Pipeline Gas Compressors

Solar Turbines

A Caterpillar Company

Oil & Gas Applications

The Solar® C45 family of gas compressors is designed for applications with the Taurus™ 70, Mars® 90, Mars 100 and Titan™ 130 gas turbines. These compressors combine high efficiency and wide flow range with a robust design and ease of restaging.

The C45 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.



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C45 Gas Compressor

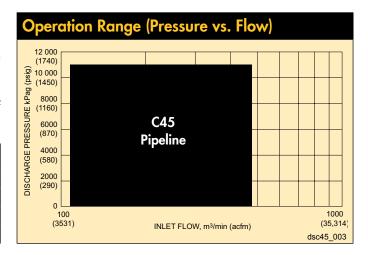


Typical C45 Rotor

Typical Weights and Dimensions		
Length	1.4 - 1.9 m (4' 8" - 6' 4")	
Height	1.9 m (6' 3")	
Width	2.4 m (8' 0")	
Weight	21 722 - 27 216 kg (48,000 - 60,000 lb)	

Key Features		
Number of Stages	1 - 3	
Seals	Tandem dry gas	
Bearings	Journal: Tilting-pad Thrust: Self-equalizing, tilting-pad	
Inlet/Discharge Flanges	24/24 in. Class 900	
Efficiency	> 88% isentropic	
Maximum Speed	12,000 rpm	
Maximum Flow	481 m ³ /min (17,000 acfm)	
Maximum Total Head	108 kJ/kg (36,000 ft-lb _f /lb _m)	
Maximum Casing Press.	11 030 kPag (1600 psig)	
Maximum Torque	20 900 Nm (185,000 lb _f -in.)	
Instrumentation	Fully instrumented with vibration, temperature, and pressure monitoring per API 617	
Vibration Limits	Within API 617	

Materials		
Impeller	15-5PH	
Casing	ASTM A216 GR WCC	
Diaphragm/Guide Vane	ASTM A36/ASTM A516 Gr 70	
Rotor Spacer	AISI 410	
Stub Shafts	AISI 4140	
Labyrinth Seals	Steel-backed Babbitt	



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