

# **Kest Sampling Unit,** Efficient sampling solution for pharma and biotechnology applications.

#### DS-000001 REV A

### Kest Sampling Unit, KSU

The Kest Sampling Unit has become a very popular sampling solution, it combines sampling at controlled conditions with cost efficiency and ease of use.

The operator simply penetrates a silicon membrane with a pencil point needle and collect a sample, when removing the needle, the membrane self-seals and the sample can be analysed.

#### Due to the design there is no need for CIP or SIP between the samples which saves a lot of time and money.

Each port can deliver 8 samples and stand a pressure up to 7 bars. The sample port is easily attached to a tank or pipe with a standard TriClamp connection like Kest-Lock. To increase the number of samples or vary sampling location you can easily add more sample ports.

### **Sampling Containers**

Any type of sampling container can be used with the Kest Sampling Unit if it fulfils the requirement of the needle. Each system must be validated individually to ensure the functionality. Kest recommends to use sampling units from One Time Solutions that has developed several units for KSU and can offer customized solutions to suit your needs. For more information visit www.onetimesolutions.se

## Kest Sampling Unit KSU, general information





THE KEST SAMPLE UNIT IS DESIGNED FOR CLAMP COUPLINGS AND GASKETS ACC. TO ISO 2852



### Kest Sample Unit KSU, general information



REF. NO	PRODUCT CODE	NO. OF PORTS	TC mm	D mm	<b>d</b> mm	H mm	<b>h</b> mm
100413	KSU-TC50/8P	8	50.5	60	14	40	30

MECHANICAL SPECIFICATIONS						
	Steel parts	Membrane	O-ring			
Material grade	EN 1.4404/ASTM 316L	Silicone, platinum cured	EPDM			
Material requirement	EN 10 272/10028-7, A479/A240 or SA479 SA240	FDA regulation CFR 177.26	00, USP Class VI			
Documentation	Heat Certificate 3.1 acc. to EN 10 204					
Surface finish	Ra≤0.5 µm on surfaces in product contact					
Design Temperature	[0°C to +150°C] [+32°F to +302°F]					
Design Pressure	[-1 bar(g) to + 7 bar(g)] [-14.5 psi to +101.5 psi]					
pH range	1-14					
Standard	The Kest Sample Unit is designed for clamp couplings and gaskets acc. to ISO 2852					
Marking	The Kest Sample Unit is marked with material grade and heat number					
Packing	Each item is sealed in vacuum plastic bag, labelled with article code and packed in a box					
Quality Assurance	Each product is controlled and tested acc. to Kest Technology quality assurance system					

## Kest Sample Unit membrane KSUM

REF. NO	PRODUCT CODE	DESCRIPTION
100409	KSUM-TC50/8P	Penetration membrane 10 pieces
101422	KSUM-TC50/8P	Penetration membrane 100 pieces





www.kest.se