

GB-100

Integrally Geared Single Stage Blower



LONE STAR
TURBO

MODEL GB-100

Standard Specifications

| | |
|----------------------------|---|
| Gas | Air, Steam, H2S, Biogas, Fuel Gas, CO2, N2, LNG, Custom |
| Flow Range | 100% to 35% of Rated Flow with Combination Control |
| Pressure Range | Up to 30 PSIG / 2 bar |
| Maximum Case Pressure | 50 PSIG / 3.5 bar |
| Stages | Single Stage |
| Drive Type | Direct Coupled |
| Power Driver Options | Electric Motor, Steam Turbine, Combustion Engine |
| Gearbox | Helical Gear Set |
| Cooling Lubricant | Lubricant Cooling (Air or Liquid) |
| Lubrication Options | Pressurized Oil |
| Bearings | Pinion - Tilt Pad Journal, Drive Journal |
| Enclosure | Optional |
| Sound Level | Job Specific |
| Sound Level with Enclosure | Job Specific |
| Filtration Rating (std) | 99% at 2 micron, or as required |
| Seals Air | Labyrinth Type |

Standard Materials of Construction

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|--------------------------|---|
| Casing | Grey Iron GG25, Ductile, ASTM A536, A48 or Equal |
| Bearings | ANSI 5140 Steel, Babbited, 40CR Alloy Casing |
| Impeller | AlCu2MgNi Alloy (annodized), 17-4PH, Titanium, Inconel |
| Inlet Guide Vanes | Stainless Steel 316 |
| Discharge Diffuser Vanes | Stainless Steel 316 |
| Gears | AISI 8620, Steel 10CrNiMo to AGMA 12/13 |
| Shaft | Steel 10CrNiMo |
| Seals Air | ASTM B86 Z25631 Zinc Alloy Aluminum |
| Seals Gas | ASTM C695 Molded Graphite |
| Blower Base Skid | ASTM A36 Structural Steel |
| Isolation Pads | St. SIS 1312 inertial dampening with rubber hardness 60 |
| Finish | 2 Part Epoxy Lone Star Blue RAL5005 |
| Enclosure | Aluminum, Galvanized Steel, Stainless |

Optional Testing & Certifications

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|----------------------|---|
| API | API 617, API 672, API 614 |
| Electrical | UL 508A, CE, CSA |
| Hazardous Location | ATEX, Class1 - Division 1- Division 2, Zone 0-2 |
| Balancing | ISO 1940 - G2.5, ~4W/N API |
| Noise Level | OSHA 1910.95, ISO 2151:2004 |
| Performance | ASME PTC-10, PTC-13, ISO 5389 |
| Hydro Testing | 1.5 Time MAWP |
| Overspeed Testing | Optional |
| Positive Material ID | XRF, OES, Material Certification |
| NACE Compliance | Optional |
| Special Coatings | Optional |

Service

Air, Gas, Pressure, Vacuum

Control Options

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|--------------------|--|
| Control Methods | Variable Inlet and Discharge Guide Vane, speed control, blow off, or combination |
| Local Controller | sLOC™ Standard - Custom for Allen Bradley, Modicon, Siemens or Other |
| HMI | sLOC™ Standard or Custom HMI |
| Remote Monitoring | sLINK™ or Custom |
| Control Set Points | Pressure, Flow, Power, Custom Input |

