



API-617, Integrally Geared Centrifugal Single Stage Heavy Duty Compressor

BMC 34X (Type A)



The **BMC-34X (Type A)** is an API-617 compliant single-stage centrifugal compressor.

- Flows to 3,550 ACFM (6,030 AM³/hr)
- Max working pressure 1,000 psia (70 bar)

Sundyne compressors are ideal for heavy-duty service in gas processing applications.

APPLICATIONS

- Natural Gas Extraction
- Butane
- Ethylene
- H₂S Wet Gas
- Hydrocarbon Processing
- Flue Gas Desulphurization

Specifications

Maximum Flow	3,550 acfm	6,030 am ³ /hr
Maximum Speed	34,200 rpm - 60Hz	33,600 rpm - 50Hz
Maximum Working Pressure	1,000 psia	70 bar
Temperature Range	-200 to 500°F	-130 to 260°C
Maximum Motor Size	450 hp	335 kW
Hydro Test Pressure	1.5 Times Maximum Working Pressure	
Min Casing Thickness	0.75 in	19.05 mm
Corrosion Allowance	0.125 in	3.18 mm
Impeller Clearance	0.03 to 0.05in	31.8 to 38.1mm
Shaft Diameter at Bearings	1.5in	38.1mm
Mechanical Seal Sizes - Outboard	1.5 in	38.1 mm
Mechanical Seal Sizes - Inboard	1.5 in	38.1 mm
Mounting	Horizontal	
Flanges	600# ANSI RF standard, other ratings available	
Suction Flange	3, 6, and 8 in.	
Discharge Flange	2, 4, and 6 in.	
Gearbox Oil Temp Range - Normal	120 to 140°F	49 to 60°C Consult Factory
Minimum Gearbox Starting Temp	32°F (0°C) with light turbine oil, lower with approved synthetic oil	
Gearbox Lubricant	ISO VG - 64 General Purpose Oil	
Gearbox Sump Capacity	Per API 614	
Gearbox Lube System	Pressurized	
Gears	Hardened and precision ground, helical AGMA class 13	
Input and Idler Bearings	Spherical roller element (input), hydrodynamic (idler and output). Min 5 year uninterrupted service.	
Output Bearings	Solid Journal or Tilt Pad thrust and radial as required	
Coupling	Spacer Type	
Materials of Construction	Carbon Steel, Stainless Steel castings, 17- 4PH, Titanium impellers	

OTHER SUNDYNE COMPRESSOR PRODUCTS INCLUDE:

- Sundyne Single-Stage Compressors
- Line Mounted Compressor (LMC-3XX) Series
- Base Mounted Compressor (BMC-3XX) Series
- Pinnacle Multi-Stage Compressors

When it comes to high-speed, integrally geared compressors, Sundyne Corporation's LMC/BMC line is regarded by many as the best in class option. These single-stage centrifugal compressors typically deliver the same performance range as multi-stage, piston-driven positive displacement compressors, while providing a smaller, easier to maintain package.



INDUSTRY STANDARDS

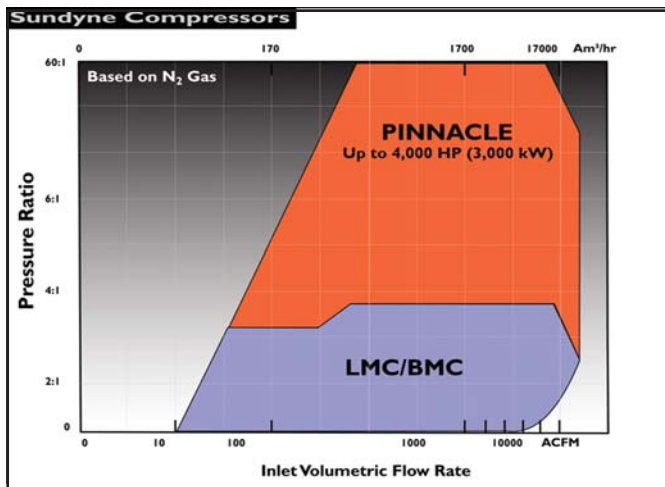
API American Petroleum Institute

Sundyne Corporation literally helped write the book for API centrifugal compressors. Sundyne Compressors are API-617/614 compliant and deliver oil-free, pulsation-free flow in a small, compact design.

ISO International Standards Organization

Sundyne Compressor models are manufactured to ISO 10438 (API-614) standards for lube oil systems.

PERFORMANCE



APPLICATIONS (cont.)

- Gasification
- Evaporators
- Clean Fuels
- Power Generation
- Desulfurization
- Gas Production
- Chemical Transfer
- Refrigeration
- Regeneration
- Gas Boost
- General Processing Industry
- Waste Gas
- Hydrogen
- Corrosive Gases
- Acetylene
- Ammonia
- Purge Gas
- Lift Gas
- Fuel Gas
- Natural Gas
- Chemical Processing
- MTBE Replacement
- Stripper Overhead
- Pipeline Booster
- Recycle
- Nitrogen
- Acetic Acid
- Polypropylene
- HC Boost
- Chlorine

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