

The Solar® C40 family of pipeline gas compressors is designed for applications with the *Centaur*® 40, *Centaur* 50, *Taurus*™ 60, *Taurus* 70 gas turbines. These compressors combine high efficiency and wide flow range with a robust design and ease of restaging.

The C40 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.



**C40 Gas Compressor**

dsc40P\_001



**Typical C40P Rotor**

dsc40P\_002

### Typical Weights and Dimensions

Length	1.3 - 1.6 m (4' 3" - 5' 1")
Height	1.4 m (4' 9")
Width	1.8 m (5' 10")
Weight	9800 - 12 200 kg (21,600 - 26,900 lb)

### Key Features

Number of Stages	1 - 2
Seals	Tandem dry gas
Bearings	Journal: Tilting-pad Thrust: Self-equalizing, tilting-pad
Inlet/Discharge Flanges	20/20 in. Class 900
Efficiency	> 86% isentropic
Maximum Speed	15,500 rpm
Maximum Flow	311 m <sup>3</sup> /min. (11,000 acfm)
Maximum Total Head	108 kJ/kg (36,000 ft-lbf/lb <sub>m</sub> )
Maximum Casing Press.	11 030 kPag (1600 psig)
Maximum Torque	7457 Nm (66,000 lb <sub>f</sub> -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 WCB
Diaphragm/Guide Vane	ASTM A36 Gr 4
Rotor Spacer	AISI 410
Stub Shafts	AISI 4140
Labyrinth Seals	Steel-backed Babbitt

### Operation Range (Pressure vs. Flow)

