Gillain & Co
HYGIENIC EQUIPMENT FOR FOOD & LIFE SCIENCES

Don’t Gamble with your Sample

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.

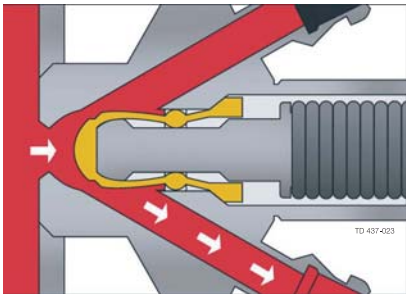
W9 valve is available with micro ports, to enable sampling by hyperdermic needle.

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

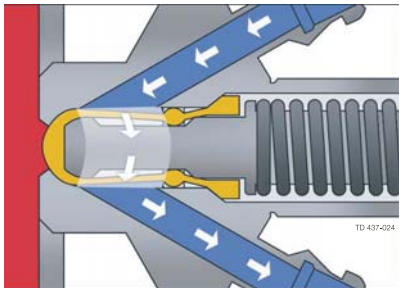
Valve heads:
Type H: Turning handle.
Type K: Removable key.
Type Q: Quick lever.
Type N: Manually and pneumatically operated.
Type B: Turning handle (for pressure up to 12 bar).
The valve is authorized to use the 3A symbol.



Keofitt Aseptic Sampling Valve.



a. Open valve, Sampling.



b. Closed valve, Sterilizing.

Fig. 1. Principle.

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Dimensions (mm)

Pos.	M4	W9
A	70	90
B	4	9
C	5	8
D (Tank)	28	28
D (Pipe)	25*	25*
D (Clamp)	25	50
	(½" Clamp)	(1" Clamp)
D (Socket)	M28x1.5	M28x1.5
E	47	68

* only for DIN

Materials

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

Technical data

Pressure

Max. working pressure . . . . . .600 kPa (6 bar).
Max. working pressure:

M4 Type B: . . . . . .1500 kPa (15 bar)
W9 Type B: . . . . . .1500 kPa (15 bar)

Temperature

Temperature range: . . . . . .1°C - 130°C.
Max. sterilization temperature, ...
dry steam (2 bar) . . . . . .121°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

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

Ordering

Please state the following when ordering:

- Valve size, M4 or W9.
- Type of valve body.
- Type of valve head.
- Accessories.
- Other options.

Note!

For further information, see also instruction IM 70783.

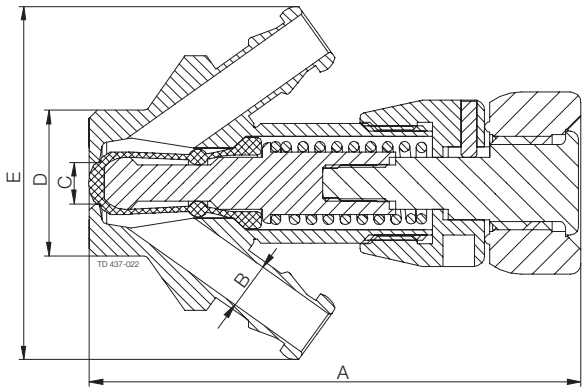
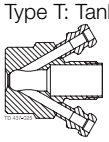


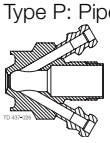
Fig. 2. Dimensions.

Valve bodies:

Type T: Tank (welding)



Type P: Pipe (welding)



Type C: Clamp

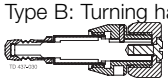


Type S: Socket (threaded)

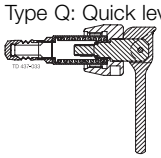


Valve heads:

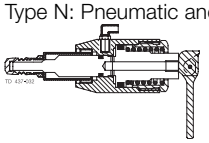
Type B: Turning handle



Type Q: Quick lever



Type N: Pneumatic and manual



Type H: Turning handle

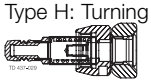


Fig. 3. Valve bodies and valve heads (interchangeable).

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

How to contact Alfa Laval
Contact details for all countries
are continually updated on our website.
Please visit www.alfalaval.com to
access the information direct.

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