

## Sampler type 6871-3/ -4/ -5/ -8

The Sampler type 6871 is a motor-driven sampler for the system ULTRASAMPLER®, which permits the representative sampling of milk at the milk tanker. It is connected by a sampling tube to the milk suction line.

Sampling takes place during the suction of the milk into the tanker. The sampler extracts a milk sample from the branch tube and feeds it into the waiting sample bottle via a peristaltic pump. The delivery rate of the peristaltic pump is controlled by the Sampler Controller.



### Sampler features

- The sampling is representative and continues throughout milk reception. The percentage of the sample taken is always equivalent to the percentage of the milk quantity received. The pump's delivery rate is such that upon completion of milk reception, the sample bottle will have been filled up to a predefined level, irrespective of the quantity of milk received in the tanker.
- Sampling is virtually without carryover as the sampler performs a rinsing operation prior to and after each sample.
- The injection needle used to fill the sample bottle is dimensioned in such a way that thick, triple-slit rubber or silicone bungs can be used to seal the bottle.
- The sampler can be supplied for two directions of flow. Both versions can be combined with the existing sampler tubes.  
The sampler can be combined with branch tubes of NW50/2", NW2½" and NW3" for flows from the right, from the left and from below as well as for sampling positions in front of and behind the sampler tube in the sampling box.
- For the intake of other and in some cases smaller quantities of milk, there are bent suction hollow needle for both directions of flow and nominal bores. For applications involving large quantities only, there is a straight sampling hollow needle for both directions of flow.

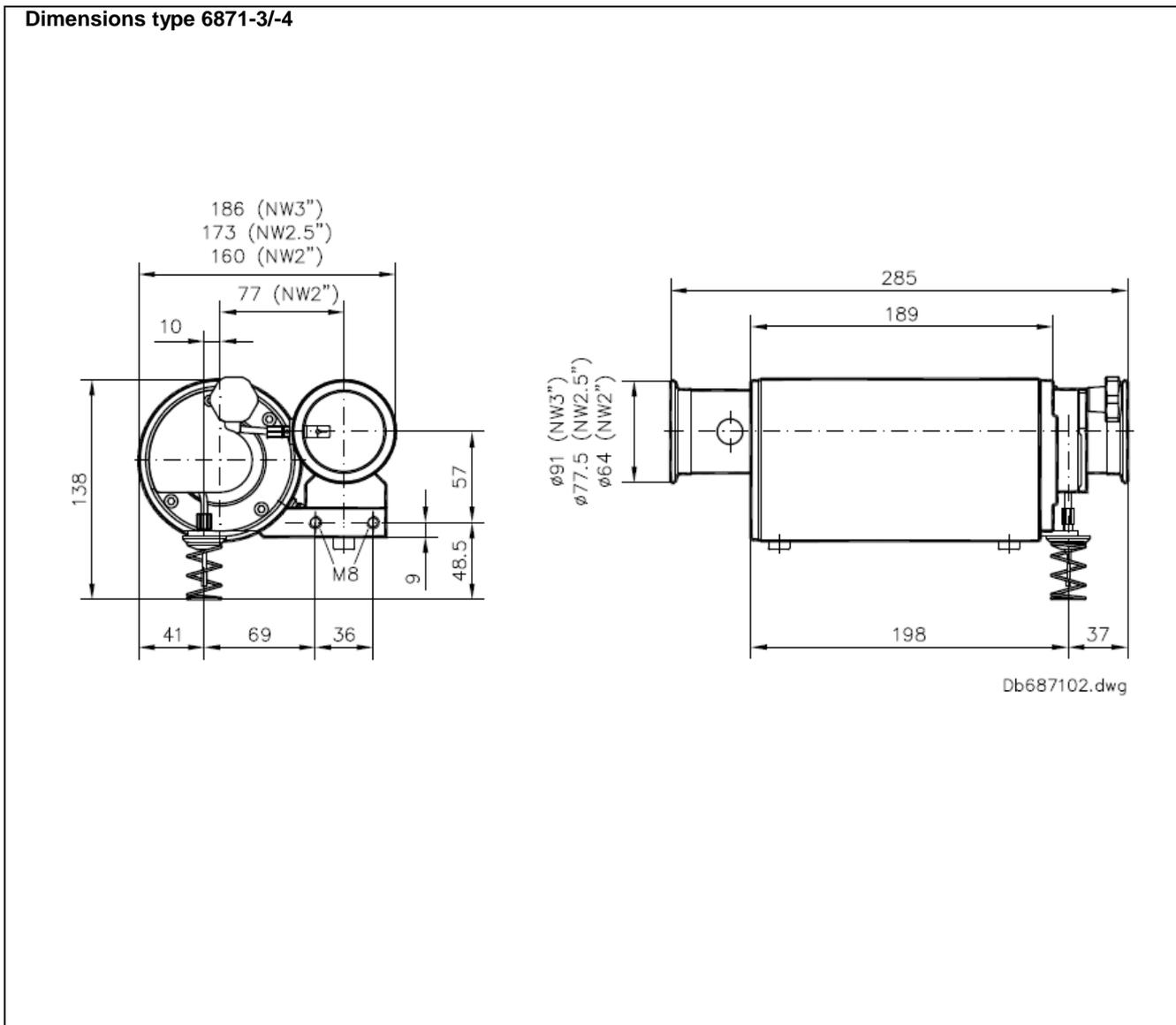
### Assembly

The branch tube for the sampler is installed in the refrigerated sampling box in the suction line of the milk tanker. It is connected on both sides to the flanges of the milk line and/or to the flange of the flow level meter with a sealing ring and clip. For those versions of the ULTRASAMPLER which do not have a flow level meter, there is a transition line in front of the sampler (which on the other versions is in front of the flow level meter). This calming down line must be no less than 5 times the nominal bore in length.

### Sampling unit for ULTRASAMPLER a system for the extraction of representative milk samples from the milk tanker

- Sampling throughout milk reception from a supplier
- Filling of the sample bottles irrespective of the milk quantity delivered
- Sampling virtually without carryover, owing to a special rinsing operation
- Numerous versions available:  
for milk lines with NW50/2", NW2½" and NW3",  
for flows from the right, from the left and from below,  
for positioning in front of or behind the sampling tube, with sampling hollow needle for small and large quantities of milk.

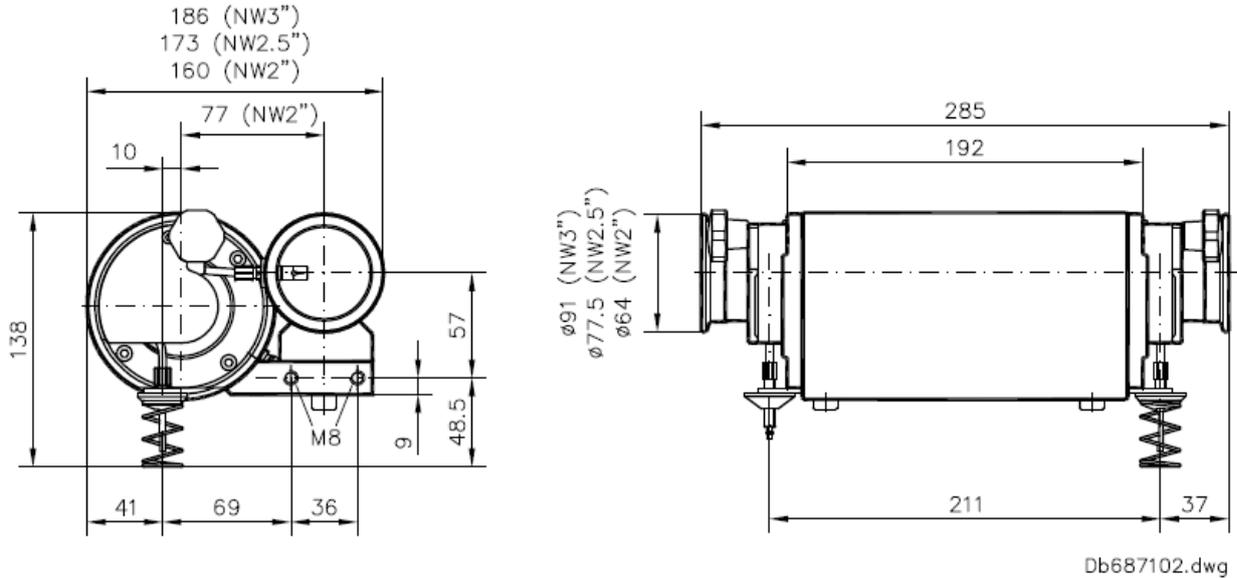
Technical data	
<b>Electrical data</b>	
Operating voltage	24 ... 30 V, max. 4.0 A
Electrical connection	Four-wire mains lead, approx. 200 mm long, with 6-pole round plug
Pump delivery rate	max. 6.75 ml/sec.
<b>Ambient conditions</b>	
Operating temperature	0 ... 50 °C
Climatic class	IWA according to DIN 40040
Max. cleaning temperature	100 °C
Cleaning type	CIP-cleaning
<b>Mechanical data</b>	
Connection	NW50/2", NW2½" and NW3" with connecting flange to DIN 32676, Connected with clamp clip and clamp sealing ring
Construction	Sampler housing, sampling tube, peristaltic pump and mounting frame made of high-grade steel, rotor guard made of Plexiglas
Installation	Sampling tube horizontal (for operation without the flow level meter, a transition line > 5 x NW mounted in front of the sampler)
Weight	Sampler pump: approx. 42.5 N ≈ 4.25 kg Sampling tube NW50/2": approx. 8.5 N ≈ 0.85 kg Sampling tube NW2½": approx. 13.1 N ≈ 1.3 kg Sampling tube NW3": approx. 16 N ≈ 1.6 kg



### Ordering details

Designation	Order number
Sampler pump right, type 6871-3	U944168713
Sampler pump left, type 6871-4	U944168714
Sampler blanking plugs, type 6871-3-24	U94416871324

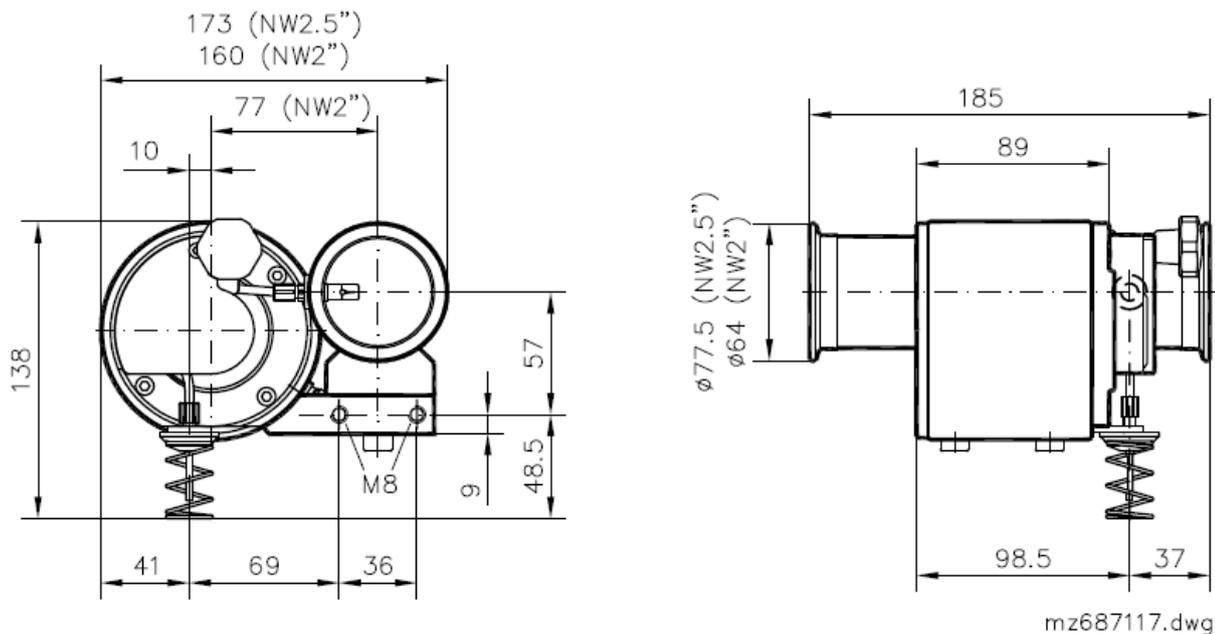
### Dimensions type 6871-5



### Ordering details

Designation	Order number
Sampler pump, double twin engine, type 6871-5	U944168715
Sampler tube 2" double, type 6871-5-11	U94416871511
Sampler tube 2,5" double, type 6871-5-12	U94416871512
Sampler tube 3" double, type 6871-5-13	U94416871513

### Dimensions type 6871-8



### Ordering details

Designation	Order number
Sampler pump right short, type 6871-8	U944168718
Sampler tube 2" right, type 6871-8-11	U94416871811
Sampler tube 2,5" right, type 6871-8-13	U94416871813

### Ordering details spare parts

Designation	Order number
Sampler hollow needle C for NW2", right	U94416871325
Sampler hollow needle C for NW2½", right	U94416871326
Sampler hollow needle C for NW3", right	310249
Sampler hollow needle C for NW2", left	U94416871425
Sampler hollow needle C for NW2½", left	U94416871426
Sampler hollow needle C for NW3", left	321438
Sampler hollow needle C for NW2"/ NW2½"/ NW3", straight	U94416871327
Sampler tube blanking plugs, type 6871-3-24	U94416871324
O-Ring D, 4.48 x 1.78 FDA	U220696
Hose US 120	U05006388
Sampling tube set type 6871-3-21	U94416871321
Sampler injection needle complete type 6871-3-20	U94416871320
Pressure spring for injection needle	U05006384
Sampling tube connection	U05007658
Sampler rotor protection right	U05008245
Sampler rotor protection left	U05008263
Rotor protection screw M6 x 10	376681
Sampler conveying wheel	U08001112
Threaded pin M3 x 5 DIN 916 VA	U206152
Sampler connecting cable	U08001105
Union nut with intake cannula	U496236