

**SANITARY SIGHT FLOW INDICATORS
AND WINDOWS**
**TRU-SAN[®] 6000, 7000 AND UNI-SAN[®]
6500**

**INSTALLATION
OPERATING &
MAINTENANCE
INSTRUCTIONS**

Section:	T500
Bulletin:	T500.2
Date:	08/01/96
Supersedes:	T900.2

STORAGE and HANDLING

Jacoby-Tarbox Sanitary Sight Flow Indicators and Windows meet or exceed all applicable specifications when they are shipped from the factory. Each sight flow indicator and window has been hydrostatically proof tested at one and one half (1-1/2) times the rated working pressure to endure proper operation when installed.

All units should be inspected upon receipt to ensure that no damage has been incurred during transit. If there has been, a claim should be filed with the carrier immediately. Units should be stored in an area protected from the elements and corrosive fumes, in a secure manner where they can neither fall, nor be struck by other objects. Care should be taken to protect the windows and the end connections from damage. Avoid placing any objects directly on the window(s) at any time.

INSTALLATION

CAUTION: All sight flow indicators are electrochemically etched with the maximum service conditions for that particular unit. This information should be reviewed prior to installation and again prior to start-up, to ensure proper operation in the system. Should there be any doubt as to the applicability of a unit for operation in a system under its various service conditions, consult the factory before placing the unit into service.

Units should be checked to ensure that they contain no foreign matter, and that the

end connections are clean, undamaged, and in line with adjoining piping. Examine each window carefully using a flashlight, for any indications of chips, scratches, blemishes or cloudiness. If any type of flaw is apparent, the unit should not be installed until the window has been replaced. (See “Replacing Gaskets”)

Units and windows may be installed in accordance and in the same manner as the process piping, taking care not to damage or scratch the connection surfaces. Follow the torquing recommendations given by the gasket and piping manufacturers to achieve proper sealing pressures.

OPERATION

CAUTION: Prior to start-up, the information on the sight flow indicator or window should be compared to the proposed service conditions of the system. Should there be any doubt as to the applicability of a unit for operation in a system under its various service conditions, consult the factory before placing the unit into service.

Seal gaskets frequently assume a compression-set over a period of time. Some materials, however, may compression-relieve or creep. Visually inspect the gaskets for gaps or looseness before start-up. If the gaskets are not compressed, adjust the unit gasket compression. (See “Replacing Gaskets”)

CAUTION: Do not tighten any fasteners or clamps while the unit is in operation.

Examine the window(s) carefully using a flashlight, for any indications of chips, scratches, blemishes or cloudiness. If any type of flaw is apparent, start-up should be delayed until the glass has been replaced. (See “Replacing Gaskets”)

ROUTINE MAINTENANCE

Periodic visual inspection should be made to ensure that no leaks are evident, and that there is no clouding, scratching, or blemishing of the windows.

Keep windows clean using commercial glass cleaners, such as Windex® or similar. Cleaning must be done without removing window from the assembly. Never use harsh abrasives, wire brushes, metal scrapers, or any material that could scratch the window. DO NOT attempt to clean the windows while the unit is in operation.

To examine the window(s) for scratches, shine a very bright light (a powerful flashlight will suffice) through the windows at a 45° angle. Anything that glistens brightly needs to be examined more closely. Any scratch that glistens and can be felt with a fingernail or any star-shaped or crescent-shaped mark that glistens is cause for replacement. If the inner surface appears cloudy or roughened and will not respond to cleaning procedures, this is evidence of chemical attack, and is cause for replacement.

Should leaking around the window occur, first check the window for damage. If the window appears to be in good condition, the gasket seal should be checked, but only after the system pressure has been brought down to zero. If the gasket appears to be loose, hardly compressed, the spacers must be adjusted. If the leak persists after

repressurizing, disassemble and replace the gaskets. (See “Replacing Gaskets”)

A. Replacing Gaskets: TRU-SAN 6000 & UNI-SAN 6500

Before gaskets and/or windows can be replaced, the system pressure must be brought down to zero.

Loosen the window clamps and remove. Do not place the unit with the window resting on a hard surface. Place a soft cloth on the work surface prior to placing the unit on the work surface if the unit will rest on the window. Remove the window and gasket.

The gasket groove on the body and the window must be cleaned before reassembling the unit. After cleaning, a new gasket should be placed in the gasket groove of the body, and then the window should be placed onto the gasket so the gasket rests in the gasket groove of the window. Replace the clamp, and hand tighten.

IMPORTANT: Inspect the sanitary O-ring gasket groove of the body and the window. Make sure no scratches, pits, or grooves exist either on the body or the window surface.

IMPORTANT: Use of non-factory specified materials **will** void all warranties associated with the units.

B. Replacing Gaskets: TRU-SAN 7000

Before gaskets and/or window can be replaced, the system pressure must be brought down to zero.

Remove the three fasteners from **one head only**. Remove the head, gasket, window, and second gasket if replacing the gaskets or the window. Note: Be careful not to touch the spacers because they may turn very easily. Remove only the head and skip the next the next paragraph if adjusting the unit.

Clean the gasket grooves on the heads and the window before replacing a removable window module. After cleaning, place a new in the gasket groove, and then place the window onto the gasket so the gasket rests in the gasket groove of the window. Place the second gasket into the gasket groove on the other end of the window, then place the head on the gasket so the gasket rests in the gasket groove of the head.

The unit is equipped with adjustable spacers. The spacers shorten when turned clockwise and lengthen when turned counter-clockwise. Set the spacers so that they appear to be 1/32" (.031) higher than the top flat of the top gasket for soft rubber gaskets.

Set the spacers so that they appear to be 1/16" (.062) higher than the top flat of the top gasket for hard gaskets such as Teflon. See Figure 1. Adjust all three spacers to the same height. If doing adjustments only, shorten the spacers evenly

by counting the number of sides rotating past the window, and repeating the number for the other two spacers.

Place fasteners on all three spacers and finger tighten. Tighten fasteners until the spacer meets the head. There is no specific sequence for tightening.

IMPORTANT: Use of non-factory specified materials **will void all warranties associated with the units.**

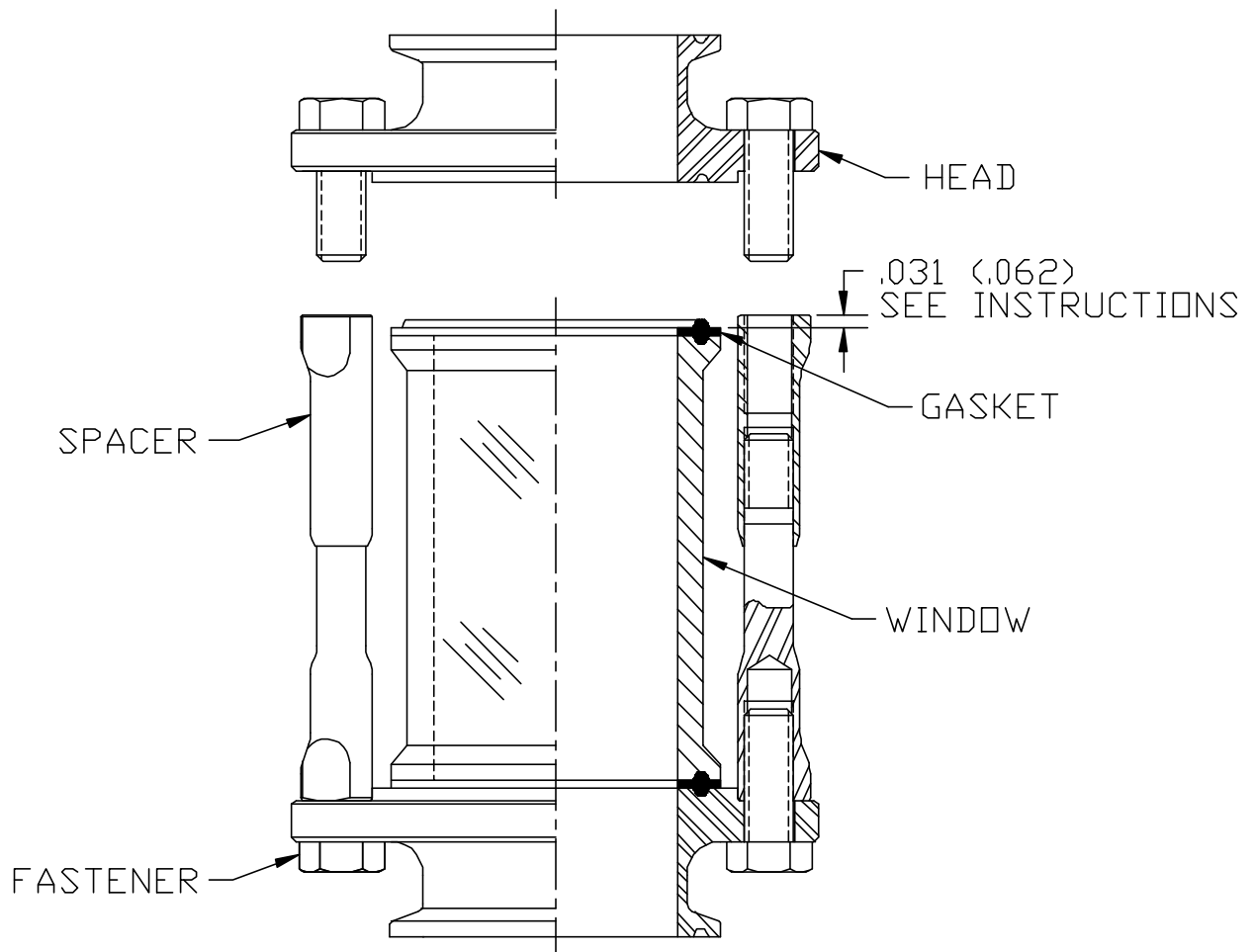


Figure 1: TRU-SAN 7000