

# MEASURE RITE® Sight Tube Assembly

1/2" NPT  
ST-1, ST-2: 3/4" Pipe Tube  
ST-3, ST-4: 1" OD Tube

# Technical Brief

## GENERAL

The *MEASURE RITE*® Sight Tube tank level indicator is mounted to the side of Badger® stainless steel ASME certified tanks that are used in admix dispenser systems. However, the unit may be utilized in other applications; if material is compatible. The tube enables the operator to visually monitor fluid level in the tanks. Tank fluid level, visible inside the transparent tube can be gauged according to graduated scales available for each tank size.

## OPERATION

To change the tube, simply remove the stop plug, slide the tube up and out of the lower fitting, then pull the tube down and out of the upper fitting. Installation of a new tube is just as simple. The task should take no more than a few minutes, including the cutting of a new tube.

The 1/4" NPT connection atop the upper fitting may be used for installing a capacitance probe inside the sight tube.

## APPLICATIONS

The clear tube enables the operator to visually monitor the fluid level in the tank. The sight tube and graduated scale measures the amount of fluid dispensed.

## FEATURES

- Provides for quick and easy tube replacement in the field
- Choice of four sight tube materials:
  - ST-1 and ST-2: Clear Schedule 80 PVC
  - ST-3 and ST-4: Polycarbonate, Acrylic and PETG (1.0" OD x .75" ID)
- Rugged design
- More compact and user friendly
- Simple construction for easy maintenance
- Side or bottom drain fitting location (in lower fitting):
  - ST-1: 3/4" Pipe Tube, 1/2" NPT Side Connection
  - ST-2: 3/4" Pipe Tube, 1/2" NPT Bottom Connection
  - ST-3: 1" OD Tube, 1/2" NPT Side Connection
  - ST-4: 1" OD Tube, 1/2" NPT Bottom Connection

## OTHER OPTIONS

- Connection accessories such as ball valves, fittings, etc.
- Electroless nickel coating with SST hardware (special order and consult factory for lead time).
- Application specific seals (special order.)



## STANDARD MATERIALS

Upper/lower fittings: B16 yellow brass  
Stop plug: B16 brass  
Loss prevention chain and screws: 300SST  
O-ring seals: Viton®, EPDM, AFLAS®, others on request  
Pipe plugs: 300SST  
Sight tube: clear PVC, polycarbonate, acrylic, PETG

## PRESSURE

When attached to our ASME tanks, this unit carries the same 100 psig at 75° F rating as the tanks. However, in other applications, this unit may be suitable for other operating conditions. Consult the factory for more information.

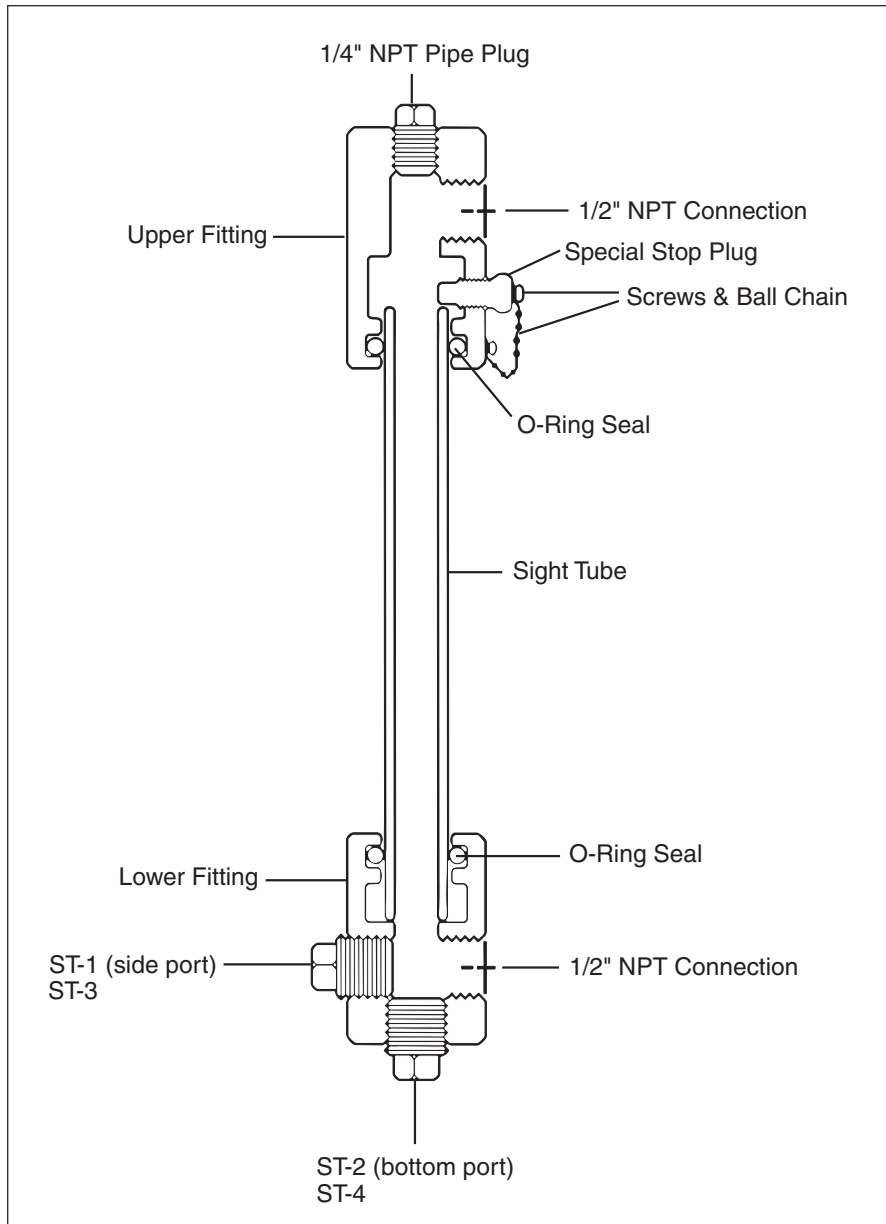
## TEMPERATURE RANGE (Non-solidifying)

- With PVC tube: +40° to +120° F (+30° if non-freezing)
- With polycarbonate tube: +20° to +120° F
- With acrylic or PETG tube: +20° to +110° F

## MOUNTING

The unit should be rigidly piped to the connecting vessel. The end fittings should not be allowed to move vertically when the unit is pressurized.





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