

BUNKER SAMPLERS

Bunker samplers are designed provide a representative sample of the entire fuel delivery .

Manufactured from stainless steel, all products comply with ISO 3170, BS 3195, ASTM D 4057, ISO TR 13729 Singapore Bunkering Procedure.

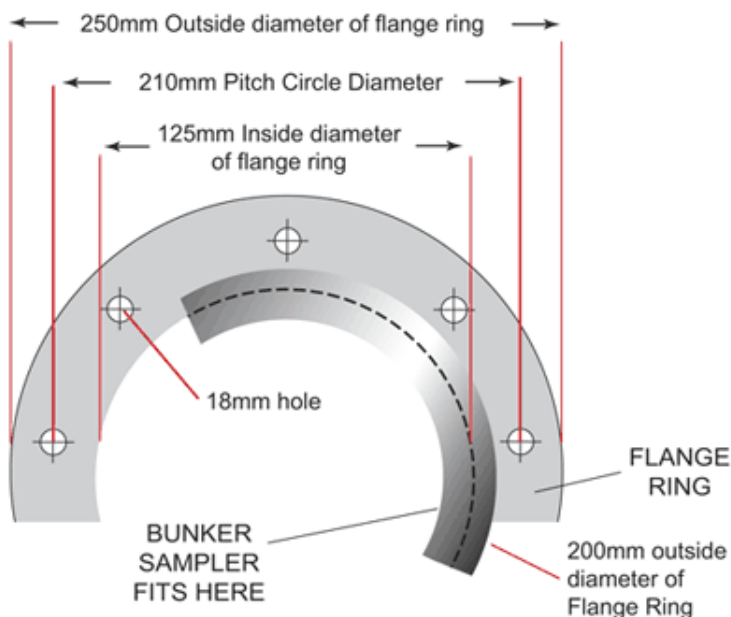
Samplers are designed to fit within the bolt ring of flanges to ANSI, BS, DIN, ISO, JIS national pipe flange standards (10bar, 150psi rating), 75-300mm pipe diameter.



Type approved by Lloyds Register of Shipping - Certificate no. 94/00100(E1).

- Fully manufactured from stainless steel.
- Complies with ISO 3170, BS 3195, ASTM D 4057, ISO TR 13729 Singapore Bunkering Procedure. CP60.
- Designed to fit within the bolt ring of flanges to ANSI, BS, DIN, ISO, JIS national pipe flange standards (10 bar, 150psi rating), 75 - 300mm pipe diameter.
- Lightweight and very easy to install, joint rings included.
- All sizes available ex-stock UK.
- Comprehensive accessories and consumables.

HOW TO SELECT THE CORRECT SIZE OF BUNKER SAMPLER?



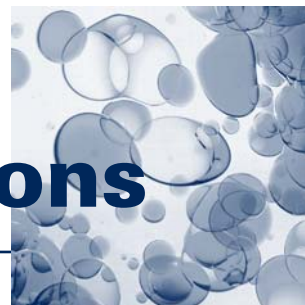
CALCULATION

Pitch Circle Diameter of Holes - Hole Diameter = X

Select the nearest size Bunker Sampler with an outside diameter smaller than X.

e.g. 210mm - 18mm = 192mm
 Therefore, 188mm diameter (FG-K1-125-KW) bunker sampler will fit.

See chart on next page for guidance to Bunker Sampler sizes.



BUNKER SAMPLER SELECTION CHART

This chart gives guidance to select the correct Sampler for a range of standard pipe flange sizes. Samplers are manufactured to fit within the bolt ring of standard flange sizes as listed. For other sizes please contact Kittiwake.

Flange Standard

Flange Rating

* the published pipe flange standards do not list these flange sizes and rating

JIS B2210	5K 10K 16K	80/100 80mm 80mm	125mm 100mm 100mm	150mm 125mm 125mm	175mm 150mm 150mm	200mm 175mm *	225mm 200/225 200mm	*	*	*	*
BS 4504	PN6 PN10 PN16	80/100 * 80mm	125mm * 100mm	150mm * 125mm	150mm * 150mm	200mm * *	200mm 200mm 200mm	250mm *	250mm *	300mm 300mm 300mm	300mm * *
BS10	D E F	3" 3" 3"	4" 4" 4"	5" 5" *	6" 6" 5/6"	* * *	8" 8" 8"	* * *	10" 10" 10"	12" 12" *	* * 12"
ANSI B16.5	150 300	3" 3"	4" 4"	5" *	6" 5"	* 6"	8" * 8"	* 8"	10" 10"	* *	12" 12"

Sampler Sizes

Nominal pipe size/bore	75mm	100mm	125mm	150mm	175mm	200mm	225mm	250mm	275mm	300mm
Actual outer diameter	127mm	157mm	188mm	216mm	241mm	266mm	307mm	328mm	361mm	401mm
Sampler Size	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"
Weight	3.90kg	4.28kg	4.84kg	5.46kg	6.16kg	6.48kg	6.64kg	7.08kg	7.2kg	10.05kg
Order No	FG-K1-123	FG-K1-124	FG-K1-125	FG-K1-126	FG-K1-127	FG-K1-128	FG-K1-129	FG-K1-130	FG-K1-131	FG-K1-132



Sampler installed in a pipeline

SPECIFICATIONS

Material:	Stainless steel 304 / 316
Nominal Flange Thickness	25 /26 mm
Total Thickness (including gaskets)	31 / 32 mm