



# Don't Gamble with your Sample

## Keofitt Aseptic Sampling Valve

### Working principle

The Keofitt Aseptic Sampling Valve is designed for sterilization before and after each sampling.

### Open valve: Sampling

The manual valve is opened by rotating the handle (adjustable valve) or by activating the lever (on/off valve). The stem and the membrane are then retracted, allowing liquid to pass.

### Closed valve: Sterilizing

Using the reverse procedure the built-in spring closes the valve, keeping the channel between the hose pieces open for sterilization. If using steam a small pressure relief valve (optional) on the outlet is recommended.

### Standard Design

The Keofitt Aseptic Sampling valve consists of three parts, a valve body, a valve head and a membrane. The rubber membrane is placed on the stem of the valve head and works as a stretchable plug. The valve bodies and valve heads are interchangeable.

### The valve is available in two sizes:

- M4 valve for low viscosity products like water, beer, wine and liquid milk.
- W9 for high viscosity products like fruit yoghurt, syrup and ice cream.

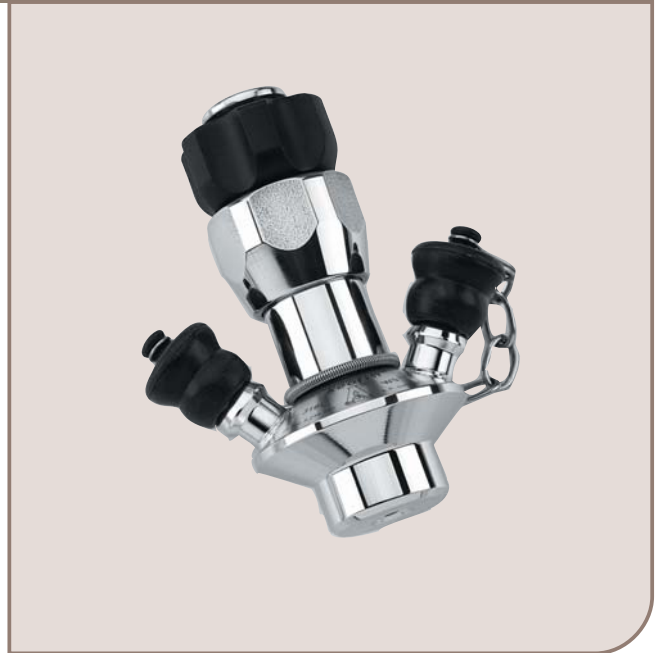
W9 valve is available with micro ports, to enable sampling by hyperdermic needle.

### Valve bodies:

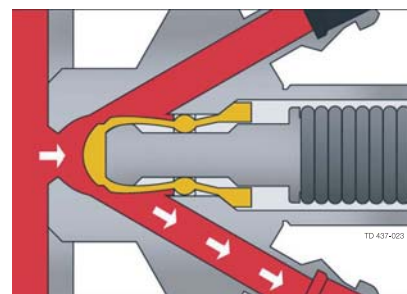
- Type T: Tank (welding).
- Type P: Pipe (welding).
- Type C: Clamp.
- Type S: Socket (threaded).

### Valve heads:

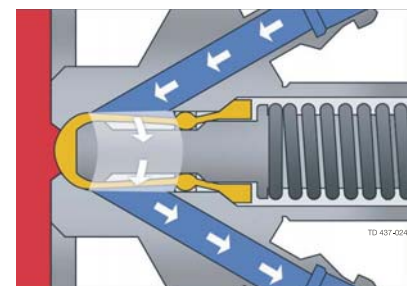
- Type H: Turning handle.
  - Type K: Removable key.
  - Type Q: Quick lever.
  - Type N: Manually and pneumatically operated.
  - Type B: Turning handle (for pressure up to 12 bar).
- The valve is authorized to use the 3A symbol.



Keofitt Aseptic Sampling Valve.



a. Open valve, Sampling.



b. Closed valve, Sterilizing.

Fig. 1. Principle.

## Dimensions (mm)

Pos.	M4		W9	
	mm	inch	mm	inch
A	70	2.76"	90	3.54"
B	4	0.16"	9	0.35"
C	5	0.2"	8	0.31"
D (Tank)	28	1.1"	28	1.1"
D (Pipe)	*25	*0.98"	*25	*0.98"
D (Clamp)	25	0.98"	50	1.97"
	(½" Clamp)	(½" Clamp)	(1" Clamp)	(1" Clamp)
D (Socket)	M28x1.5	M1.1"x0.06"	M28x1.5	M1.1"x0.06"
E	47	1.85"	68	2.68"

\* only for DIN

## Materials

Valve body:	Stainless steel AISI 316L (1.4404).
Valve head:	Stainless steel 301, 303, 316L, PEHD/black, PTFE.
Membrane:	Silicone rubber. EPDM rubber. PTFE

## Technical data

### Pressure

Max. working pressure . . . . .87 psi (6 bar).  
Max. working pressure:

M4 Type B: . . . . .174 psi (12 bar)  
W9 Type B: . . . . .218 psi (15 bar)

### Temperature

Temperature range: . . . . .33.8°F - 266°F.  
Max. sterilization temperature, . . . . .  
dry steam 29 psi (2 bar) . . . . .249.8°C

Steam must be dry, since condensate will damage the membrane. It is recommended that the membrane be changed every 100 samples/sterilizations or depending on working conditions or experience.

Valve	Viscosity
M4	0-100 cP
W9	0-1000 cP
W15	0-50000 cP
W25	0-250000 cP

## Options

- Key ring for valve head, type K.
- Valve head for pneumatic and manual operation, type N ("A" dimension increases).
- Valve head, type B (blocking) without spring, to be used if risk of pressure shocks (handle is white).
- For various accessories please see Ordering Leaflet.

## Ordering

Please state the following when ordering:

- Please state the following when ordering:
- Valve size, M4 or W9.
- Type of valve body.
- Type of valve head.
- Accessories.
- Other options.

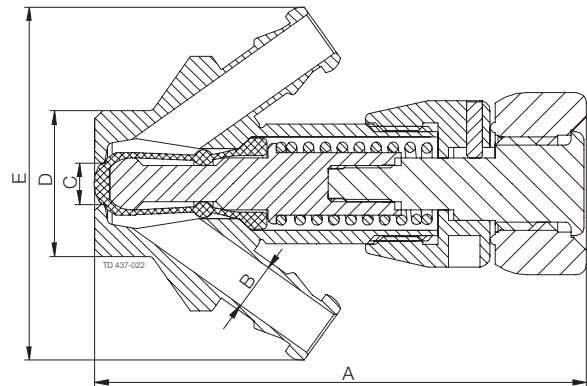
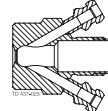


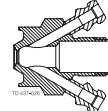
Fig. 2. Dimensions.

### Valve bodies:

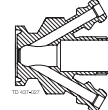
Type T: Tank (welding)



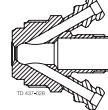
Type P: Pipe (welding)



Type C: Clamp



Type S: Socket (threaded)

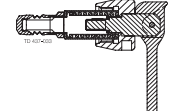


### Valve heads:

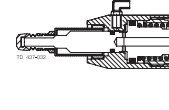
Type B: Turning handle



Type Q: Quick lever



Type N: Pneumatic and manual



Type H: Turning handle

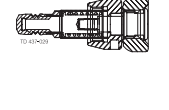


Fig. 3. Valve bodies and valve heads (interchangeable).


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The information contained herein is correct at the time of issue,  
but may be subject to change without prior notice.

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the 3A symbol