

# Pharmenta™ Equipment

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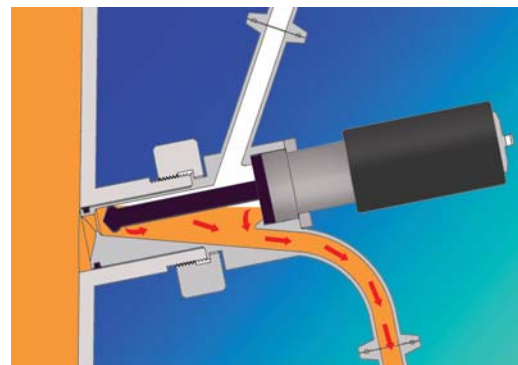


# Pharmenta™ Equipment.

*Innovative solutions for today's aseptic processing challenges.*

**Pharmenta, Inc.**

1.888.765.7838 (toll free)  
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## AptiPort® Sampling Valve

*Turn tank sensor ports into sampling ports!*

Finally! A sampling valve that fits into *and drains from* the same standardized tank portholes we've installed sensors in for years! The patented AptiPort® sampling valve is the only sampling valve in the industry that drains when installed in standard, upward-angled sensor ports.

*Easily retrofits existing tanks made during past 50 years*, including most equipment made by ABEC, Applikon, B. Braun, BioEngineering,

BioLafitte, Chemap, DCI, Lab Line, Marubishi, New Brunswick Scientific, Paul Mueller, Precision Stainless and others.

**Save time.** Easy installation means two AptiPort valves can be installed temporarily in unused sensor ports, to cut time between samples in half, or to test for process homogeneity.



**Save money.** Easily standardize overnight on a single sampling solution across an organization. Reduce costs and save time, with just one type of spare parts to inventory, one sampling procedure to learn, one validation protocol to file, one maintenance protocol to follow, and fewer sampling variables for your research and development teams to deal with, from point-to-point, site-to-site, plant-to-plant, company-to-company and year-to-year.

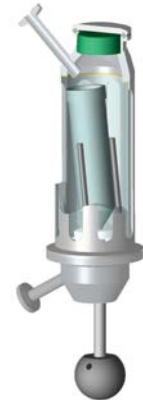
Whether updating an existing tank, or building a new skid, consider how the

Pharmenta AptiPort® sampling valve can extend the benefits of sensor standardization to your sampling activities.

### Features:

- ❑ State-of-the-art radial diaphragm valve design.
- ❑ Internal valve passages fully drain – even in upward-angled ports.
- ❑ Installs in minutes just like a sensor (pH, DO, etc.). Cutting and welding is not an issue.

- ❑ Fully CIP/SIP capable.
- ❑ Optional valve body insulation protects heat sensitive processes during sterilization.
- ❑ Sizes to fit 1" (25 mm) or 3/4" (19mm) portholes.
- ❑ Choice of actuators, diaphragm materials and connections.



## SampleSafe™ Sample Collector

*Economically capture & seal samples in sterile isolation.*

The Pharmenta SampleSafe™ collector is the ideal choice to accurately capture and seal the quality and character of your process into your samples. The SampleSafe™ collector is a simple, compact chamber that fits right onto your sample valve outlet. Its in-line CIP/SIP capability allows you to fill and seal your samples

into familiar presterilized autoclavable centrifuge tube formats while still isolated from the outside working environment.

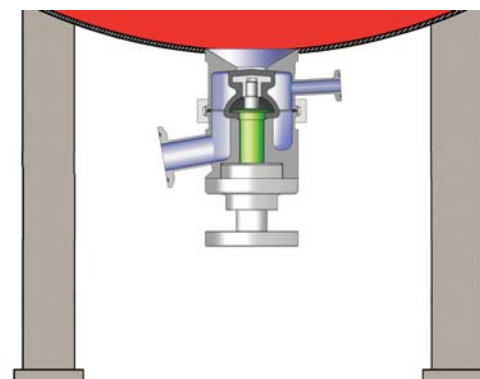
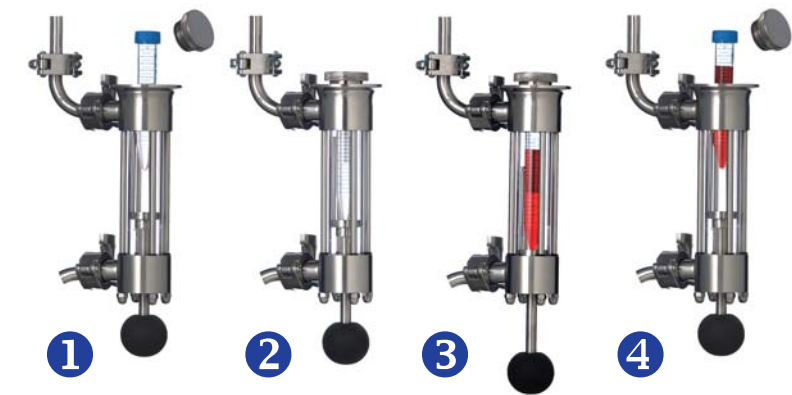
### Features:

- ❑ Simple, cost-effective way to minimize sample contamination risks.
- ❑ Clear view of filling operation means precise control of sample capture steps
- ❑ Installs in-line in minutes onto existing process equipment using standard connections.

- ❑ Works with most sample valves, including Pharmenta AptiPort® and SIPTube® valves.
- ❑ CIP/SIP at any time during the process.
- ❑ Low cost (less than \$2 per sample.)
- ❑ Uses Pharmenta's convenient 15 or 50 ml presterilized, autoclavable centrifuge tubes.

### How it works:

- 1 Insert presterilized sample tube.
- 2 Close and SIP.
- 3 Fill & seal in isolation.
- 4 Remove sealed sample.



## SumpFre™ Radial Tank Bottom Valve

*No bottom seams or crevices. No pooling area.*

Just one smooth, downward sloping solid base for complete passive drainage. Simple, but effective.

For maximum cleanability without manual intervention, Pharmenta's new radial tank bottom valve features a patented diaphragm perimeter seal that is folded under and anchored on top of a pedestal. This design eliminates the difficult-to-drain, difficult-to-flush and difficult-

to-clean sump that is found in all other diaphragm tank bottom valves as a result of mounting the diaphragm in the valve's bottom wall.

To minimize worries over batch-to-batch cross-contamination, the bottom half of the SumpFre™ valve is manufactured of a single piece of stainless steel, free of seams and seal joints. This eliminates bottom wall crevices and seal seams where material tends to build up.

In addition, the entire bottom wall is machined into a continuously declining seamless surface,

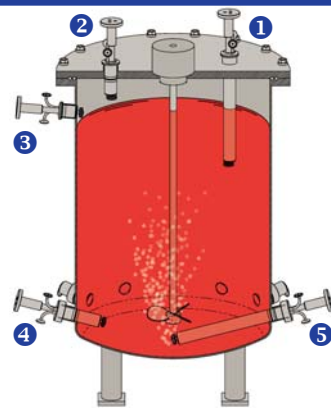


providing a built-in positive drain slope that promotes complete, unassisted tank and bottom valve drainage. The positive drain slope also extends to CIP/SIP inlets mounted to Pharmenta valves, insuring that complete passive drainability extends to the entire system.

### Features:

- ❑ Variations on body configuration available for different process applications (e.g. 90-degree, Point-of-Use.)
- ❑ Choice of sizes of sidewall CIP/SIP inlet ports.
- ❑ Optional offset inlet port placement creates vortex directed flow patterns for cleaning and sterilizing media passing through the valve chamber, enhancing CIP/SIP agent effectiveness.

- ❑ Sidewalls can be equipped with satellite cleaning and sterilizing flow control valves to eliminate valve body deadspace.
- ❑ Sizes: 1", 1.5" and 2". Other sizes to follow.
- ❑ Manual or pneumatic actuator (fail-close) with optional switch package.
- ❑ 316L Stainless Steel body; choice of finishes.
- ❑ Choice of FDA-compliant diaphragm materials.



## SIPTube® Multipurpose Valve

*One valve, five uses:*

- 1 Top-down Dip Tube Sampling
- 2 Gas Overlay/Filter Vent
- 3 Addition/Inoculation Port
- 4 Fed Batch Supply/Return Port
- 5 Gas Sparging

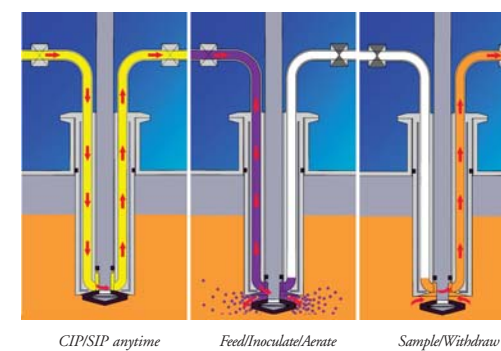
The Pharmenta SIPTube® valve can replace any of five common



High flow (left) & standard (right, shown w/ optional insulation)

traditional devices, eliminating the deadspace found in each. To eliminate deadspace, the blind passage found in traditional devices is replaced with a patented combination of (1) a valve seal positioned at the tip of the SIPTube® valve, at the process interface, and (2) an internal "U"-shaped flow path that directs flow through the valve out to and back from the tip seal.

Whereas the traditional devices that the SIPTube® replaces might start to clog and fail during a process, Pharmenta's SIPTube® can



be temporarily closed to your process while CIP and SIP flows clean and sterilize the internal pathway out to, around behind and back from the tip seal, removing any flow obstructions and restoring full flow capacity right when your process really needs it.

### Features:

- ❑ Tip-Seal™ technology: Tip-mounted seal moves the seal right up to the process, eliminating all deadspace found in traditional assemblies.
- ❑ Clean-Thru/Steam-Thru™ passage. All internal surfaces, including the tip seal, are

- along the flow path through the valve. With no quiet zones, every surface can be fully cleaned and steamed on demand.
- ❑ Optional insulation protects heat sensitive processes during steam sterilization.
- ❑ Weld-in bodies or retrofit designs to fit into existing ports as small as 1" (25mm) sensor ports.
- ❑ 2" (flush-mounting), 4", 8" and 16" process penetrating lengths.
- ❑ Choice of actuators, FDA-compliant seal materials and finishes.