



# Aseptic Sampling Valves



Sanitary  
flow  
equipment

Tipo **VPK**

# Pres campion asettica

## CARATTERISTICHE

Le valvole di presa campione aseptiche a membrana **FR** sono caratterizzate dal design estremamente compatto che ne permette l'installazione in aree ristrette su piccoli reattori e direttamente su linee di impianti chimico - farmaceutici.

**COMPLETAMENTE AUTOCLAVABILI**, ricavate da tondo AISI 316L certificato, sono costituite da due parti, il corpo e il gruppo attuatore sulla cui estremità è ubicata la membrana.

La progettazione aseptica garantisce che, durante il prelievo, il fluido entri in contatto solo con il corpo valvola e la membrana, escludendo dal processo le parti meccaniche dell'azionamento. Su richiesta vengono dotate di una connessione speculari al sample che permette il lavaggio tramite CIP o sterilizzazione SIP in situ. Disponibili con azionamento manuale o pneumatico perfettamente intercambiabili tra di loro. Il corpo valvola è dotato di un foro di leak che indica lo stato della membrana.

## FINITURE

Esterno lucido a specchio  
Interno Ra ≤ 0.5 µm

**CORPO VALVOLA** disponibile in due principali versioni

- a saldare
  - clamp BS 4825 / ASME BPE
- Altre esecuzioni a richiesta.

## MATERIALI

- 1 corpo valvola AISI 316L
- 2 testata AISI 316L
- 3 albero AISI 316L
- 4 membrana silicone o PTFE
- 5 molla ad elica AISI 304
- 6 volantino PTFE autoclavabile

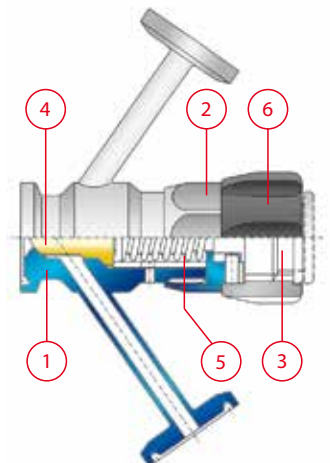
## VPK

### CONDIZIONI MAX DI ESERCIZIO

Pressione: 10 bar  
Temperatura: +150 °C  
Portata: 400 lt/h a 2 bar  
Membrana: silicone - PTFE

### MAX WORKING CONDITIONS

Pressure: 10 bar (145 Psi)  
Temperature: +150 °C  
(+302 °F)  
Flow rate: 400 lt/h at 2 bar  
(106 US gal/hr at 29 Psi)  
Diaphragm: silicone - PTFE





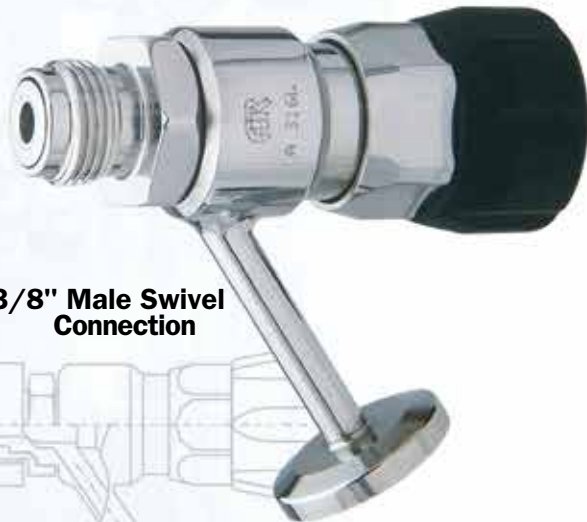
# Presca campione aseptica

## PRELIEVI STERILI

Studiate per prelevare campioni in modo sterile ed asettico, grazie alla loro particolare configurazione, è infatti possibile sterilizzare con vapore puro o lavare in CIP (a valvola chiusa) l'interno del corpo e la membrana a contatto con il prodotto. Una volta installata, la membrana risulta essere perfettamente a filo interno del serbatoio o della tubazione evitando il cosiddetto ramo morto (DEAD LEG) fonte di contaminazione e di proliferazione batterica.

## STERILE SAMPLING

Developed for taking samples in a sterile way, the special configuration assures effective cleaning (CIP) and sterilization (with saturated steam) of product contact surfaces of valve and seating plug with the valve in closed position. Once installed, the sealing plug shuts off flush with the inlet port connection with a zero dead leg.



**BSP 3/8" Male Swivel Connection**

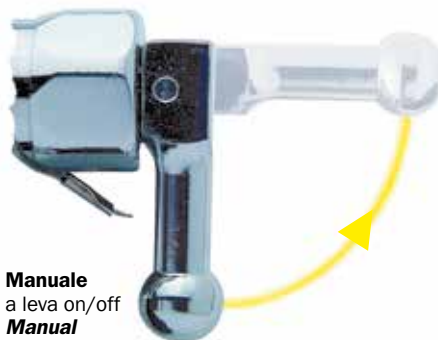


**Standard Ingold Connection**

## ATTUATORI - VALVE ACTUATORS



**Manuale**  
con volantino di regolazione  
provvisto di indicatore di posizione  
**Manual**  
adjustable autoclavable PTFE knob with  
position indicator



**Manuale**  
a leva on/off  
**Manual**  
stainless steel on-off lever



**Pneumatico** inox on/off  
**Air operated** stainless steel air-spring actuators

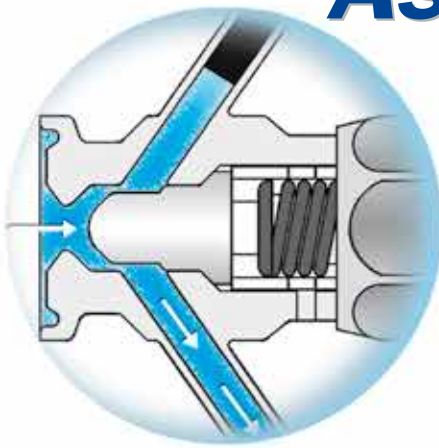
## DOCUMENTAZIONE

Ai fini della tracciabilità dei pezzi per la validazione degli impianti, sono corredate a richiesta da certificati di analisi chimica dei materiali EN 10 204 3.1, certificati FDA e certificati di conformità della finitura superficiale.

## DOCUMENTATION

All valves are fully traceable for validation processes. Each valve is accompanied by material test certificates EN 10204 3.1, FDA regulations compliance certificates, and surface roughness conformity certificates.

# Aseptic sampling valve



## IMPORTANTE!

Le valvole di presa campione aettiche manuali hanno la tenuta controllata da una molla pre-tarata, ai fini di una corretta scelta, è quindi determinante prestare la massima attenzione alla contropressione della linea su cui verranno installate. Una pressione superiore, infatti farebbe aprire la valvola vincendo la resistenza della molla di chiusura.

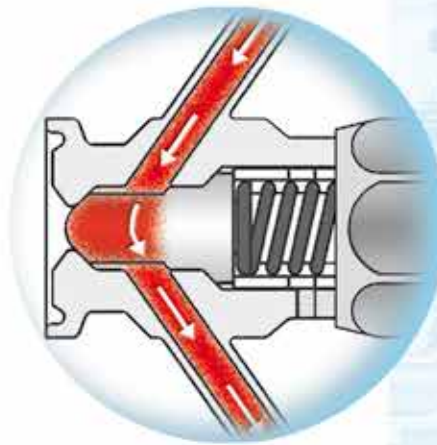
## IMPORTANT!

For reliable performance there must be a safety margin between the spring load of the seating plug and the maximum pressure in the product line. Higher pressures will force open the valve. Please indicate the maximum pressure of your applications.

## Sampling phase

 Prodotto  
Product

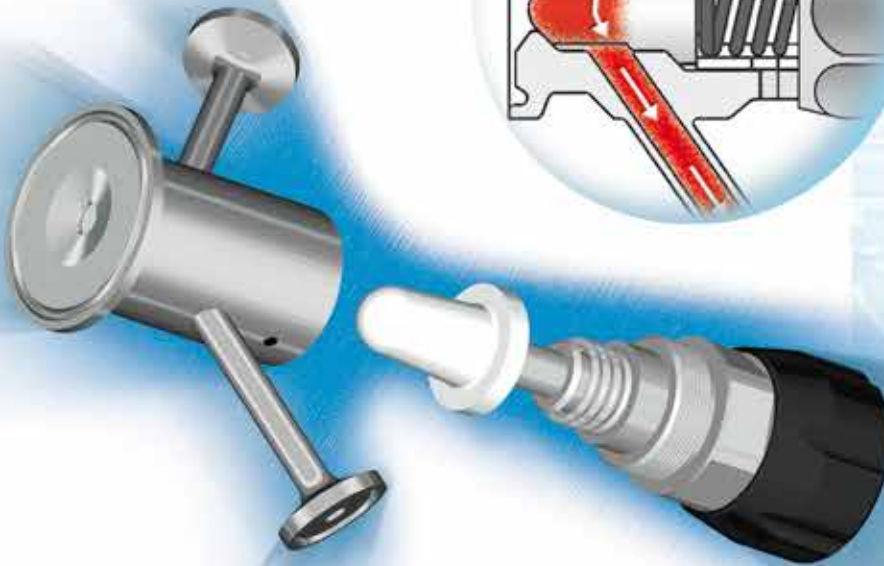
**fig. 1**  
Valvola aperta (fase di prelievo)  
Valve open (sampling phase)



## CIP/SIP phase

 Vapore  
Steam

**fig. 2**  
Valvola chiusa (fase di CIP/steriliz.)  
Valve closed (CIP/steril. phase)



## VPA - VPK ORDERING INFORMATION

To specify the part completely, start with the product description and select the additional options as shown below:

Valve	Option	Inlet hole	Inlet	Sampling	CIP/SIP	Diaphragm	Actuator	Sensor	finish	material
VPK	-	05	AG	PB	AG	T	MC		-11	A

Valve	Inlet Hole	Inlet Connection	Sample - CIP/SIP	Diaphragm	Surface Finish VPK
VPK	05 5 mm	1/2" AG •	clamp 1/2" AG • •	T TFM PTFE	11 ≤ 0,5 µm
VPA	07/10/13 7 / 9,4 / 12,7 mm	3/4" AH • •	clamp 3/4" AH • •	X Silicone	51 ≤ 0,5 µm + Electropolish
VPZ	05/07/10/13	1" AJ • • •	to be weld Ø6,25x1,24mm RB • •		Surface Finish VPA
on request (*) 7mm Silicone only		1 1/2" AM • • •	to be weld Ø12,7x1,65mm BG • •		71 ≤ 0,5 µm
		2" AN • • •	hose barb Ø6,25mm PB • •		41 ≤ 0,4 µm + Electropolish
		butt weld Ø19mm QC • •	hose barb Ø12,7mm PF • •		on request
		Ø30mm QF • • •	quick connect ZG • • •		
		1/4" LC • • •	on request		
		BSP screw 3/8" LE • • •			
		1/2" LG • • •			
		3/4" LH • • •			
		Ingold Ø25 ZA • • •			
		flanged S... • • •			
		on request			

Option	Actuator	Sensor	Materials
- Standard Safe Supply	MC Manual wheel	11 Inductive PNP 12/24VdC	A AISI 316L-1.4404
A ATEX execution	ML Manual lever on/off	on request	B 1.4435
	MR Lever auto return		C C22 Hastelloy
	PN Pneumatic s.e./n.c.		D C276 Hastelloy
	PL Pneumatic + lever		on request



# Aseptic sampling valve

## Type VPA

### CHARACTERISTICS

The AR aseptic sampling valve range has been designed for sterile sampling applications in the Chemical and Pharmaceutical industries. Its compact design allows easy installation on small vessels or process lines.

### FULLY AUTOCLAVABLE,

Valve body and head are made out of certified 316L bar stock.

The aseptic design ensures that, during sampling, the fluid enters into contact only with the valve body and the diaphragm, excluding the mechanical parts of the actuator from the process.

Upon request they are equipped with a specular connection to the sample that allows washing by CIP or sterilization by SIP. Available with manual or pneumatic actuator that are perfectly interchangeable with each other.

The valve body is equipped with a leak hole that indicates the state of the membrane.

### SURFACE FINISH

External mechanical "mirror" polish

Internal mechanical polish  $Ra \leq 0.5 \mu m$

### VALVE BODY connections available in:

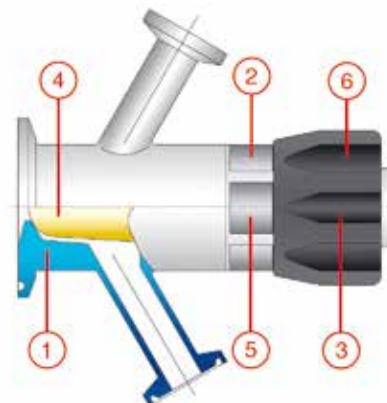
- weld ends

- clamp BS 4825 / ASME BPE

Other types available upon request.

### MATERIALS

- 1 AISI 316L valve body
- 2 AISI 316L valve head
- 3 AISI 316L stem
- 4 Silicone or PTFE membrane
- 5 AISI 304 spring
- 6 adjustable autoclavable PTFE knob



**VPA**  
**CONDIZIONI MAX DI ESERCIZIO**  
Pressione: 10 bar (g)  
Temperatura: +150 °C  
Portata: 1.200 lt/h a 2 bar  
Membrana: silicone - PTFE

**MAX WORKING CONDITIONS**  
Pressure: 10 bar (145 Psi)  
Temperature: +150 °C  
+302 °F)  
Flow rate: 1.200 lt/h at 2 bar  
(317 US gal/hr at 29 Psi)  
Diaphragm: silicone - PTFE





ASEPTIC SAMPLING VALVES



SANITARY SAMPLING VALVES



SANITARY SAMPLING BOTTLE



TANK BOTTOM ASEPTIC VALVE



SPRING CHECK VALVES



HIGH PURITY BALL VALVES



BUTTERFLY VALVES



DTS HEAT EXCHANGERS



SIGHT GLASS-FLOW INDICATOR



CLAMP FITTINGS



TANK CONNECTIONS



SILICONE HOSE & FITTINGS



MAGNETIC MIXER



ITT DIAPHRAGM VALVES

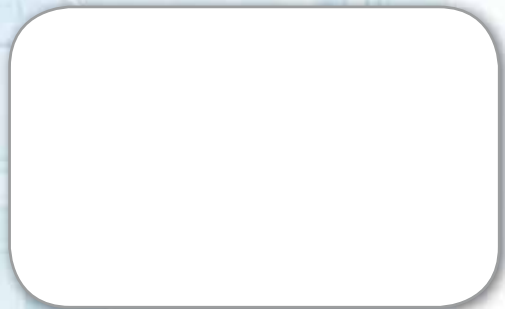


WASHING DEVICES



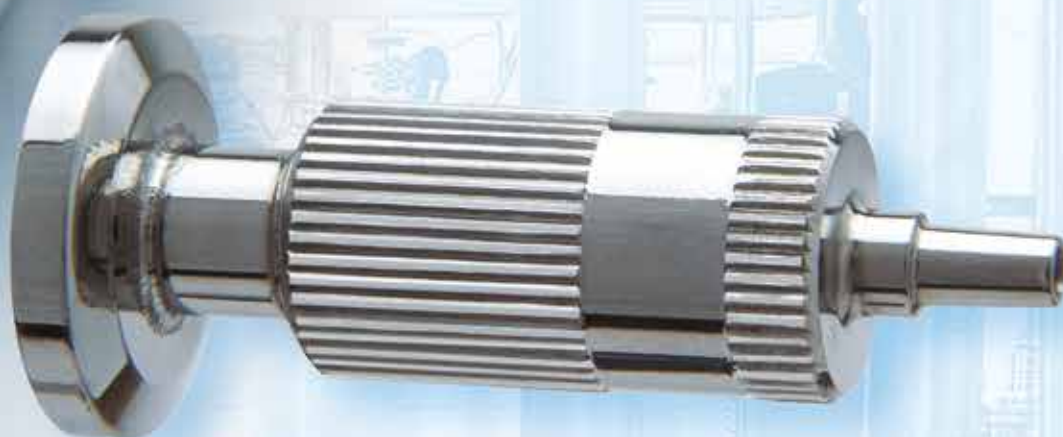
Sanitary flow equipment

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# Sanitary Sampling Valves



Sanitary  
flow  
equipment

# Rps Available Body

**Standard  
CLAMP 1/2" BS**

Esecuzione H a faccia piana  
*H execution flat face*  
RPS-05AGPAH-XX-31A



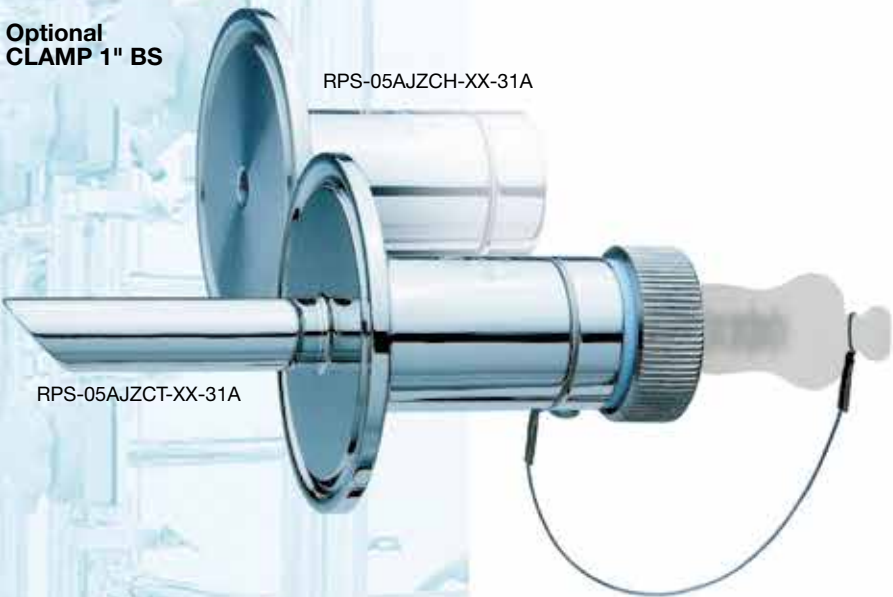
Esecuzione T con tubo di sample  
*T execution with sampling pipe*  
RPS-05AHZCT-XX-31A

RPQ-05AGPBH-XX-31A



**Optional  
CLAMP 1" BS**

RPS-05AJZCH-XX-31A



RPS-05AJZCT-XX-31A

RPV-05AGZCH-XX-31A



**Optional  
fil. gas m.  
3/8"- 1/2"**

RPS-05LGZCH-XX-31A



RPS-05LGZCT-XX-31A

RPV-05AGZGH-XX-31A

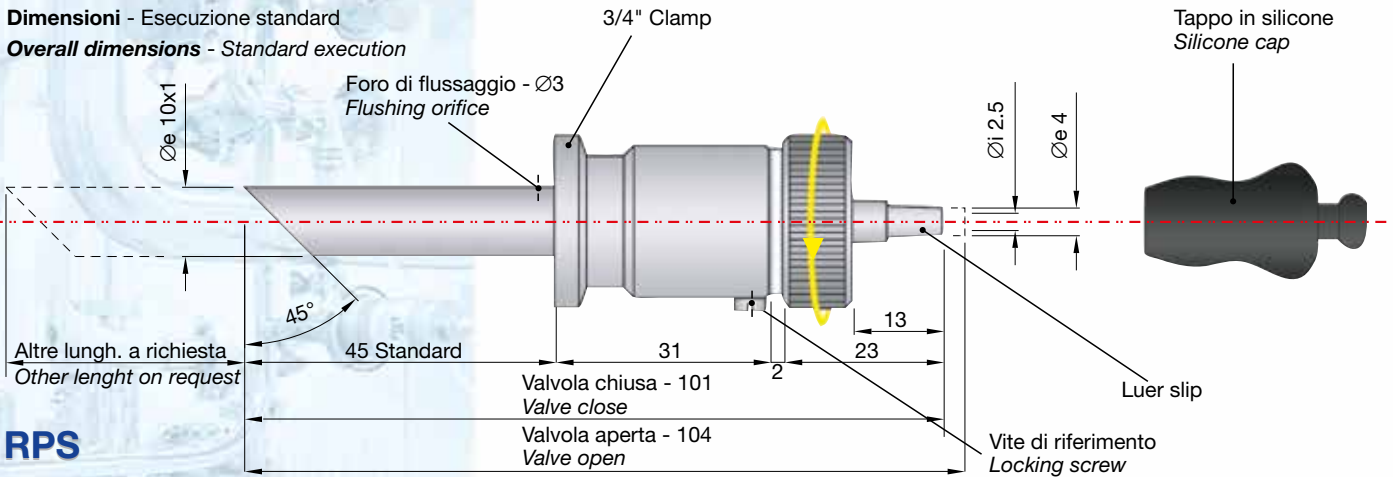




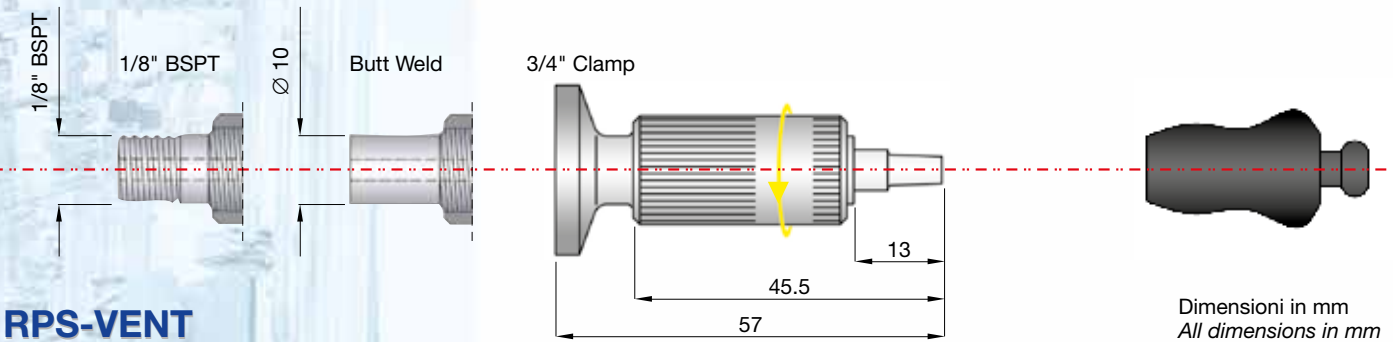
# Presca campione sanitaria

Dimensioni - Esecuzione standard

Overall dimensions - Standard execution



RPS



RPS-VENT

Dimensioni in mm  
All dimensions in mm

## INSTALLAZIONE

In funzione del tipo di connessione, la valvola potrà essere installata con corpo a saldare, clampato o filettato.  
Essendo il senso del flusso unidirezionale, bisogna rispettare l'orientamento della vite di riferimento per un corretto flussaggio del corpo valvola.  
Per qualunque tipo di connessione, installare la valvola con l'uscita luer sull'asse orizzontale, parallelo al pavimento; nel caso di flusso con direzione dal basso verso l'alto, la vite di riferimento dovrà essere posizionata in basso, nel caso invece di flusso con direzione dall'alto verso il basso, la vite di riferimento dovrà essere posizionata in alto.

## INSTALLATION

Depending on the type of connection, the valve may be installed by welding, screwing or clamping the body.  
As the direction of flow is one-way, check the direction of the reference screws to ensure the body valve flow is correct.  
For all types of connection, ensure the luer outlet is horizontal to the valve and parallel with the floor.  
If flow is vertically upwards, the reference screws must be placed at the bottom, while if the flow is vertically downwards, the reference screws must be placed at the top.

## TIPI DI ATTACCHI - SAMPLE CONNECTIONS



LUER SLIP - esecuzione standard  
LUER SLIP - standard execution



ATTACCO RAPIDO - optional  
RAPID CONNECTION - optional



PORTAGOMMA - optional  
RUBBER HOSE - optional

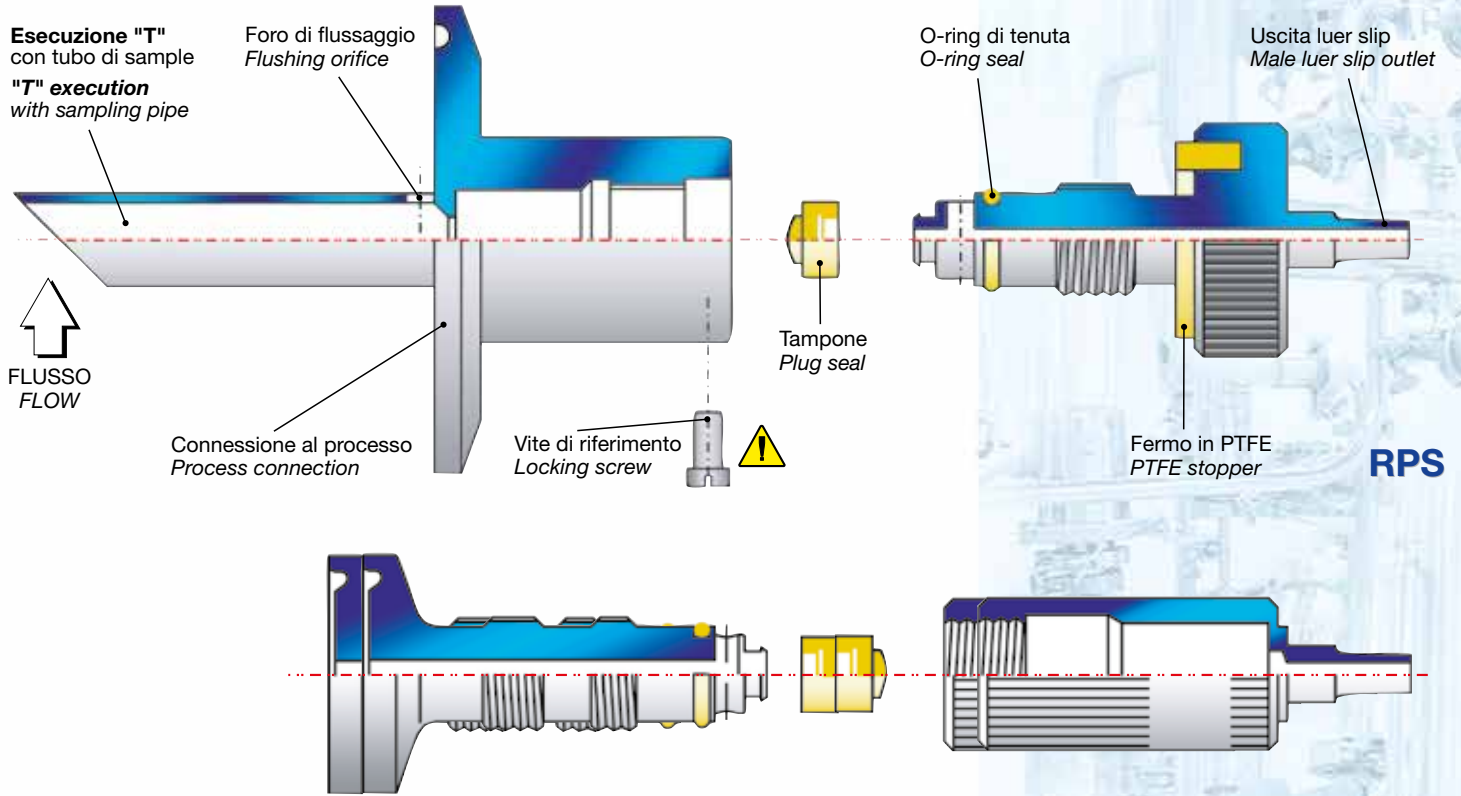
## DOCUMENTAZIONE

Ai fini della tracciabilità dei pezzi per la validazione degli impianti, sono corredate a richiesta da certificati di analisi chimica dei materiali EN 10 204 3.1 certificati di conformità alle normative FDA, strisciate di rugosità.

## DOCUMENTATION

All valves are fully traceable for validation processes.  
Each valves is accompanied by material test certificates EN 10 204 3.1 cGMP standards compliance certificates, FDA regulations compliance certificates, and tapes detailing the valve interior surfaces Ra.

# Sanitary sampling valve



## Ricambi Spare parts

### cod. KPS-05-VV

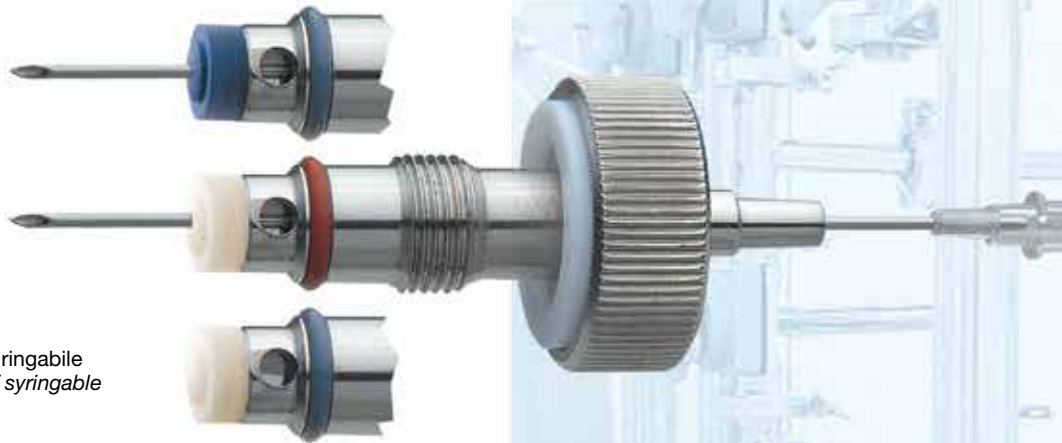
Tamponi e o-ring in FKM - siringabile  
Plug seal and o-ring in FKM - syringable

### cod. KPS-05-XX

Tamponi e o-ring in SILICONE - siringabile  
Plug seal and o-ring in SILICONE - syringable

### cod. KPS-05-TV

Tamponi in TFM PTFE e o-ring in FKM - NON siringabile  
Plug seal in TFM PTFE and o-ring in FKM - NOT syringable



## RPS Ordering information

To specify the part completely, start with the product description and select the additional options as shown below:

	<b>AG</b>	1/2" clamp							
	<b>AJ</b>	1" clamp							
	<b>QC</b>	butt weld							
<b>RPS</b>	<b>LC</b>	1/4" BSP							
<b>RPQ</b>	<b>LE</b>	3/8" BSP		<b>H</b>	flat face				
<b>RPV</b>	<b>LG</b>	1/2" BSP		<b>T</b>	deep tube				
									surface standard finish
									material AISI 316L 1.4404
	<b>HOLE</b>								
		<b>ZC</b>	luer slip					<b>XX</b>	silicone seals
		<b>PA</b>	rubber hose					<b>VV</b>	Fkm seals
		<b>ZG</b>	quick connection					<b>TV</b>	Tfm/Fkm seals

**RPS 05 AG ZC H XX 31 A**



# Sanitary sampling valves

## CHARACTERISTICS

The RPS fully autoclavable sampling valves are designed for aseptic sampling of liquids and pharmaceutical products.

Made entirely in AISI 316L, the standard version is in the form of a rod with a 1/2" clamp and no welding.

On request, the connection to the process may be modified as indicated.

Easily installed onto distribution lines or onto tanks, this valve can be kept in aseptic conditions between one sample and another by using a silicon cap which closes the "luer slip" outlet. It's special design prevents deposits of bacteria and particles, possibly distorting the results of bacteriological tests carried out while allowing samples to be taken from the middle of the line enabling a representative sample to be taken. Extremely economical and very easy to use, the valve opens by turning the head knurled ratchet in an anticlockwise direction and then clockwise to return it to the closed position.

## TECHNICAL DATA

### MATERIALS

Valve body: AISI 316L

Shaft: AISI 316L

O-ring: Standard silicone  
Optional FKM, EPDM

Plug: Standard silicone  
Optional FKM or TFMPTE

### MAX WORKING CONDITIONS

Max Pressure: to 10 bar and 150°C

### PROCESS CONNECTIONS

Standard: clamp 1/2" BS

Optional: clamp 1" BS

3/8"-1/2" gas male thread  
butt-weld

### OUTLET CONNECTIONS

Standard: LUER SLIP joint

Optional: Rubber hose Ø 6mm  
Rapid connection

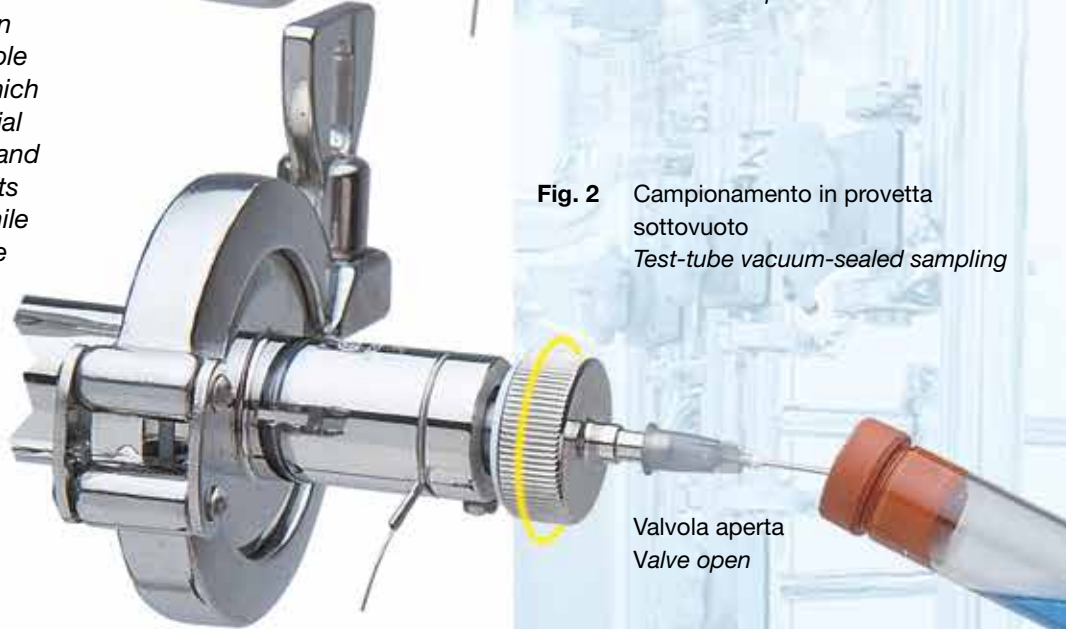
# RPS SAMPLING

Fig. 3 Campionamento standard.  
Standard Sampling



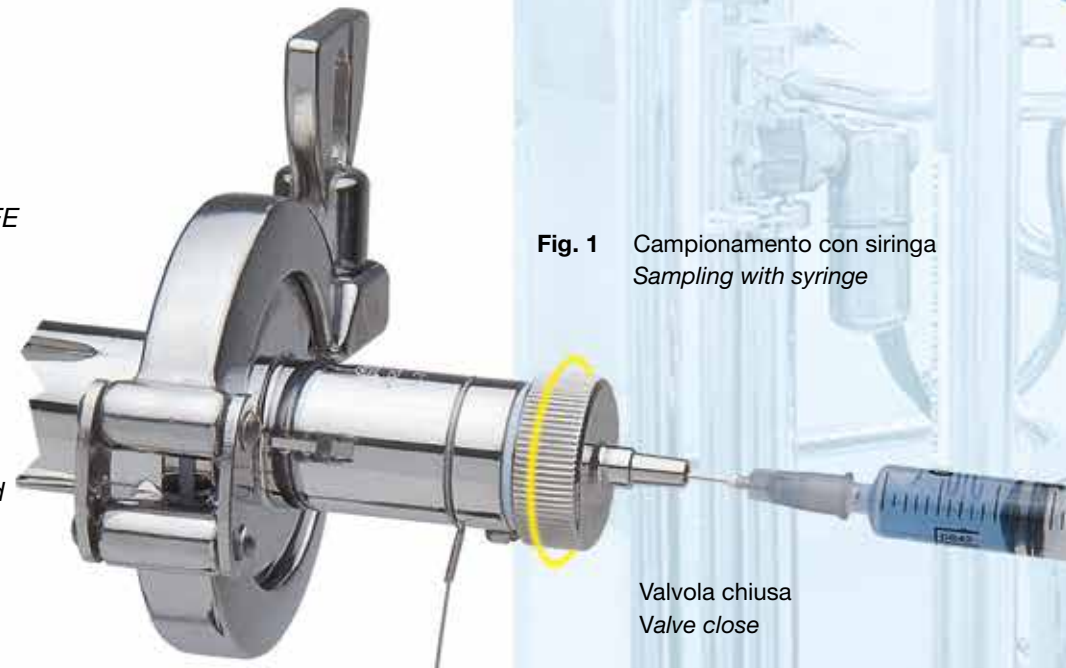
Valvola aperta  
Valve open

Fig. 2 Campionamento in provetta sottovuoto  
Test-tube vacuum-sealed sampling



Valvola aperta  
Valve open

Fig. 1 Campionamento con siringa  
Sampling with syringe



Valvola chiusa  
Valve close



ASEPTIC SAMPLING VALVES



SANITARY SAMPLING VALVES



SANITARY SAMPLING BOTTLE



TANK BOTTOM ASEPTIC VALVE



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DIAPHRAGM VALVES



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# Sterile Sampling Bottle Assembly



Sanitary  
flow  
equipment

# Sterile Sampling Bottle Assembly

## ALLOWS CAPTURING AND HANDLING OF LIQUID STERILE PRODUCT SAMPLES

- **SIP/CIP**
- **Fully Autoclavable Assembly**
- **Stainless Steel, PVDF Construction**
- **Borosilicate Bottle**
- **Steam Cleanable Diaphragm Divert Valve**
- **Optional Adjustable Bottle Holder with Removable Handle for Bottle Sizes 500 ml or 1000 ml**
- **Full Material Traceability**
- **Customized For Your Needs**



### **DOCUMENTATION**

All valves are fully traceable for validation processes.

Each valve is accompanied by material test certificates EN 10 204 3.1B

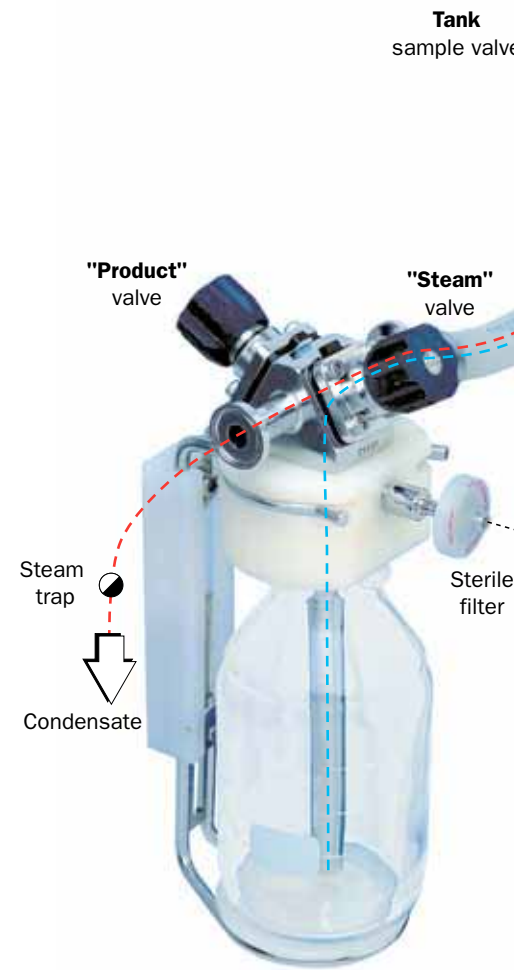
3A standards compliance certificates, and USP 23 class VI and FDA regulations compliance certificates.



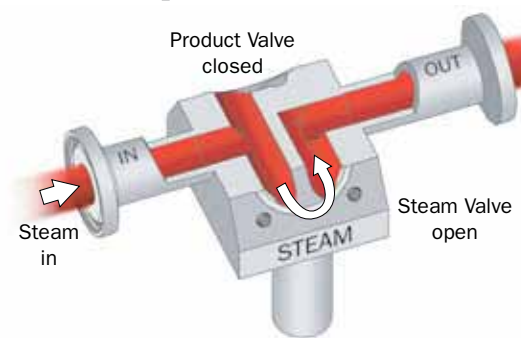
# Available Top configurations



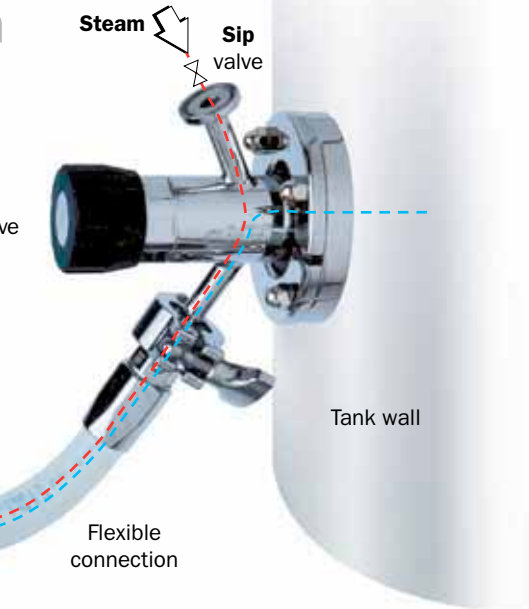
# Typ. Installation



# SIP phase



# How to use



## PHASE 1:

### Autoclaving the Sample Bottle

1. Prepare the Sample Bottle Assembly for the autoclave by connecting the filter element\* to the filter port. Close the hand knob labeled "Product" on the Sample Bottle. This seals the interior of the Sample Bottle.  
\*(monouse autoclavable up to 121°C per 15 minutes at 15 psi ACRODISC-PALL suggested)
2. Autoclaving. Place the Sample Bottle Assembly in the autoclave.
3. Remove the handle from the Sample Bottle Assembly prior to autoclaving. To detach the handle, simply push the release button on the handle with the thumb of your hand holding the assembly. While depressing the release button slide the handle downward and away from the Sample Bottle. Begin your autoclaving cycle.
4. After the autoclaving cycle is completed, reattach the handle to the Sample Bottle and remove the assembly from the autoclave.

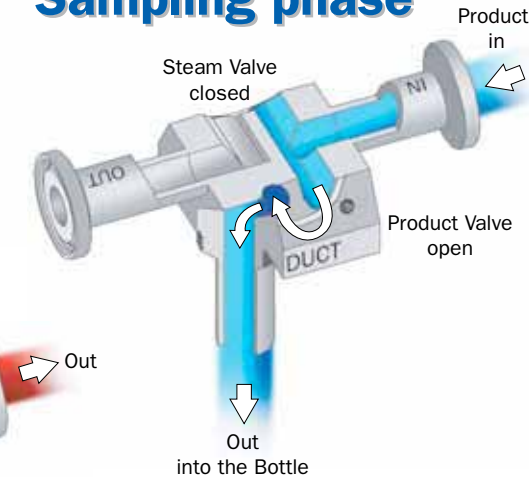
**Note:** the Sample Bottle Assembly is designed to function with sample valves that features SIP capabilities (VPA or VPAK).  
Using the Sample Bottle Assembly in conjunction with a sample valve that does not feature SIP capabilities will not allow the sample path to be steam sterilized prior to sampling.  
For a list of suitable SIP sample valves, see Aseptic Sampling Valves brochures or please contact us.

## PHASE 2:

### Connecting to a tank Sample Valve

1. Connect the Sample Bottle connection labeled "IN" to the Tank Sample Valve outlet. Attach a steam trap to the Sample Bottle connection labeled "OUT".  
Note: attaching the Sample Bottle Assembly to the SIP Tank Sample Valve may be accomplished using either flexible tubing or stainless tubing designed for this application.
2. Open the knob labeled "STEAM" and the SIP steam intercepting valve to steam all product sample contact surfaces.  
At the completion of the steaming cycle, first, close the SIP valve, secondly, close the knob labeled "STEAM".  
Warning: when handling live steam and process fluids that are hazardous or corrosive, extra precautions must be taken. Failure to follow these instructions could result in serious injury or damage to personal property
3. A sterile sample can now be taken from the tank by opening the Tank Sample Valve and the knob labeled "PRODUCT". Take the desired quantity of sample. When enough sample is collected, first, close the Tank Sample Valve and then the knob labeled "PRODUCT". Open the SIP valve and the knob labeled "STEAM" and the entire Sterile Tank Sampling System, except the Sampling Bottle can now be cleaned of sample residue. Close the SIP valve and the knob labeled "STEAM".
4. Disconnect the Sample Bottle from the Tank Sample Valve and remove the steam trap. Each subsequent sampling procedure begins with PHASE 1: Autoclaving the Sample Bottle.

## Sampling phase



## SSB ORDERING INFORMATION

To specify the part completely, start with the product descriptions and select the additional options as shown below:

Model	volume	IN connection	OUT connection	VENT connection	seals	actuator	finish	material
SBA-	05	AG	AG	ZC	TF	MC	-71	A

Bottle Model		Bottle Volume		Connections		Seals (only SBA)		Actuator (only SBA)		Materials		
SBA	aseptic bottle - divert valve	02	250 ml	AG	1/2" clamp BS/ASME	SBA	TF	TFM/PTFE diaphragm + FEP oring	MC	manual handle	A	AISI 316L-1.4404
SBS	sanitary bottle - standard cap	05	500 ml	ZC	Luer Male	bottle	EF	EPDM diaphragm + FEP oring	PN	pneumatic actuator		on request
SBX	special bottle on request	10	1000 ml	PL	Rubber hose 10x1mm							
				AC	1/4" clamp BS/ASME	SBS						
				ZE	Luer Male + No reject	bottle						
					on request							
Surface Finish												
71 ≤ 0,5 µm												
41 ≤ 0,5 µm + Electropolish												
on request												



**Pneumatically  
actuated diaphragm  
valves - NC  
DN 15 - 1/2"**



**TECHNICAL DATA**

Process valves: diaphragms manual adjustable knob  
Surface finish: internal Ra<0,5 um  
external mirror polished

**MATERIALS**

Valves body: AISI 316L (Werkstoff n. 1.4404)  
sanitary design  
Diaphragms: PTFE/EPDM - FDA compliance  
O-ring: standard FEP (PTFE incapsulated)  
Bottle: 500-1000 ml borosilicate glass  
Header: PVDF  
Removable handle: PVDF

**AVAILABLE CONNECTION**

In-out: 1/2" clamp BS  
Vent: standard male luer-slip  
optional 1/2" clamp BS or rubber hose



**Manual operated  
diaphragm valves  
DN 15 - 1/2"**



**OPERATING DATA**

Max pressure: up to 3 bar  
Max temperature: up to 150 °C

**OPTIONAL**

PALL Acrodisc CR PTFE Syringe Filters  
Silicone flexible hose 1/2" clamp BS connections

**SPARE PARTS SUGGESTED**

Valves diaphragms PTFE/EPDM  
Body valves o-ring FEP  
Glass bottle o-ring FEP  
500-1000 ml glass bottle



ASEPTIC SAMPLING VALVES



SANITARY SAMPLING VALVES



SANITARY SAMPLING BOTTLE



TANK BOTTOM ASEPTIC VALVE



SPRING CHECK VALVES



HIGH PURITY BALL VALVES



BUTTERFLY VALVES



DTS HEAT EXCHANGERS



SIGH GLASS-FLOW INDICATOR



CLAMP FITTINGS



TANK CONNECTIONS



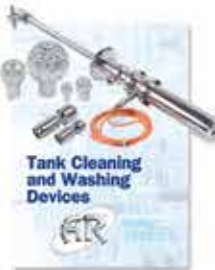
SILICONE HOSE & FITTINGS



MAGNETIC MIXER



DIAPHRAGM VALVES



WASHING DEVICES



Sanitary flow equipment

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## TK Syringe device Dimensions

TK- Syringe device for appropriate clamp standard according BS 4825 – ASME-BPE

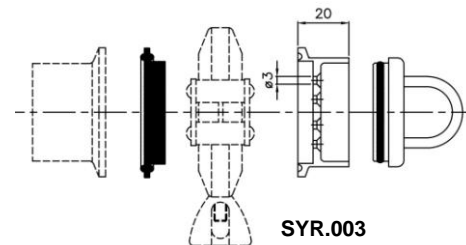
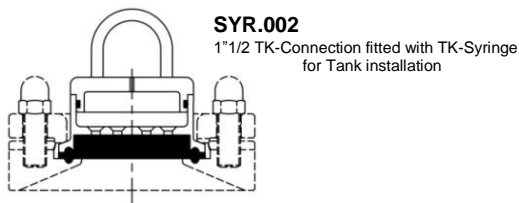
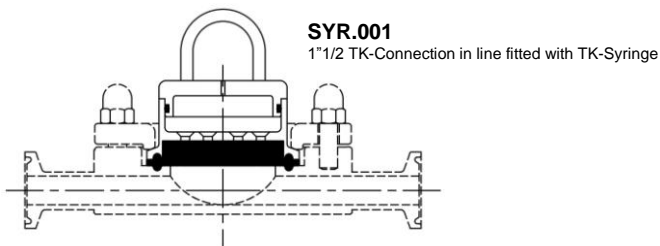
The hypodermic sample port device features a compact design that allow to take many sample of low viscosity products from a tank or in-line in pharmaceutical sector. Before to sampling, the port may be sterilized with alcohol and then sampling takes place by simply penetrating the special silicone membrane with an hypodermic needle or a syringe, with minimum risk of contamination. Once installed the silicone membrane shut off flush with the inside tank wall with a zero dead leg.

Available in a **unic size of 1"1/2** may be connected on standard clamp according BS 4825 or TK-Connections

- **SYR.001** for TK-Connect in-line
- **SYR.002** for TK-Connect for tank welding
- **SYR.003** for Clamp ferrule fitted

### Warning :

The system is designed for use in working conditions of 0-6 bar max.  
Please note that the sealing capacity is reduced with increased frequency of piercing, and the membranes ability to sustain pressure decreases.  
It is suggested the membrane replacement every production batch.



**Design pressure TK holder 7 bar**

**Design temperature TK holder 200°C**

### Operating limits conditions :

Max pressure sample liquid 0,5 bar (suggested only)

Max sampling temperature 95°C

Not recommended for vacuum application

### Material:

Clamp port ASTM A 479 / ASTM A 182 – 316L

Blind end cap ASTM A 479 / ASTM A 182 – 316L

Syringable gasket **White Silicone** peroxide cured 40 shore

**Black EPDM** peroxide cured 40 shore

Meets or exceeds FDA regulations CFR 177.2600

Animal Derived Ingredient Free (ADIF)

Clamp assembly AISI 304 stainless steel



**Get the information you need and more at : [info@aerreinox.it](mailto:info@aerreinox.it)**

In the interests of development and improvement of the product, we reserve the right to change the specifications without prior notice.

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## Sampling

Sanitize the Sanitary Sampling Port immediately after installation and after each sampling operation.  
The sample port is designed for sampling by using a hypodermic needle as follow :

1. Spray the complete assembly device with a 70% isopropyl alcohol solution or 3% hydrogen peroxide solution (or other equivalent disinfecting solution)
2. Dismount the blind cap with finger-pull and place it in a disinfecting solution.
3. Spray disinfecting solution on the sampling port and membrane, Wait for 30 seconds approx.
4. Look the checklist paper to identify exactly which sampling well should be used (only one sample should be taken from sampling each well)
5. Insert the hypodermic needle for sampling. Recommended needle diameter is 0,8 – 1 mm maximum.
6. Collect the required sample and pull out the hypodermic needle.
7. Spray disinfecting solution on the sampling port and membrane, do not use chlorine or other halogen agents as either sanitans or cleaning compound. Chlorides and halogens will attack stainless steel.
8. Mount the blind cap with finger-pull
9. Mark on the checklist paper which sampling well has been used.

**NOTE : Penetration of membrane should only be done once through the same sampling well  
Replace the used membrane when the sample port checklist is completed**

## Sample port CHECKLIST

1	
Take off date	Operator sign

10	
Take off date	Operator sign

2	
Take off date	Operator sign

9	
Take off date	Operator sign

3	
Take off date	Operator sign

8	
Take off date	Operator sign

4	
Take off date	Operator sign

7	
Take off date	Operator sign

5	
Take off date	Operator sign

6	
Take off date	Operator sign