



007EL Probe

Electrically driven in-line sample extractor



Data Sheet SI04-0507-3 • 007EL Probe

The 007EL Probe is a sample extraction device designed to sample refined products and light crude oils. Driven by an integrated electric motor it is suitable for use on remote sites with no plant air.

Using positive displacement, the 007EL Probe is insensitive to variations in pipeline pressure, ensuring that a highly accurate sample can repeatedly be produced.

The sampler's 'high grab rate' (ability to collect an extremely high number of grabs per minute)

ensures that a fully representative sample can still be extracted from very small batches.

Through legendary Jiskoot build quality and minimal use of seals, the 007EL Probe is designed for low maintenance. It can be mounted in the top, bottom or side of a horizontal or vertical pipe through a 2" ANSI 150#RF flanged or 1-1/4" NPT female tapping allowing direct retrofitting.

The 007EL Probe is certified for use in EExd IIB T4 hazardous area.



Specification

Fluids sampled	Light crude, refined hydrocarbons & non-corrosive chemicals	
Viscosity range	0.5 to 150 cSt	
Density	500 to 1200 kg/m	
Line temperature range	-20 to +80°C / -4 to +176°F	
Ambient temperature range	-20 to +60°C / -4 to +104°F	
Max. operating pressure	50 Barg at 40°C (std materials of construction)	
Mounting arrangements	2" ANSI 150# RF flanged or 1-1/4" NPT female tapping	
Configuration	Fixed, In-line	
Sample grab size (nominal)	1cc nominal ±5%	
Grab size repeatability	Better than ±5%	
Max. grab rate	30+ grabs per minute**	
Sample outlet connection	1/4" NPT female	
Standard materials	Pressure retaining: Standard seals: Standard 'O' rings	316/304 Stainless steel Graphite filled P.T.F.E. Viton (Kalrez 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	12.5kg (28lb)	

Actuation data

Actuation method	Motor driven
Motor supply	440V AC 50 / 60Hz three phase - Requires motor starter / emergency stop (can operate using single phase supply with suitable converter)
Consumption	60W nominal
Hazardous area classification	EExd IIB T4, Optional CSA Class I Division I Group C & D
Actuating solenoid	24V DC (22 Watts) 110 / 120V AC 50 / 60Hz single phase (8 Watts) 220 / 240V AC 50 / 60Hz single phase (8 Watts)
Actuation signal	250ms pulse, maximum
Electrical entries	M20

*Charges made for these items.

**Maximum grab rate and seal life are dependant on process conditions, ie line pressure and fluid viscosity

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