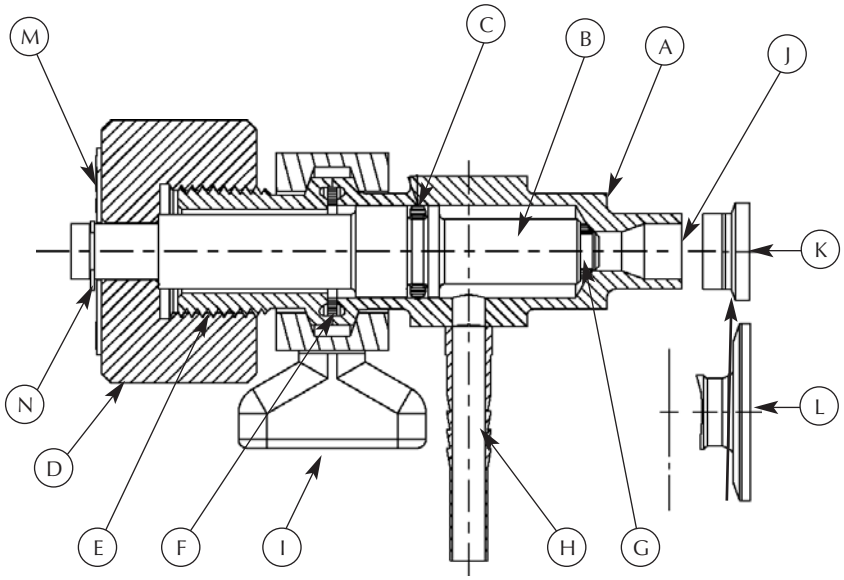
Maintenance Instructions

Rising Stem Sampling Valve

Manually-Operated

COMPONENT LIST	
Item	Description
A	Body
B	Stem
C	O-Ring
D	Knob
E	Bonnet
F	Tri Clamp® Gasket
G	Seat
H	Hose Barb End
I	Clamp
J	Buttweld (optional)
K	1/2-inch Clamp Connection (optional)
L	1-inch Clamp Connection (optional)
M	Nameplate
N	Retaining Clip



General

Flow direction through the valve is from below the stem, through the body of the valve, and out the open discharge end of the valve (swickle or hose barb end or other). The valve is not bi-directional and is not suitable for flow in the reverse direction. The valve is designed for use at liquid pressures from full vacuum to up to 100 psig (6.9 barg) and temperatures of up to 250°F (121°C). The valves are also capable of operation in saturated or superheated steam at up to 350°F (177°C).

Should it be desired to autoclave the valve, sterilization may be performed either with the valve assembled or disassembled.

Operation

1. To close the valve, rotate the knob clockwise until the valve seats.
2. To open the valve, rotate the knob counter-clockwise until the valve unseats and the desired flowrate is reached.

Installing Replacement Parts

1. Depressurize and drain the piping or tank to which the valve is conected.
2. Remove the valve from the piping.
3. Loosen and remove the clamp securing the bonnet to the body then pull the bonnet free of the body. Remove the gasket between the bonnet and body.
4. Remove the retaining clip securing the knob to the stem and remove the nameplate from atop the knob.
5. Unscrew the knob from the bonnet and remove the knob.
6. Remove the stem from the bonnet by pulling on the seat end of the stem.
7. Remove the O-ring from the stem.
8. If the seat is to be replaced, remove the seat from its groove in the stem by prying underneath the seat's back surface. Removal of the seat from the stem damages the seat, making it unsuitable for reuse.
9. Clean all metal parts. The O-ring should be inspected for damage and replaced if damage is observed. The seat is not re-usable if it has been removed from its groove on the stem. Hence, if the seat was removed a new seat should be used.
10. Install the O-ring into the groove provided on the stem.
11. Set a new seat on a horizontal surface with the angled side facing the horizontal surface.
12. Push the end of the stem into the hole in the seat until the seat sticks to the stem. The seat will not be in its groove at this time.
13. Gently push the seat towards its groove until it falls into the groove.
14. Push the stem, with seat and O-ring installed into the body until the seat bottoms on the body's seating surface.
15. Install the bonnet over the stem.
16. Install the gasket and clamp and tighten the clamp.
17. Thread the knob onto the bonnet threads until it bottoms. Then install the nameplate on top of the knob.
18. Install the retaining clip into the groove of the stem to complete the assembly.

Table 1: Replacement Parts			
Part	Part Number	Quantity	Material
If valve has a TFM seat and Viton Seals (FDA Compliant)			
Seat	S-TFA008	1	TFM
Stem O-Ring	ORVF--12---2111	1	Viton
Gasket	ACTC42MPSFYD	1	Viton
If valve has a TFM seat and Ethylene Propylene Seals (FDA Compliant)			
Seat	S-TFA008	1	TFM
Stem O-Ring	OREF--12---2111	1	EP
Gasket	ACTC42MPE-D	1	EP

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