NOTE: Parts are no longer available for this tool.

The manual will continue on the next page.

PARTS LIST FOR NO. 1654A 3/4" AIR REGULATOR

Form No. Z238
Date 3/93

CAUTION

EXCEPT as otherwise specified by manufacturer this product is specifically designed for compressed air service and use with any other fluid (liquid or gas) is a misapplication. For example use with or injection of certain hazardous liquids or gasses in the system (such as alcohol or liquid petroleum gas) could be harmful to the unit or result in a combustible condition or hazardous external leakage. Manufacturer's warranties are void in the event of misapplication and manufacturer assumes no responsibility for any resulting loss.

The relief flow capacity of relieving type regulators is limited. Under some operating conditions the secondary (outlet) pressure could increase above the initial setting. If over-pressure conditions could cause malfunction or failure of downstream equipment, additional external pressure relief devices of suitable capacity must be installed.

Before using with fluids other than air for non-industrial application, or for life support, systems consult manufacturer for written approval.

INSTALLATION

1. Install as close as possible to where regulated air is needed. In systems with a cyclic demand, the regulator should be located upstream of cycling device.
2. Install the unit with the air flowing through the body in the direction indicated by the arrow.
3. System piping should be same pipe size as regulator porting. Avoid using fittings, couplings, etc., that restrict the airflow, unless maximum flow is not needed.
4. Gauge ports (1/4") are provided in either side of the regulator body for installation of a gauge or use as an additional outlet port. Plug unused port(s).
5. Panel mount regulators require a 1 1/8" (47,6 mm) diameter hole and are mountable on panels from 1/8" (3 mm) to 1/2" (12 mm) thick.

OPERATION

1. Maximum inlet pressure and operating temperature ratings are 300 psig (21 bar) and 175°F (79°C).
2. Before turning on the supply air pressure, turn the adjusting knob counterclockwise until there is no load on the regulating spring. Turn on the supply air pressure and then turn the adjusting knob clockwise until the desired secondary pressure is reached. When making a change in pressure setting, always approach the desired pressure from a lower one. When reducing from a higher to a lower setting, first reduce to some pressure less than that desired and then increase to the desired pressure.

MAINTENANCE

1. The regulator can be disassembled for servicing without removal from line.
2. TO DISASSEMBLE-shut off air to regulator and vent air line on both sides of regulator. Turn adjusting knob counterclockwise to relieve compression on spring. Remove knob, cover cap, screws, cover spring, and spring disc. Diaphragm assembly can now be removed. By removing bottom plug and spring the valve can be removed from the bottom of the regulator.
3. Occasionally remove bottom plug and clean plug, body and valve seat (vent air line on both sides of regulator).
4. IF UNIT WILL NOT REGULATE TO PRESSURE NEEDED OR IF PRESSURE BECOMES EXCESSIVE-remove bottom plug, spring, and valve assembly. Clean and check O-ring, valve stem, and valve seat for wear or damage. Replace worn or damaged parts.
5. IF UNIT LEAKS AT RELIEF PORT, install repair kit.
6. TO REPLACE O-RING-This O-ring is above a metal washer which cannot be removed. Using a pointed probe of some kind, pull O-ring out. Force new O-ring through washer hole into O-ring cavity.

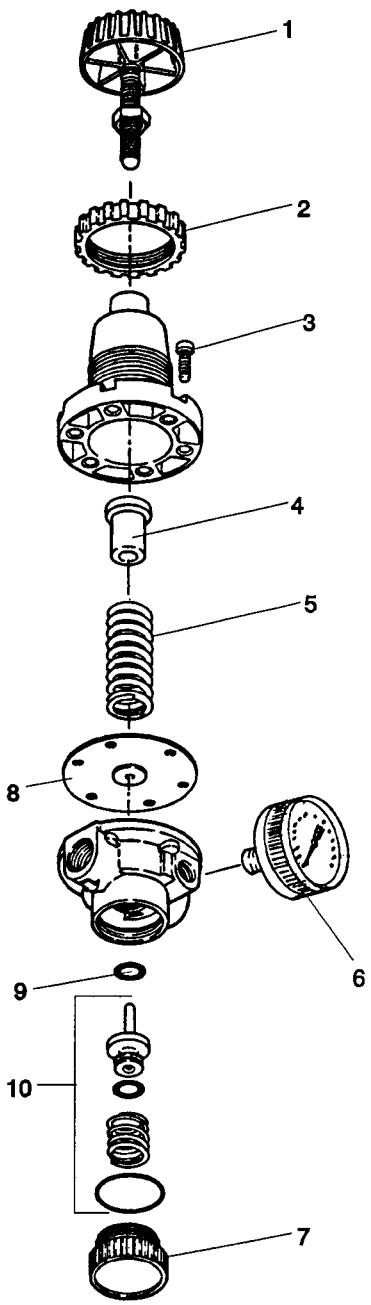

Fig. No.	Part No.	Name
1.	00237	Ass'y—Ajusting knob
2.	00229	Panel Mount Nut
3.	07587	Screw—12-24 X 5/8 (6)*
4.	00166	Spring Disk
5.	00167	Spring—High Pressure
6.	00121	0-160 PSIG Pressure Gauge
7.	00176	Bottom Plug
8.	00168	Diaphragm Kit
9.	14308	O-Ring
10.	65784	Ass'y—Valve
	65785	Repair Kit (Includes Fig. No.s 8, 9, & 10)

*Order Quantity As Needed

SIOUX TOOLS INC.

2901 FLOYD BOULEVARD ■ PO BOX 507 ■ SIOUX CITY, IOWA 51102-0507 ■

Furnish Catalog And Serial Number When Ordering Parts

Printed in U.S.A.

This pdf incorporates the following model numbers:

1654A