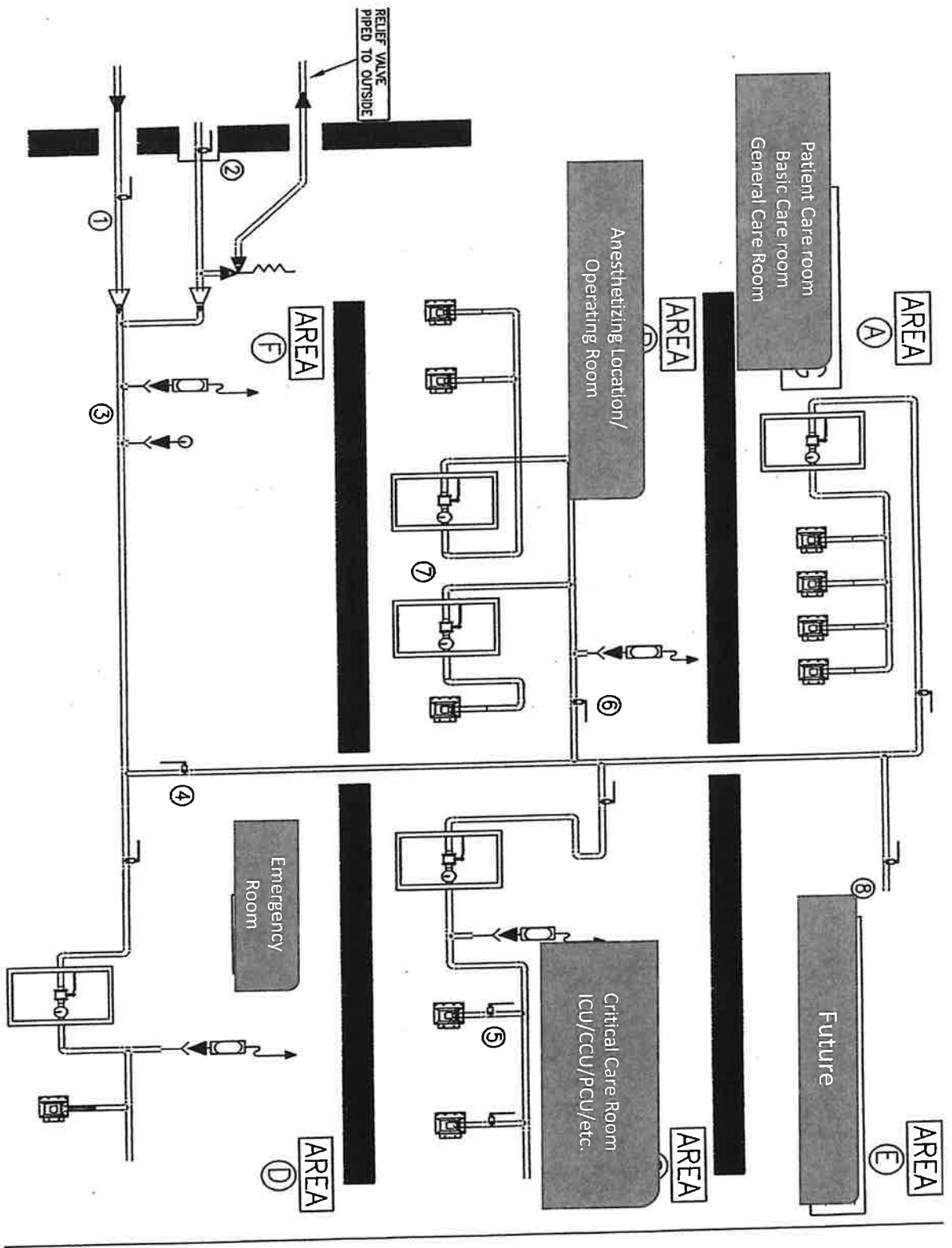


Detail 12
Medical Air Intake Location

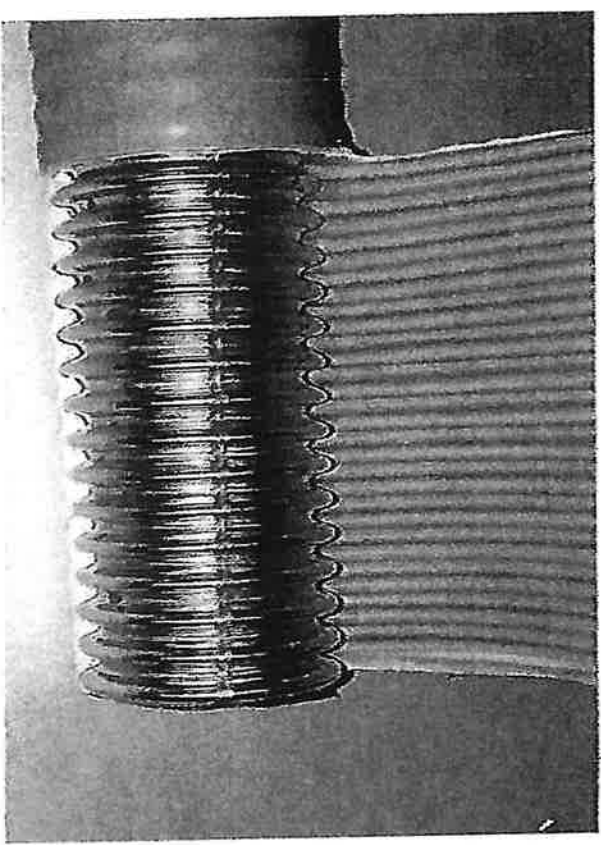


Corrugated Medical Tubing

CMT

5.1.10.1.6

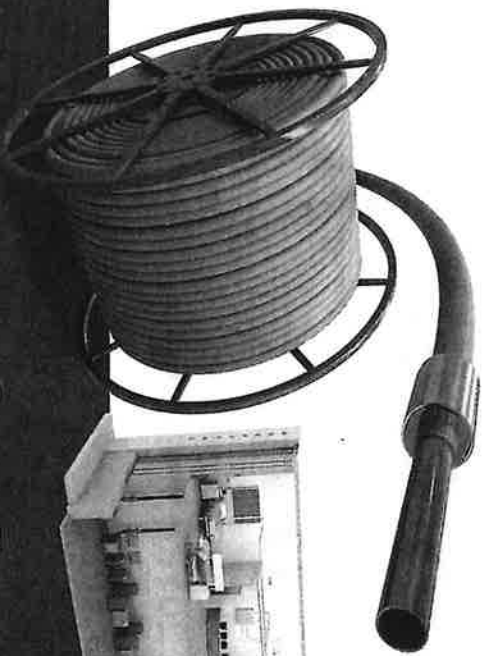
pg. 50



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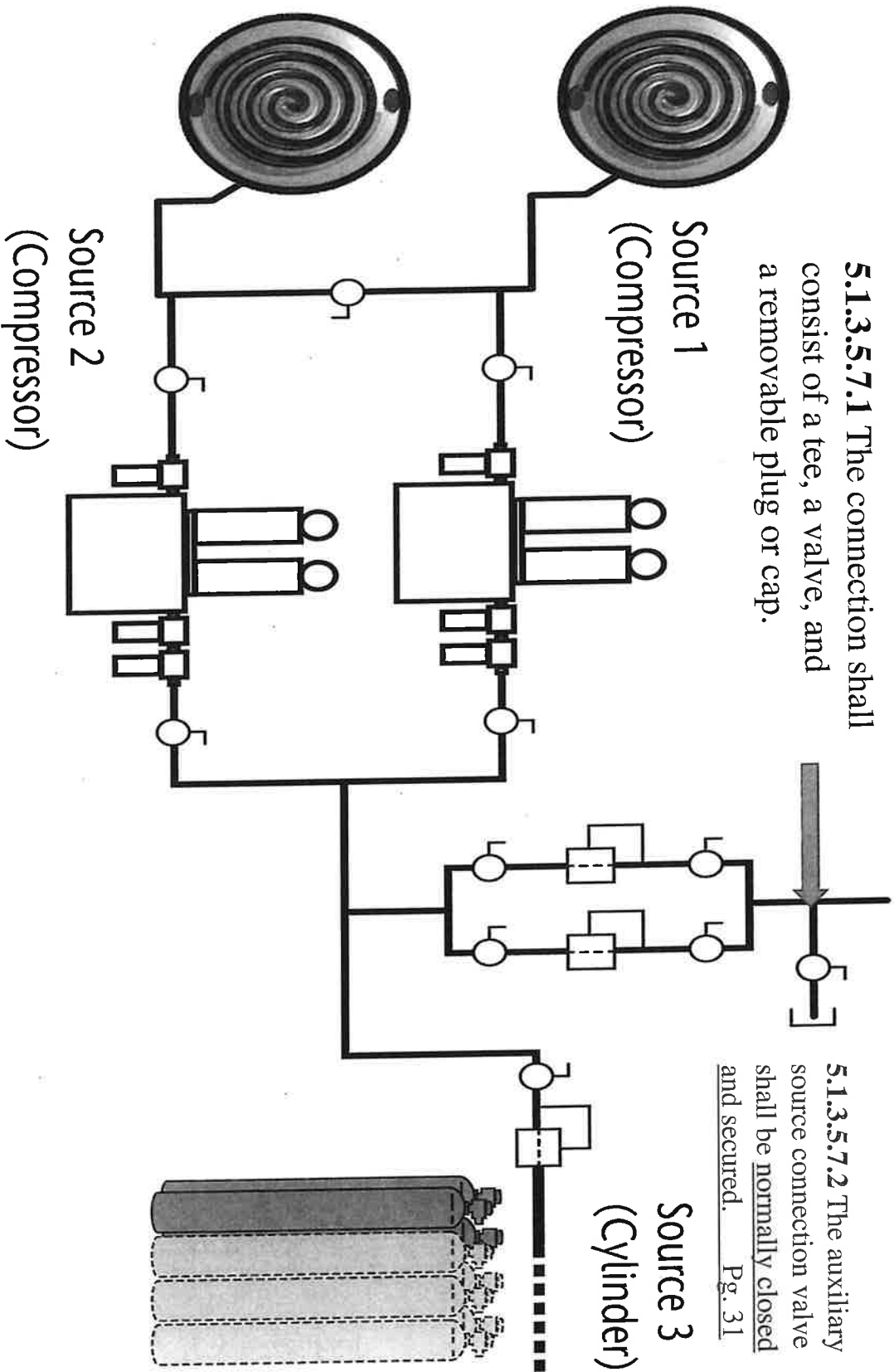
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5.1.3.5.7.1 The connection shall consist of a tee, a valve, and a removable plug or cap.



5.1.3.5.7.2 The auxiliary source connection valve shall be normally closed and secured. Pg. 31

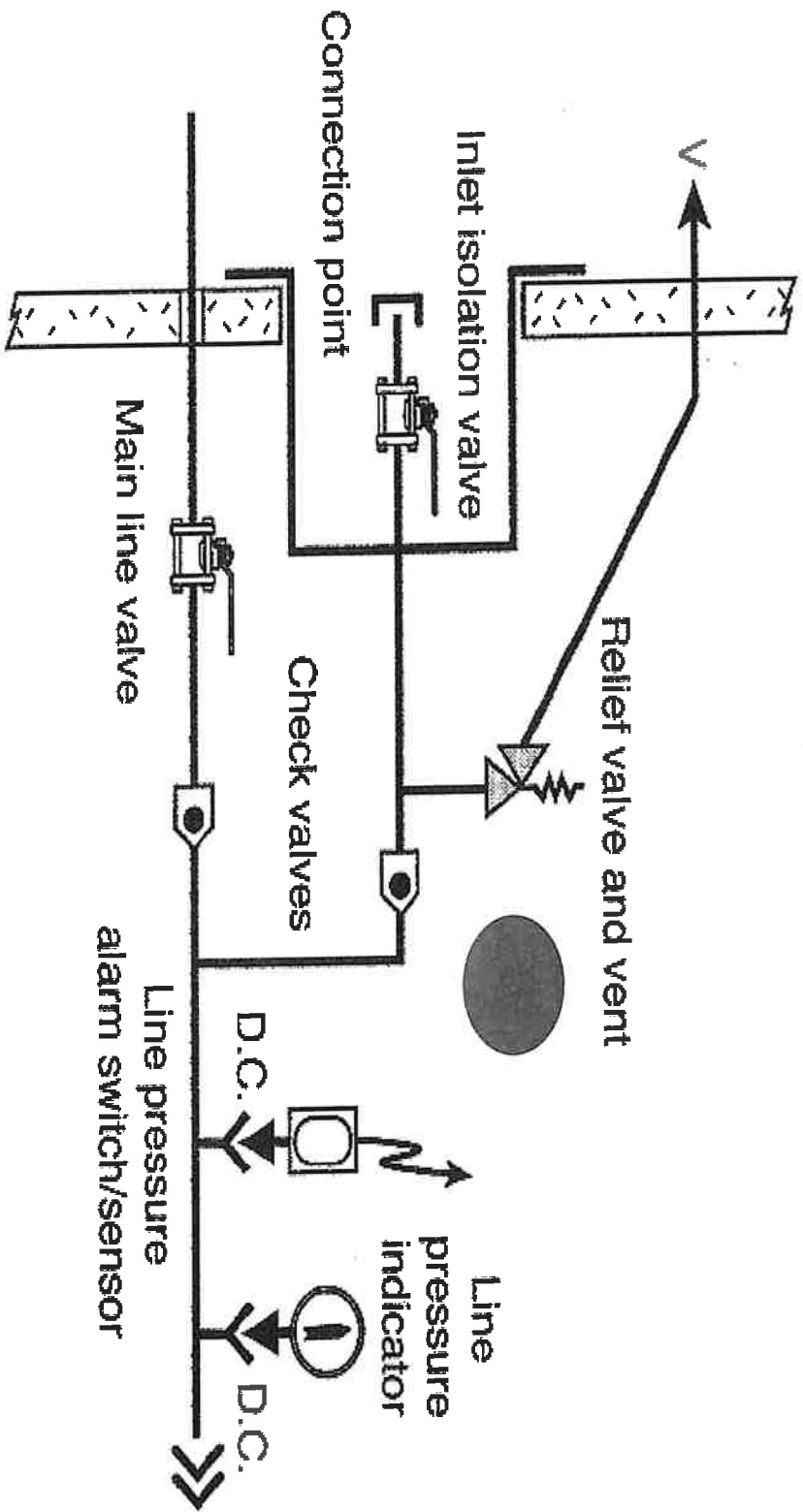
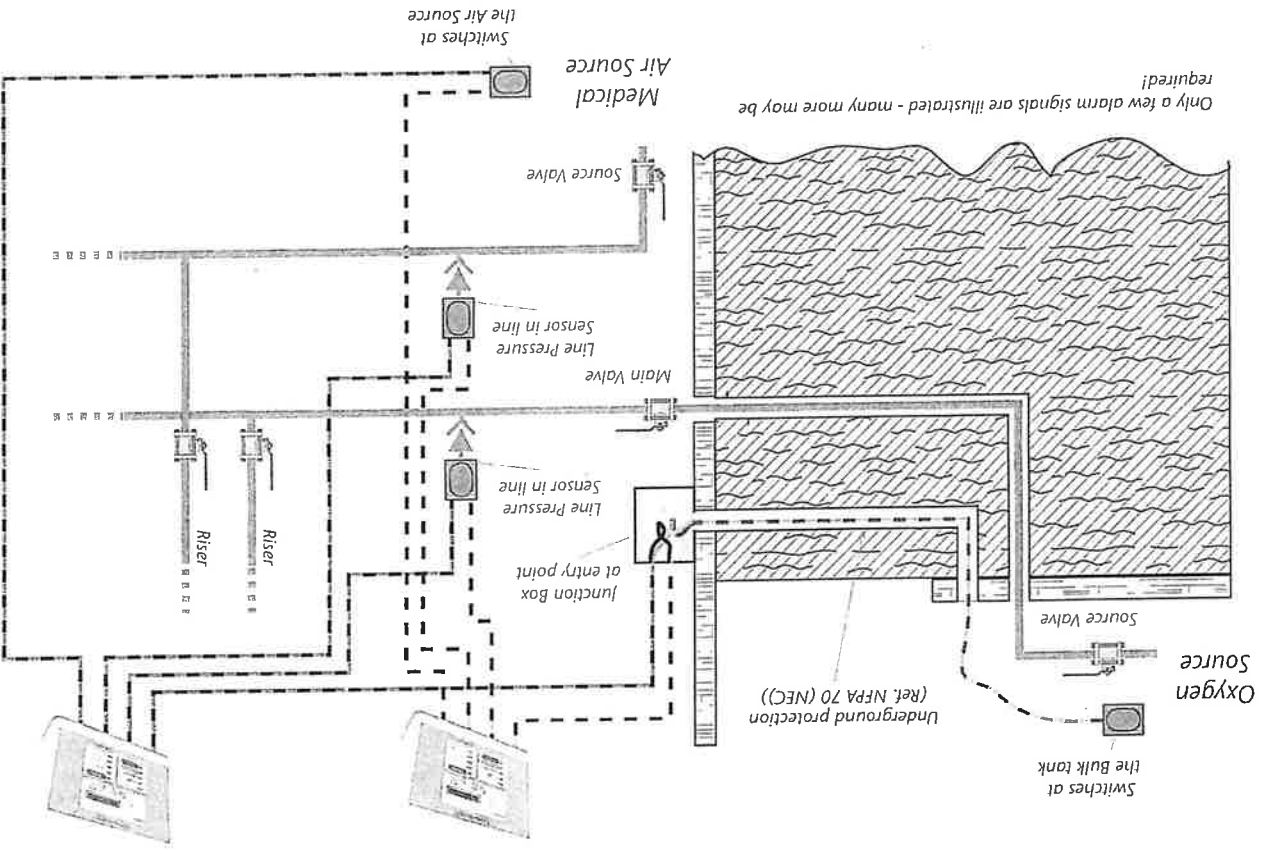


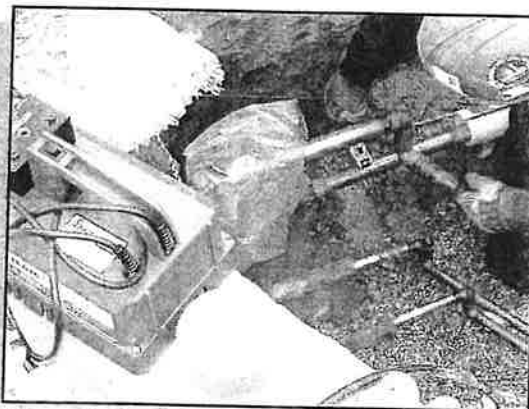
FIGURE A.5.1.3.5.13 Emergency Oxygen Supply Connection.



Detail 16
5.1.9.2.3.6 Wiring Allowance

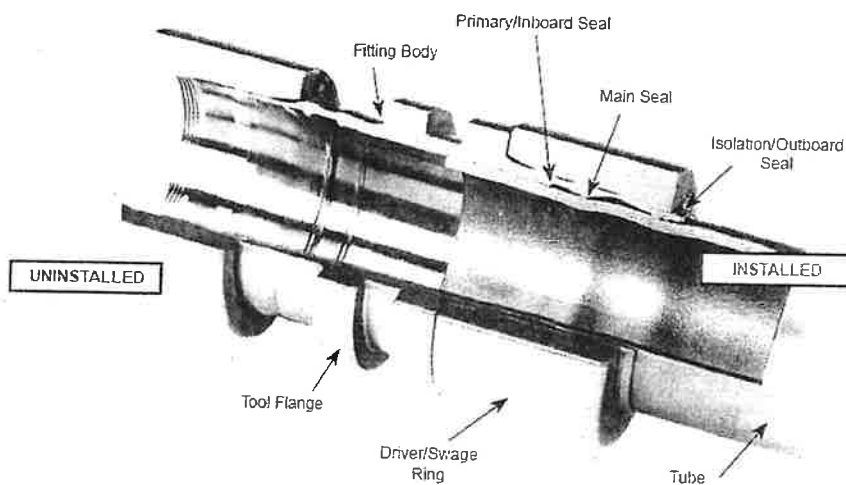
Advantages of LOKRING Fittings

- No brazing necessary
- No nitrogen NF purge required
- No danger of particulate formation
- No danger of melting or burning of ambient materials in the area (such as adjacent wiring and pneumatic lines)
- No burn permits needed
- No fire brigade standby necessary
- No shutdown of smoke or fire sensors in the area
- No cooling of brazed joints -- immediate usage following leak test
- Minimal patient disruption
- Special configurations available



This outside installation used LOKRING couplings to connect existing medical gas lines to new lines for hospital expansion. This installation included 3/4" size for nitrogen and nitrous oxide. The oxygen line was 1/2" size on Type L copper. The total installation time for the three fittings was 20 minutes.

LOKRING's ESP® (Elastic Strain Preload) Technology



The leak-free seal is the result of LOKRING's ESP installation where the axial movement of the LOKRING driver over the body swages the body onto the tube's surface. This compresses the tube wall first elastically and then plastically.

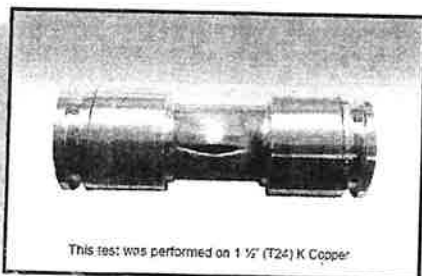
The tube wall resists this swaging action, generating high unit compressive loads at the contact points between narrow sealing lands inside the fitting body and the tube surface.

These contact stresses are sufficiently high to plastically yield the tube surface under the sealing lands, forming a 360° circumferential, permanent, metal-to-metal seal between the tube and fitting body.

The driver, which experiences a small increase in diameter (elastic strain) during installation, exerts an elastic, radial preload on the metallic seals for the life of the connection.

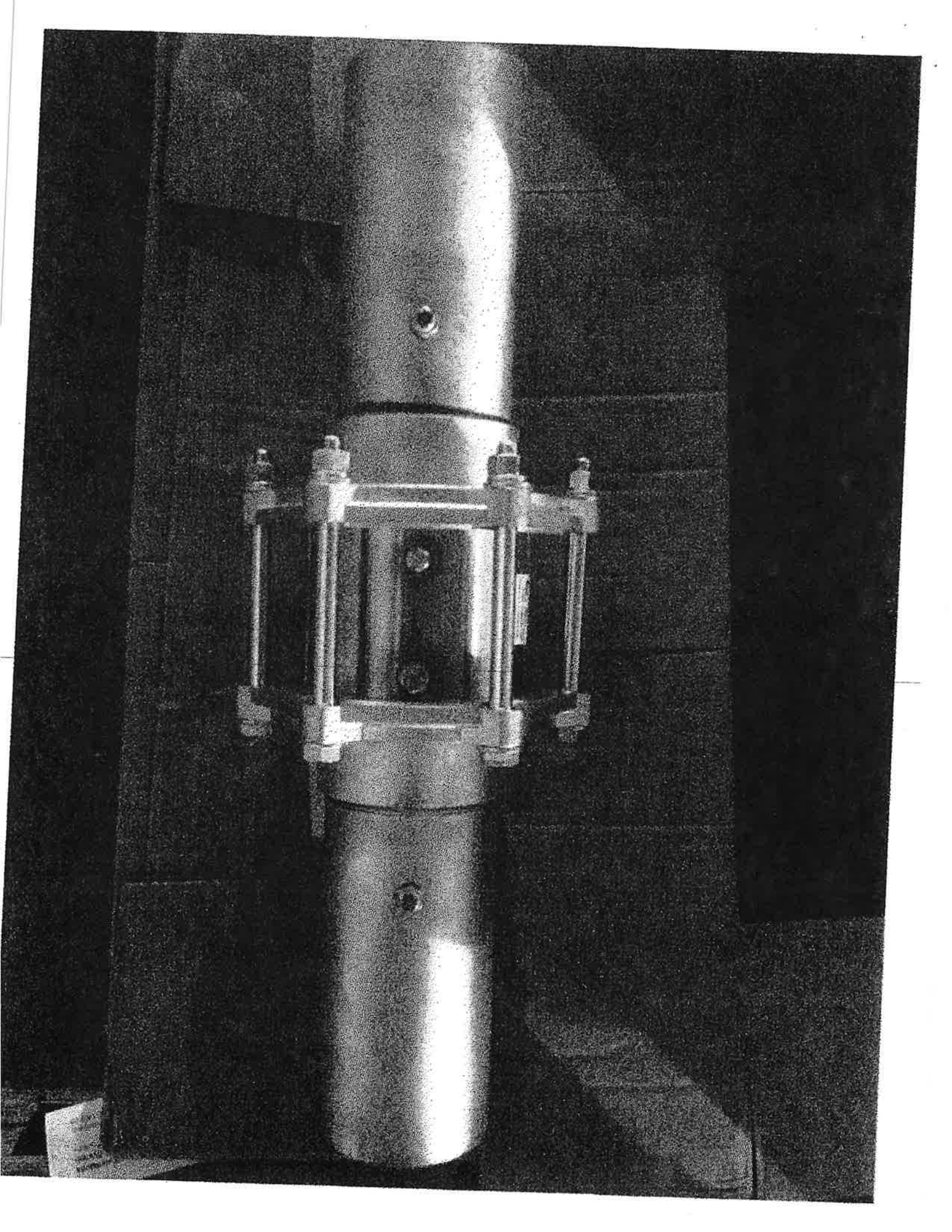
Pressure Testing

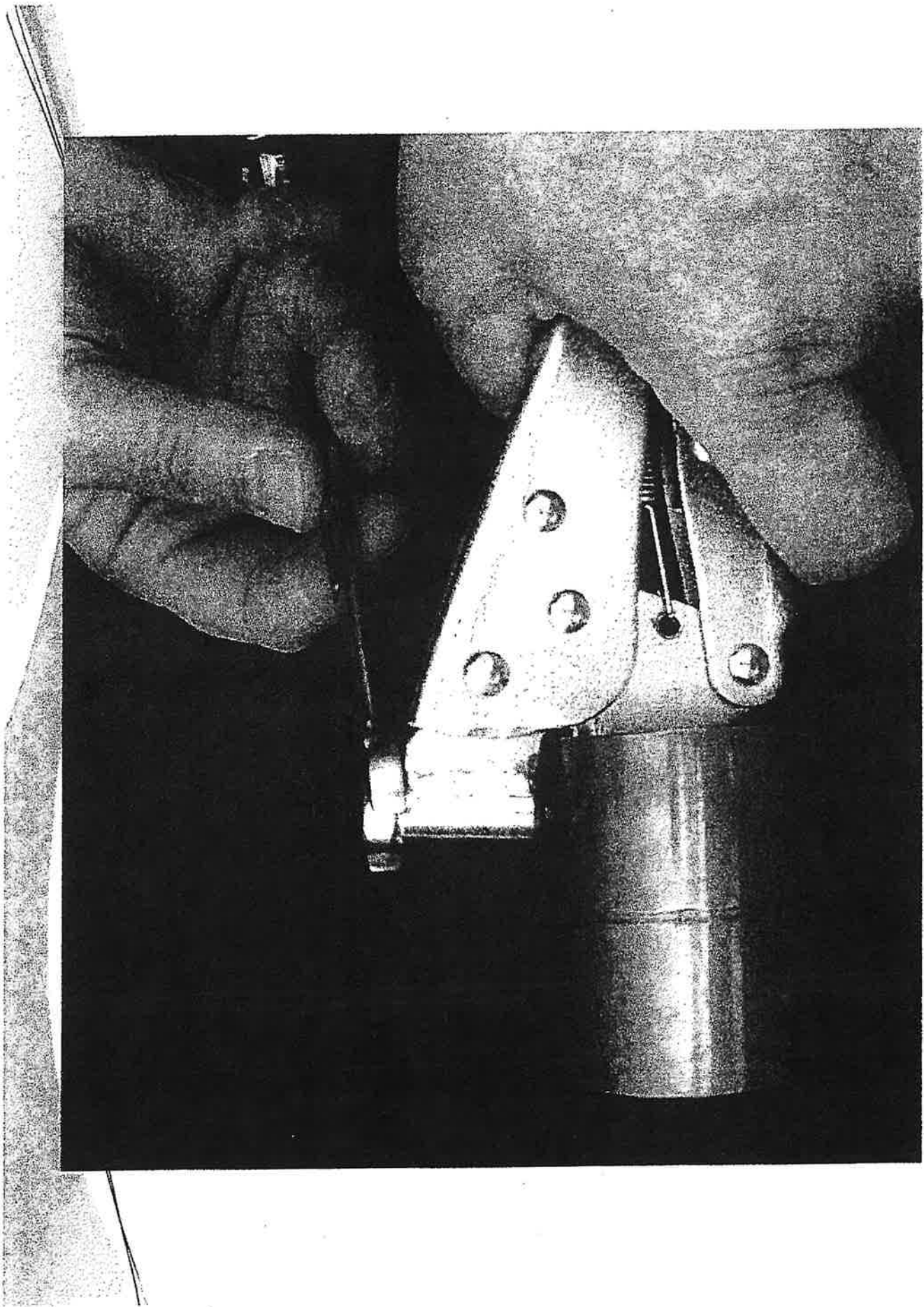
This test was performed on 1 1/2" Type K copper tubing. As shown, the copper tubing burst at 3200 psi while the fitting remained intact.



Nominal Fitting Size (TXX)	Tube OD	Qualified Wall Thickness K		Qualified Wall Thickness L		Qualified Wall Thickness M	
		Wall	Pressure Rating (PSI)	Wall	Pressure Rating (PSI)	Wall	Pressure Rating (PSI)
3/8" (T06)	0.500	0.049	1946	0.035	1341	0.025	982
1/2" (T08)	0.625	0.049	1534	0.040	1242	0.028	850
5/8" (T10)	0.750	0.049	1266	0.042	1086	-	-
3/4" (T12)	0.875	0.065	1466	0.045	1002	0.032	701
1" (T16)	1.125	0.065	1126	0.050	850	0.035	580
1 1/4" (T20)	1.375	0.065	914	0.055	755	0.042	582
1 1/2" (T24)	1.625	0.072	850	0.060	702	0.049	569
2" (T32)	2.125	0.083	747	0.070	625	0.058	514

Pressure rating should be derated at elevated temperature. Fittings meet 1000°F integrity test. See specification FS-BR for details. Temperature rating -425°F to 400°F





Installation Instructions

Definition of Statements

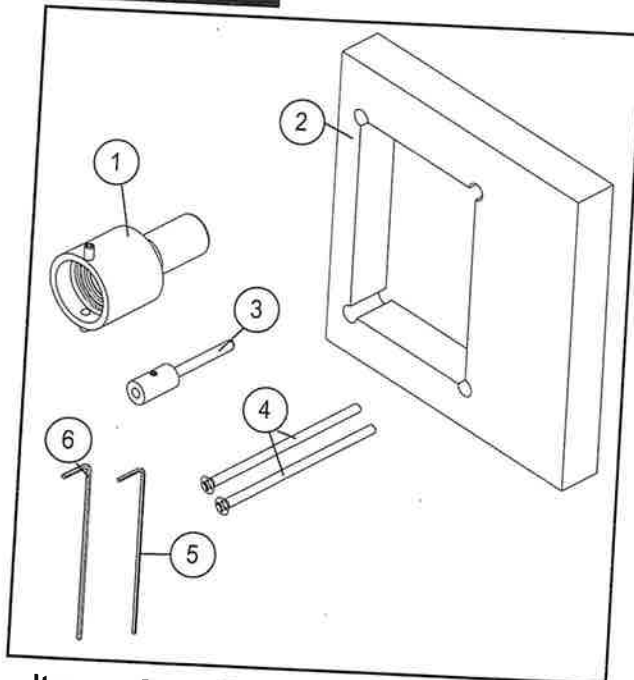
Statements in these instructions preceded by the following words are of special significance.

⚠ WARNING: Means there is a possibility of injury or death to yourself or others.

⚠ CAUTION: Means there is a possibility of damage to unit or other property.

NOTE: Indicates points of particular interest for more efficient and convenient operation.

Kit Contents



<u>Item</u>	<u>Qty:</u>	<u>Description:</u>
1	1	Extension adapter with seal and set screws
2	1	5/8" Stand-off
3	1	Indexing pin extension with set screw
4	2	#6-32 x 3", pan head screw
5	1	.050" hex key wrench
6	1	1/16" hex key wrench

Required Tools

Tape Measure or Ruler
Philips Type Screw Driver

Installation

Step 1: Initial Preparation

Measure wall depth from outlet rough-in to finished wall surface (Figure 1).

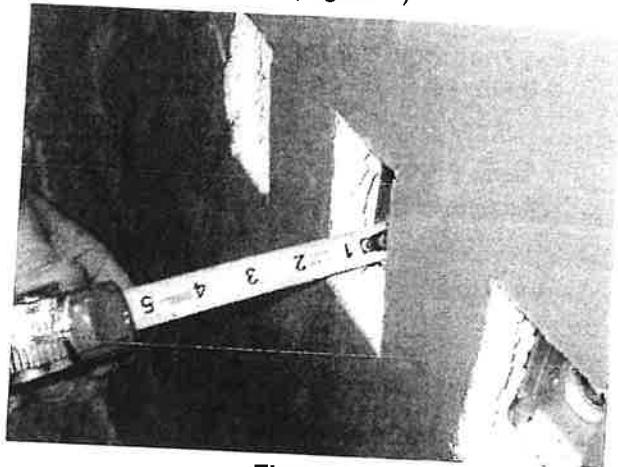


Figure 1

- If wall depth is between 1-1/4" and 1-3/4", 5/8" stand-off will be required for proper installation.
- If wall depth is over 1-3/4" discard stand-off.

Remove existing #6-32 x 1-7/8" screws from frontbody.