

## Description:

The **GEMU Sampling System** is designed to transport sterile samples from your production areas to lab or QA/QVC locations without exposure to contamination. The complete sampling path is easily sterilized prior to taking the sample.

## Sterile Sampling System

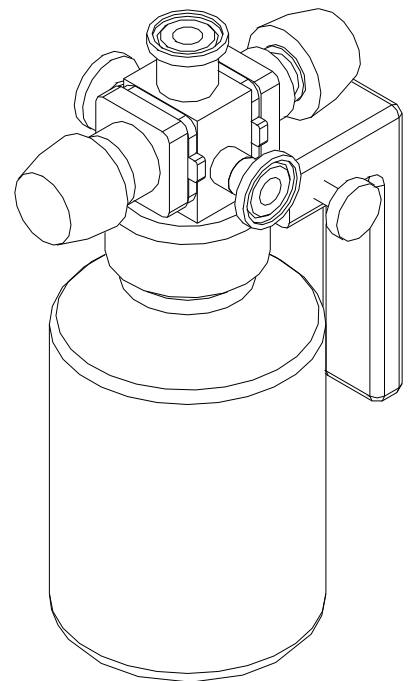
Manually operated

## Benefits & Features

- Valve body is machined from a variety of materials: 316L, Hastelloy, AL6XN
- The one piece design eliminates the use of a secondary transition piece between the body and bottle. This saves space and reduces the number of connections and possible areas of contamination.
- The compact design incorporates both a product sampling and steam bleed path.
- Lightweight
- Removable handle for autoclaving
- Smallest valve chamber available on the market reducing product hold up and waste
- Standard clamp connections
- Maximum temperature - 285°F (limit of the filling container)
- Variety of bottle sizes available - 100 to 1000 ml
- Standard GL 45 bottle thread connection

## Typical Applications

- Pharmaceutical manufacturing
- Bioprocessing
- Cosmetic
- Brewery Service
- Food and Beverage
- Semiconductor
- High Purity Chemicals



## Sample Bottle Assembly

# Sampling Bottle Assembly

Size (Inches)	Nominal diameter (mm)	Working pressure (psi)	Body configuration D=straight through (weir)	C <sub>v</sub> -value (gpm)	
				ISO connection	O.D. Tubing
½	15	0 - 90*	M	N/A	2.3

All pressures are gauge pressures when applied upstream. The C<sub>v</sub> values vary due to differences in valve construction (i.e., Port size, body material, diaphragm material, etc.)

**\*Working pressure:** 0 - 150 psi is the max. pressure on the valves, however the container, under any conditions, should not be pressurized. Over filling the container could result in a rupture and/or bodily harm.

**Max. perm. Temperature of working medium on diaphragm:** 302°F (depending on diaphragm material/cycle time) container material may lower max. temp.

Single entry flow path. NOTE THERE IS NO AUTOMATIC SHUT OFF TO PREVENT OVERFLOW.

## Body Configuration Ref.no.

Multiported valve body M

## Connection Ref.no.

Tri-clamp®  
Specials available upon request 80

## Body material Ref.no.

**Machined block**  
Stainless steel 316 L  $\pm$  1.4435 (ASTMA 479) 41

**Special versions**  
(Consult factory for special material reference numbers)

## Diaphragm material Ref.no.

Ethylene-propylene Rubber for saturated steam max 302° F EPDM 3A

2nd generation, modified PTFE with Ethylene-propylene backing TFM/EPDM 5A

Ethylene-propylene Rubber for saturated steam max 302° F EPDM 6A

All diaphragms listed conform to the FDA code of Federal Regulations paragraph 177.2600 of section 21.

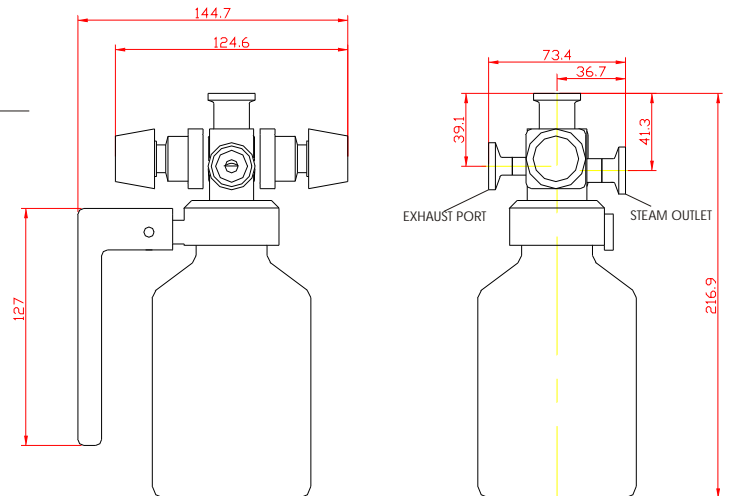
## Surface finish Ref.no.

μ-in.	BPE Surface Designation	Ra Average [Note (1)]		Ra Max		Ref.no.
		μ-in.	μm	μ-in.	μm	
32	Mechanical					3
25	Mechanical	SFV3	25	0.625	30	1502
20	E-pol	SFV6	20	0.500	25	1508
20	Mechanical	SFV2	20	0.500	25	1507
15	E-pol	SFV5	15	0.375	20	1537
11	Mechanical	SFV1	15	0.375	20	1536
10	E-pol	SFV4	10	0.250	15	1516

GENERAL NOTE: All Ra readings are taken across the grain.  
NOTE: (1) The average Ra is derived from two readings taken at different locations.

## Sample Bottle Versions Ref.no.

Special versions U7794



## Control function Ref.no.

Manually operated 0

Order Example	-601	015	M	80	41	3A	0				1537	U7794
Type of valve	-601											
Size DN		015										
Body configuration			M									
Connection (valve body)				80								
Body material					41							
Diaphragm material						3A						
Control function							0					
Actuator size												
Locking device												
Pipe main size												
Pipe main connection												
Surface finish										1537		
Special versions (XXXX)												U7794