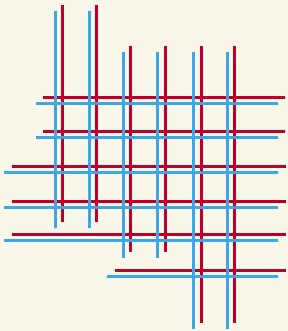


Sampling probe stainless steel AISI

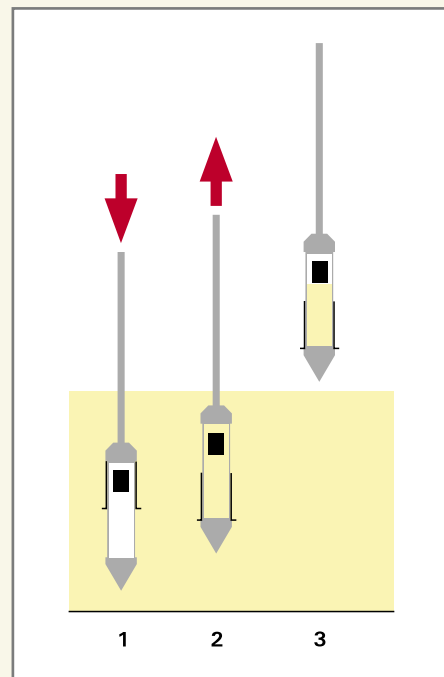


Universal and precise sampler for target sampling. Suitable for free flowing bulk or powders with a maximum particle size of 8mm. Can be used both vertically and horizontally.

Operation

- (1) The chamber has a port that will be closed automatically by a sleeve when entering the product.
- (2) When pulling back the port will be re-opened allowing the sample to fall into the collection chamber
- (3) The sample can be removed by unscrewing the chamber or through the port.

Stainless steel AISI 316, polished surfaces.
Three sizes available
Can be used for depths up to 2,50 meters.



Further informations about operation at www.gmp-sampling.com

Art. No.	Product
277.100	Pharmaceutical sampling probe 100 ml
277.150	Pharmaceutical sampling probe 150 ml
277.200	Pharmaceutical sampling probe 200 ml
277.010	Handle 1000 mm
277.015	Handle 1500 mm
277.001	Extension to handle 1000 mm



Sacks and big bags can be closed with **Close'n'Seal**
(see page 32)

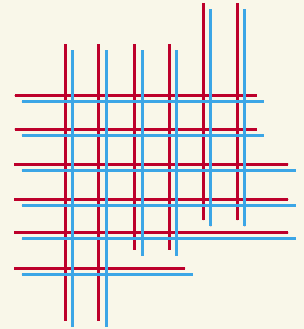
UDS-Sampler

for pharmaceutical applications

Unit dose sampling (UDS) is a method commonly applied in pharmaceutical production. The target is to proof the „Content Uniformity“ of mixtures. Content Uniformity means the homogenous distribution of the components within a mixture. The examination method that is also called Blend Uniformity Analysis (BUA) is described in the FDA or GMP guidelines. Since this procedure has to proof the content uniformity for the smallest applicable dose the quantity of the withdrawn sample must not exceed 1-3 times of this quantity.

Taking of such small and at the same time representative samples is enormously difficult, since the introduction and moving instruments can already lead to separation. The different portions of a mixture can have different detention and flow characteristics and this can lead to the fact that the sample is no longer representative.

It is therefore important to accomplish this particularly delicate sampling procedure correctly and to know the extent of the separation. In any case it is to be validated for the respective application or the respective product. The construction and function mode of the following UDS samplers are optimized to minimize the measurable separation effect.



Applications

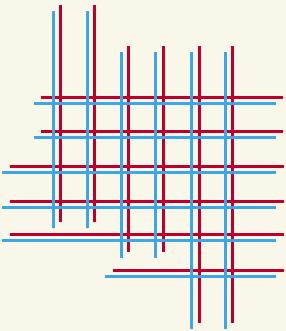
Pharmaceutical production where small samples are required.



Pharma-Picker

The set includes all accessories in a superior sampler case -lockable.

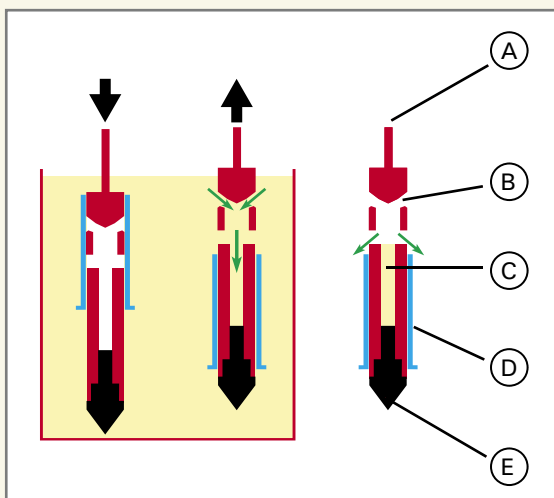
Pharma-Picker Set



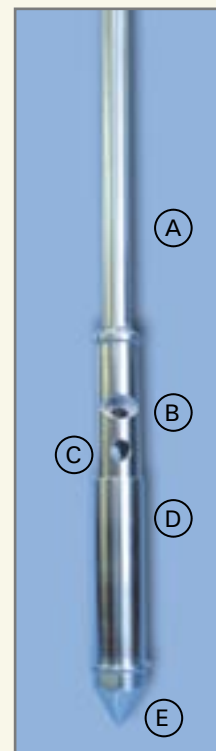
Internationally approved standard equipment for the pharmaceutical industry according to the GMP guidelines. Used for Unit dose sampling (UDS). Sample quantities from 0,1 bis 2,5 ml.

1. When inserted into the product the sample chamber will close automatically.
2. At the target spot pull up the sampler slightly. This will force the sleeve down and expose the ports. The sample will fall into the sample chamber.
3. After the sampler is removed from the product an accurate volume will remain in the sample chamber.

Operation



- A Rod
- B Ports
- C Sample chamber
- D Sleeve
- E Tip



Further information about operation at www.gmp-sampling.com

Different volume sampling tips define the volume from 0,1 to 2,5 ml and can be fitted to the same chamber.



Art. No.	Product
284.000	Pharma Picker Set in lockable case, with handle, 4 rods 600 mm, sample chamber 1 (0,1 – 1,2 ml) sample chamber 2 (1,3 – 2,5 ml) 10 tips (free choice - please advise desired the capacity)

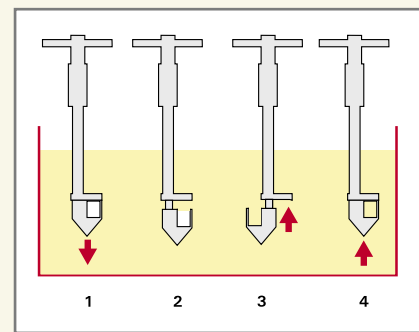
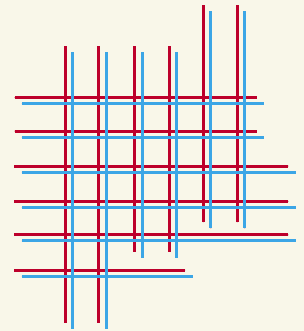
Unit Dose Cohesive Sampler

A popular sampler in the pharmaceutical industry for taking a small volume (UDS) cohesive powder sample. This sampling technique is to reduce the effect of separation.

The sample chamber can be exchanged, hence different volumes can be sampled.

0,25 ml / 0,50 ml / 0,75 ml / 1,00 ml

Stainless steel AISI 316L, polished finish. The Set includes all 4 sizes and a robust sampler case, lockable.



Further informations about operation at www.gmp-sampling.com

Art. No.	Product
283.000	UDS-Cohesive Sampler Set: 4 Sample chambers (0,25/0,5/0,75/1,0 ml) Rod Lockable case
283.010	Cohesive Sampler without sample chamber
283.025	Sample chamber 0,25 ml
283.050	Sample chamber 0,50 ml
283.075	Sample chamber 0,75 ml
283.100	Sample chamber 1,00 ml

Mini-Pot stainless steel AISI 316L

Multi purpose small volume containers with crevice free interior leak proof -without seal

Diameter 50 mm

3 sizes available



Art. No.	Product	Capacity [ml]	Size [mm]
282.020	Mini-Pot	20	Ø 50 x 25
282.050	Mini-Pot	50	Ø 50 x 45
282.100	Mini-Pot	100	Ø 50 x 71

GMP compliant tools and accessories in stainless steel (AISI 316L)

Pharma-Scoops

see page 31



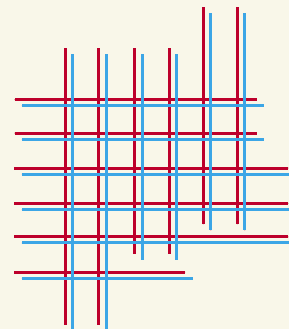
Mini-Pot

see pages 26 /40



UDS sampler for pharma applications

Powder probe stainless steel AISI 316L

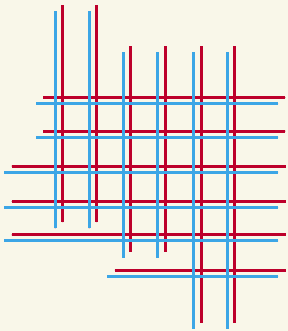


This approved sampling system collects quick and easily samples from powders and powder mixtures. The samples are equal in quantity. It is possible to withdraw target point samples from different spots of a container. These samples can be reviewed as single samples or may be processed to obtain a composite sample. The inter-changeable volumetric tips have capacities between 0,25 and 50ml.

Please note the colour coding to find the corresponding probe and tip.



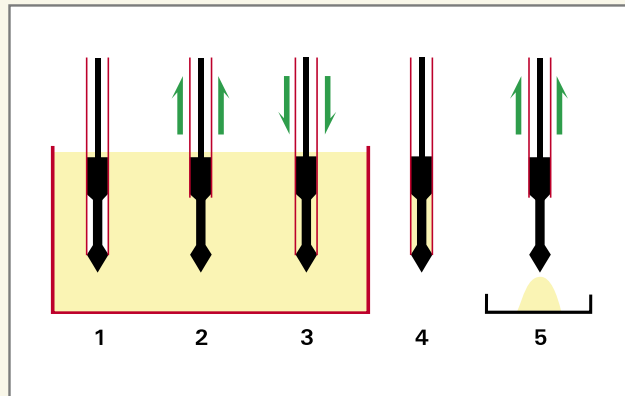
Powder probe stainless steel AISI 316L



Operation

The sampling system consists of a tube and a immersable tip that closes the tube. After diving the tube into the powder the tip can be deployed by activating the handle. The powder is entering the tip and will be collected into the tube by returning to the initial position.

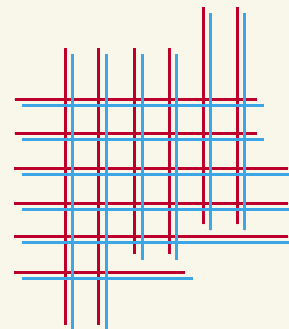
The system can completely be disassembled for cleaning purposes.



Further information about operation at www.gmp-sampling.com

Art. No.	Product	Ø [mm]	Length
281.1260	Sampler body 12,5/60	Ø 12,5	60
281.12100	Sampler body 12,5/100	Ø 12,5	100
281.12150	Sampler body 12,5/150	Ø 12,5	150
281.1960	Sampler body 19/60	Ø 19,0	60
281.19100	Sampler body 19/100	Ø 19,0	100
281.19150	Sampler body 19/150	Ø 19,0	150
281.3260	Sampler body 32/60	Ø 32,0	60
281.32100	Sampler body 32/100	Ø 32,0	100
281.32150	Sampler body 32/150	Ø 32,0	150
Immersable tips			Sample volume [ml]
280.12025	Immersable tip 12,5/0,25	Ø 12,5	0,25
280.12050	Immersable tip 12,5/0,5	Ø 12,5	0,50
280.12075	Immersable tip 12,5/0,75	Ø 12,5	0,75
280.12100	Immersable tip 12,5/1,0	Ø 12,5	1,00
280.1920	Immersable tip 19/2,0	Ø 19,0	2,00
280.1930	Immersable tip 19/3,0	Ø 19,0	3,00
280.1950	Immersable tip 19/5,0	Ø 19,0	5,00
280.1980	Immersable tip 19/8,0	Ø 19,0	8,00
280.1910	Immersable tip 19/10,0	Ø 19,0	10,00
280.3220	Immersable tip 32/20,0	Ø 32,0	20,00
280.3225	Immersable tip 32/25,0	Ø 32,0	25,00
280.3250	Immersable tip 32/50,0	Ø 32,0	50,00

GMP Consultant



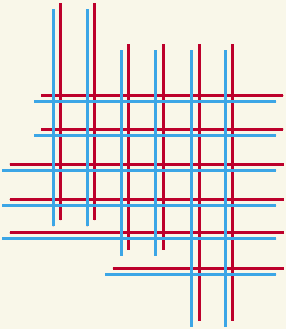
GMP Consultant
ICH Q7A GMP FOR ACTIVE
PHARMACEUTICAL INGREDIENTS



Art. No.	Product	
268.060	ICH Q7A GMP FOR ACTIVE PHARMACEUTICAL INGREDIENTS	120 pages

Scoops

e.g. for pharma applications



Pharma Scoop AISI 316L

GMP compliant scoops.
 Heavy duty construction.
 Crevice free.
 Satin finish.
 Radiused corners for easy cleaning.
 8 sizes available



Art. No.	Product	Ø mm	Length [mm]
279.0010	Pharma Scoop 10 ml	25	75
279.0050	Pharma Scoop 50 ml	38	110
279.0100	Pharma Scoop 100 ml	50	180
279.0750	Pharma Scoop 750 ml	95	330
279.1100	Pharma Scoop 1000 ml	110	340
279.1200	Pharma Scoop 1200 ml	125	305
279.1700	Pharma Scoop 1700 ml	135	355
279.2500	Pharma Scoop 2500 ml	185	320



Square Pharma Scoop AISI 316L

GMP compliant flat scoop
 Heavy duty construction
 Crevice free
 Satin finish

Art. No.	Product	Size [mm]
278.1500	Square Pharma Scoop 1500 ml	160 x 190 x 45