



UK Sampling Gauges Ltd

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RVP Sampling System (with MK 2 Winder)

Application

This System takes liquid samples as the sampler passes in one direction (downwards) through the total height of the liquid. It has been developed to enable accurate samples to be taken through the 2-inch vapour control valves on-board vessels. The design of the system allows the sample to be sealed as soon as it is drawn, without the need for decanting, so there is no loss of "light ends" – an essential requirement for RVP sampling. The equipment has been assessed by users within the oil industry, to ensure that it meets the needs of inspectors and operators.

Special features of the equipment include:

- a) A new all-level sampler (patented), incorporating a special probe with an inlet control valve. This valve is open while the sampler is moving downwards through the liquid, but closes when the sampler is stationary or moving upwards. The internal tube ensures that the sampler fills at a uniform rate throughout the process, independent of sampling depth.
- b) A winder offering operator protection from vapours in the tank being sampled, and a clearly visible depth counter to show the operator how deep the sampler is at all times.
- c) A system for carrying an appropriate number of sampling cans, and means of keeping the samples cool while awaiting analysis in the laboratory.
- d) A system for extracting controlled amounts of sample for analysis, from the sampler, in the laboratory.

Other parts of this RVP Sampling System are shown overleaf.



RNS 402 S
Sampler
Assembled



RNS 402 S
Sampler
Components



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Components of the RVP Sampling System

The sampling pack can be made up of a number of components, adapted to suit each particular sampling site. A typical pack would include:

1. MK 2 Winder and adaptor(s)
2. RNS 402 S sampling cans, probes and keys
3. RNS carrying cradle(s) & cooling drum(s)
4. RNS emptying station



Adaptor for MMC type valves



Carrying Cradle
with 6 cans
(12 – 18 cans
per vessel may
be required)



Cooling Drum (Optional)



Emptying Station



Winder MK 2,
with Depth Counter &
UTI type coupling



Please contact us, or scan the QR code, if you require further information about these or other equipment offered by **UK Sampling Gauges Ltd**, or if you require equipment to be adapted or modified.