



Product Catalogue 2006

keofitt®
WORLD LEADERS IN STERILE SAMPLING™

Browse the Keofitt Product Catalogue on www.keofitt.dk

1. Keofitt Sampling valve and how to use select your valve.

Keofitt valve is a High quality sampling valve designed to fit most situations and industries.

Selection guide on how to use this binder to help you find the sampling valve that suits your needs best.

2. M4 for 0-100cP.

The M4 sampling valve is the cheapest and smallest Keofitt valve, designed for sampling of low viscosity products, with particles up to 1,5mm* in diameter.

3. W9 for 0-1000cP.

The W9 sampling valve is the standard Keofitt sampling valve. Designed for sampling medium viscosity products, with particles up to 3 mm* in diameter if fitted with PTFE membrane and 2mm* fitted with silicone or EPDM membrane.

4. W15 for 0-50.000cP.

The W15 sampling valve is designed for sampling high viscosity products, with particles up to 8mm* in diameter. The W15 is also used to take large samples of medium or low viscosity products.

5. W25 for 0-250.000cP.

The W25 is the largest Keofitt sampling valve. Designed for sampling of very high viscosity products, with particles up to 17mm* in diameter. The W25 is also used to take large samples of medium to high viscosity products.

6. "I" sampling valves for 0-800cP.

The "I" sampling valve for ports is designed for sampling medium viscosity products, with particles up to 1,2mm* in diameter.

7. Micro port. 0-50cP.

The Keofitt Micro Ports are designed to take samples with Hypodermic needle or syringe, with minimum risk of contamination. Designed for sampling low viscosity products with no or microscopic particles.

8. Sampling bottles.

Keofitt offers sampling bottle heads and Aseptic systems that maximize the ease of sampling and minimise the chance of external contamination while sampling and transporting.

9. Fittings and Accessories for sampling.

Keofitt accessories are produced to maximise the field of application that Keofitt sampling valves can be used in. With security and without the danger of outside contamination.

10. Other products

Keofitt offers products designed to increase food safety and precision, these include products such as the Carlsberg flask for fermentation and the Steam boiler for a simple portable steam source.

11. Price list.

Keofitt complete price list.

* As the maximum size of particle that can go through the internal structure of valve.

What is a Keofitt Valve?

Keofitt valve is a High quality sampling valve designed to fit most situations and industries. It is designed to be:

- Highly durable.
- Easy to sterilize in place.
- Completely food safe.
- The best in sampling.

The valve can easily be sterilized before and after the sampling. Eliminating the chance of cross contamination and prevent the valve itself in harvesting unwanted elements such as bacteria.

The valve consists of **Valve Body** and a **Valve Head**.

The **valve body** is constructed to fit to various surfaces such as tank, pipe or connection ports. In-outlets also have different connection possibilities to fit all production facilities.

The **valve Head** is fitted with one of 3 different types of membranes to suit for different production factors such as heat and pressure. Varieties of functions are available, such as Pneumatic activated, lever or turn-knob operated etc. Special solutions are available for example valve heads with key ring to limit the accessibility of the valve, and Micro port option where occasional use of syringe is required.

Keofitt valves are all **3-A** certified and the M4 and W9 valves are **EHEDG Type EL** authorised. **3-A** Sanitary Standard is an American standard which is normative for a component's ease of cleaning and sterilisation. The standard ensures optimum conditions for food products which may come into contact with the component in question.

EHEDG Type EL certification is an European standard and includes additional tests of bacterial increase on components that are in direct contact with the sample after the CiP process



How to use this binder to choose Keofitt valve?

Keofitt offers a wide variety of sampling solutions. Following steps help you to choose the Keofitt product that suits your product and needs best.

1. Determine the viscosity of the product and size of sample to be taken. Then select the valve type that suits your products viscosity best.
 - i. Micro port 0-50cP, small samples and pure liquid only.
 - ii. M4 valve 0-100cP, pure liquid only.
 - iii. I40 valve 0-800cP, pure liquid only.
 - iv. I52 valve 0-800cP, pure liquid only.
 - v. W9 valve 0-1000cP, with particles up to 2mm in diameter.
 - vi. W15 valve 0-50.000cP, with particles up to 6mm in diameter.
 - vii. W25 valve 0-250.000cP, with particles up to 12mm in diameter.

For cP reference following values can be used: water ~ 1cP, olive oil ~ 100cP, Castor oil ~ 1000cP, Ketchup ~ 50.000cP and peanut butter ~ 250.000cP.

Many prefer to standardize on W9 products instead of using a combination of M4 and W9 valves.

2. Determine where and how the valve is going to be installed.
 - a. On a pipe. According to size of pipe and how the valve is to be installed.
 - b. On a tank. Should the valve be welded, with thread, clamp or port connections.
3. Choose the seat that you need for installation. From the Horizontal column of the Valve body selection.

M4 –Valve body for welding selection chart.

	Hose Piece	Mini Tri-clamp	M12x0.75
 Tank welding - 3/8"	400001	Not Available	400004
 Pipe Welding - 1"	400011	Not Available	400018
 Pipe Welding - NPT 1/2"	400014	Not Available	On Request
 In-line - Vertical OD 1 1/2"	400017	Not Available	On Request
 In-line - Horizontal OD 1 1/2"	400025	Not Available	On Request

4. Choose the connection you need on the in-outlets from the vertical column of the Valve body selection.

M4 -Valve body for welding selection chart.

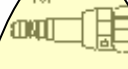
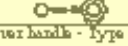
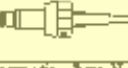
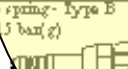
	Hose Piece	Mini Tri-clamp	M12x0,75
 Valve welding Ø 28	400001	Not Available	400004
 Pipe Welding- 1"	400011	Not Available	400018
 Pipe Welding- NW25	400014	Not Available	On Request
 In-line - Vertical Ø12x1	400017	Not Available	On Request
 In-line - Horizontal Ø12x1	400023	Not Available	On Request

5. Find the item number in the cross-section of the columns that corresponds to your selection.



6. To determine valve head.
 - a. Is valve with a Micro port operation needed?
 - b. Which product pressure is the valve going to be used in?
 - c. What kind of operation is needed? Lever, turn knob, key ring or Pneumatic operation.
7. Choose which operation you need from your valve head. From the horizontal column of the Valve head selection.

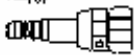
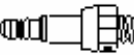
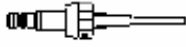
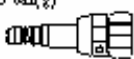
M4 valve head selection chart

	PTFE -100°C to +100°C	Silicon -50°C to +100°C	EPDM -50°C to +100°C
Turn knob - Type H 0-6 bar(g) 	403341	400041	400041*
Turn knob - Type K 0-6 bar(g) 	403342	400042	400042*
Key ring for valve K 	400076	400076	400076
Lever handle - Type Q 0-6 bar(g) 	403343	400043	400043*
Pneumatic - Type N 0-6 bar(g) 	403344	400044	400044*
No spring - Type E 0-1.5 bar(g) 	403347	400047	400047*

*When ordering please specify if EPDM membrane is required

8. Define which membrane suits you product best.
 - a. PTFE - with longer lifetime and more sanitation security. Not available with micro port. Lower maintenance cost. Strong resistance to water, oil, heat and all chemical CIP fluids except strongly oxidizing acids.
 - b. Silicone - shorter lifetime than PTFE, lower cost per unit, available with micro port option, high heat resistance, low resistance to water.
 - c. EPDM - shorter lifetime than PTFE, lower cost per unit, available with micro port option, high resistance to water and steam but not resistant to oil and gases.
9. Choose membrane from the vertical column of the Valve head selection.

M4 valve head selection chart

	PTFE -100°C to +100°C	Silicon -50°C to +100°C	EPDM -50°C to +100°C
Turn knob - Type H 0-6 bar(g) 	403341	400041	400041*
Key-ring - Type K 0-6 bar(g) 	403342	400042	400042*
Key ring for valve K 	400076	400076	400076
Lever handle - Type Q 0-6 bar(g) 	403343	400043	400043*
Pneumatic - Type N 0-6 bar(g) 	403344	400044	400044*
No spring - Type B 0-15 bar(g) 	403347	400047	400047*

*When ordering please specify if EPDM membrane is requested

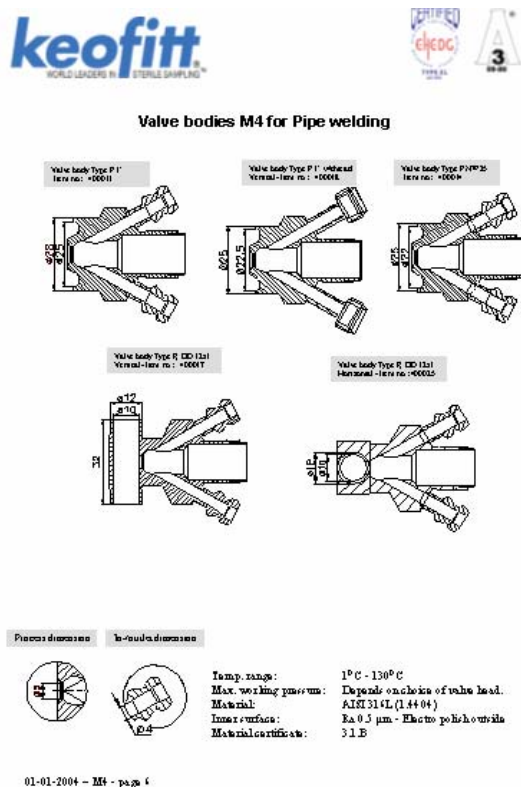
10. Find the item number in the cross-section of the columns that corresponds to your selection.



11. Then you have a complete valve



12. Detailed information on each part can be found at the back of the chapters in this binder.

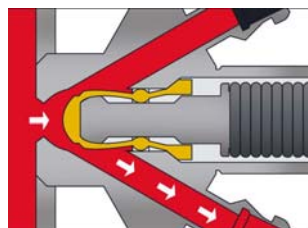
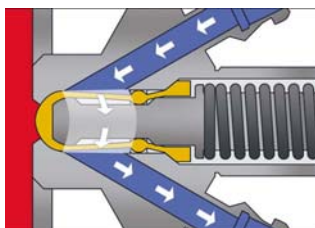


13. More detailed information and a picture of the product can be found in data sheets, available in the product search at Keofitt home page.

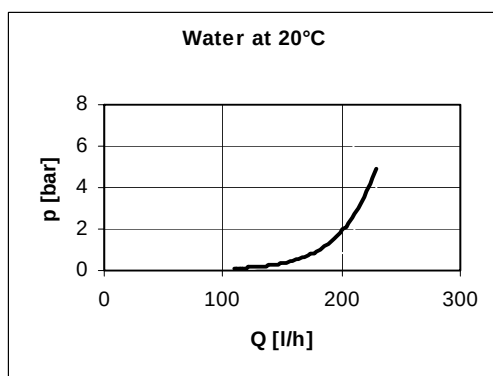
www.keofitt.dk

M4 sampling valve.

The M4 sampling valve is the cheapest and smallest Keofitt valve, designed for sampling of low viscosity products, with particles up to 1,5mm* in diameter. The main product range the M4 valve is used in has 0-100cP viscosity.



The M4 valve is 3-A and EHEDG Type El authorised and have flow rate plotted below.



$$C_v = 1.17 * K_v$$

$$K_v = Q \sqrt{\frac{p}{1000 * \Delta p}}$$

Kv	[m3/h]
Cv	[USgal/min]
Q	[m3/h]
p	[kg/m3]
p	[bar]

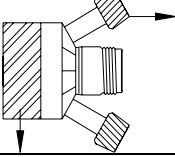
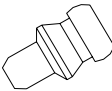
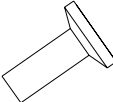
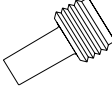
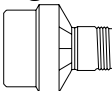
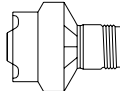
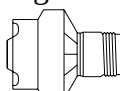
Valve capacity
Valve capacity
Flow through valve seat
Viscosity of fluid
Pressure fall across valve

The M4 valve is used in a range of business areas, such as breweries, dairies, pharmaceutical and biotechnological industries, with wide range of products such as:

- o Water.
- o Milk.
- o Medical solutions.
- o Filtered beer.
- o Perfume.
- o Olive oil.

* As the maximum size of particle that can go through the internal structure of valve.

M4 – Valve body for welding selection chart.

	Hose Piece 	Mini Tri-clamp 	M12x0,75 
Tank welding- Ø 28 	400001	<i>Not Available</i>	<i>Not Available</i>
Pipe Welding - 1" 	400011	<i>Not Available</i>	<i>Not Available</i>
Pipe Welding – NW25 	400014	<i>Not Available</i>	<i>Not Available</i>



Sam Pling™ www.sampling.com

SOME PEOPLE WOULDN'T GAMBLE WITH THEIR SAMPLE™



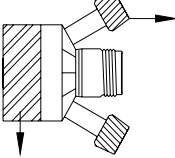
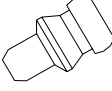
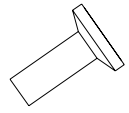
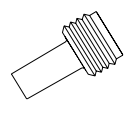
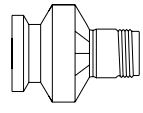
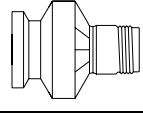
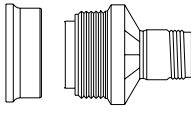
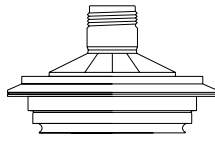
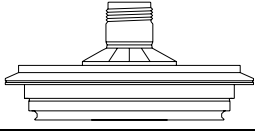
keofitt
WORLD LEADERS IN STERILE SAMPLING™

Sampling.com by Keofitt®

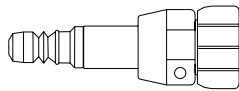
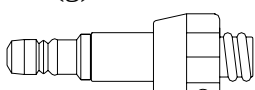
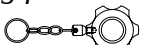
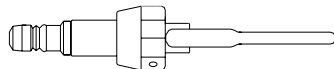
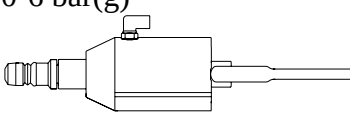
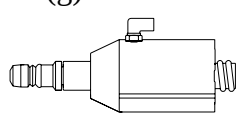
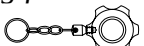
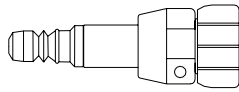
KEOFITT A/S . HANS EGEDS VEJ 19 . DK-5210 ODENSE . TEL. +45 6316 7080 . FAX +45 6316 7081 . WWW.KEOFITT.DK . KEOFITT@KEOFITT.DK

For more comics, check out www.sampling.com

M4 – Valve body for connections selection chart.

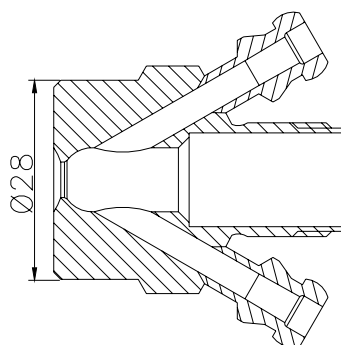
	Hose Piece 	Mini Tri-clamp 	M12x0,75 
Clamp - connection 1/2" 	400021	<i>Not Available</i>	<i>On Request</i>
Clamp - connection 1" 	400022	<i>Not Available</i>	<i>On Request</i>
Thread - M28x1,5 	400031	<i>Not Available</i>	<i>On Request</i>
Varivent Ø50 	400010	<i>Not Available</i>	<i>On Request</i>
Varivent Ø68 	400009	<i>Not Available</i>	<i>On Request</i>

M4 valve head selection chart

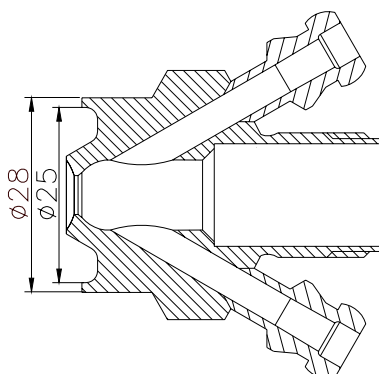
	PTFE  -200°C to +200°C**	Silicon  -80°C to +200°C**	EPDM  -50°C to +140°C**
Turn-knob - Type H 0-6 bar(g) 	405541	400041	400041E
Key-ring - Type K 0-6 bar(g) 	405542	400042	400042E
Key ring for valve K 	400076	400076	400076
Lever handle - Type Q 0-6 bar(g) 	405543	400043	400043E
Pneumatic - Type N 0-6 bar(g) 	405544	400044	400044E
Pneumatic - Type N - Key 0-6 bar(g) 	405546	400046	400046E
Key ring for valve K 	400076	400076	400076
No spring - Type B 0-15 bar(g) 	405547	400047	400047E

Valve bodies M4 for welding

Valve body Type T
Item no.: 400001

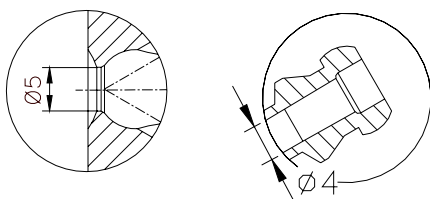


Valve body Type P 1"
Item no.: 400011



Process dimension

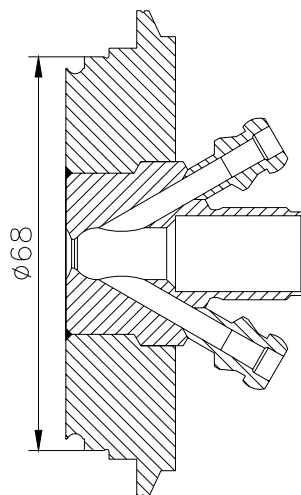
In-/outlet dimension



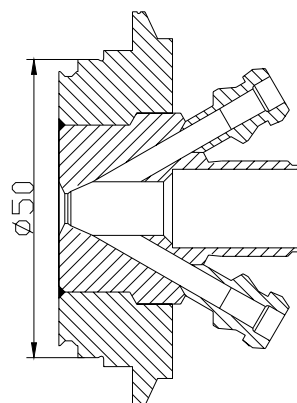
Temp. range:	1 ⁰ C - 130 ⁰ C
Max. working pressure:	Depends on choice of valve head.
Material:	AISI 316L (1.4404)
Inner surface:	Ra 0.5 µm - Electro polish outside
Material certificate:	3.1.B

Valve bodies M4 for Clamp or Thread connections.

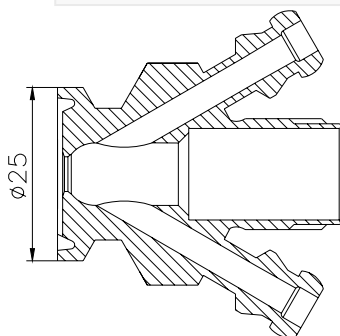
Valve body Varivent Ø68
Item no.: 400009



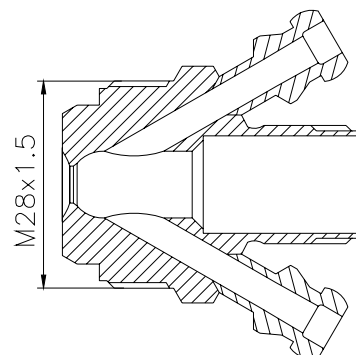
Valve body Varivent Ø50
Item no.: 400010



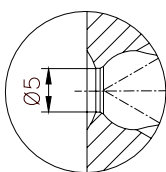
Valve body Type C
Item no.: 400021



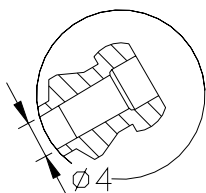
Valve body Type S
Item no.: 400031



Process dimension



In-/outlet dimension



Temp. range:

Max. working pressure:

Material:

Inner surface:

Material certificate:

1° C - 130° C

Depends on choice of valve head.

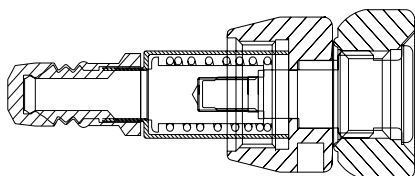
AISI 316L (1.4404)

Ra 0.5 µm - Electro polish outside

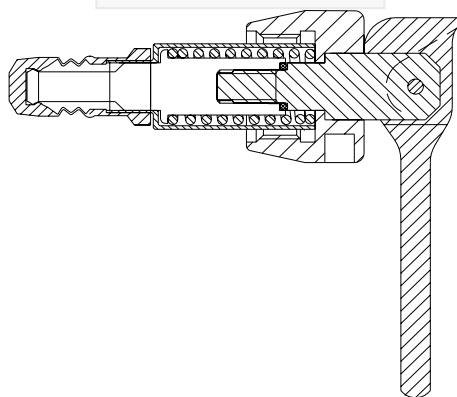
3.1.B

Valve Heads M4.

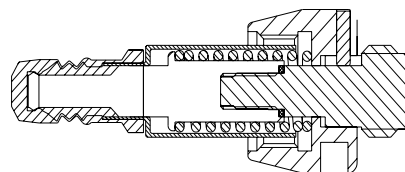
Valve Head Type H
PTFE 405541
Silicone 400041
EPDM 400041E



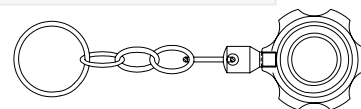
Valve Head Type Q
PTFE 405543
Silicone 400043
EPDM 400043E



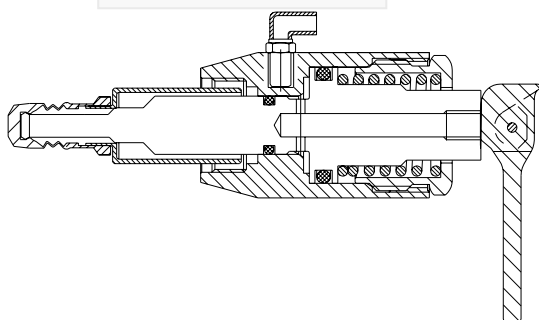
Valve Head Type K
PTFE 405542
Silicone 400042
EPDM 400042E



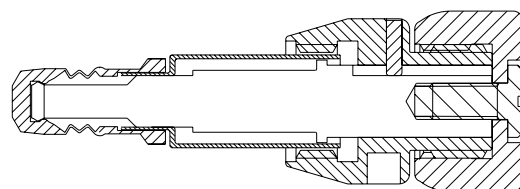
Key ring for valve head K
Item no.: 400076



Valve Head Type N
PTFE 405544
Silicone 400044
EPDM 400044E



Valve Head Type B
PTFE 405547
Silicone 400047
EPDM 400047E



Membranes and tool:



PTFE (TFM 1600) Membrane
Item no. 400055



EPDM membrane
Item no.: 400052
(10 pcs package)



Silicone membrane
Item no.: 400051
(10 pcs package)



Tool to replace PTFE
Item no.: 40005

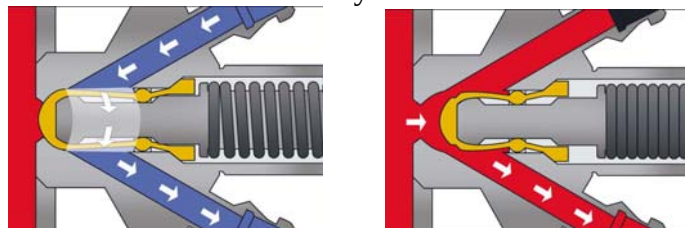
Temp. range:
Max. working pressure:

Material:
Membranes:

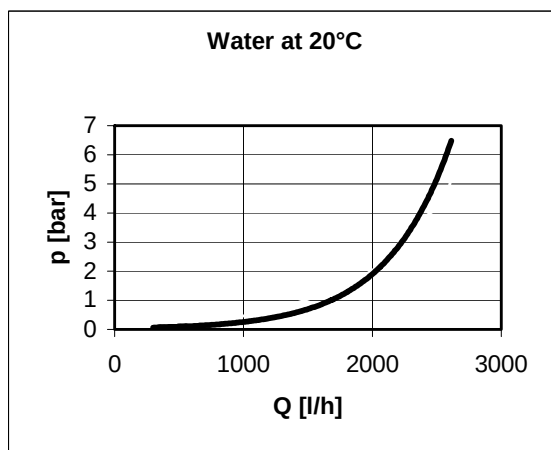
1⁰ C - 130⁰ C
Type H, K, Q, N - 0-6 bar(g)
Type B - 0-15 bar(g).
Steel parts AISI 304/316L
FDA approved compounds.

W9 sampling valve.

The W9 is the standard Keofitt sampling valve, the valve others are measured to. Designed for sampling medium viscosity products, with particles up to 3 mm* in diameter, if fitted with PTFE membrane and 2mm* when fitted with silicone or EPDM membrane. The main product range W9 valves are used in have about 0-1000cP in viscosity.



The W9 valve is 3-A and EHEDG Type E1 authorised and have a flow rate plotted below.



$$K_v = Q \sqrt{\frac{p}{1000 * \Delta p}}$$

$$C_v = 1.17 * K_v$$

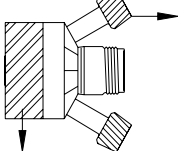
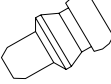
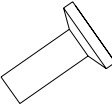
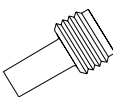
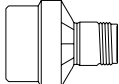
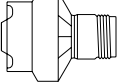
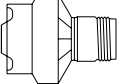
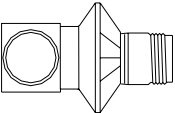
Kv	[m ³ /h]	Valve capacity
Cv	[USgal/min]	Valve capacity
Q	[m ³ /h]	Flow through valve seat
ρ	[kg/m ³]	Viscosity of fluid
p	[bar]	Pressure fall across valve

The valve is used in a range of business areas, such as breweries, dairies, pharmaceutical and biotechnological industries. With wide range of products such as:

- o Unprocessed Milk
- o Medical solutions
- o Filtered and unfiltered beer
- o Creams and lotions.

* As the maximum size of particle that can go through the internal structure of valve.

W9 - Valve Body for welding selection chart.

	Hose Piece 	Mini Tri-clamp 	M16x1,5 
Tank welding – Ø28 	850001	850006	850015
Pipe Welding 1” 	850011	850010	850016
Pipe Welding NW25 	850011	<i>On Request</i>	<i>On Request</i>
In-line – • Vertical/ Horizontal • OD12x1 – 1” 	<i>On Request</i>	<i>On Request</i>	<i>On Request</i>



Sam Pling™

www.sampling.com

SOME PEOPLE WOULDN'T GAMBLE WITH THEIR SAMPLE™



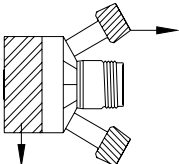
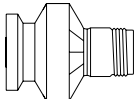
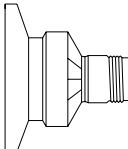
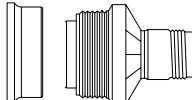
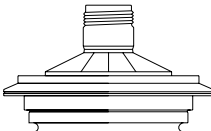
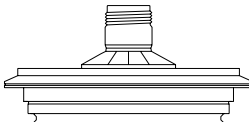
keofitt®
WORLD LEADERS IN STERILE SAMPLING™

Sampling.com by Keofitt®

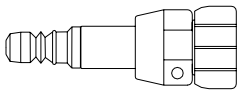
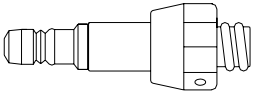
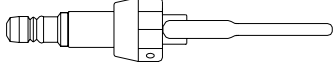
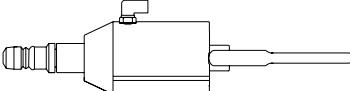
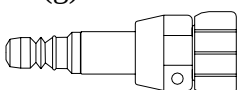
KEOFITT A/S . HANS EGEDS VEJ 19 . DK-5210 ODENSE . TEL. +45 6316 7080 . FAX +45 6316 7081 . WWW.KEOFITT.DK . KEOFITT@KEOFITT.DK

For more comics, check out www.sampling.com

W9 - Valve Body for Connections selection chart.

	Hose Piece	Mini Tri-clamp	M16x1,5
Clamp - connection 1" 	850021	850022	<i>On Request</i>
Clamp - connection 2" 	850003	850005	<i>On Request</i>
Tread - Socket M28x1,5 	850031	<i>On Request</i>	<i>On Request</i>
Varivent Ø50 	850008	<i>On Request</i>	<i>On Request</i>
Varivent Ø68 	850009	<i>On Request</i>	<i>On Request</i>

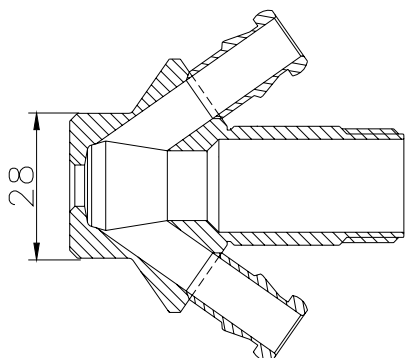
W9 - valve head selection chart.

	PTFE  -200°C to +200°C*	Silicon  -80°C to +200°C*	EPDM  -50°C to +140°C*
Turn-knob - Type H 0-6 bar(g) 	855541	600041	600041E
With Micro port option	<i>Not available</i>	600048	600048E
Key-ring - Type K 0-6 bar(g) 	855542	600042	600042E
With Micro port option	<i>Not available</i>	600049	600049E
Key ring for valve head 	600076	600076	600076
Lever handle - Type Q 0-6 bar(g) 	855543	600043	600043E
Pneumatic - Type N 0-6 bar(g) 	855544	600044	600044E
No spring – Type B 0-15 bar(g) 	855547	600047	600047E

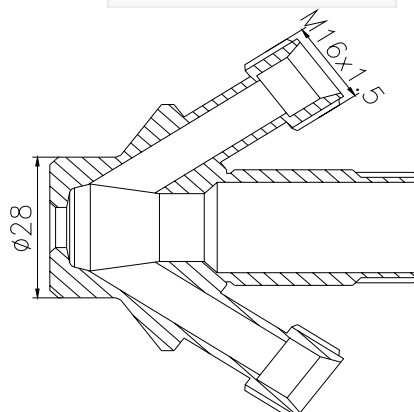
*Range of temperature in dry atmospheric air.

Valve bodies W9 for tank welding

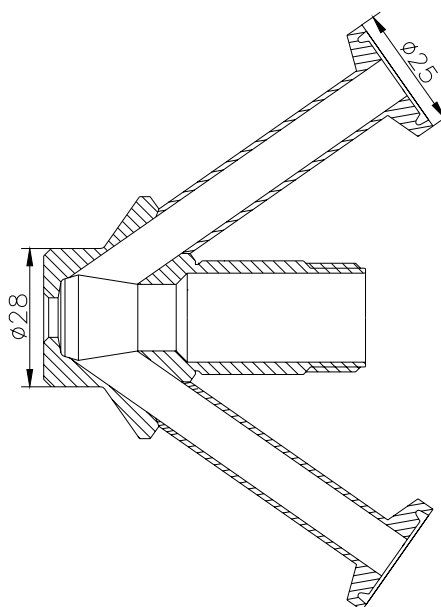
Valve body Type T
Item no.: 850001



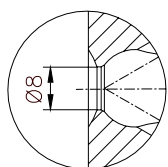
Valve body Type T w/thread
Item no.: 850015



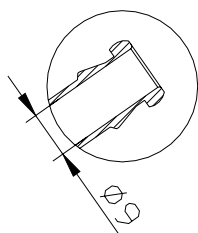
Valve body Type T w/mini tri-clamp
Item no.: 850006



Process dimension



In-/outlet dimension



Temp. and pressure range: Depends on Choice of valve head.

Material: AISI 316L (1.4404)

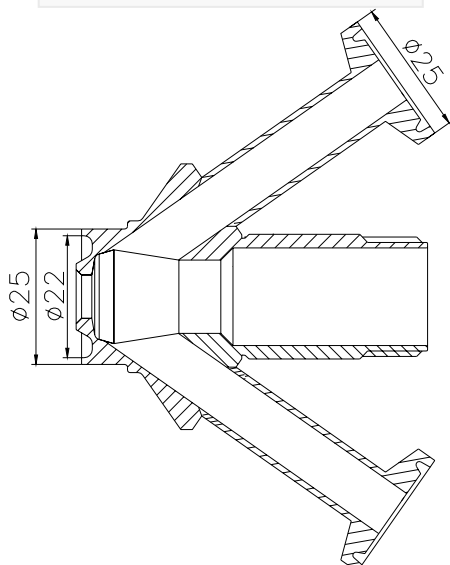
Inner surface: Ra 0.5 μ m –

Electro polish outside

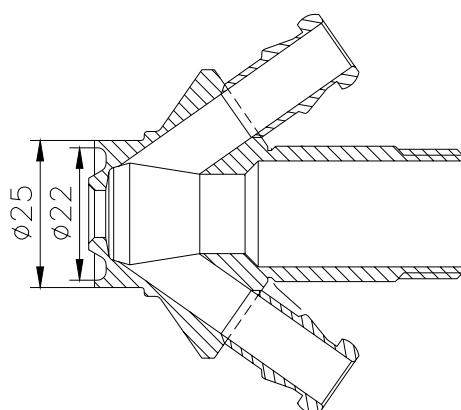
Material certificate: 3.1.B

Valve bodies W9 for pipe welding.

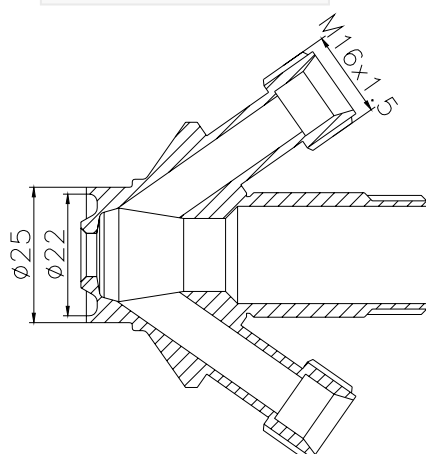
Valve body type P w/ mini Tri-clamp
Item no.: 850010



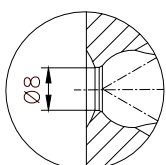
Valve body type P 1"
Item no.: 850011



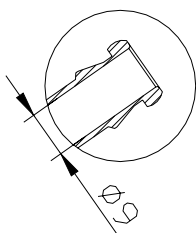
Valve body Type P
Item no.: 850016



Process dimension



In-/outlet dimension



Temp. and pressure range: Depends on Choice of valve head.

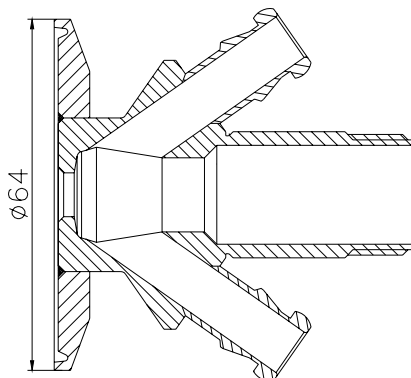
Material: AISI 316L (1.4404)

Inner surface: Ra 0.5 µm –

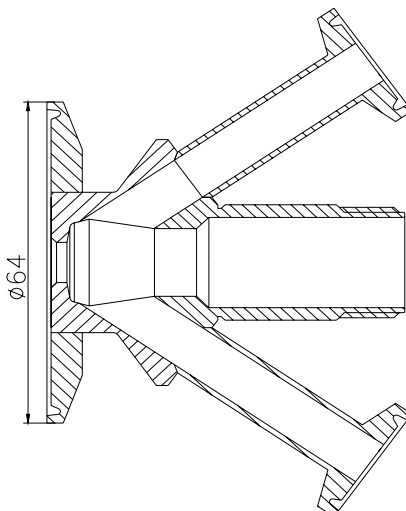
Electro polish outside

Material certificate: 3.1.B

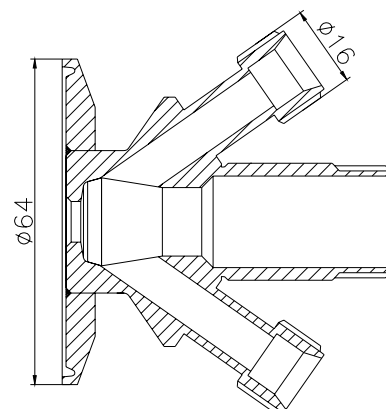
Valve body Type C 2"
Item no.: 850003



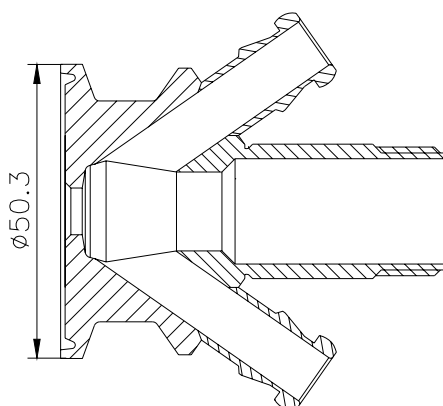
Valve body Type C 2" w/ mini tri-clamp
Item no.: 850005



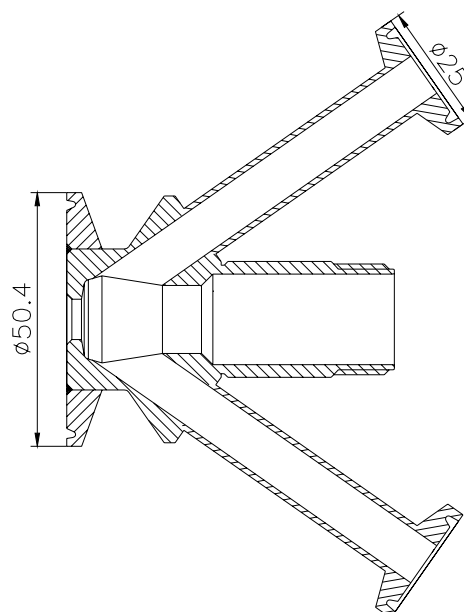
Valve body Type C 2" w/thread
Item no.: 850018



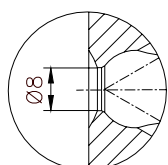
Valve body Type C 1"
Item no.: 850021



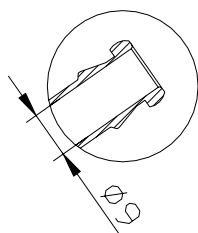
Valve body Type C 1" w/ mini tri-clamp
Item no.: 850022



Process dimension



In-/outlet dimension



Temp. and pressure range: Depends on Choice of valve head.

Material: AISI 316L (1.4404)

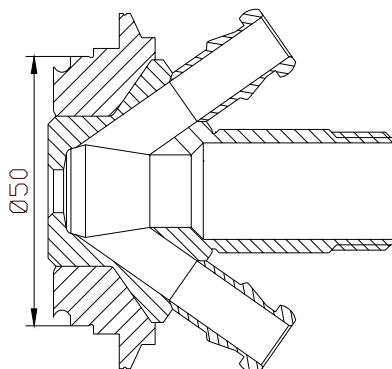
Inner surface: Ra 0.5 µm –

Electro polish outside

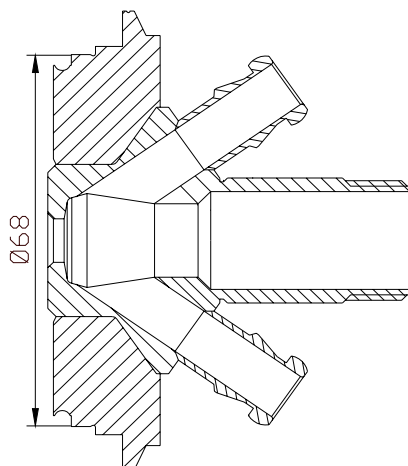
Material certificate: 3.1.B

Valve bodies W9 for Varivent connection.

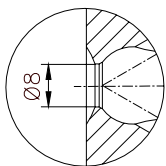
Valve body Varivent Ø50
Item no.: 850008



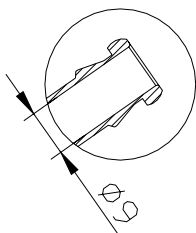
Valve body Varivent Ø68
Item no.: 850009



Process dimension



In-/outlet dimension



Temp. and pressure range: Depends on Choice of valve head.

Material: AISI 316L (1.4404)

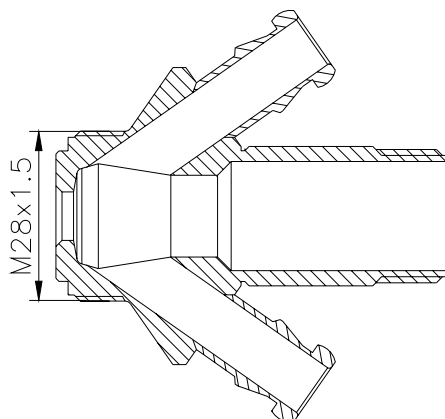
Inner surface: Ra 0.5 µm –

Electro polish outside

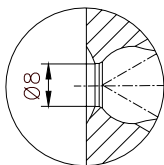
Material certificate: 3.1.B

Valve body W9 for Thread with port.

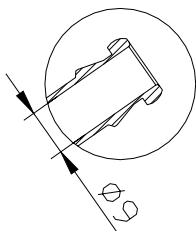
Valve body Type S w/port
Item no.: 850031



Process dimension



In-/outlet dimension



Temp. and pressure range: Depends on Choice of valve head.

Material: AISI 316L (1.4404)

Inner surface: Ra 0.5 µm –

Electro polish outside

Material certificate: 3.1.B

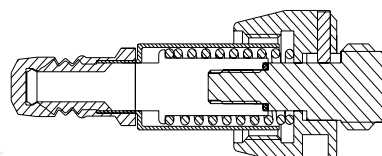
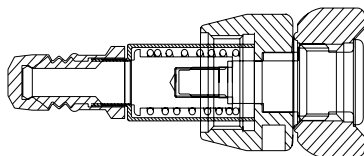
W9 Valve Heads.

Valve Head Type H

PTFE	855541
Silicone	600041
EPDM	600041E
Micro port option	600048

Valve Head Type K

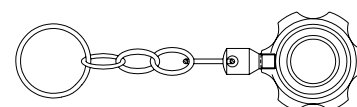
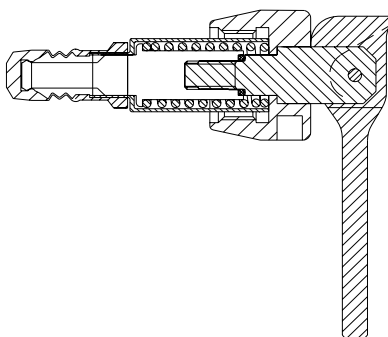
PTFE	855542
Silicone	600042
EPDM	600042E
Micro port option	600049



Valve Head Type Q

PTFE	855543
Silicone	600043
EPDM	600043E

Key ring for valve head K
Item no.: 600076

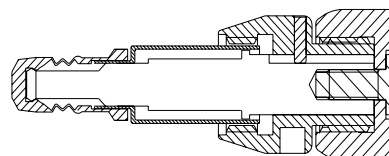
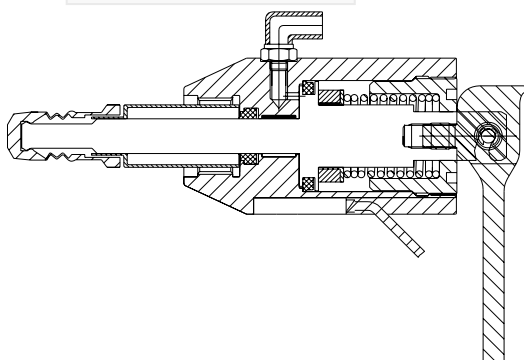


Valve Head Type N

Item no.: PTFE	855544
Silicone	600044
EPDM	600044E

Valve Head Type B

PTFE	855547
Silicone	600047
EPDM	600047E



Membranes:

PTFE (TFM 1600) Membrane
Item no. 850055



EPDM membrane
600052 (10 pcs package)
Micro Port no.: 600252



Silicone membrane
600051 (10 pcs package)
Micro Port no.: 600251



Tool to replace PTFE
Item no.: 600255

Temp. range:

Silicone/EPDM:

0° C - 130° C

PTFE

0° C - 150° C

Max. working pressure:

Type H, K, Q, N - 0-6 bar(g)

Type B - 0-15 bar(g).

Material:

Steel parts AISI 304/316L

Membranes:

FDA approved compounds.

W15 sampling valve.

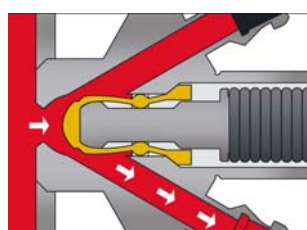
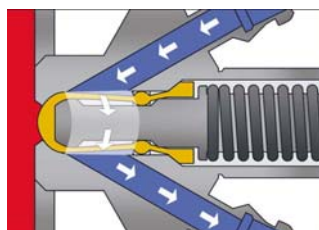
The W15 sampling valve is designed for sampling high viscosity products or for large samples of medium or low viscosity products, with particles up to 8mm* in diameter. The main product range the W15 is used in have about 0-50.000cP viscosity.

$$K_v = Q \sqrt{\frac{p}{1000 * \Delta p}}$$

$$C_v = 1.17 * K_v$$

Kv	[m3/h]	Valve capacity
Cv	[USgal/min]	Valve capacity
Q	[m3/h]	Flow through valve seat
p	[kg/m3]	Viscosity of fluid
p	[bar]	Pressure fall across valve

The Keofitt W15 valve is 3-A certified.

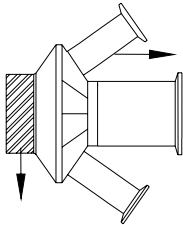
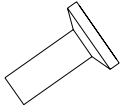
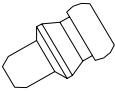
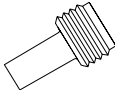
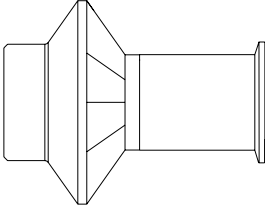
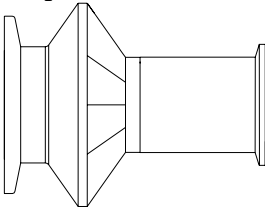
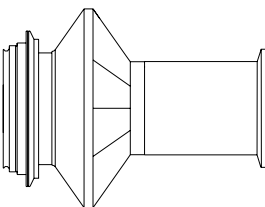
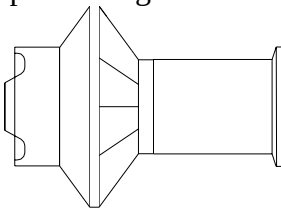


The valve is used in a wide range of business areas, such as dairies, yogurt, cream and lotions industries. With wide range of products such as:

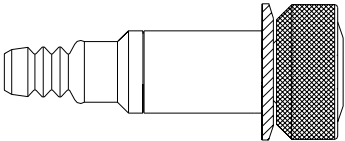
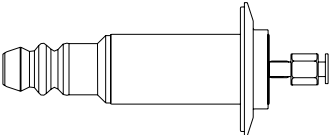
- o Yogurt.
- o Honey.
- o Syrup.
- o Creams and lotions.
- o Ketchup.

* As the maximum size of particle that can go through the internal structure of valve.

W15 – Valve Body selection chart.

	Mini Tri-clamp	Hose Piece	M16x1,5
			
Tank welding 	860001	<i>Not Available</i>	<i>Not Available</i>
Clamp connection 	860003	<i>Not Available</i>	<i>Not Available</i>
Varivent Ø68 	860009	<i>Not Available</i>	<i>Not Available</i>
Pipe welding 	860011	<i>Not Available</i>	<i>Not Available</i>

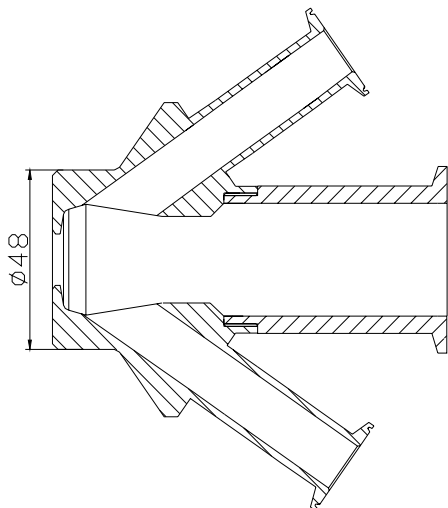
W15 – Valve head selection chart.

	PTFE membrane  -200°C to +200°C	Silicon  -80°C to +200°C*	EPDM  -50°C to +140°C*
Turn-knob - Type H 0-6 bar(g) 	865541	<i>Not Available</i>	<i>Not Available</i>
Pneumatic - Type N 0-6 bar(g) 	865544	<i>Not Available</i>	<i>Not Available</i>

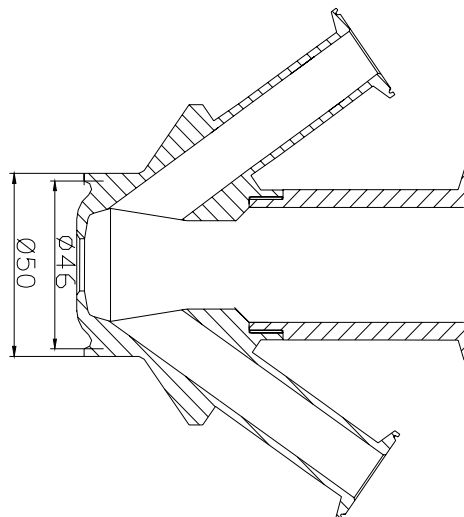
* Range of temperature in dry atmospheric air.

Valve Bodies W15.

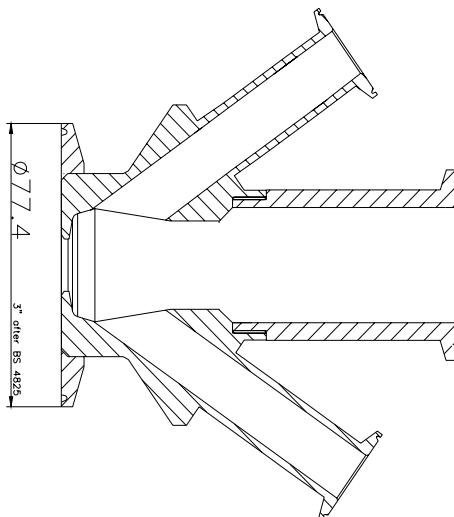
Valve body type T
Item no.: 860001



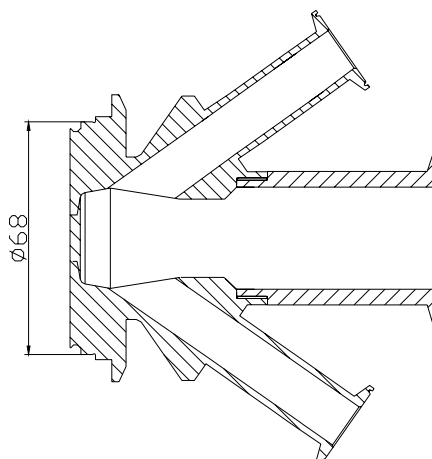
Valve Body type P
Item no.: 860011



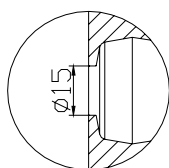
Valve Body type C
Item no.: 860003



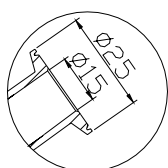
Valve Body Varivent Ø68
Item no.: 860009



Process dimension



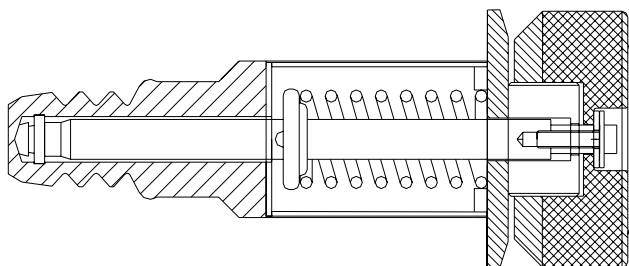
In-/outlet dimension



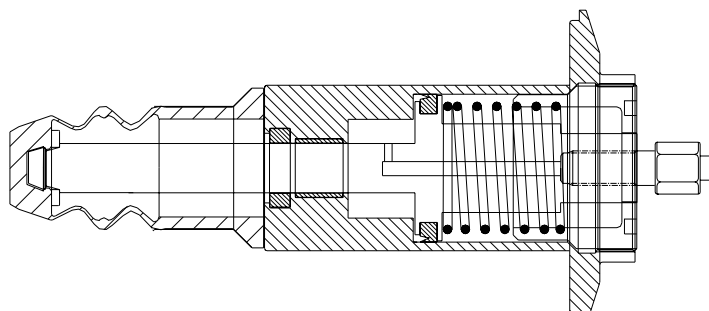
Temp. range: 1⁰ C - 150⁰ C
Max. working pressure: 0-6 Bar(g)
Material: AISI 316L (1.4404)
Inner surface: Ra 0.8 µm
Electro polish outside
Material certificate: 3.1.B

Valve Heads W15.

Valve Head type H
Item no.: 865541



Valve Head type N
Item no.: 865544



Membrane:



PTFE membrane
Item no.: 860055



Tool to Replace PTFE
Item no.: 300255

Temp. range:

Max. working pressure:

Material:

Membranes:

1° C - 130° C

Type H, and N - 0-6 bar(g)

Steel parts AISI 304/316L

FDA approved compounds.

W25 sampling valve.

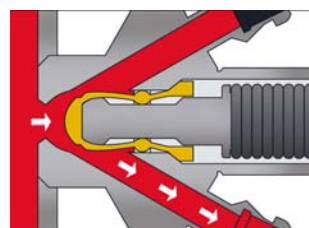
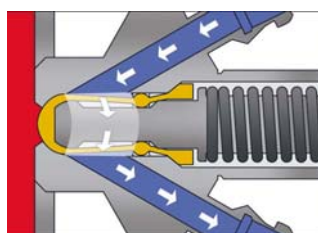
The W25 is the largest Keofitt sampling valve. Designed for sampling of very high viscosity products or large samples of high viscosity products, with particles up to 17mm* in diameter. The main product range the W25 is used in has 0-250.000cP viscosity.

$$Kv = Q \sqrt{\frac{p}{1000 * \Delta p}}$$

$$Cv = 1.17 * Kv$$

Kv	[m3/h]	Valve capacity
Cv	[USgal/min]	Valve capacity
Q	[m3/h]	Flow through valve seat
ρ	[kg/m3]	Viscosity of fluid
p	[bar]	Pressure fall across valve

The Keofitt W25 valve is 3-A certified.

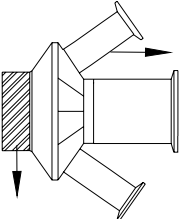
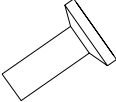
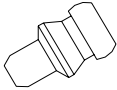
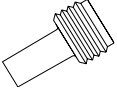
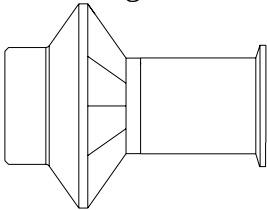


The valve is used in a wide range of business areas, such as dairies, yogurt, fruit, marmalade, cream and lotions industries. With wide range of products such as:

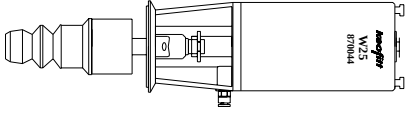
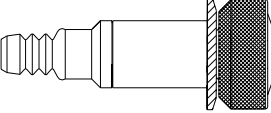
- o Yogurt.
- o Fruit mixed products.
- o Syrup.
- o Creams and lotions.
- o Peanut butter.

* As the maximum size of particle that can go through the internal structure of valve.

W25 – Valve Body selection chart.

	1" Clamp 	Hose Piece 	M16x1,5 
Tank welding 	870001	<i>Not Available</i>	<i>Not Available</i>

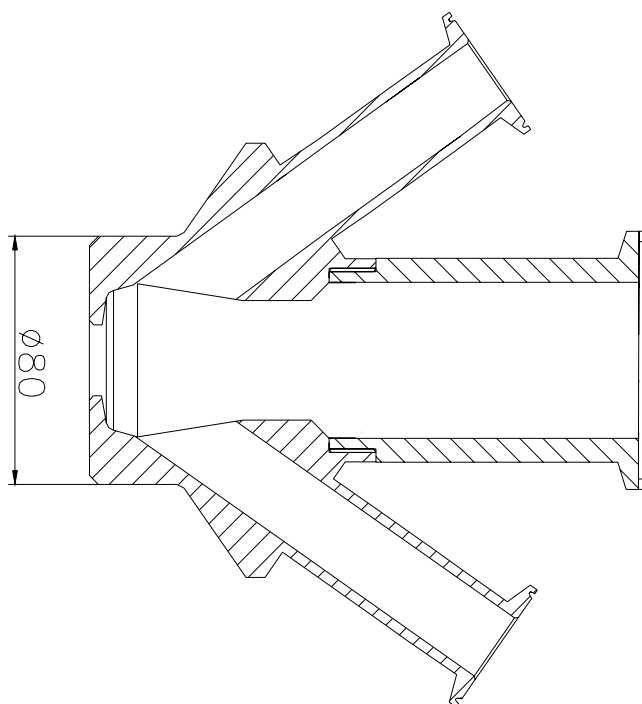
W25 – Valve head selection chart.

	PTFE Membrane  -80°C to +200°C*	Silicon  -80°C to +200°C*	EPDM  -50°C to +140°C*
Pneumatic - Type N 0-6 bar(g) 	875544	<i>Not Available</i>	<i>Not Available</i>
Kit for SRC 3135302062 Alfa Laval Actuator 	874455	<i>Not Available</i>	<i>Not Available</i>
No spring - Type B 0-15 bar(g) 	875547	<i>Not Available</i>	<i>Not Available</i>

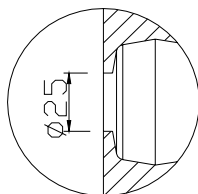
* Range of temperature in dry atmospheric air.

Valve body W25.

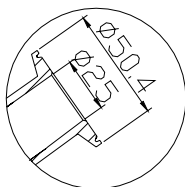
Valve Body type T
Item no.: 870001



Process dimension



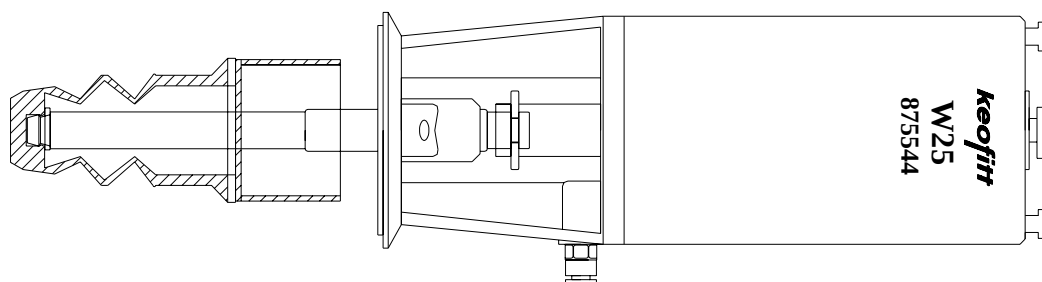
In-/outlet dimension



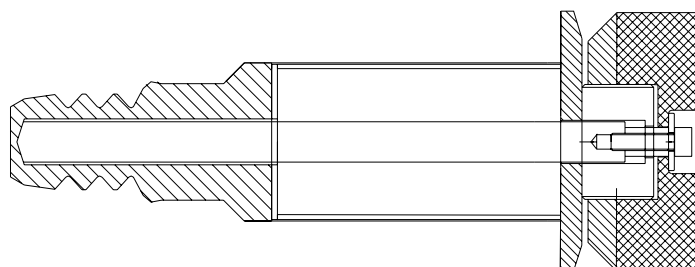
Temp. range:	1 ⁰ C - 150 ⁰ C
Max. working pressure:	0-6 Bar(g)
Material:	AISI 316L (1.4404)
Inner surface:	Ra 0.8 µm
Electro polish outside	
Material certificate:	3.1.B

Valve heads W25.

Valve Head type N
Item no.: 875544



Valve Head type B
Item no.: 875547



Membrane:



PTFE membrane
Item no.: 870055



Tool to Replace PTFE
Item no.: 870255

Temp. range:	1 ⁰ C - 150 ⁰ C
Max. working pressure:	0-6 bar(g)
Material:	Steel parts AISI 304/316L
Membranes:	FDA approved compounds.

“I” sampling valve.

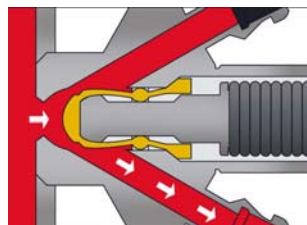
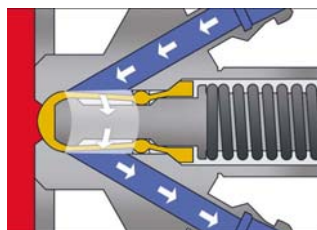
The “I” sampling valve for ports is designed for sampling medium viscosity products, with particles up to 1,2mm* in diameter. The valve is used in have about 0-800cP viscosity.

$$Kv = Q \sqrt{\frac{p}{1000 * \Delta p}}$$

$$Cv = 1.17 * Kv$$

Kv	[m3/h]	Valve capacity
Cv	[USgal/min]	Valve capacity
Q	[m3/h]	Flow through valve seat
ρ	[kg/m3]	Viscosity of fluid
p	[bar]	Pressure fall across valve

The “I” valve is 3-A certified.

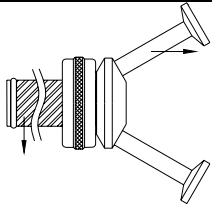
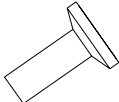
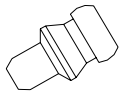
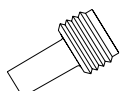
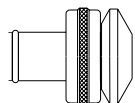
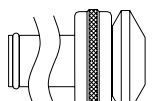


The valve is used in a wide range of business areas, such as breweries, dairies, and the pharmaceutical and biotechnological industries. With wide range of products such as:

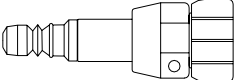
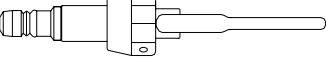
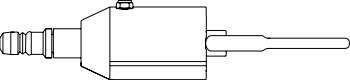
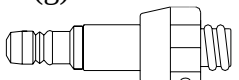
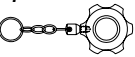
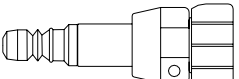
- Unprocessed Milk
- Medical solutions
- Filtered and unfiltered beer
- Perfume.
- Scented oils.

* As the maximum size of particle that can go through the internal structure of valve.

“I” Valve body selection chart.

	Mini Tri-clamp 	Hose Piece 	M16x1,5 
Standard for 52 mm port length 	310002	<i>Not available</i>	<i>Not available</i>
Adaptor for 30 mm port length 	320530	<i>Not available</i>	<i>Not available</i>
Adaptor for 40 mm port length 	320540	<i>Not available</i>	<i>Not available</i>
Other port length - please specify 	<i>On Request</i>	<i>Not available</i>	<i>Not available</i>

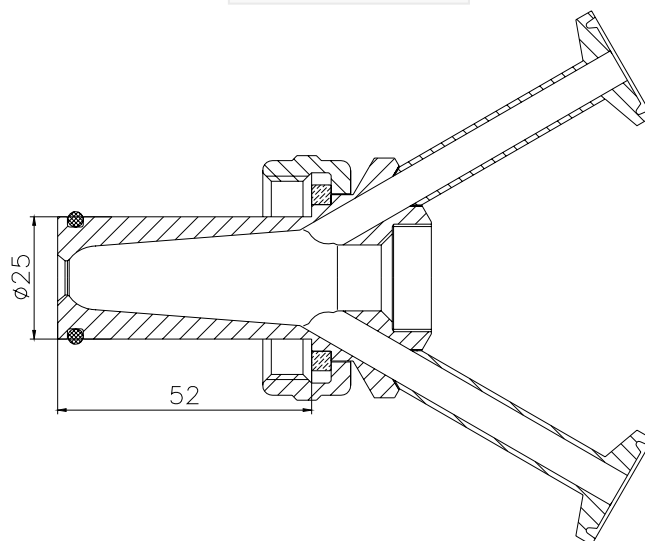
“I” - Valve head selection chart.

52mm	Silicone  -80°C to +200°C*	EPDM  -50°C to +140°C*	PTFE  -200°C to +200°C*
Type H - Turn knob 0-6 bar(g) 	320041	320041E	325541
Type Q - Lever. 0-6 bar(g) 	320043	320043E	325543
Type N – Pneumatic 0-6 bar(g) 	320044	320044E	325544
Type K – Key ring 0-6 bar(g) 	<i>On request</i>	<i>On request</i>	<i>On request</i>
Key ring for valve head 	600076	600076	600076
Type B - Turn knob 0-15 bar(g) 	<i>On request</i>	<i>On request</i>	<i>On request</i>

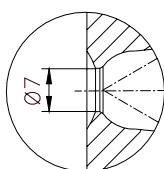
* Range of temperature in dry atmospheric air.

Ingold Valve Bodie.

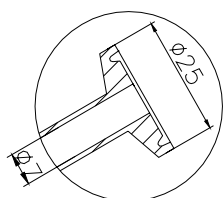
Valve Body I52
Item no.: 320002



Process dimension



In-/outlet dimension



Temp. and Pressure range: Depends on choice of valve head.

Material: AISI 316L (1.4404)

Inner surface: Ra 0.5 µm

Electro polish outside

Material certificate: 3.1.B

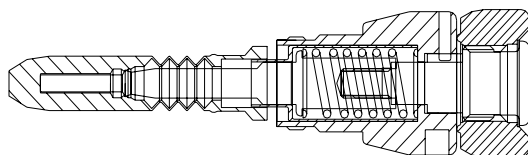
Other lengths available on request.

“I” Valve heads.

Valve Head type H

Item no.:

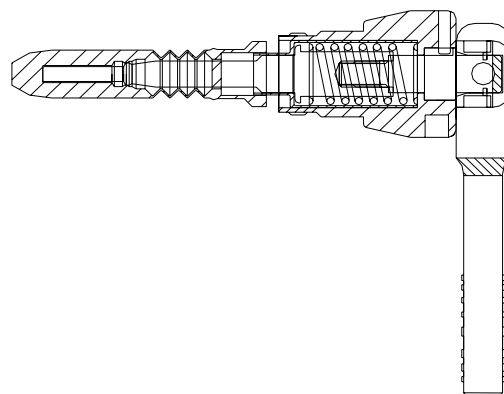
Silicone	320041
EPDM	320041E
PTFE	325541



Valve Head type Q

Item no.:

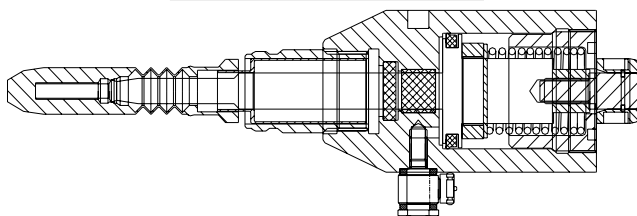
Silicone	320043
EPDM	320043E
PTFE	325543



Valve Head type N

Item no.:

Silicone	320044
EPDM	320044E
PTFE	325544



Membranes:



Silicone membrane
Item no.: 320051
(10 pcs package)



EPDM membrane
Item no.: 320052
(10 pcs package)



PTFE membrane
Item no.: 320055



Tool to Replace PTFE
Item no.: 300255

Temp. range:

Silicone/EPDM:

1° C - 130° C

PTFE:

1° C - 150° C

Max. working pressure:

0-6 bar(g)

Material:

Steel parts AISI 304/316L

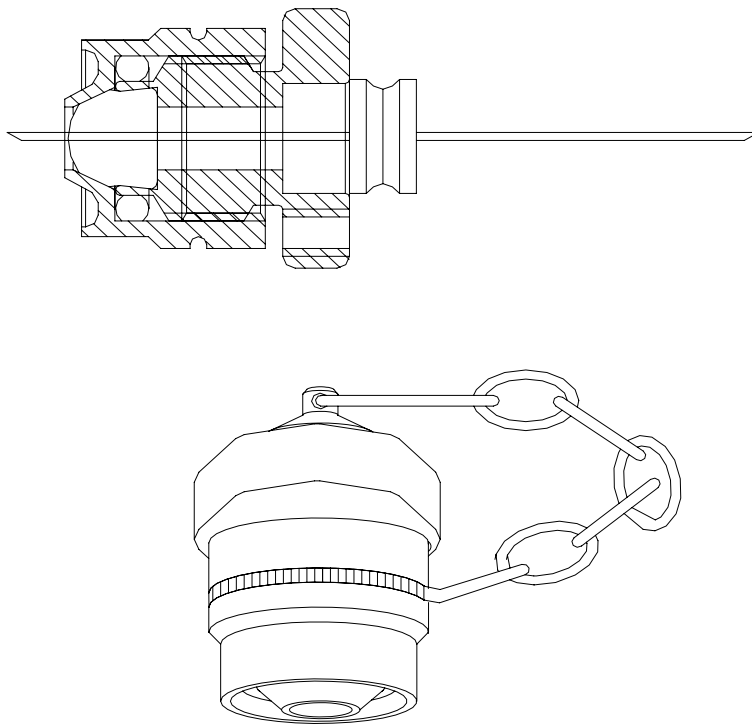
Membranes:

FDA approved compounds.

Micro port.

The Keofitt Micro Ports are designed to take samples with Hypodermic needle or syringe, with minimum risk of contamination. Designed for sampling low viscosity products with microscopic particles in the fluid. The main product range micro ports are used in have about 0-50cP in viscosity.

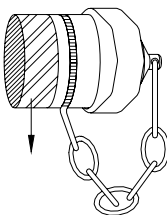
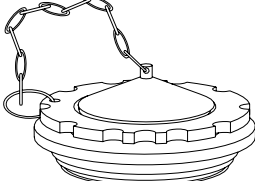
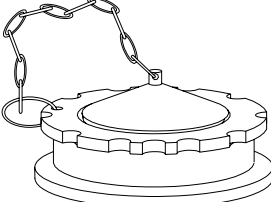
The Keofitt Micro port is hygienic, easy to use and maintain, way of getting samples via hypodermic needle or syringe in a safe way.



The Micro port is used in a range of business areas, such as breweries, dairies, pharmaceutical and biotechnological industries. With wide range of products such as:

- o Water.
- o Milk.
- o Medical solutions.
- o Perfume.

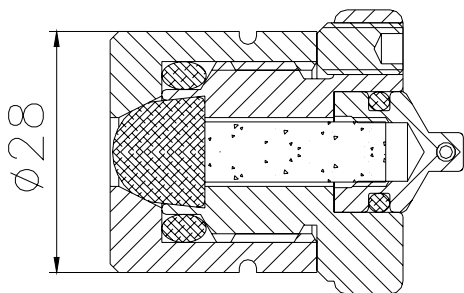
Micro port selection chart.

	EPDM membrane	Silicone membrane	PTFE membrane
			
Tank 	900056	<i>Not available</i>	<i>Not available</i>
Pipe 1" 	900057	<i>Not available</i>	<i>Not available</i>
Multi Micro Port 49™ - Tank welding 	840001	<i>Not available</i>	<i>Not available</i>
Multi Micro Port 49™ Varivent Ø68 	840009	<i>Not available</i>	<i>Not available</i>
Multi Micro Port 49™ 3" clamp. 	840020	<i>Not available</i>	<i>Not available</i>

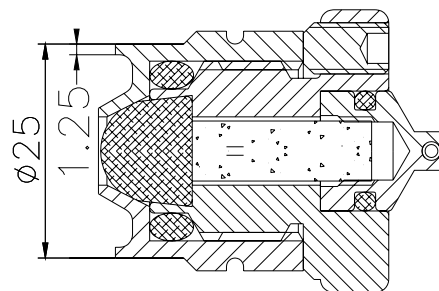
Accessories	EPDM membrane	Silicone membrane	PTFE membrane
Hypodermic needle 	900054	<i>Not available</i>	<i>Not available</i>

Micro Port.

Micro port Type T
Item no.: 900056



Micro port Type P
Item no.: 900057



Accessories:

Membrane

item no. 900049 (10 pcs package)



Wick for Sterilization:

item no. 900056 (100 pcs package)



Hypodermic Needle for sampling:

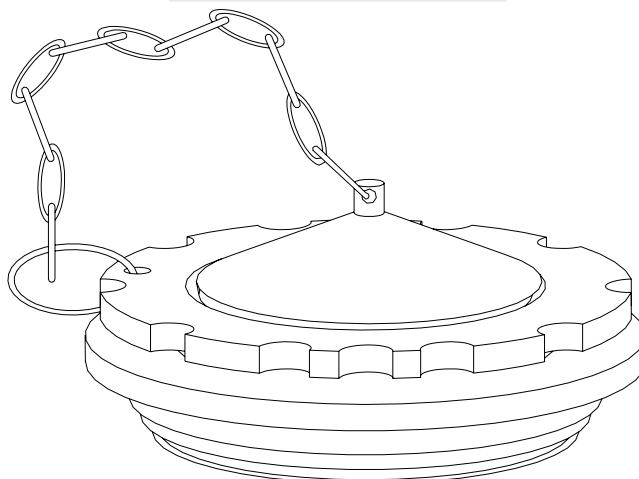
Item no. 900054



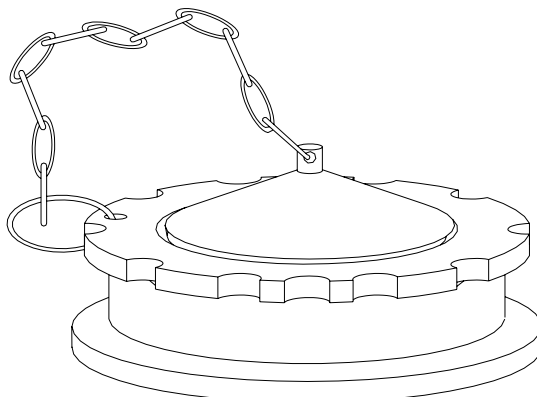
Material:	316L (1,4404)
Membrane:	EPDM
Material certificate:	3.1.B
Inner surface:	Ra 0,8 µm
Electro polish outside	
How to use :	Manually operated.
Pressure:	0-6 bar(g)
Temp. Range:	1-110C

Multi Micro Port.

Multi Micro port VariventØ68
Item no.: 840009



Multi Micro port Clamp 3"
Item no.: 840020



Accessories:

Membrane
item no. 900049 (10 pcs package)



Hypodermic Needle for sampling:
Item no. 900054



Material:	316L (1,4404)
Membrane:	7 x EPDM
Material certificate:	3.1.B
Inner surface:	Ra 0,8 µm
Electro polish outside	
:How to use	.eratedManually op
:Pressure	(g)bar 6-0
:Range .Temp	110°-1C

Sampling bottles.

The Keofitt Aseptic system enables user to take a truly representative aseptic sample. The system protects the sample against airborne contamination, while taking the sample and in transportation. The system is compatible with all small and medium sized sampling valves.

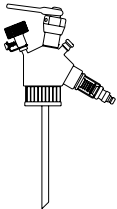
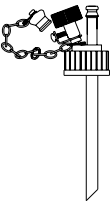
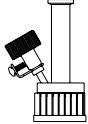
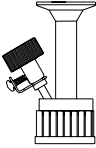
The Keofitt aseptic system is based on Keofitt's guaranteed high quality, ultra hygienic valve design.

Other Keofitt sampling bottle heads offer protection from contamination while sampling and some protection while in transport.

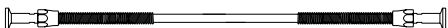
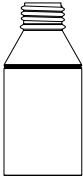
The sampling bottles are used in a wide range of business areas, such as breweries, dairies, and the pharmaceutical and biotechnological industries.



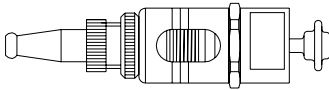
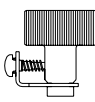
Aseptic system & sampling bottles

Aseptic System Basis Kit  including ➤ Aseptic System Valve ➤ PTFE tube (Quick connection, 0.5m, 550002) ➤ Filling tube for 0,5 litre bottles (260170)	260001
 Sampling bottle head. including PTFE tube (Quick connection, 0.5m, 550002) Filling tube for 0,5 litre bottles (260170)	260030
 Sampling bottle head for W15. Mini tri-clamp.	860030
 Sampling bottle head for W25. Clamp 1"	870030

Accessories

	Size	
Aseptic System Accessory Kit including:   Stand  Sampling bottle	260500 0.5 litre bottle	261000 1 litre bottle
Filling tube for bottles suitable for:  Aseptic System Basis Kit Sampling bottle head	260170 short filling tube for 0.5 litre bottles	260270 long filling tube for 1 litre bottles
PTFE tube with Quick connection. 	550002t 0.5m	550003 1,0m
PTFE tube with Mini Tri-clamp connection. 	550004 0.5m	550005 1,0m
Sampling Bottle 	260200 0.5 litre bottle	260300 1 litre bottle

Spare Parts

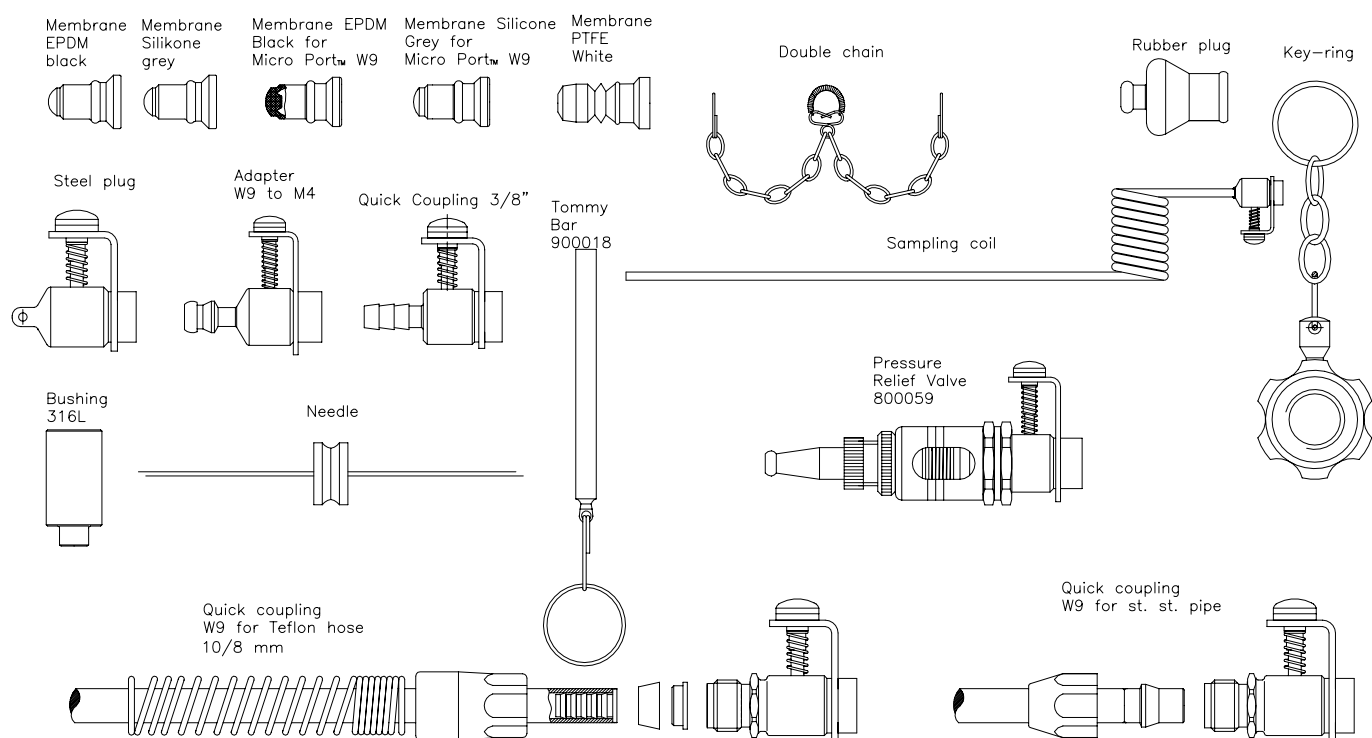
Pressure relief valve 	260059 <i>Aseptic system</i>
Snap clutch for sterile filter 	260081
Sterile filter 	260122
Rubber handle 	260118
PTFE Coated Gasket 	260115
O-rings 	260159

Accessories.

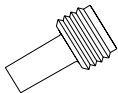
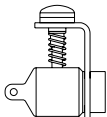
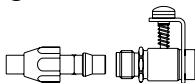
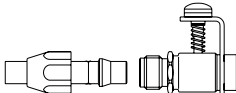
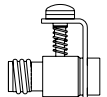
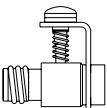
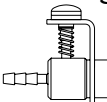
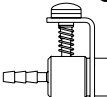
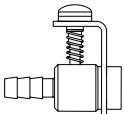
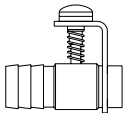
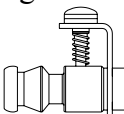
Keofitt offers a wide range of valve accessories designed for maximum hygienic properties.

Keofitt accessories are produced to maximise the field of application that Keofitt sampling valves can be used in. With security and without the danger of outside contamination.

Specialised connections or other accessories can be supplied on request.



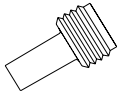
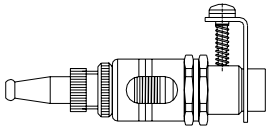
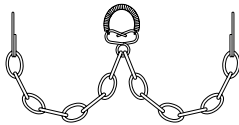
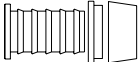
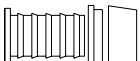
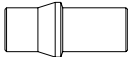
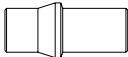
Accessories selection chart.

	Hose piece M4 	Hose piece W9 	Thread 
Steel plug 	400061	800061	<i>Not Available</i>
Tube fitting – 8x1 St.St. Pipe 	400070	<i>Not Available</i>	<i>Not Available</i>
Tube fitting – 10x1 St.St. Pipe 	<i>Not Available</i>	800070	<i>Not Available</i>
Tube fitting for 8x1 PTFE Hose 	400071	<i>Not Available</i>	400075
Tube fitting for 10x1 PTFE Hose 	<i>Not Available</i>	800071	700071
Tube fitting for tubing 3/8 	<i>Not Available</i>	800082	<i>Not Available</i>
Tube fitting for tubing ID2 - M4 	400082	<i>Not Available</i>	<i>Not Available</i>
Tube fitting for ID 4 tubing - M4 	400084	<i>Not Available</i>	<i>Not Available</i>
Tube fitting for OD13, 5 / ID 5,0 tubing - M4 	400085	<i>Not Available</i>	<i>Not Available</i>
Quick coupling converter. 	400086 M4 to W9	800086 W9 to M4	<i>Not Available</i>

Data sheets available at:

www.keofitt.dk

Accessories selection chart.

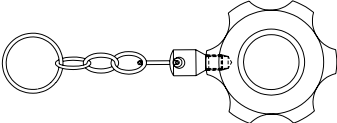
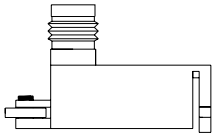
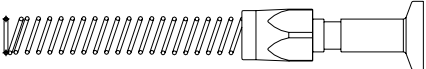
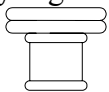
	Quick Coupling M4 	Quick Coupling W9 	Thread 
Sampling coil 	400058	800058	<i>Not Available</i>
Pressure relief valve 	400059	850059	<i>Not Available</i>
Rubber plug (10 pcs package) 	400062	600062	<i>Not Available</i>
Double chain 	400064	600064	600064
Ferrule and compression fitting for 8x1 PTFE tube 	400073	<i>Not Available</i>	400073
Ferrule and compression fitting for 10x1 PTFE tube 	<i>Not Available</i>	600073	600073
Welding liner for 8x1 steel pipe 	400074	<i>Not Available</i>	400074
Welding liner for 10x1 steel pipe 	<i>Not Available</i>	600074	600074
PTFE tube with Quick connection. 	550002 0.5m	550003 1,5m	<i>Not Available</i>
Hex nut. 	400072	600072	600072



Data sheets available at:

www.keofitt.dk

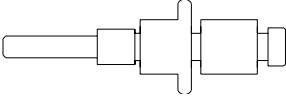
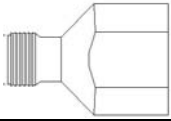
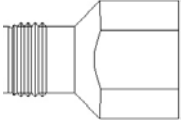
Accessories selection chart.

	M4	W9, I40, I52.	Micro port.
Bushing for membrane. 	400149	600149	<i>Not Available</i>
Key-ring, for valve K. 	400076	600076	<i>Not Available</i>
Proximity switch. 	<i>Not Available</i>	600166	<i>Not Available</i>
Proximity switch plug. 	<i>Not Available</i>	600167	<i>Not Available</i>
Mini Tri-clamp for PTFE. 	<i>Not Available</i>	300021	<i>Not Available</i>
Adapter for Syringe. 	<i>Not Available</i>	900045	<i>Not Available</i>
Hypodermic needle. 	<i>Not Available</i>	900022 154mm.	900054 91mm
Cotton wick. (100 pcs package) 	<i>Not Available</i>	900069	900055

Data sheets available at:

www.keofitt.dk

Accessories selection chart..

		Old MSN Valve	
Membrane Tool 	<i>Not Available</i>	100011	
Assembly tool for Compression fittings ID8 	900020	<i>Not Available</i>	
Assembly tool for Compression fittings ID10 	900046	<i>Not Available</i>	
Assembly tommy bar 	900018	<i>Not Available</i>	
PTFE tubing 10x1 	900047	<i>Not Available</i>	
PTFE tubing 8x1 	900048	<i>Not Available</i>	

Data sheets available at:

www.keofitt.dk

Membranes selection chart..

	PTFE  -200°C to +200°C*	Silicon  -80°C to +200°C*	EPDM  -50°C to +140°C*	Tool to replace PTFE. 
M4 Valve	400055	400051 (10 pcs package)	400052 (10 pcs package)	400255
W9 Valve	850055	600051 (10 pcs package)	600052 (10 pcs package)	600255
With Micro port option	<i>Not Available</i>	600251	600252	<i>Not Available</i>
W15 Valve	860055	<i>Not Available</i>	<i>Not Available</i>	300255
W25 Valve	870055	<i>Not Available</i>	<i>Not Available</i>	870255
Old I40 Valve	310055	310051	310052	300255
I Valve/ old I52 Valve	320055	320051 (10 pcs package)	320052 (10 pcs package)	300255
Old MSV valve	<i>Not Available</i>	100026	100025	<i>Not Available</i>
Micro Port	<i>Not Available</i>	<i>Not Available</i>	900049 (10 pcs package) 	<i>Not Available</i>

* Range of temperature in dry atmospheric air.

PTFE Membranes



I40 Valves
Item no. 310055 (56mm)



I52 Valves
Item no. 320055 (68mm)



M4 Valves
Item no. 400055 (20mm)



W9 Valves
Item no. 850055 (32mm)



W15 Valves
Item no. 860055 (51mm)



W25 Valves
Item no. 870055 (83,5mm)

Technical Specification:

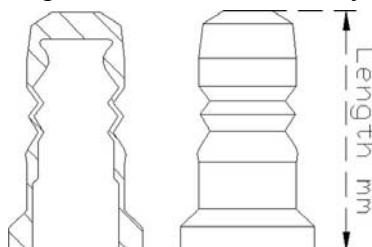
Material:	TFM 1600 PTFE
Colour	White
Range of temperature in dry atmospheric air.	- 200 - +200°C
Ball hardness	N/mm ² 29
Tensile strength	DIN53455 N/mm ² 35
Elongation at break	DIN53455 % 350
Density	DIN 53479 g/cm ³ 2.17
Shore D	DIN 53505 57
Thermal conductivity	W/m.k DIN 57572 0.25-0.5
Expansion Coefficient	DIN 52612 9-12x10 ⁻⁵ K ⁻¹
Friction coefficient	very low (<0.1)
Flammability	Inflammable UL 94VO
Chemical resistance	*
Food safe	Yes (FDA**)

* Is not attacked by common chemicals, with the exception of strongly oxidising acids.

**FDA approved compound according to Code of Federal Regulations Title 21 - § 177.1550

Keofitt guaranties 1 year of lasting by normal use means (silicone has to be changed appr. every 2-3 months):

Temp.....115-130⁰C
Steam pressure.....1,5-2,5 bar
Process pressure....1-6 bar
Cip.....Nho4 < 3% or similar
Samples.....1-5 a day



Silicone Membranes



MSV Valves
Item no. 100026 (46mm)



I40 Valves
Item no. 310051 (53mm)



I52 Valves
Item no. 320051 (66mm)



M4 Valves
Item no. 400051 (16mm)



W9 Valves
Item no. 600051 (27mm)



W9 Valves with Micro Port
Item no. 600251 (27mm)

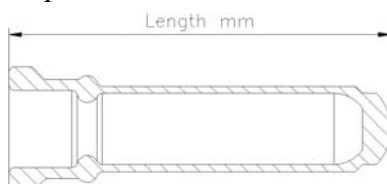
Technical Specification:

Membrane:	310051, 320051, 400051, 600051, 600251.	100026
Type:	Silicone (Si, Q)	Silicone (Si, Q)
Colour	Light Grey	Red
Hardness °Sha	60	70±5
Tensile strength MPa	10,5	7,5
Elongation at break %	530	350
Density g/cm ³	1.17	1,17 ±0,03
Range of temperature in dry atmospheric air °C	-80 - + 200°C	-60 - +200°C
Compression set, DIN 53517, 24h/175°C %	30	20
Wear resistance	Less suitable (1)	N/A
Tear resistance	Very good (3)	Medium
Resistance to Weather and Ozone	Excellent (4)	Excellent
Resistance to Hydrolysis (water and steam)	Good (2-3)	Good / medium
Resistance to Chemicals (acids/bases)	Suitable (2)	Good / medium
Resistance to mineral oil and gas	Less suitable (1)	Medium
Air and gas density	Not suitable (0)	N/A
Food safe	Yes (FDA*)	Yes (FDA*)

*FDA approved compound according to Code of Federal Regulations Title 21 - § 177.2600

Average live time of a silicone membrane is 2-3 months of lasting by normal use means:

Temp. max:.....121⁰C
Steam pressure max:....2 bar(g)
Process pressure.....1-6 bar
Cip.....Nho4 < 3% or similar
Samples.....1-5 a day



EPDM Membranes



MSV Valves
Item no. 100025 (46mm)



I40 Valves
Item no. 310052 (53mm)



I52 Valves
Item no. 320052 (66mm)



M4 Valves
Item no. 400052 (16mm)



W9 Valves
Item no. 600052 (27mm)



W9 Valves with Micro Port
Item no. 600252 (27mm)

Technical Specification:

Membrane:	310052, 320052, 400052, 600052, 600252.	100025
Type:	EPDM	EPDM
Colour	Black	Grey
Hardness IRHD/ °Sha	61/59	58±5
Tensile strength MPa	16	10,5
Elongation at break %	400	500
Density g/cm ³	1.1	1,14±0,03
Range of temperature in dry atmospheric air °C	-50 - + 140°C	-40 - + 100°C
Compression set, DIN 53517, 24h/175°C %	18	25
Wear resistance	Very good (3)	N/A
Tear resistance	Very good (3)	Medium
Resistance to Weather and Ozone	Excellent (4)	Excellent
Resistance to Hydrolysis (water and steam)	Excellent (4)	Excellent
Resistance to Chemicals (acids/bases)	Very good (3)	Excellent
Resistance to mineral oil and gas	Not suitable (0)	Limited
Air and gas density	Less suitable (1)	N/A
Food safe	Yes (FDA*)	Yes (FDA*)

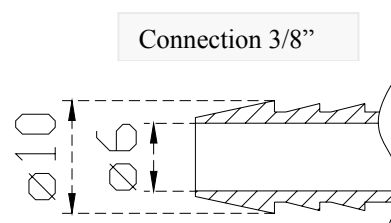
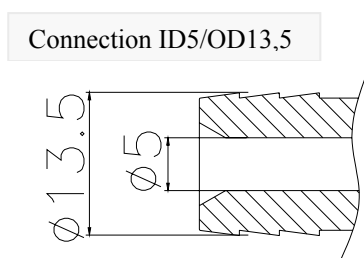
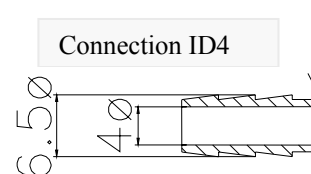
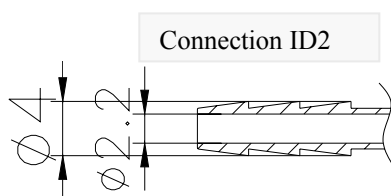
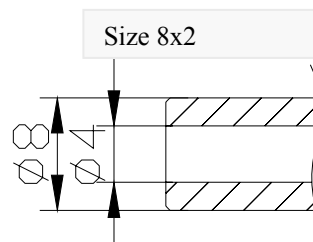
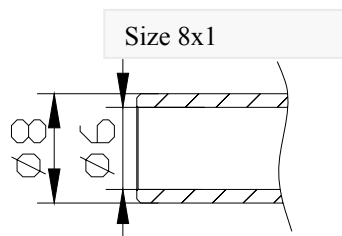
*FDA approved compound according to Code of Federal Regulations Title 21 - § 177.2600

Average live time of an EPDM membrane is 2-3 months of lasting by normal use means:

Temp. max:.....121°C
Steam pressure max:...2 bar(g)
Process pressure.....1-6 bar
Cip.....Nho4 < 3% or similar
Samples.....1-5 a day



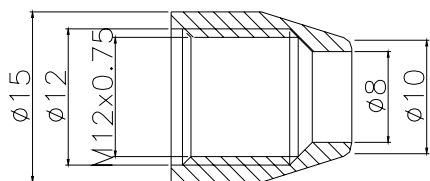
Accessories with pipe/tube connection.



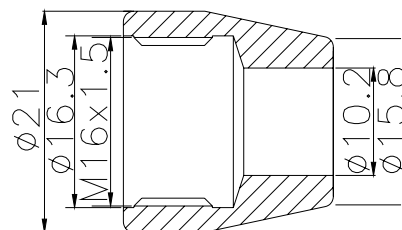
Material: 316L (1, 4404)
Other versions available on request.

Steel accessories.

Hex nut M4
Item no.400072



Hex nut W9
Item no.600072



Bushing M4
Item no.400149



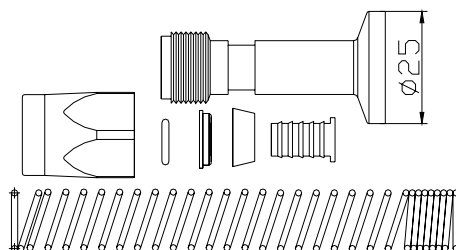
Bushing W9
Item no.600149



Material hex nut: AISI 316L (1, 4404)
Material Bushing: AISI 304

Accessories.

Mini Tri-Clamp w/PTFE
Item no.300021

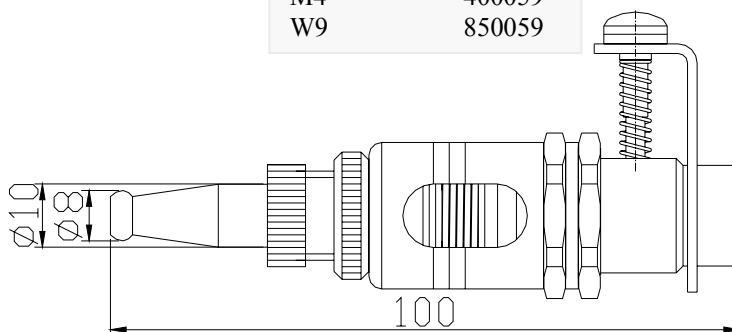


Pressure relief valve

Item no.

M4 400059

W9 850059

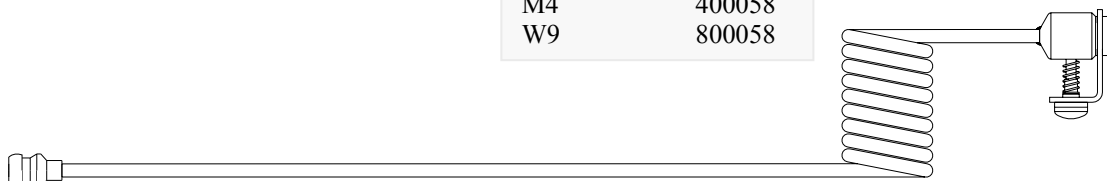


Sampling coil

Item no.

M4 400058

W9 800058



Material:

AISI 316L (1, 4404)

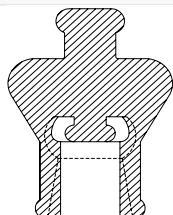
Accessories.

Rubber plug

Item no.

M4 400062

W9 600062

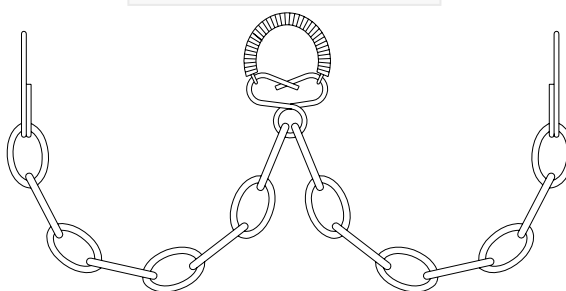


Double chain

Item no.

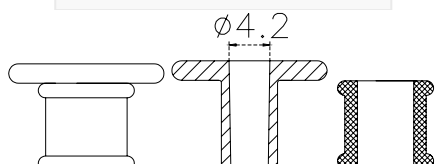
M4 400064

W9 600064



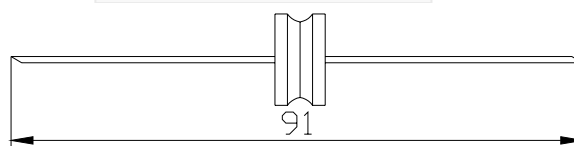
Adapter for syringe W9

Item no. 900045



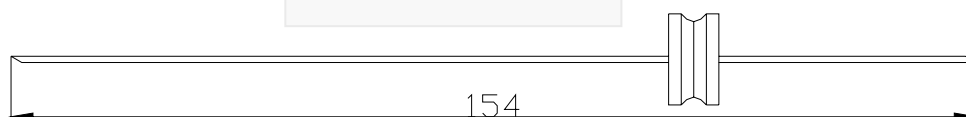
Hypodermic needle short

Item no. 900054



Hypodermic needle long

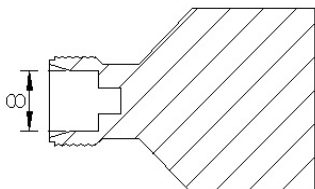
Item no. 900022



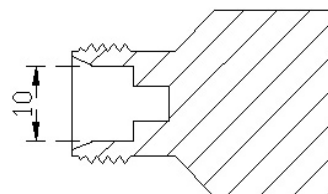
Material: Stainless steel and rubber, for further info see data sheets on web

Accessories.

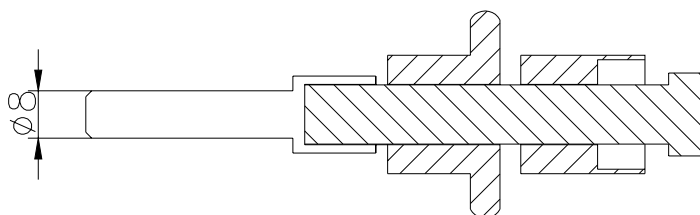
Assembly tool ID8
Item no. 900020



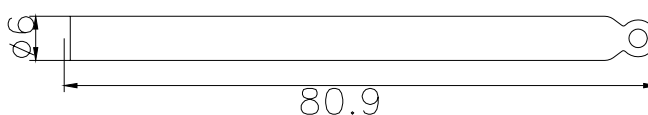
Assembly tool ID10
Item no. 900046



Membrane tool MSV
Item no. 100011



Assembly tommy bar
Item no. 900018



Material: Stainless steel, for further info see data sheets on web

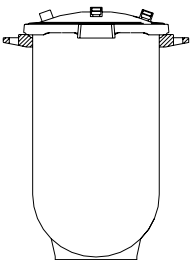
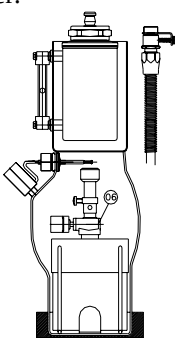
Other products.

Keofitt offers products designed to increase food safety and precision.

These include products such as the Carlsberg flask for fermentation and the Steam boiler for a simple portable steam source.

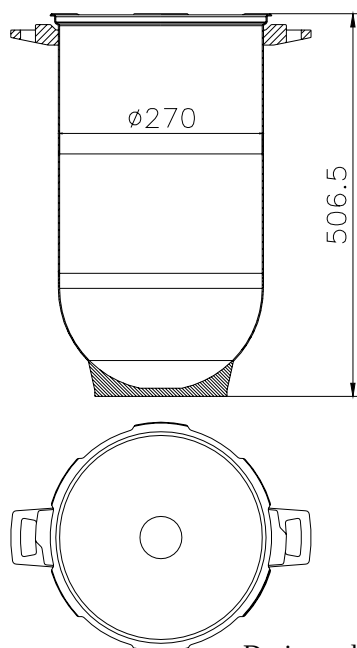


Other Products selection Chart.

Carlsberg Flask. 	200001		
Steam Boiler. 	550000 <i>With PTFE hose</i>		
Gas Canister – C206 	<i>Available on request</i>		

Other Products.

Carlsberg flask
Item no.:200001



Where to use:
Material:

How to use:
Net weight:
Size

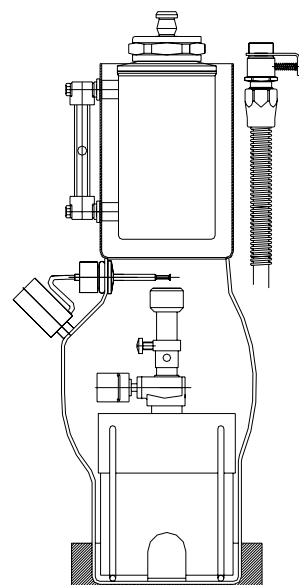
During cultivation of yeast or culture
AISI 316L (1,4404) see also Data
sheet on Keofitt.dk
Manually operated. See manual.
11,5 kg/pc.
25L.

Material:

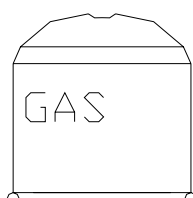
Net weight:
Capacity:
Ignition:
Burner:
Dimension:

AISI 316L (1,4404)
see also Data sheet on
Keofitt.dk
1,8 kg/pc.
250ml water.
Piezoelectric.
Labogaz.
Ø100 x 380mm

Steam boiler
Item no.:550000



Gas Canister C206
Item no.: N/A





Price list 2006-1

- Page 2** Sampling valve M4 : Valve Bodies
Sampling valve M4 : Valve Heads
Sampling valve M4 : Spares and Accessories
- Page 3** Sampling valve W9 : Valve Bodies
Sampling valve W9 : Valve Heads
- Page 4** Sampling valve W9 : Spares and Accessories
- Page 5** Sampling valve W15: Valve Bodies
Sampling valve W15: Valve Heads
Sampling valve W25: Valve Bodies
Sampling valve W25: Valve Heads
- Page 6** Sampling valve "I" for Ingold® port: Valve Bodies
Sampling valve "I" Ingold® port : Valve Heads
Sampling valve "I" Spare parts and accessories
- Page 7** Aseptic System.
Sampling Bottles
Accessories for Sampling
Steam boiler
- Page 8** MicroPorts™
MultiMicroPorts™
MicroPorts™, spareparts
MSV valve / Combi Valve - spareparts
Automatic /Semiautomatic system
Remote controls
Carlsberg Flask

Customer:



Item no.



Price List valid for periode:

01-01-2006 - 31-12-2006

Discount rate:

Group A

Group B

Updated and detailed data sheets available at:

www.keofitt.dk

M4 valve bodies:

Item no.	Seat:	In-/outlets:	Price each, €	Prod. Group
400001	Tank Welding	Hose pieces	267,00	A
400011	Pipe Welding	Hose pieces	286,00	A
400014	Pipe Welding NW25	Hose pieces	286,00	A
400021	Tri Clamp ½" (OD 25 mm)	Hose pieces	300,00	A
400022	Tri Clamp 1" (OD 50,4 mm)	Hose pieces	308,00	A
400031	Thread M28x1.5, incl. welding socket	Hose pieces	310,00	A
400009	Varivent® Ø68	Hose pieces	527,00	A
400010	Varivent® Ø50	Hose pieces	487,00	A

M4 valve heads:

Item no.	Operation	Membrane	Price each, €	Prod. Group
400041	Turn-knob type H	Silicone	80,00	A
400041E	Turn-knob type H	EPDM	80,00	A
405541	Turn-knob type H	PTFE-TFM 1600	80,00	A
400042	For Key-ring type K	Silicone	75,00	A
400042E	For Key-ring type K	EPDM	75,00	A
405542	For Key-ring type K	PTFE-TFM 1600	75,00	A
400076	Key-ring, turn-knob for M4 Key-ring valve head 40xx42		49,00	A
400043	Lever handle type Q	Silicone	107,00	A
400043E	Lever handle type Q	EPDM	107,00	A
405543	Lever handle type Q	PTFE-TFM 1600	107,00	A
400044	Pneumatic and lever type N	Silicone	461,00	A
400044E	Pneumatic and lever type N	EPDM	461,00	A
405544	Pneumatic and lever type N	PTFE-TFM 1600	461,00	A
405547	Turn-knob 0-15bar(g)	Silicone	85,00	A
400047E	Turn-knob 0-15bar(g)	EPDM	85,00	A
405547	Turn-knob 0-15bar(g)	PTFE-TFM 1600	85,00	A

M4 spare parts:

Item no.	Name	Price each, €	Prod. Group
400051	Membrane, silicon (grey), 10 pcs package	85,00	A
400052	Membrane, EPDM (black), 10 pcs package	85,00	A
400055	Membrane, PTFE (TFM 1600) white	56,00	A
400255	Tool for dismantling PTFE membrane	8,00	A
400062	Rubber cap , 10 pcs package	70,00	A
400064	Double stainless steel chain	24,00	A
400149	Bushing, st. steel, for membrane	16,00	A
400208	O-ring 60 x 3 - Black EPDM	9,80	A
400308	O-ring 43 x 3 - Black EPDM	11,50	A
400820	O-ring 15,3 x 2,4 Black EPDM	1,30	A
400830	O-ring 5,3 x 2,4 Red Silicon	1,30	A
600825	O-ring 7,1 x 1,6 Red Silicon	1,00	A
900820	O-ring 5,1 x 1,6 Red Silicon	1,00	A
900829	O-ring 21 x 4 Black EPDM	5,40	A

M4 accessories:

400058	Sampling coil	237,00	A
400059	Adjustable pressure relief valve	200,00	A
400061	Quick release plug	30,00	A
400067	Hose piece M4 for welding (10x1)	19,00	A
400070	Quick release tube fitting for 8x1 st. st. pipe (incl. ref. 400074)	74,00	A
400071	Quick release tube fitting for 8x1 PTFE tube (incl. ref. 400073)	76,00	A
400082	Quick release tube fitting for ID 2 tubing	63,00	A
400084	Quick release tube fitting for ID 4 tubing	63,00	A
400085	Quick release tube fitting for OD13,5 / ID 5 tubing	63,00	A
400086	Quick release conversion M4 to W9	63,00	A
900048	PTFE tubing, 8x1	per meter: 16,00	A
900008	Socket for Alu-tank	for 850031 37,00	A

M4 Upgrades

404155	Kit for change of manual valve head to PTFE	68,00	A
404455	Kit for change of pneumatic valve head to PTFE	98,00	A

W9 valve bodies for welding:

Item no.	Seat	In-/outlets:	Price each, €	Prod. Group
850001	Tank	Hose pieces	343,00	A
850006	Tank	Mini Tri-clamp	396,00	A
850015	Tank	M16x1,5	300,00	A
850010	Pipe 1"	Mini Tri-clamp	417,00	A
850011	Pipe 1"	Hose pieces	364,00	A
850016	Pipe 1"	M16x1,5	321,00	A
850014	Pipe NW25	Hose pieces	364,00	A

W9 valve bodies for connections:

Item no.	Seat	In-/outlets:	Price each, €	Prod. Group
850021	Clamp 1" (OD Clamp: 50,3 mm)	Hose pieces	376,00	A
850022	Clamp 1" (OD Clamp: 50,3 mm)	Mini Tri-clamp	429,00	A
850024	Clamp 1" (OD Clamp: 50,3 mm)	M16x1,5	333,00	A
850003	Clamp 2" (OD Clamp: 64,0 mm)	Hose pieces	424,00	A
850005	Clamp 2" (OD Clamp: 64,0 mm)	Mini Tri-clamp	477,00	A
850008	Varivent® ø50	Hose pieces	542,00	A
850009	Varivent® ø68	Hose pieces	583,00	A
850031	Thread M28x1.5 incl. Socket.	Hose pieces	384,00	A

W9 valve heads:

Item no.	Operation	Membrane	Price each, €	Prod. Group
600041	Turn-knob type H	Silicone	146,00	A
600041E	Turn-knob type H	EPDM	146,00	A
855541	Turn-knob type H	PTFE-TFM 1600	146,00	A
600048	Turn-knob with MicroPort	Silicone	184,00	A
600048E	Turn-knob with MicroPort	EPDM	184,00	A
600042	For Key-ring type K	Silicone	129,00	A
600042E	For Key-ring type K	EPDM	129,00	A
855542	For Key-ring type K	PTFE-TFM 1600	129,00	A
600049	For Key-ring with MicroPort	Silicone	172,00	A
600049E	For Key-ring with MicroPort	EPDM	172,00	A
600076	Key-ring, turn-knob for W9 Key-ring valve head		69,00	A
600043	Lever handle	Silicone	166,00	A
600043E	Lever handle	EPDM	166,00	A
855543	Lever handle	PTFE-TFM 1600	166,00	A
600044	Pneumatic and lever	Silicone	532,00	A
600044E	Pneumatic and lever	EPDM	532,00	A
855544	Pneumatic and lever	PTFE-TFM 1600	532,00	A
600047	Turn-knob 0-15bar(g)	Silicone	146,00	A
600047E	Turn-knob 0-15bar(g)	EPDM	146,00	A
855547	Turn-knob 0-15bar(g)	PTFE-TFM 1600	146,00	A

W9 spare parts:

Item no.	Name	Price each, €	Prod. Group
600051	Membrane, silicon (grey), 10 pcs package	106,00	A
600052	Membrane, EPDM (black), 10 pcs package	106,00	A
600251	Membrane, silicon (grey) for 600048/600049, 10 pcs.	127,00	A
600252	Membrane, EPDM (black) for 600048/600049, 10 pcs.	127,00	A
850055	Membrane, PTFE (TFM 1600), white	56,00	A
600255	Tool for dismounting PTFE membrane	8,00	A
600062	Rubber cap, bags of 10 pcs	70,00	A
600064	Double stainless steel chain	24,00	A
600149	Bushing, st. steel, for membrane	16,00	A
900069	Cotton wick for ref. 600048/600049, 100 pcs package	21,00	A
400208	O-ring 60 x 3 - Black EPDM	9,80	A
400308	O-ring 43 x 3 - Black EPDM	11,50	A
400830	O-ring 5,3 x 2,4 Red Silicon	1,30	A
600825	O-ring 7,1 x 1,6 Red Silicon	1,00	A
800830	O-ring 10,3 x 2,4 Red Silicon	1,30	A
800859	O-ring 7,5 x 2,5 x 2,4 Red Silicon	3,10	A
850820	Piston ring ø32 - Black NBR	3,10	A
850821	O-ring 16,1 x 6 - Black NBR	3,80	A
850822	Piston ring - White PTFE	1,50	A
900829	O-ring 21 x 4 Black EPDM	5,40	A

W9 Accessories:

800058	Sampling coil	257,00	A
850059	Adjustable pressure relief valve	200,00	A
550057	Adapter Kärcher/Keofitt	170,00	A
600166	Proximity switch for Pneumatic valve head	80,00	A
600167	Plug for proximity switch for Pneumatic valve head	24,00	A
800061	Quick release plug	48,00	A
800070	Quick release tube fitting for 10x1 st. st. pipe (incl. ref. 600070)	110,00	A
700070	Tube fitting for steel pipe, for M16x1,5 in-/outlets	32,00	A
800071	Quick release tube fitting for 10x1 PTFE tube (incl. ref. 600071)	113,00	A
700071	Tube fitting for PTFE tube, for M16x1,5 in-/outlets	35,00	A
700084	Tube fitting with barb, for M16x1,5 in-/outlets	35,00	A
300021	Clamp fitting for PTFE tube 10x1	92,00	A
800082	Quick release fitting w 3/8" hose barb	63,00	A
800086	Quick release conversion fitting w/M4 hose piece	63,00	A
900096	Hose piece W9 adapter for Mini Clamp	27,00	A
700108	Hose piece W9 for welding	22,00	A
800075	Welding Piece for Teflon hose	23,00	A
900008	Socket for Alu-tank	37,00	A
900047	PTFE tubing, 10x1 per meter:	16,00	A

W9 Upgrades

854155	Kit for change of manual valve head to PTFE	70,00	A
854455	Kit for change of pneumatic valve head to PTFE	104,00	A

W15 valve bodies

Item no.	Seat	In-/outlets:	Price each, €	Prod. Group
860001	Tank welding	Mini Tri-clamp	1.256,00	A
860011	Pipe welding	Mini Tri-clamp	1.415,00	A
860003	Clamp connection	Mini Tri-clamp	1.468,00	A
860009	Varivent® Ø68	Mini Tri-clamp	1.496,00	A

W15 valve heads:

		Membrane		
865541	Turn-knob	PTFE-TFM 1600	678,00	A
865544	Pneumatic actuator	PTFE-TFM 1600	901,00	A

W15 spare parts

Item no.	Name	Price each, €	Prod. Group
860055	Membrane, PTFE (TFM 1600) white	141,00	A
860255	Tool for dismounting PTFE membrane	8,00	A

W25 valve bodies

Item no.	Seat	In-/outlets:	Price each, €	Prod. Group
870001	Tank	Clamp 1"	1.548,00	A

W25 valve head:

		Membrane:		
875547	Turn-knob - no spring	PTFE-TFM 1600	837,00	A
875544	Pneumatic actuator	PTFE-TFM 1600	1.219,00	A
874455	KIT for SRC 3135302062 AL	PTFE-TFM 1600	537,00	A

W25 spare parts:

870055	Membrane, PTFE (TFM 1600) white	152,00	A
870255	Tool for dismounting PTFE membrane	15,00	A

"I" - Keofitt valve body for ID25 mm Ingold® Port

Item no.	Seat:	In-/outlets	Price each, €	Prod. Group
320002	Standard for 52 mm port length	Mini Tri-clamp	844,00	A
320530	Adaptor for 30 mm ports length	Mini Tri-clamp	74,00	A
320540	Adaptor for 40 mm port length	Mini Tri-clamp	74,00	A
	Other port length - please specify		on request	on request

"I"-Keofitt valve heads:

320041	Turn-knob	Silicone	235,00	A
320041E	Turn-knob	EPDM	235,00	A
325541	Turn-knob	PTFE-TFM 1600	341,00	A
320043	Lever handle	Silicone	265,00	A
320043E	Lever handle	EPDM	265,00	A
325543	Lever handle	PTFE-TFM 1600	371,00	A
320044	Pneumatic and lever	Silicone	793,00	A
320044E	Pneumatic and lever	EPDM	793,00	A
325544	Pneumatic and lever	PTFE-TFM 1600	899,00	A

**When ordering Please specify if EPDM membrane is requested.*

"I" spare parts & accessories:

320051	Membrane, silicon (grey) 10 pcs	160,00	A
320052	Membrane, EPDM (black)	160,00	A
320055	Membrane, PTFE (TFM 1600), white	80,00	A
300255	Tool for dismounting PTFE membrane	8,00	A
324155	Kit for change of manual valvehead to PTFE	99,00	A
324455	Kit for change of pneumatic valve head to PTFE	127,00	A
600149	Bushing for membrane	16,00	A
300118	O-ring, Black EPDM - USP cl. 6	16,00	
300119	O-ring , Red Silicon FDA	2,70	

Special parts for " I40" valves (sold before 2005)

310041	I40 Valve head Turn-knob	Silicone	225,00	A
315541	I40 Valve head Turn-knob	PTFE-TFM 1600	340,00	A
310043	I40 Valve head Lever handle	Silicone	255,00	A
315543	I40 Valve head Lever handle	PTFE-TFM 1600	360,00	A
310051	Membrane, silicon (grey)10 pcs		160,00	A
310052	Membrane, EPDM (black)10 pcs		160,00	A
310055	Membrane, PTFE (TFM 1600), white		80,00	A
314155	Kit for change of manual head to PTFE		99,00	A
314455	Kit for change of pneumatic valve head (to PTFE)		127,00	A

Sampling bottles

Item no. 0	Name	Connection	Price each, €	Prod. Group
260001	Aseptic Sampling System, without stand and bottle	W9 Hosepiece	1.484,00	B
260030	Sample bottle head, without stand and bottle	W9 Hosepiece	519,00	B
860030	Sample bottle head for W15 (without bottle)	Mini TriClamp	625,00	B
870030	Sample bottle head for W25 (without bottle)	Clamp 1"	731,00	B

Accessories:

Item no. 0	Name	Size	Price each, €	Prod. Group
260500	Stand and bottle for 500 mm. Aseptic bottle	500 ml.	371,00	B
261000	Stand and bottle for 1000 mm. Aseptic bottle	1000 ml.	371,00	B
260170	Filling tube , 500 ml	500 ml	47,00	B
260270	Filling tube, 1000 ml.	1000 ml	47,00	B
260200	Glass bottle	500 ml	13,00	B
260210	Glass bottle - PVC Coated	500 ml	30,00	B
260300	Glass bottle	1000 ml	18,00	B
260310	Glass bottle - PVC Coated	1000 ml	43,00	B
550002	Connection hose PTFE - w/ quick release	0.5 m	196,00	B
550003	Connection hose PTFE - w/ quick release	1.0 m	212,00	B
550004	Connection hose PTFE - w/ mini clamp	0.5 m	196,00	B
550005	Connection hose PTFE - w/ mini clamp	1.0 m	212,00	B

Sparparts for sampling Bottles

Item no.	Name	Application	Price each, €	Prod. Group
260059	Pressure relief valve	for aseptic sys.	138,00	B
260081	Snap Clutch for Sterile filter 260122	for aseptic sys.	83,00	B
260115	PTFE Coated Gasket	for aseptic sys.	24,00	B
260118	Rubber Handle	for aseptic sys.	11,00	B
260156	O-ring EPDM, 9,5 x 2,0	for aseptic sys.	8,00	B
260158	O-ring EPDM, 22,23x2,62	for aseptic sys.	1,30	B
260159	O-ring EPDM, 24,6 x 2,4	for aseptic sys.	1,00	B
400830	O-ring Silicon, 5,3 x 2,4	for aseptic sys.	1,30	B
600825	O-ring Silicon, 7,1 x 1,6	for aseptic sys.	1,00	B
800830	O-ring Silicon, 10,3 x 2,4	for aseptic sys.	1,30	B
800859	O-ring Silicon, 7,5 x 2,5	for aseptic sys.	3,10	B
800061	St. St. Plug	for aseptic sys.	48,00	A
855543	Valve head type Q (PTFE-TFM1600)	for aseptic sys.	166,00	A
850055	Membrane, PTFE (TFM 1600), white	for aseptic sys.	56,00	A
600255	Tool for dismounting PTFE membrane	for aseptic sys.	8,00	A

Steam Boiler

Item no. 0	System	Size	Price each, €	Prod. Group
550000	Steam Boiler, without gas canister	250 ml	764,00	B

Spare parts

550002	Connection hose PTFE - w/ quick release	0.5 m	196,00	B
550060	Level Gauge . Complete		72,00	B
550142	Burner stand /Nozzle		127,00	B

MicroPort™

Item no.	Seat:	Septum	Price each, €	Prod. Group
900056	Tank welding	EPDM	111,00	A
900057	Pipe welding 1"	EPDM	148,00	A
900014	Pipe NW25	EPDM	148,00	A

Multi MicroPort 49™:

840001	Tank welding	EPDM (7 pcs)	660,00	A
840009	Varivent® Ø68	EPDM (7 pcs)	900,00	A
840020	Clamp 3"	EPDM (7 pcs)	875,00	A

Spare parts:

900049	EPDM septum - 10pcs.		17,00	A
900054	Hypodermic needle, short		21,00	A
900055	Cotton wick for ref. 900017/900056/900057, 100 pcs package		11,00	A
900077	Steel Chain for Microport		15,00	A
900441	Plug for MicroPort		14,00	A
900822	O-ring 9,3 x 2,4, Black EPDM		1,80	A
900824	O-ring 14 x 4, Black EPDM		3,25	A
900825	O-ring 37,60 x 2,4 Black EPDM		1,35	A
400208	O-ring 60 x 3 "Varivent"		9,80	A

Spare parts for absolute Valves

Item no.	Name	Valve type	Price each, €	Prod. Group
100025	EPDM membrane - 10 pcs.	Old MSV	106,00	A
100026	Silicon membrane - 10 pcs.	Old MSV	106,00	A
100011	Membrane tool	Old MSV	33,00	A
900551	Membrane for old Combi Valv	Old Combi Valve	106,00	A

Carlsberg Flask

Item no.	System	Size	Price each, €	Prod. Group
200001	Carlsberg Flask	25 litre	5.300,00	A