



## NGH100 Series Horizontal Compressors

### Oil-Free Reciprocating Gas Compressors



#### Market

The Blackmer® NGH Series Oil-Free Reciprocating Gas Compressor is a 100 BHP rated horizontal unit that has been developed for use in vapor-recovery, wellhead-transfer and artificial-lift applications in the Upstream Oil & Gas Market.

#### Construction

The NGH100 compressor features a horizontal non-lubricated design and is available in single- and two-stage configurations. It offers flexible cylinder sizes for various flow rates and pressures and motor-speed capabilities up to 1,800 rpm. All castings are constructed of ductile iron with a balanced forged-steel crankshaft. Piston rings and rider bands are PTFE/PEEK and needle bearings are steel with no yellow metals used. Multi-packing seals are standard.

#### Applications

- Wellhead extraction and transfer
- Vapor-recovery units
- Artificial lift of natural gas

#### Features

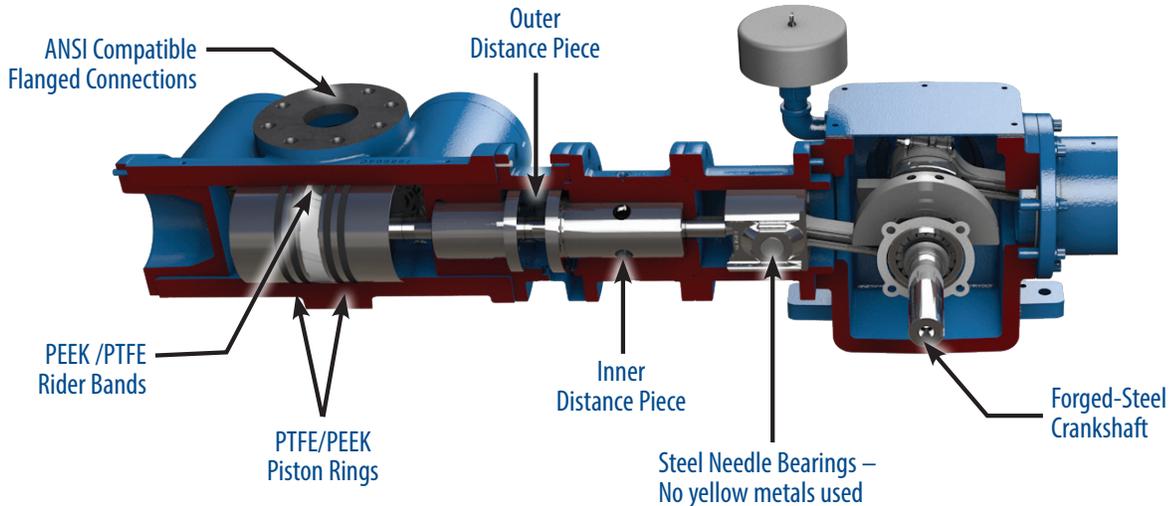
- Wet and dry gas-handling capability
- Compatible with sour gas up to 8% dry hydrogen sulfide (H<sub>2</sub>S)
- Maximum BHP: 100 HP (74.5 kW)
- Motor speeds up to 1,800 rpm
- Maximum Allowable Working Pressure (MAWP) to 1,500 psig (103.42 bar)
- Flow rates to 3,000 MSCFD
- All casted parts are ductile-iron construction
- Forged steel crankshaft
- Steel needle bearings
- No yellow metal construction
- Triple-seal packing is standard
- Single-stage initial configurations: 6" x 6" and 3.25" x 3.25"
- Two-stage initial configuration: 6" x 3.25"



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The inside view on why Blackmer® compressors are superior in handling wellhead gases and controlling vapor emissions



Model		NGH1013	NGH1023
<b>Number of Cylinders Per Stage</b>		2	1
<b>Bore – in. (mm)</b>	Cyl 1	3.25 (82.55)	6.00 (152.4)
	Cyl 2	3.25 (82.55)	3.25 (82.55)
<b>Stroke – in. (mm)</b>		3.0 (76.2)	3.0 (76.2)
<b>MAWP – psig (bar)</b>	Stage 1	1,500 (103.42)	500 (34.47)
	Stage 2	N/A	1,500 (103.42)
<b>Minimum Speed – RPM</b>		500	500
<b>Maximum Speed – RPM</b>		1,800	1,800
<b>Piston Displacement CFM (m<sup>3</sup>/h)</b>	at 100 RPM	5.3 (9)	9.6 (16.3)
	at 900 RPM	48 (81.6)	86.4 (147)
	at 1,200 RPM	64 (109)	115.3 (196)
	at 1,800 RPM	96 (163)	172.9 (294)
<b>Maximum Discharge Temperature – °F (°C)</b>		350° (176.7°)	350° (176.7°)
<b>Maximum Brake Horsepower</b>		100	100
<b>Maximum Rod Load – lbs (kg)</b>		7,000 (3175.2)	7,000 (3175.2)
<b>Bare Compressor Weight* – lbs (kg)</b>		1,300 (589.7)	1,400 (635.0)
<b>Stage 1</b>	Inlet/Outlet	1.5" 900# ANSI	3" 300# ANSI
	Inlet/Outlet	N/A	1.5" 900# ANSI

\* Compressor weights vary depending upon options selected, consult factory for detailed weights.

### Contact your Blackmer Distributor

Our Application Engineers can provide expert assistance in selecting the right compressor, the right options, and the right accessories for your specific application. Please call +1 (616) 241-1611 or visit our website at [blackmer.com](http://blackmer.com) for more information.



Process | Energy | Military & Marine  
 PSG Grand Rapids  
 1809 Century Avenue SW, Grand Rapids, MI 49503-1530 USA  
 T: +1 616.241.1611 • F: +1 616.241.3752  
[blackmer.com](http://blackmer.com)



Authorized PSG® Partner: