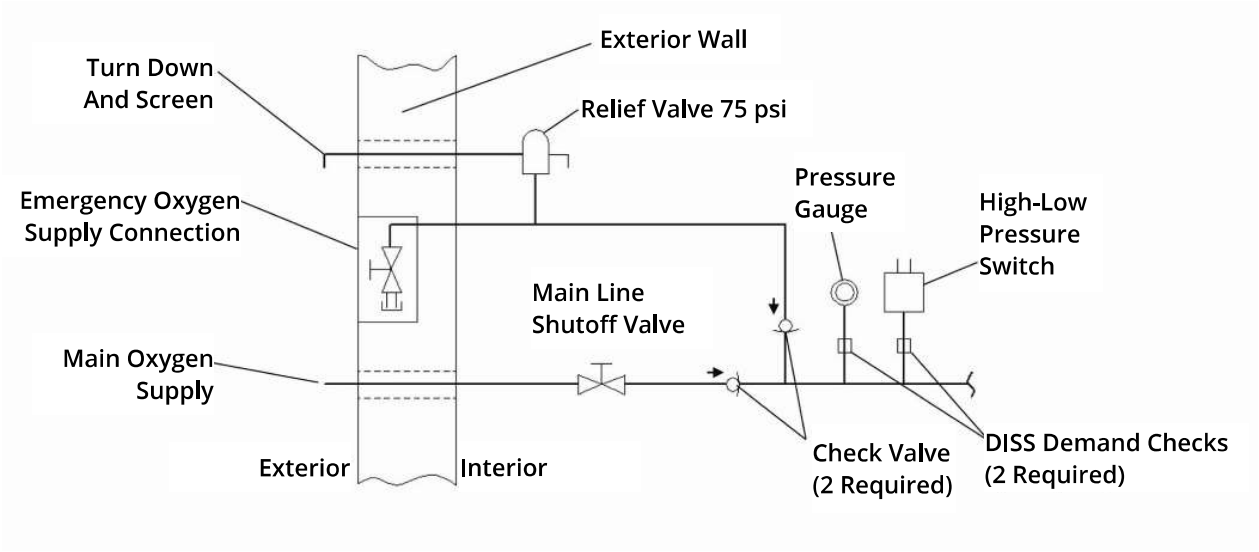
Recessed Mount Emergency Oxygen Supply Connection

Refer to the figures below and table to the right for box dimensions and piping schematic.



	140434-00	140436-00
A	16-5/32" (410 mm)	26-5/32" (664 mm)
B	9-1/2" (241 mm)	8" (203 mm)
C	1" Nominal	2" Nominal
D	18-1/2" (470 mm)	28-1/2" (724 mm)
E	17-1/2" (445 mm)	27" (686 mm)
F	Ø 1/4"	Ø .397"
G	Plugged 1/2" NPTF and 1" NPTF Inlet	Plugged 1-1/2" NPTF and 2" NPTF Inlet
H	13-9/16" (344 mm)	17-1/16" (433 mm)
I	14-1/2" (368 mm)	18-1/2" (470 mm)
J	7-1/4" (181 mm)	8" (203 mm)
K	12-5/32" (309 mm)	16-5/32" (410 mm)
Weight	28.25 lbs.	64 lbs.

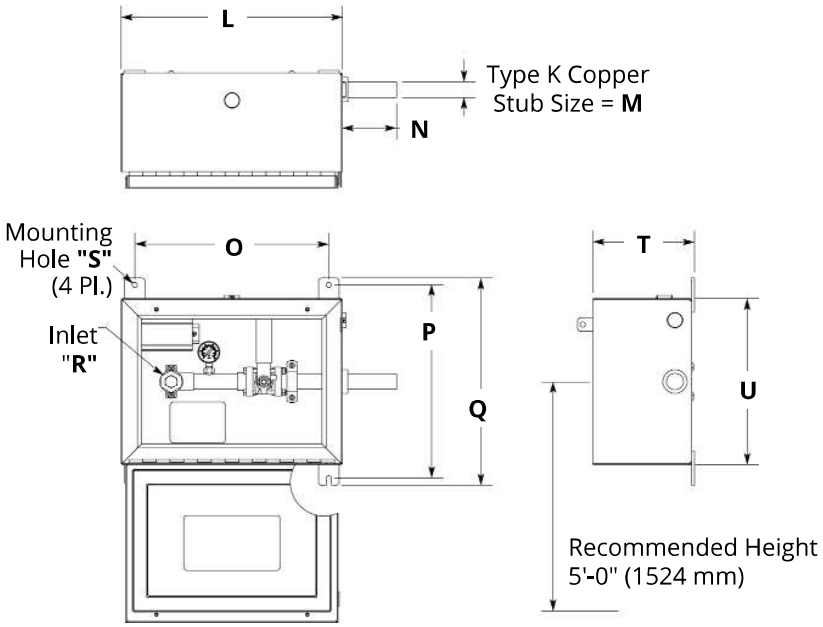
Recessed Mount Application (per NFPA 99)



Piping Schematic (Recess Mount)

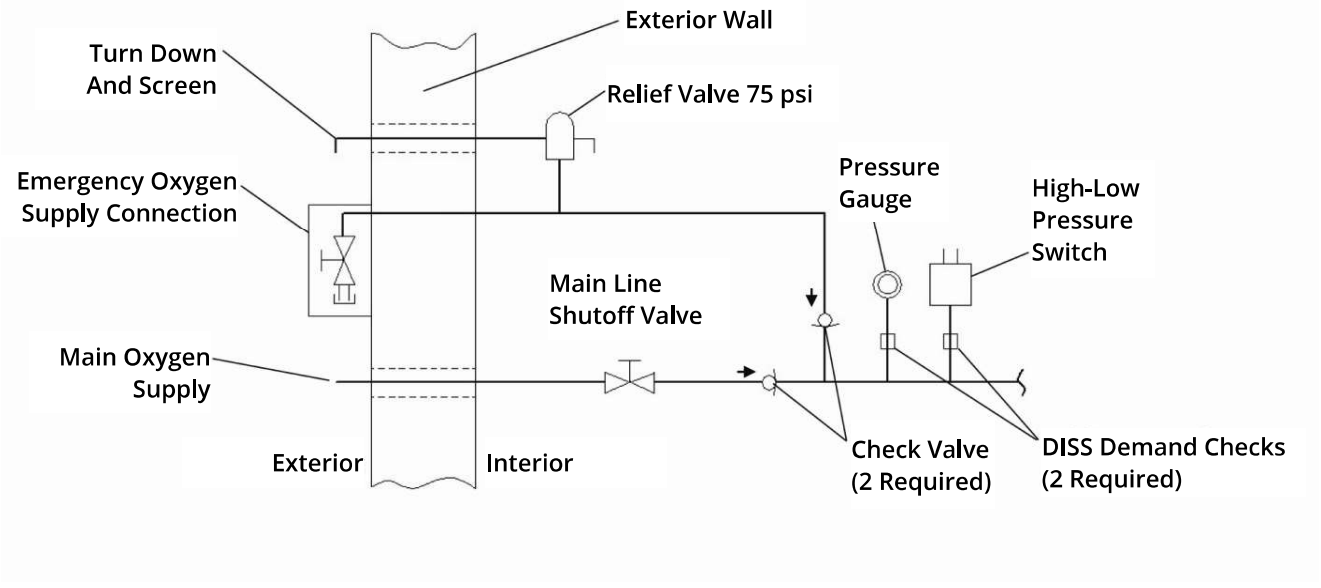
Surface Mount Emergency Oxygen Supply Connection

Refer to the figures below and table to the right for box dimensions and piping schematic.



	140435-00	140437-00
L	16-5/32" (410 mm)	26" (660 mm)
M	1" Nominal	2" Nominal
N	4" (102 mm)	8" (203 mm)
O	14-7/16" (367 mm)	24" (610 mm)
P	14-5/32" (360 mm)	18-5/32" (461 mm)
Q	15-5/32" (385 mm)	19-5/32" (486 mm)
R	Plugged 1/2" NPTF and 1" NPTF Inlet	Plugged 1-1/2" NPTF and 2" NPTF Inlet
S	Ø .397"	Ø .397"
T	7-13/64" (183 mm)	8" (203 mm)
U	12-5/32" (309 mm)	16-5/32" (410 mm)
Weight	27.5 lbs.	63 lbs.

Surface Mount Application (per NFPA 99)

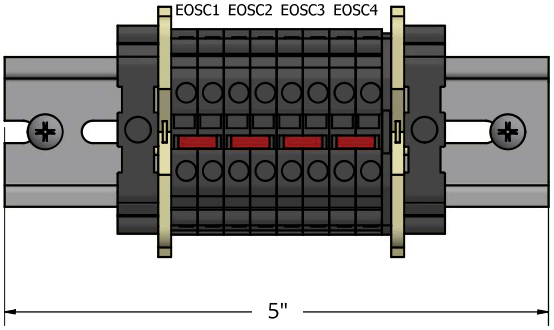


Piping Schematic (Surface Mount)

Emergency Oxygen Supply Connection - Retrofit

The EOSC Terminal Strip retrofit kit is designed for installation in existing EOSC enclosures, allowing for easy alarm wiring from the EOSC to the master alarm.

EOSC Retrofit Kit	
Product Number	**Description**
☐ 4107402240	Kit includes terminal strip with (4) alarm points, mounting bracket, (4) jumpers, plastic cover, (2) mouting screws, and alarm identification label



Terminal Strip with Mounting Bracket

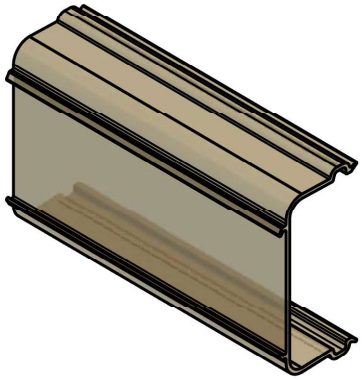
Installing alarm wiring from temporary Oxygen supply

Note: Disconnect master alarm wiring at the alarm prior to making any connections from the Temporary Oxygen Supply. This will allow installation of the Temporary Supply alarm signals without power at the terminal block.

1. Remove clear cover from terminal block assembly.
2. Remove red jumper where wires from temporary supply will be connected to the terminal block. Store in a secure place for future use.
3. Connect alarm wires from the external source to the terminal block.
4. Reset disconnected alarms at the master alarm.
5. Write alarm names in the lines below.

EOSC 1 _____ **EOSC 2** _____ **EOSC 3** _____ **EOSC 4** _____

Alarm Identification Decal



Plastic Cover

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