+ JISKOOT 210P, 210P-HP and 210EH, 210EH-HP

Extreme Temperature Cells



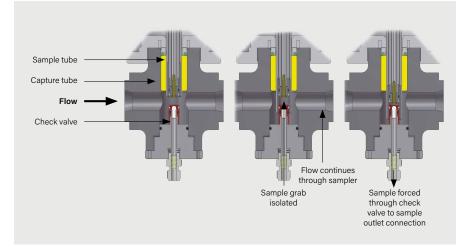
JISKOOT[™] 210 Extreme Temperature Cell is a reliable and accurate flow-through sample extraction device, suitable for use as part of an externally pumped, bypass fast-loop sampling system.

Available in standard and high-pressure versions, it is the ideal solution for a wide range of liquid sampling applications with an extended temperature range of -71° F to 482° F (-57° C to 250° C).

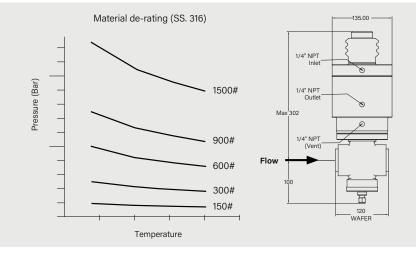
The 210 Cell has a unique three-stage positive displacement action giving accurate sampling irrespective of variations in process pressure or fluid viscosity. Designed for use with 1" to 2" diameter lines, the entire stream passes through the body of the device. The flow-through 210 Cell sampler has a bottom exit sample outlet, which avoids any possible water separation, and reduces any dead volume to an insignificant amount within the sampler.

Maintenance and replacement of seals can be performed without removing the sampler from the fast-loop.

Established as one of the key instruments in the sampling process for fiscal transfer and quality assessment, the 210 has a vast worldwide installed base and is seen as one of the most reliable platforms on which to build a sampling system.



Three-stage positive displacement action



Material de-rating (SS. 316)

Specifications				
Fluids sampled	Crude oil, refined hydrocarbons			
Viscosity range	0.5-8,000 cSt			
Process temperature range	Flange dependent—see chart b			
Ambient temperature range	-4–149 degF [-20–65 degC]			
Maximum operating pressure	Class	100 degF [38 degC]	122 [50	
(standard materials of construction)	150#	19.0	18.4	
see chart above for material de-rating	300#	49.6	48.	
	600#	99.3	96.	
	900#	148.9	144	
	1500#	248.2	240	
Operating Temperature	71-482 degF [-57-250 degC]			
Configuration	Full bore—flow-through cell			
Size range	1–2-in nominal bore			
Mounting arrangements	1-in nominal bore—ANSI class 1 (1-in, 1½-in, and 2-in flanged ver			
Sample grab size (nominal)	1.04cc or 2.04cc			
Grab size repeatability	Better than ± 2%			
Grab size adjustment	1cc version ± 20%—2cc version			
Maximum grab rate ⁺ (per min)	210P: 100 210			
Sample outlet connection	1/4-in Swagelok‡			
Capture time	Less than 250 ms			
Standard materials	Pressure retaining			
	Standard seals			
	Standard O-rings			
	(NACE certification available)++			
Operating standards and CE compliance	ISO 3171, API 8.2, IP 6.2, PED-9			
Approximate weight	210P: 27 lb [1	2.5 kg]	210	
Actuation data				
Actuation method	210P and 210P-HP: Pneumatic			
Air Supply range ⁺⁺	210P and 210P-HP: 60–145 psi [4			
Air Consumption ⁺⁺ (30 grabs/min)	210P: 0.47 ft ³ /min [0.8m ³ /hr] (A0			
	210P-HP: 1 ft ³ /min [1.67m ³ /hr] (A			
Actuator connections	2-in \times 1/4-in NPT female			
† Maximum grab rate, consumption, s § Charges made for these items.	seal life, and s	upply requiren	nents	

§ Charges made for these items.

++ ACFM reflects the actual swept volume for 30 sample cycles without allowance for interconnection piping

s (including	g non-lubricat	ing products),	and non corros	sive chemicals	
oelow					
2 degF 0 degC]	212 degF [100 degC]	302 degF [150 degC]	392 degF [200 degC]	Model	
.4	16.2	14.8	13.7	210P, 210EH	
3.1	42.2	38.5	35.7	210P, 210EH	
5.2	84.4	77.0	71.3	210P or 210P-HP, 210EH or 210EH-HP	
4.3	126.6	115.5	107.0	210HP, 210EH-HP	
0.6	211.0	192.5	178.3	210P-HP, 210EH-HP	
			Design temp [-57–250 deg	np: 71–482 degF degC]	
	r 600—wafer † ilable on reque	type (standard)		
1310113 ava		551)			
n ± 10%					
0P-HP: 60		210EH: 50		210EH-HP: 15 (1/2-in NB	
				hose)	
	316/304 Stainless steel				
	Graphite filled P.T.F.E.				
	Viton‡ (Kalre	ez available)§			
†					
-97/23/EC		Machinery directive—2006/42/EC, ATEX 94/9/EEC			
0P-HP: 29	lb [13.5 kg]	210EH: 27 lb [12.5 kg]		210EH-HP: 29 lb [13.5 kg]	
:		210EH and 210EH-HP: Hydraulic			
[4–10 bar] ((lubricated)) 210EH and 210EH-HP: N/A			
CFM) at 5	bar				
(ACFM) at	5 bar				
s are depe	ndent on proc	ess conditions	s, i.e., line press	sure and fluid viscosity	

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