

LONGER LIFE
BEARING MATERIALS

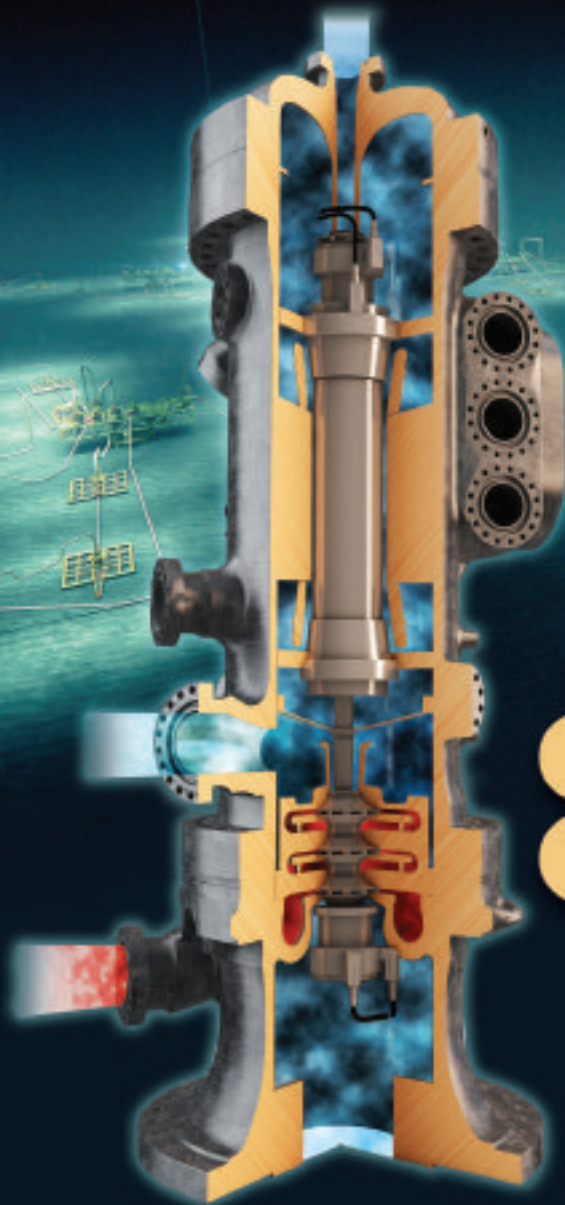
ROTATING REVOLUTION
THE FUTURE OF SPIN

STEADY GROWTH OUTLOOK
SLOW BUT POSITIVE

APRIL 2017

COMPRESSOR_{tech²}

Dedicated To Gas Compression Products & Applications



OFFSHORE GAS COMPRESSION

BLACKMER'S
New Recip

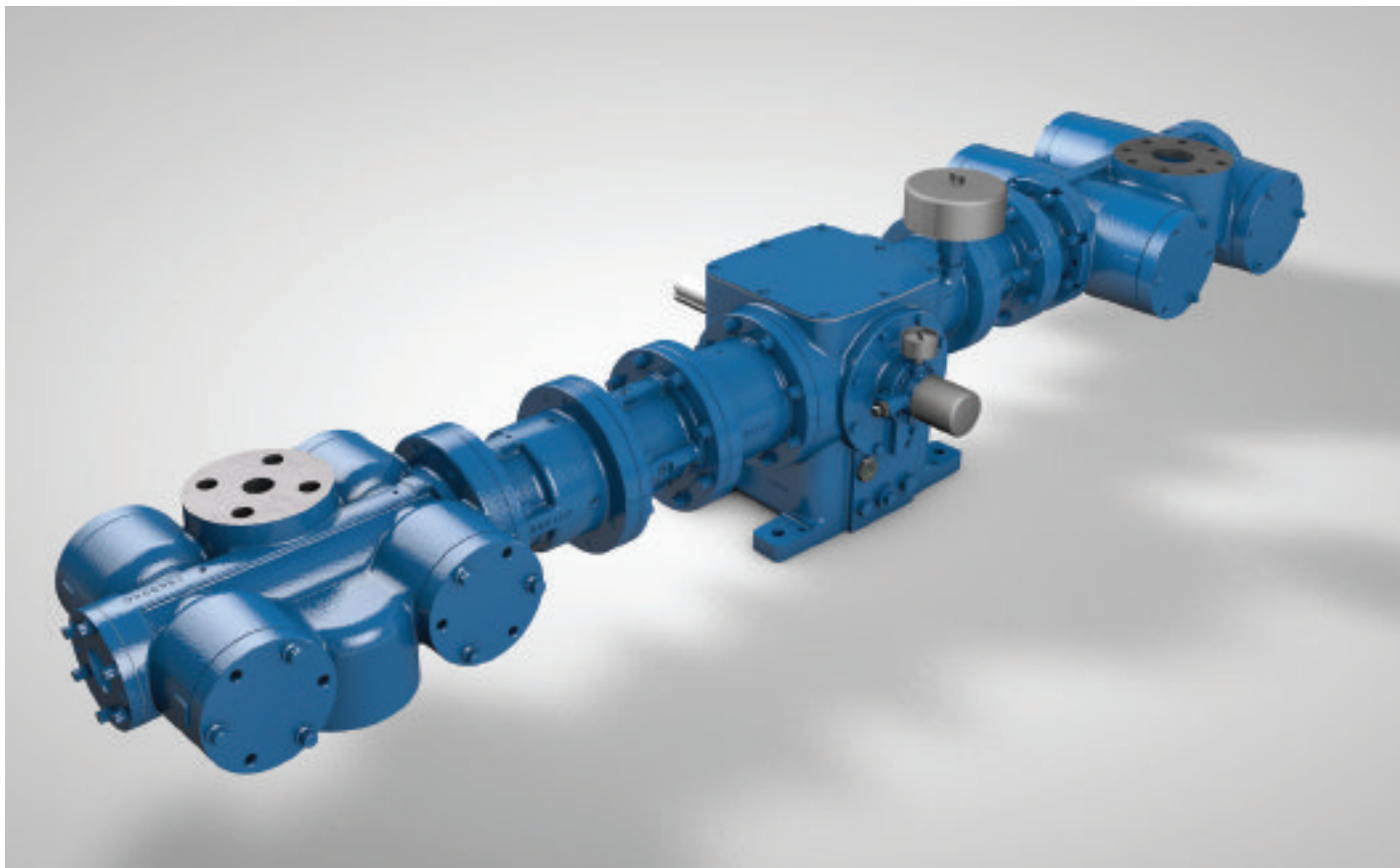


Also Featuring:
HARSCO
A Company
On The Move

WWW.COMPRESSORTECH2.COM/SUBSCRIBE/

Blackmer Releases NGH100 Series Horizontal Compressors

New line designed to handle sour gas



■ Blackmer's NGH100 series of compressors feature flow rates of 3000 cfd (85 m³/d).

BY DJ SLATER

For years, Blackmer kept hearing a similar question from its customer base, which wondered if a larger gas compression offering was being considered. The company, known for its vertical reciprocating compressors, found an answer to that question in the form of its NGH100 series of horizontal oil-free reciprocating gas compressors.

“After years of continually hearing this question, we began some heavy VOC (voice of the customer) to see what was really needed and desired,” said Ron Crouch, product manager – compression, Blackmer. “The result was the NGH100 series.”

The new compressors complement Blackmer's vertical line, albeit with more flow and high-pressure capability. The series features a horizontally opposed configuration, increased power-frame rating and the ability to handle sour gas that contains up to 8% dry hydrogen sulfide (H₂S), Crouch said.

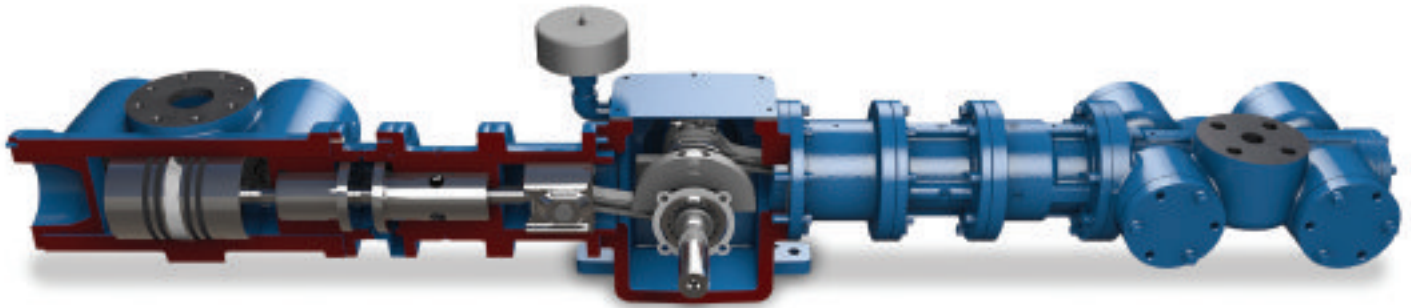
The NGH100 series is designed for use in vapor recov-

ery, wellhead annulus reduction and artificial lift applications in the upstream oil and gas market, as well as the liquefied petroleum gas business.

The series comes in heavy-duty, single-stage (NGH1013) and two-stage (NGH1023) configurations with flow rates up to 3000 cfd (85 m³/d) and motor speed up to 1800 rpm. The NGH1013 comes in cylinder configurations of 6 x 6 in. (152.4 x 152.4 mm) and 3.25 x 3.25 in. (82.5 x 82.5 mm), both with a 3 in. (76.2 mm) stroke. This model has a maximum allowable working pressure up to 1500 psia (103.4 bar) and weighs 1300 to 1500 lb. (590 to 680 kg), depending on the variation.

The NGH1023 comes in a 6 x 3.25 in. (152.4 x 82.5 mm) cylinder with a 3 in. (76.2 mm) stroke with maximum allowable working pressure of 1500 psia (103.4 bar). It weighs 1400 lb. (635 kg).

Both models are 100 bhp (74.5 kW) rated with a maximum rod load of 7000 lb. (3175 kg) and a maximum discharge temperature of 350°F (177°C).



■ The NGH100 series includes a forged-steel crankshaft and PTFE/PEEK piston rings and rider bands.

The NGH1013 has a piston displacement of 5.3 to 19.2 cfm (9 to 32.6 m³/h) at 100 rpm; 48 to 172.9 cfm (81.6 to 294 m³/h) at 900 rpm; 64 to 231 cfm (109 to 392 m³/h) at 1200 rpm; and 96 to 345.8 cfm (163 to 588 m³/h). The NGH1023's piston displacement is 9.6 cfm (16.3 m³/h) at 100 rpm; 86.4 cfm (147 m³/h) at 900 rpm; 115.3 cfm (196 m³/h) at 1200 rpm; and 172.9 cfm (294 m³/h).

The NGH100 series also sports a nonlubricated design and ANSI compatible flanged connections. All casted parts are ductile-iron construction, and the crankshaft is made from forged steel. The piston rings and rider bands are made of PTFE/PEEK. In order to handle sour gas, the series incorporates steel wrist pins that ride on steel needle bearings. Also, yellow metal is not used, Crouch said.

"They (the oil and gas sector) really frown on technology that features yellow metal components as often times the fields they serve are ever changing," Crouch said. "These dynamics can wreak havoc on materials not suited for the harsher conditions and gas components, especially sour service."

With one question finally answered, it didn't take long for another to crop up for Blackmer. The latest question is why the company is bringing this compressor offering to the marketplace now.

"Our response has been — what better a time to focus on a new product in a cyclical market that is near or at the bottom," Crouch said. "We felt the continued investment would bring a great option to this and other markets when the tide begins to turn." **CT2**

Quality Products You Can Trust

www.klsummit.com



Avoid Unplanned Downtime

Summit's specialty lubricants succeed where conventional lubricants fail. Using Summit lubricants, backed by our experience and technical expertise, has proven to result in significant decreases in operating and maintenance costs.

We work with gas compressor OEMs, packagers, operators and end users around the world to solve compressor lubrication-related issues. **And we're ready to solve yours.**



To see all our products visit
www.klsummit.com

a brand of
FREUDENBERG

Klüber Lubrication NA LP
800.749.5823 // info@klsummit.com
Summit products are made in the U.S.