Solar® Turbines
A Caterpillar Company

C85
Pipeline Gas Compressors

Oil and Gas Applications

The *Solar*® C85 gas compressor is designed for applications with the *Titan*™ 250 gas turbine. This compressor combines high efficiency and wide flow range with a robust design and ease of restaging.

The C85 gas compressors have the latest state-of-the-art technology combined with the experience and reliability that comes with building and installing over 5000 compressors. These compressors are designed in compliance with API 617, a requirement for the severe environments and operating conditions this equipment may encounter.

C85 Gas Compressor dsc85_001

Typical C85 Rotor dsc85_002

Key Features

Number of Stages	1 - 2
Seals	Tandem dry gas
Bearings	Journal: Tilting-pad Thrust: Self-equalizing, tilting-pad
Inlet/Discharge Flanges	42/42 in. Class 900
Efficiency	> 89% isentropic
Maximum Speed	7000 rpm
Maximum Flow	1274 m^3/min (45,000 acfm)
Maximum Total Head	108 kJ/kg (36,000 ft-lb_f/lb_m)
Maximum Casing Press.	11 030 kPag (1600 psig)
Maximum Torque	79 090 Nm (700,000 lb_f-in.)
Instrumentation	Fully instrumented with vibration, temperature, and pressure monitoring per API 617
Vibration Limits	Within API 617

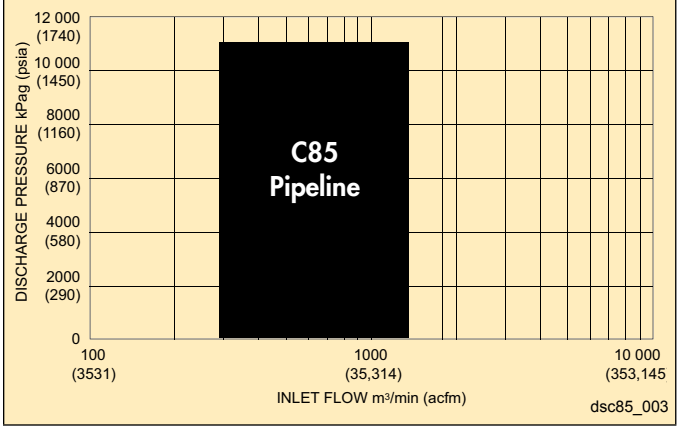
Materials

Impeller	15-5 PH
Casing	ASTM A216 GR WCC
Diaphragm/Guide Vane	ASTM A36
Rotor Spacer	AISI 410
Stub Shafts	AISI 4140
Labyrinth Seals	Steel-backed Babbitt

Typical Weights and Dimensions

Length	3.2 m (10' 8")
Height	3.0 m (9' 10")
Width	3.8 m (12' 4")
Weight	72 575 - 77 111 kg (160,000 - 170,000 lb)

Operation Range (Pressure vs. Flow)



dsc85_003

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For More Information

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