

Most accurate sample grabber
Heavy Duty Low Maintenance Design
Fully ISO and API compliant
Not effected by pressure or viscosity variations

PS-02 Probe Sampler

Air actuated
sample extractor

The PS-02 Probe is a heavy duty reliable and accurate sample extraction device, which is designed to be mounted directly on the main pipeline. The PS-02 Probe is an integral part of the KPS inline probe sampling systems.

The PS-02 cell sampler is the ideal solution for a wide range of liquid sampling applications from light gas condensates to refined products and crude oils up to 120°C. With close to 100 auto samplers installed within a 20 minute range of the head office, in the Rotterdam harbour area. KPS got the opportunity to develop this unique proprietary low maintenance design. The innovative KPS PS-02 probe sampler is a unique sampler containing several unique features that allow for a unmatched high mean time between failure rate. As a consequence, operators save out a great amount of operational and logistic costs and prevent possible oil losses plus

discussions about the reliability and accuracy of the entire sampling system. The KPS PS-02 heavy duty automatic sampler allows for a long untroubled and stable performance factor. The KPS PS-02 is capable of handling crude oils containing high solid contents, and highly viscose crudes. The PS-02 uses a three-step technique to assure that the performance stays unaffected by possible variations in the process. The PS-02 is equipped with a relative large sample inlet to maximize upon sample accuracy. With KPS supplying and servicing auto sampling solutions for over 15 years, the PS-02 has a proven record of being one of the key components of a reliable and low maintenance automatic sampling system.

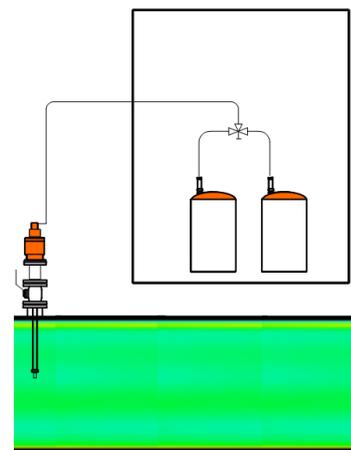


Specification

| | |
|---------------------------|--|
| Fluids sampled | Crude oil, refined hydrocarbons (including non-lubricating products) |
| Viscosity range | 0.5 to 8000 cSt. |
| Line temperature range | -20 to +120°C / -4 to +248°F |
| Ambient temperature range | -20 to +65°C / -4 to +149°F |

Max. operating pressure

| Class | 38C | 50C | 100C |
|-------|-------|-------|--------------|
| 150# | 19,0 | 18,4 | 16,2 bar(g) |
| 300# | 49,6 | 48,1 | 42,2 bar(g) |
| 600# | 99,3 | 96,2 | 84,4 bar(g) |
| 900# | 148,9 | 144,3 | 126,6 bar(g) |
| 1500# | 148,9 | 144,3 | 126,6 bar(g) |



| | |
|-----------------------|--|
| Configuration | Direct on the Main pipeline |
| Size range | 4" up to 52" pipelines |
| Mounting arrangements | 3" Flanged RF ANSI class 150, 300 or 600 (other flanged versions available on request) |

Sample grab size (nominal) 1.04cc or 2.04cc

Grab size repeatability ±1%

Grab size adjustment 1cc up to 2cc

Max. grab rate 60 grabs per min.

Sample outlet connection 1/4" Swagelok®

Standard materials Pressure retaining: 316/304 Stainless steel
Standard seals: Graphite filled P.T.F.E.
Standard O' rings Viton (Kalrez available)
(NACE certification available)

Operating standards and CE compliance ISO 3171, API 8.2, IP 6.2, PED . 97/23/EC,
Machinery directive . 98/37/EC

Approximate weight 35-40kg (depending upon pipeline size)

Actuation data

Actuation method Pneumatic

Air supply range 4 to 10 bar / 60 to 145 psi (lubricated air recommended)

Air consumption 30 grabs/min 0.47 ft³/min [CFM] - (0.8m³/hr) @ 5 bar

Actuator connections 2 x 1/4" NPT female



More info:



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OTHER KPS PRODUCTS:

- Automatic Gas Sampling
- Online Analyzer Systems