



KANOMAX
The Ultimate Measurements

Universal Sampling Valve™

**Offers Unique Sampling Valve
for High Purity Water Applications**



Kanomax offers you the Universal Sampling Valve (USV) to sample water midstream with no risk of atmospheric contamination. Choose the connectors to fit your applications: 1/8" or 1/4" NPT threaded connectors and 1/2" or 1 3/4" sanitary connectors are available.

Secure Instrument Sampling

An important feature of the new USV is the option to use additional fittings to make an extra-secure sampling connection. Use a Galtek® retaining nut and 1/4" diameter PFA Teflon® tubing to securely attach particle counters, total organic carbon (TOC) monitors, nonvolatile residue monitors (NRMs) and other water quality monitoring instruments.

Valve Sanitization

If you leave a USV open, it is sanitized whenever your water system is sanitized. If a USV is only used intermittently, it should be sanitized before use. Use either of these methods to sanitize the USV:

- Inject either a peracetic acid/H₂O₂ solution or isopropyl alcohol into the valve with a syringe.
- Flame the valve at temperatures up to 200°C.

Grab Sampling

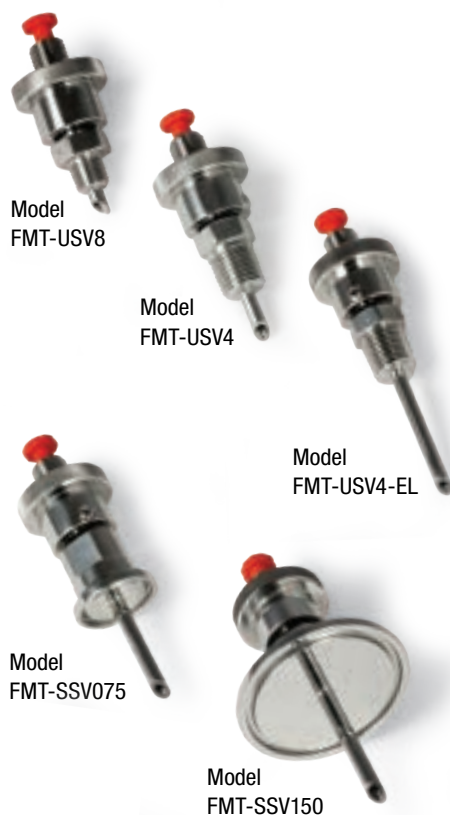
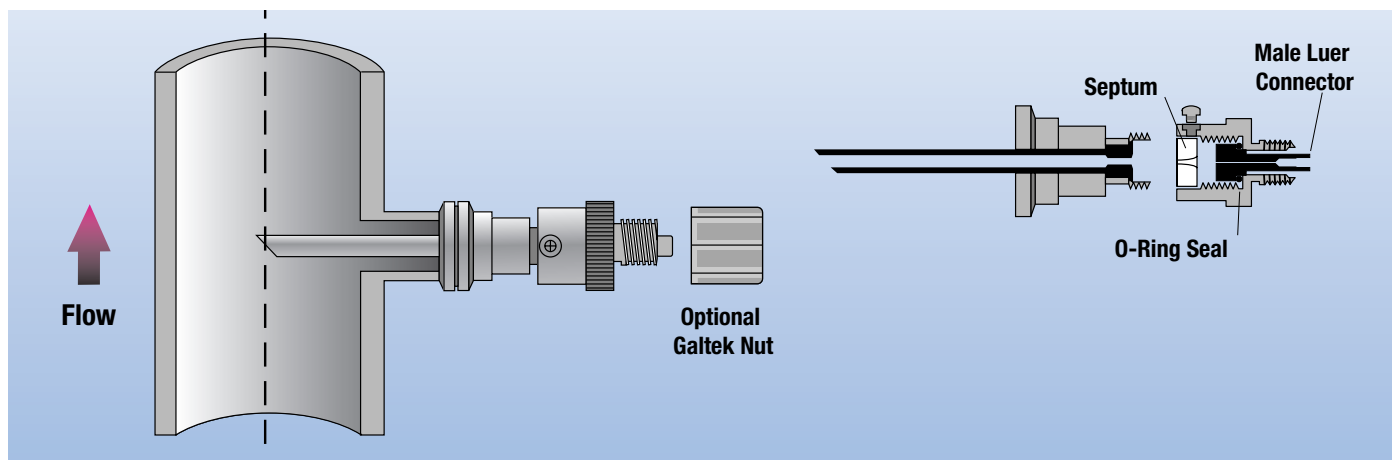
The simplest use of the USV is to take a "grab" sample in a sterile container. Simply flush the valve by opening it to its maximum setting, and then allow a sample to flow into the container.

Syringe Sampling

The USV's syringe sampling feature provides a unique way of taking a sterile sample directly from the water stream. After installing and sanitizing the valve, a sterile hypodermic needle (attached to a 60 mL syringe) can be inserted through the precision-drilled septum, and a midstream sample removed. With this method, no airborne bacteria can contaminate the sample.

Bacteria Monitor

Monitoring for bacterial contamination is another important application for the USV. The USV's male Luer® connection is designed to fit directly into the inlet port of standard bacteria culture monitors. Simply sanitize the USV, then collect and analyze the bacteria sample.



USV Specifications

- 316L stainless steel body, wetted surfaced electropolished to a minimum 25 Ra
- Teflon-coated silicone septum
- Viton O-ring, white silicone gasket
- Flowrate at 40 psi, 450mL/min
- Flowrate at 80 psi, 1000mL/min
- Maximum pressure 100 psig

Ordering Information

USV with:

- 1/8" NPT for pipe diameters up to 1 1/2"
- 1/4" NPT for pipe diameters greater than 1 1/2"
- 1/4" NPT—extra long sample inlet
- Fits 1/2"—3/4" Sanitary connection
- Fits 1"—1 1/2" Sanitary connection

Model FMT-USV8
Model FMT-USV4
Model FMT-USV4-EL
Model FMT-SSV075
Model FMT-SSV150

Options

- Sterile Hypodermic Needle
- Sterile Syringe
- Galtek Nut
- Galtek Grooving Tool
- 1/4" Teflon Tubing—10 ft.
- Rebuild Kit (includes septum, O-ring, and dust cover)
- 1/4" Teflon Tape
- Modified set screw

Model FMT-SHN
Model FMT-SY60
Model FW-FN4
Model FW-GT4
Model FMT-TFL4-10
Model FMT-USVKIT
Part Number 3006001
Part Number TK1002

Specifications subject to change without notice.

To inquire or order call: 651-762-7762



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