

Ace Plus™ Gas Handler Pumps Datasheet

GE ARTIFICIAL LIFT

PLUS Line

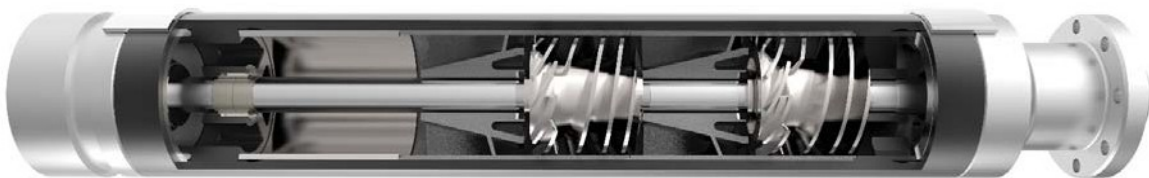
Performance - Longevity - Unsurpassed Service = PLUS

GE's Ace Plus line of products are designed to increase your lift efficiency and extend your gas production capabilities by handling up to 65% free gas.

The GE Oil & Gas Ace Plus Gas Handler Series is part of a suite of gas management products for high, medium and low flow rate applications. This multi-stage, axial-flow gas handling system is located below the main pumping system, can be used independently or in conjunction with other gas management products, and is designed to efficiently manage downhole applications with high

percentages of free gas. This is accomplished by using pressure generated by the pump stages to compress the gas and produce it as part of the fluid.

Performance tests indicate that the Ace Plus Gas Handler Series is able to process up to 65% free gas without locking at extremely low intake pressures. Standard pump stages can only handle one fourth of this amount of free gas before locking. The Ace Plus Gas Handler Series, is designed to reduce production disruption and overheating of the ESP motor caused by gas locking.



Applications

- Oil producing wells with high gas and low intake pressures
- Electric submersible pumps unable to separate gas prior to entering the pump
- Electric submersible pumps utilizing gas separators in extremely gassy wells
- Subsea oil wells or wells with non-vented packers
- Abrasive oil well applications
- Steam flood applications including SAGD

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Features

- Modified impellers feature low inlet angles and a high-angle discharge vane design
- Multiple vanes on impellers increase the number of available edges to break gas bubbles
- Axial stage design manufactured to prevent fluid from separating when passing through the stages
- Optional constructions available for abrasive well applications
- Flexible installation allows placement above the standard intake or above a gas separator in high- gas wells

Benefits

- Allows the pump to handle high gas volume fraction (GVF) well conditions
- Seeks to increase lift efficiency using natural lift from the gas
- Designed to reduce production shutdown due to gas lock
- Designed to improve draw down for optimal well production
- Designed to extend gas production capabilities of standard pump stages
- Enables operators to customize the number of stages required based on the application

Specifications

	Ace Plus 538 Gas Handler Series	Ace Plus 400 Gas Handler Series
Housing Outer Diameter	5.38 inches	4.00 inches
Minimum Casing Size	7.00 inches	5.5 inches
GVF	Up to 75%	Up to 75%
Max Pressure	6,000 PSIG	6,000 PSIG
Max Temperature	Up to 250°C	Up to 250°C
Stage Metallurgy	NiResist*	NiResist*
Housing Metallurgy	Carbon steel*	Carbon steel*

*All metallurgy is available with coatings for scale, corrosive and abrasive environments upon request

Ace Plus Gas Handlers	BEP	Application Range
TD GH650	650 bbl/d	300-900 bbl/d
TD GH1400	1500 bbl/d	800-1800 bbl/d
TD GH2500	2650 bbl/d	1000-3200 bbl/d
TD GH6000	6300 bbl/d	3400-7600 bbl/d
TE GH4000	4500 bbl/d	1400-5400 bbl/d
TE GH7000	8000 bbl/d	3000-9600 bbl/d

TD = 4" O.D.

TE = 5.38" O.D.

To learn more about GE's innovative Ace Plus Gas Handler contact your GE sales representative.

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