

## BUNKER SAMPLING ACCESSORIES

### CUBITAINERS

Drip samplers use disposable 'cubitainers'. These hold the oil sample before mixing and transfer to the sample bottles. They also keep out all external contamination.



#### FG-K3-201-KW

- Supplied in 5 litre size.
- Packs of 24, with numbered tamper-evident caps, pourer cartons and pourer spouts.
- Suitable for VPS samplers by using the convertor bobbin.
- Available ex-stock.

### VALVE LOCK

Some authorities, for example the Port of Singapore, require that the sample flow rate is fixed throughout the bunkering period.

Bunkering can last many hours and it is possible to fit a special locking device to the sampler to prevent alteration of the sampler valve setting over this period.



#### FG-K3-201-KW

- Quick to fit and lock.
- Fully manufactured from 316 grade stainless steel.
- Accepts numbered padlock or the wrap type security seals.
- Fits all size of Kittiwake Bunker Samplers.

### CONVERTER BOBBIN

The Converter Bobbin is a low cost device designed to allow Veritas Petroleum Services Samplers to use Kittiwake Cubitainers.



#### FG-K3-021-KW

- Very low cost.
- Allows Kittiwake cubitainers to be used with all VPS bunker samplers.

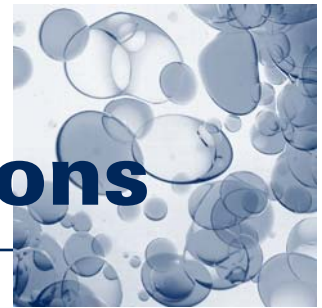
### SAMPLER GAUGE

Rapid flow of fuel in bunker lines can result in unusual pressure conditions. This is especially evident when fuel flows directly into a large cross bunker tank. A gauge is available for monitoring this. It will show if a vacuum is present allowing you to prevent the sample being drawn back into the line.



#### FG-K11168

- -1 to 10 bar stainless steel, oil filled gauge.
- Additional purge/sampling tap.
- Fits all Kittiwake samplers (made after May 1999).



## FUEL SAMPLER

The sampler is designed to fit permanently into an existing fuel supply line and can be removed with the line full.

Single size can be modified to fit 3 - 12" fuel delivery lines.



### FG-K11079-WA

- Specially made for fuel oil.
- Application - diesel engines.
- Correlation in accordance with ISO 3170.

## ELBOW KITS FOR ALTERNATIVE POSITIONS

It is possible to position the Sampler tube at an angle to keep the vertical. Elbow kits are designed to keep the cubitainer bag hanging vertically.

Pictures for illustration only - with kit fitted to a standard sampler.



### FG-K13588-KW

- Bunkers Sampler fitted with 45 degree Elbow

### FG-K13589-KW

- Bunkers Sampler fitted with 90 degree Elbow

## BUNKER DELIVERY RECEIPTS

3 part NCR (No Copy Required) bunker delivery receipts supplied with custom artwork and text.



### MA-K10472

- Supplied in print runs of 2000 off minimum order.

## CONSUMABLES

Kittiwake produce a complete range of sample bottles, labels and mailing cartons for storage and safe transportation of fuel samples. All consumables are available either as convenient kits containing all necessary equipment or supplied in bulk to refineries and bunker barge operations.

