

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

PS-01 Probe Sampler

Air actuated
sample extractor

The PS-01 Probe is a heavy duty reliable and accurate sample extraction device, which is designed to be mounted directly on the main pipeline. The PS-01 Probe is an integral part of the KPS inline probe sampling systems.

The PS-01 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-01 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-01 heavy duty automatic sampler allows for a long untroubled and stable performance factor. The KPS PS-01 is capable of handling crude oils containing high solid contents, and highly viscose crudes. The PS-01 uses a three-step technique to assure that the performance stays unaffected by possible variations in the process. The PS-01 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-01 has a proven record of being one of the key components of a reliable and low maintenance automatic sampling system.

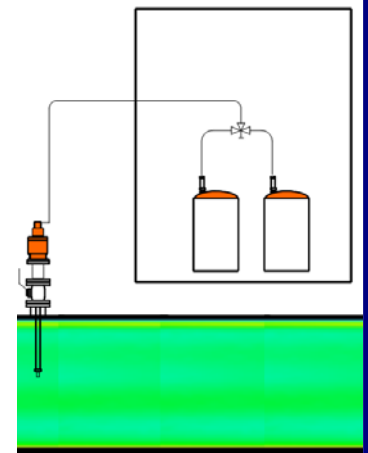


Specification

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:



Dienstenstraat 25
3161 GN Rhoon, NL
Tel. +31(0)10-5030077
Fax. +31(0)10-5030079
Email: info@KPSnl.com
Web: www.KPSnl.com

OTHER KPS PRODUCTS:

- Automatic Gas Sampling
- Online Analyzer Systems