

JISKOOT CPC

Constant-pressure-cylinder sample receiver

APPLICATIONS

- Sample receipt, storage, and transportation

ADVANTAGES

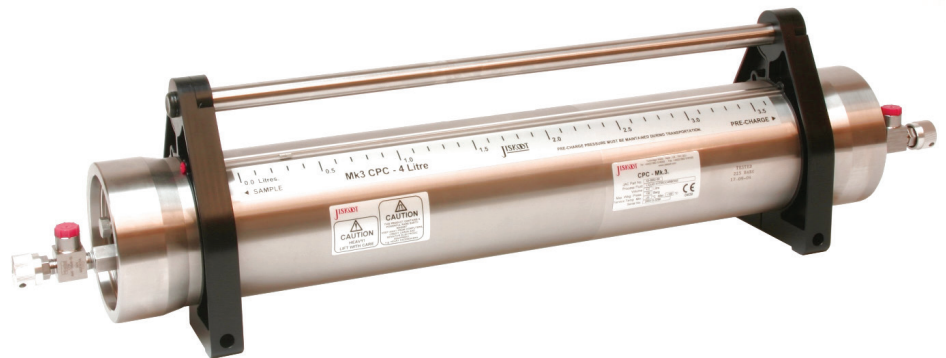
- Suitable for crude oil, condensate, gas, liquid gas, and refined hydrocarbons
- Samples maintained at line pressure for analysis
- Light, compact footprint for simplified storage and transportation
- Easy installation with design that requires no expansion space for external rods
- No moving external parts for improved operator safety
- Robust materials that are resistant to damage
- Compliance with ISO 3171, IP 6.2, and API 8.2 when operated within specifications as part of a suitable sampling system

The JISKOOT CPC* constant-pressure-cylinder sample receiver is a cost-effective, constant-pressure (variable-volume) solution for the receipt, storage, and transportation of liquid and gaseous hydrocarbon samples. The receivers are designed to be precharged with inert gas to maintain the sample at process pressure conditions for analysis.

These compact receivers are available with capacities of 0.5, 1, 2, or 4 L, are built to the highest safety standards, and are designed for ease of handling and storage.

JISKOOT CPC receivers feature low-profile valves positioned to avoid accidental operation or damage. They are supplied with a pressure gauge on the precharge end and include an integral magnet and external level indicator. Options include an electronic high-low or level sensor and a rugged carrying case.

The piston in the receivers range has been specially designed to prevent jamming and minimize trapped volume that could contaminate samples.



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Specifications

Maximum operating pressure	2,176 psi [150 bar] at 212 degF [100 degC]
Design pressure (gauge)	2,176 psi [150 bar]
Process temperature range	-4 to 230 degF [-20 to 110 degC] (dependent on seal)
Viscosity range	1 to 1,000 cSt
Materials	ASME SA479 316L stainless steel
Seals and O-rings	Viton [®] , PTFE compounds (standard; other seals available)
Suitable for NACE MR0175 (2001 edition) applications	
Designed to PD 5500:2003 specification for unfired fusion-welded pressure vessels	

Dimensions

	Receiver			
	0.5 L	1 L	2 L	4 L
Volume, mL	500	1,000	2,000	4,000
Overall length, in [mm]	18 [454] [†]	25 [631] [†]	21 [532] [†]	31 [787] [†]
Weight (empty), lbm [kg]	18 [8] [†]	22 [10] [†]	31 [14] [†]	44 [20] [†]
Operations per lifecycle, pressure cycles 150-bar gauge pressure > 0-bar gauge pressure	1,600	1,600	1,600	1,600
Classification	SEP (PS < 200)	SEP (PS < 200)	CE marked to meet pressure equipment regulations (97/3/EC) as a Category 3 vessel for a Group 1 gas	

[†] Approximate measures

Options

PED certification	Septum takeoff
Mounting brackets	Mounting brackets with receiver full sensor
Receiver full sensor	Carrying case
JISKOOT ShearMix [®] constant-pressure-cylinder mixing station	Level sensor

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