



Sauer Compressors

SAUER

HAUG



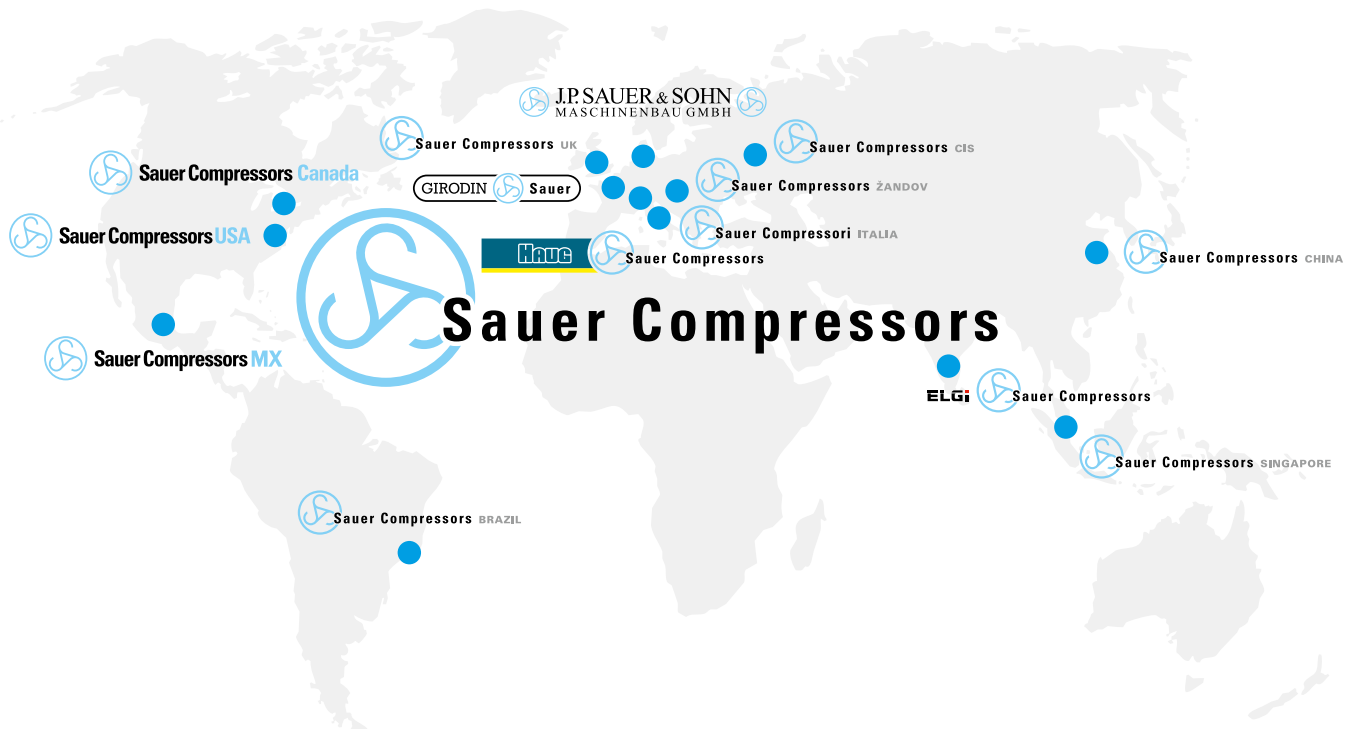
PETRO INDUSTRY

Dependable up to 500 bar – anywhere, anytime, anygas.

Sauer Compressors for the Petro Industry



Dependable up to 500 bar – anywhere, anytime, anygas.



For your local contact please visit our website
www.sauercompressors.com

Dependable up to 500 bar – anywhere, anytime, anygas.

Comprehensive industry expertise

With over 85 years of experience in compressed air technology, we know the challenges our customers are facing all over the world. As a global company we keep local requirements in mind: Our companies and partners around the globe know the particular demands in each area and provide exactly the right solutions and services to meet them. Our support knows neither business hours nor time zones – we are available whenever we are needed.

SAUER – High-pressure know-how made in Germany

Our headquarters J.P. Sauer & Sohn in Kiel, Germany, serves as the centre of excellence for our renowned SAUER-range of piston compressors. The oil-lubricated machines are available for pressures up to 500 barg and designed for continuous operation. The reciprocating models allow compression in up to five stages. A total of up to six cylinders are mounted in a star, V or W arrangement. The compressors are the ideal solution for operation at atmospheric suction pressure or to be used as gas-tight boosters with pre-pressures up to 25 barg.

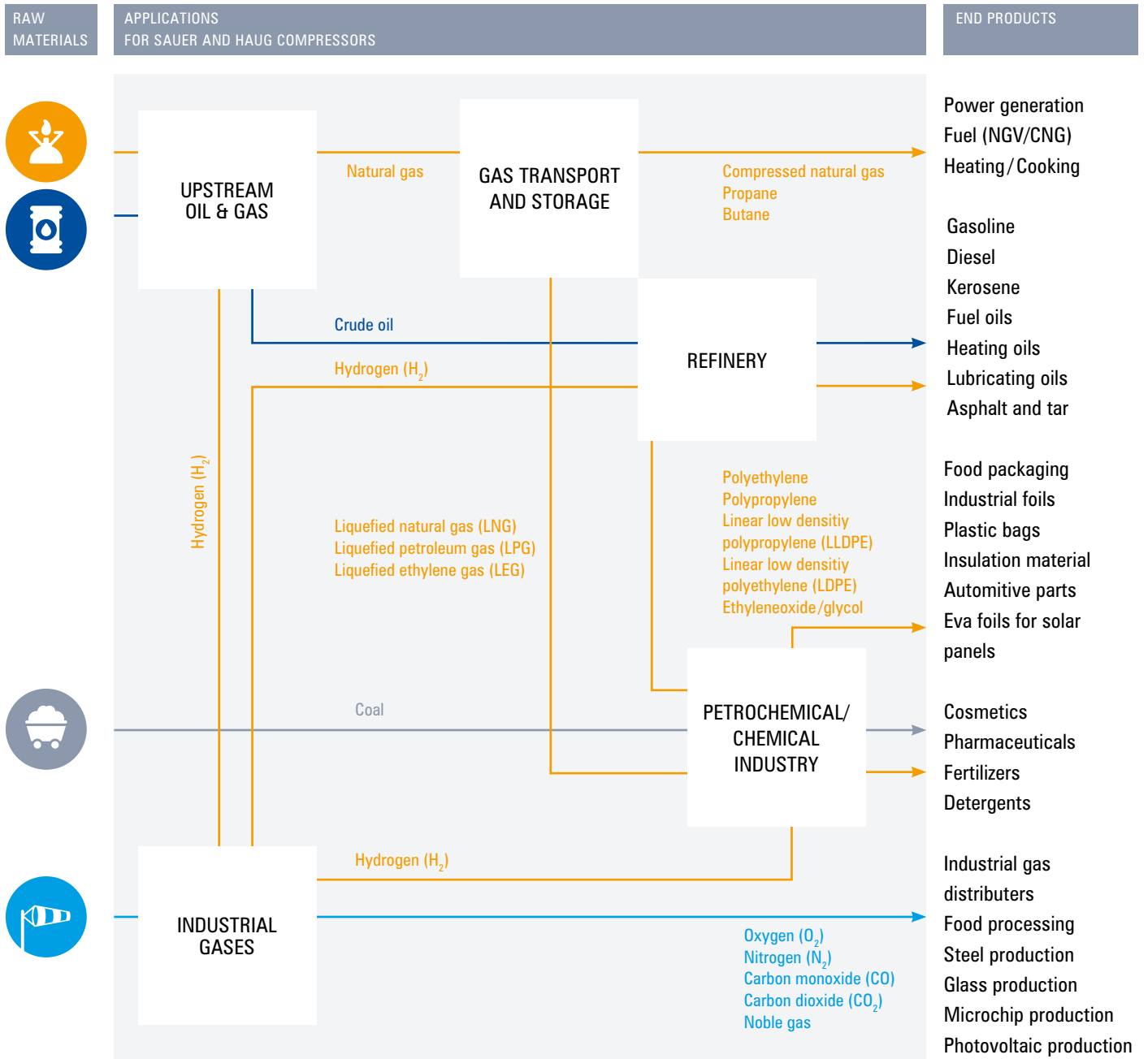
HAUG – World leading oil-free piston compressors

HAUG compressors are the first choice when it comes to demanding applications that require maximum process purity and safety. The dry-running machines are entirely oil-free, prevent contamination and provide hermetic gas-tightness. The modular and tailor-made design helps to achieve pressures from 1 to 450 barg. High-tech innovations, such as a non-contact magnetic coupling (up to 110 kW) and the high-pressure piston design NanoLoc[®], add to the compressors' outstanding performance.

Sauer Compressors for the Petro Industry

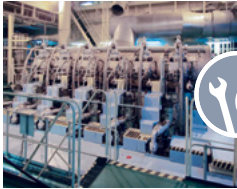


Petro Industry Applications



Oil & Gas Applications

Engine starting air



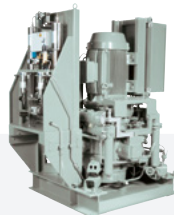
//// L3vante

Pipeline purging



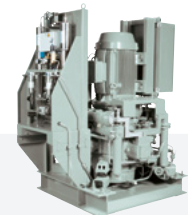
//// Hurricane

Blowout preventer (BOP) control



//// 5000 series

Riser tensioning system/ Motion compensation for semi-submersible rigs



//// 5000 series

Nitrogen generation

SAUER



Offshore Nitrogen
Generator

Nitrogen booster



//// Tornado

Legend



Upstream

- Exploration and production in the oil & gas industry
- Includes everything from the search for potential reserves of oil and gas, exploration of promising sources to the final extraction of the resources



Midstream

- All means of transportation, storage, support systems and marketing of oil & gas products



Downstream

- Refining and processing of oil & gas products into usable products, such as petrol, diesel oil, jet fuel, fuel oils, liquefied petroleum gas (LPG), propane, natural gas, lubricants, plastics and pharmaceuticals



Auxiliaries

- Applications aside from the usual oil & gas processes

Products – Performance Overview

Our compressors are as diverse as our customers' requirements. We provide high-quality compressed air and gas solutions in various capacities and pressure ranges to meet the particular demands of a great number of industries and applications.

SAUER

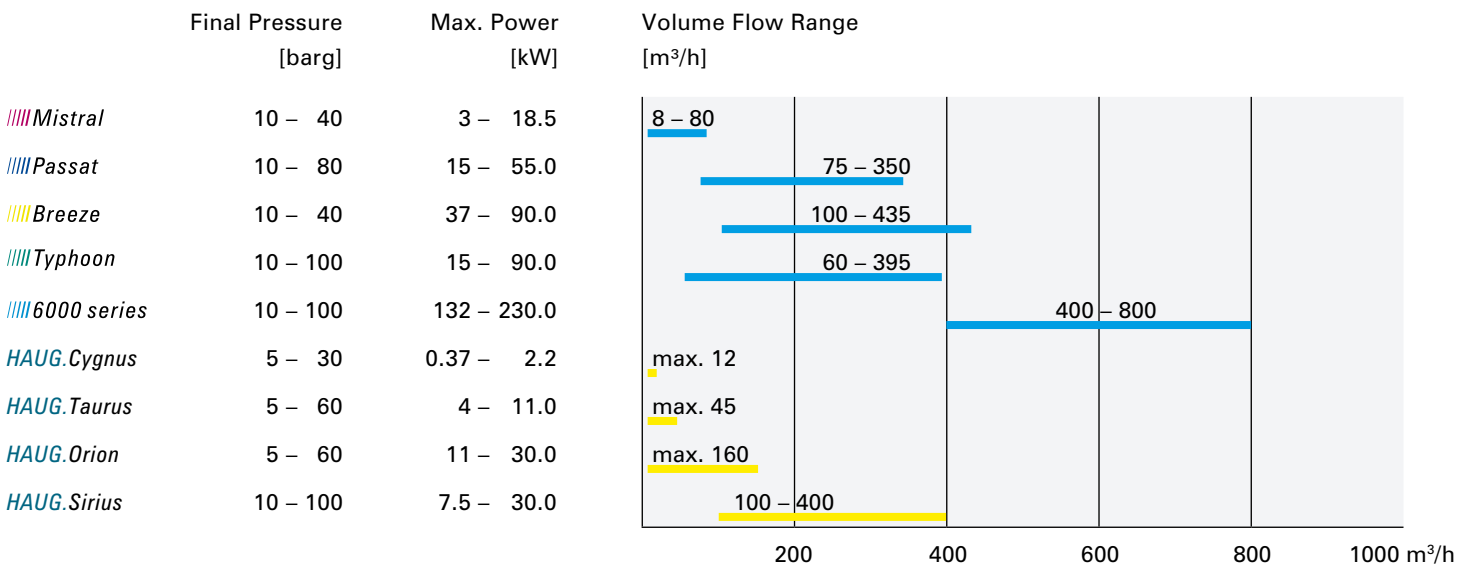
oil-lubricated,
hermetically gas-tight

HAUG

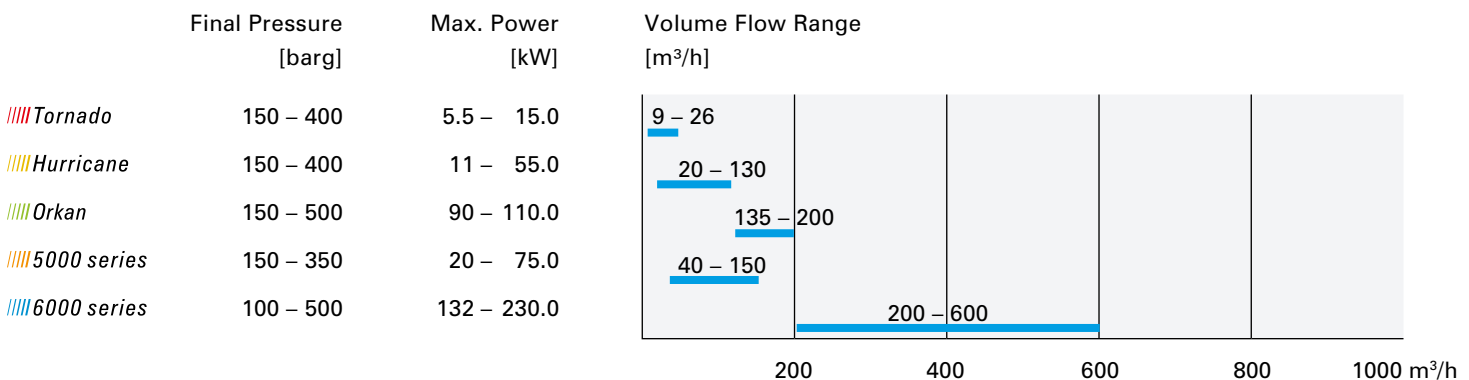
oil-free, dry-running and
hermetically gas-tight

Air Compressor Range

Low and Medium Pressure



High and Highest Pressure

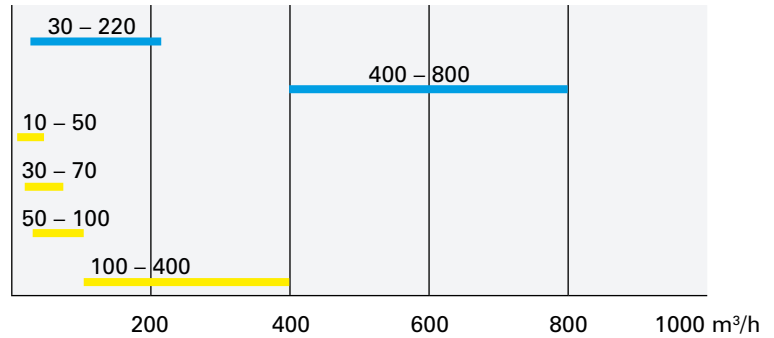


Air and Nitrogen Booster Range

Low and Medium Pressure

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
<i>Mistral</i>	4 – 8	10 – 40	7.5 – 21.5
<i>6000 series</i>	4 – 16	10 – 100	132 – 230.0
<i>HAUG.Pluto</i>	max. 20	10 – 60	0.55 – 2.2
<i>HAUG.Mercure</i>	max. 15	10 – 100	3 – 5.5
<i>HAUG.Neptune</i>	max. 13	10 – 100	2.2 – 7.5
<i>HAUG.Sirius</i>	max. 30	10 – 100	7.5 – 30.0

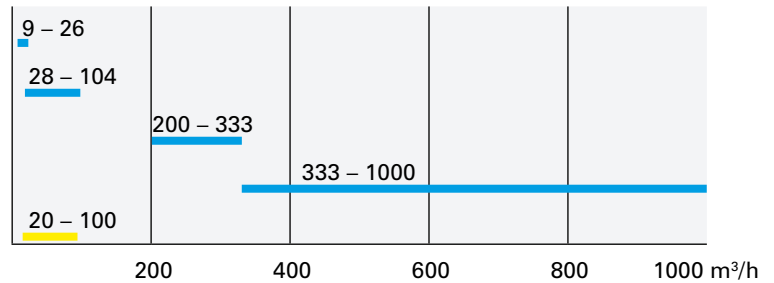
Volume Flow Range [m³/h]



High and Highest Pressure

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
<i>Tornado</i>	3 – 5	150 – 350	5.5 – 8.7
<i>Hurricane</i>	3 – 8	150 – 350	15 – 30.0
<i>Orkan</i>	4 – 7	150 – 350	90 – 110.0
<i>6000 series</i>	5 – 10	100 – 350	132 – 230.0
<i>HAUG.Sirius NanoLoc</i>	max. 30	100 – 450	11 – 30.0

Volume Flow Range [m³/h]

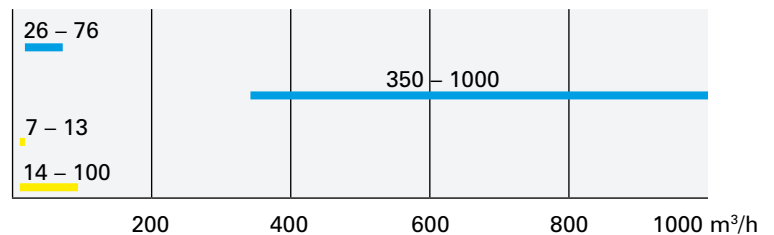


Hydrogen Compressor Range

High and Highest Pressure

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
<i>Hurricane</i>	0.05–0.2	150 – 350	15 – 38.0
<i>6000 series</i>	0.05– 20	100 – 350	132 – 230.0
<i>HAUG.Mercure NanoLoc</i>	max. 30	100 – 350	4 – 5.5
<i>HAUG.Sirius NanoLoc</i>	max. 30	100 – 450	9 – 30.0

Volume Flow Range [m³/h]

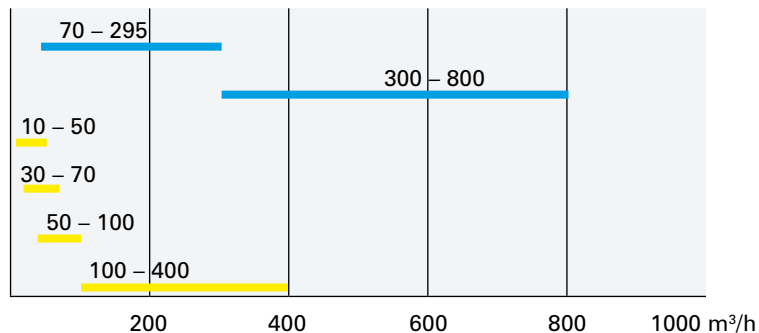


Helium Compressor Range

Low and Medium Pressure

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
<i>Passat</i>	0.05	10 – 40	15 – 55.0
<i>6000 series</i>	0.05 – 16	10 – 350	132 – 230.0
<i>HAUG.Pluto</i>	max. 20	10 – 50	0.55 – 2.2
<i>HAUG.Mercure</i>	max. 15	10 – 80	3 – 5.5
<i>HAUG.Neptune</i>	max. 13	10 – 100	2.2 – 7.5
<i>HAUG.Sirius</i>	max. 30	10 – 100	7.5 – 30.0

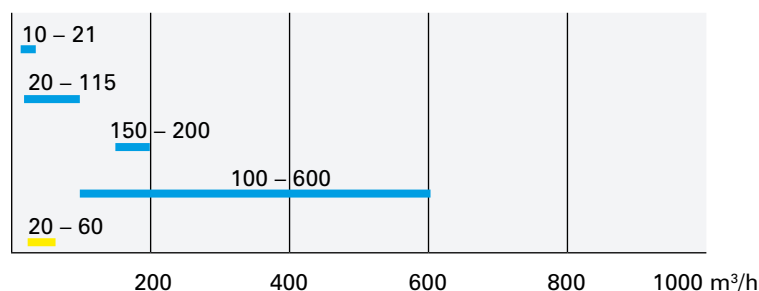
Volume Flow Range
[m³/h]



High and Highest Pressure

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
<i>Tornado</i>	0.05	150 – 230	5.5 – 15.0
<i>Hurricane</i>	0.05	150 – 230	11 – 55.0
<i>Orkan</i>	0.05	150 – 350	90 – 110.0
<i>6000 series</i>	0.05 – 16	100 – 350	132 – 230.0
<i>HAUG.Sirius NanoLoc</i>	max. 30	100 – 450	7.5 – 30.0

Volume Flow Range
[m³/h]

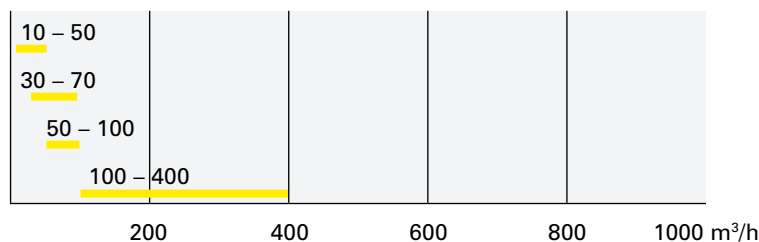


Oxygen Compressor Range

Low and Medium Pressure

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
<i>HAUG.Pluto</i>	max. 20	10 – 30	0.55 – 2.2
<i>HAUG.Mercure</i>	max. 15	10 – 30	3 – 5.5
<i>HAUG.Neptune</i>	max. 13	10 – 30	2.2 – 7.5
<i>HAUG.Sirius</i>	max. 16	10 – 30	7.5 – 30.0

Volume Flow Range
[m³/h]

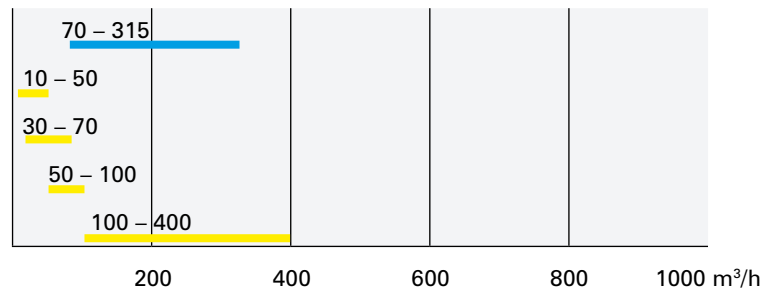


CNG Compressor Range

Low and Medium Pressure

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
<i>Passat</i>	0.05	10 – 40	15 – 55.0
<i>HAUG.Pluto</i>	max. 20	10 – 60	0.55 – 2.2
<i>HAUG.Mercure</i>	max. 15	10 – 100	3 – 5.5
<i>HAUG.Neptune</i>	max. 13	10 – 100	2.2 – 7.5
<i>HAUG.Sirius</i>	max. 30	10 – 100	7.5 – 30.0

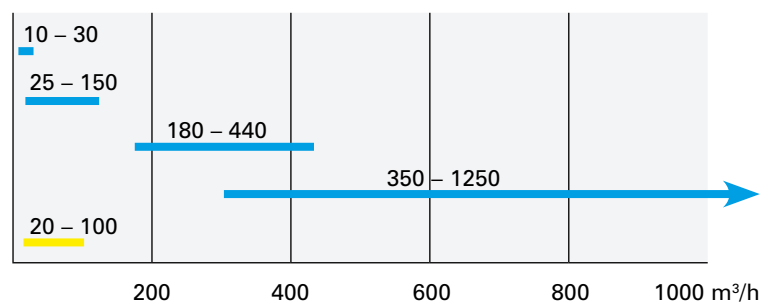
Volume Flow Range [m³/h]



High and Highest Pressure

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
<i>Tornado</i>	0.05	150 – 350	5.5 – 15.0
<i>Hurricane</i>	0.05	150 – 350	11 – 55.0
<i>Orkan</i>	1.5 – 7	100 – 350	90 – 110.0
<i>6000 series</i>	0.05 – 25	100 – 350	132 – 230.0
<i>HAUG.Sirius NanoLoc</i>	max. 30	100 – 450	7.5 – 30.0

Volume Flow Range [m³/h]

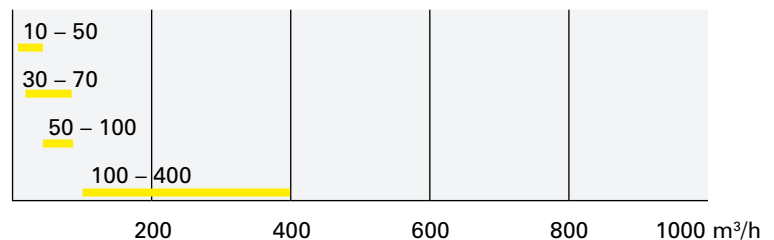


“Anygas” Compressor Range

Low and Medium Pressure

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
<i>HAUG.Pluto</i>	max. 20	10 – 60	0.55 – 2.2
<i>HAUG.Mercure</i>	max. 15	10 – 100	3 – 5.5
<i>HAUG.Neptune</i>	max. 13	10 – 100	2.2 – 7.5
<i>HAUG.Sirius</i>	max. 30	10 – 100	7.5 – 30.0

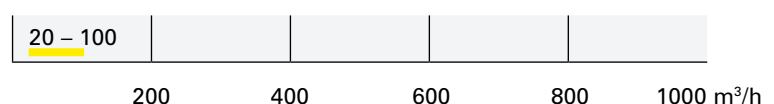
Volume Flow Range [m³/h]



High and Highest Pressure

	Inlet Pressure [barg]	Final Pressure [barg]	Max. Power [kW]
<i>HAUG.Sirius NanoLoc</i>	max. 30	100 – 450	7.5 – 30.0

Volume Flow Range [m³/h]





Seismic Exploration

Seismic air guns are used to find oil and gas underneath the seabed. Towed behind a vessel, air guns are mechanical devices with metal flaps that release high pressure air underwater. The air bubbles expand, generating seismic waves that reach the seabed. The reflections from these waves are received by a 'streamer' which then provides detailed information about the structure of the seabed and possible oil and gas fields.

Application(s)

- Supplying high pressure air for the air gun

Customers

- Seismic operators
- Research industries
- Shipyards
- Packagers



Suitable products SAUER

Series	Volume flow	Pressure range	Medium
<ul style="list-style-type: none"> //// Hurricane //// 5000 series //// 6000 series 	120–720 m ³ /h 2–12 m ³ /min 70–420 scfm	120–207 barg 1,700–3,000 psig	Air

Customised Solutions

20' Offshore Container for Seismic Exploration

6000 series – WP 6442 Basic

- Mobile solution for different research vessels
- Certified according to DNV 2.7-1

Technical Data

Volume flow: 600 m³/h | 10 m³/min | 350 scfm
 Max. pressure: 207 barg | 3,000 psig



//// 6000 series

WP 6442 Basic
 720 m³/h @ 207 barg



Motion Compensation for Semi-submersible Rigs

Deep water drilling requires a rigid connection between the platform/drill-ship and the seabed. In order to keep on drilling in rough weather conditions, the movement of the derrick on the platform needs to be compensated. This compensation is done by wire-line or direct tensioning systems based on hydraulic systems and in order to keep the hydraulic pressure stable in the system, high pressure air or gas is used.

Application(s)

- Supplying an air or gas cushion on top of the hydraulic liquid

Customers

- OEM companies
- Drilling operators
- Shipyards
- Packagers



Suitable products [SAUER](#)

Series	Volume flow	Pressure range	Medium
<ul style="list-style-type: none"> //// Hurricane //// 5000 series 	140 m ³ /h 2.3 m ³ /min 82 scfm	207 – 315 barg 3,000 – 4,600 psig	Air or Nitrogen

Customised Solutions

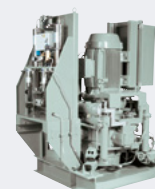
WP 5000 Offshore Module for Motion Compensation

5000 series – WP 5000 Basic

- Integrated adsorption dryer
- Compliant with NORSOK, DNV Offshore and ABS CDS 2011 Cat. 01
- Installed at over 100 offshore platforms already

Technical Data

Volume flow: 140 m³/h | 2.3 m³/min | 83 scfm
 Max. pressure: 350 barg | 5,000 psig



//// 5000 series

WP 5000

Offshore module
incl. adsorption dryer



High-Pressure Nitrogen Boosting

Many applications in the oil & gas world require nitrogen, which is mostly used for blanketing in order to prevent an explosive atmosphere. Sauer offers a wide range of boosters for such applications. The nitrogen is produced by membranes or PSA systems and Sauer compressors are used to store the gas at a higher pressure.

Application(s)

- Boosting nitrogen to a higher pressure level

Customers

- OEM companies
- Shipping companies
- Drilling companies
- Packagers



Suitable products

SAUER

Series	Volume flow	Pressure range	Medium
<ul style="list-style-type: none"> //// Mistral //// Tornado //// Hurricane //// Orkan //// 6000 series 	10–1,000 m ³ /h 5–735 scfm	20 – 350 barg 290–5,000 psig	Nitrogen

HAUG

Series	Volume flow	Pressure range	Medium
<ul style="list-style-type: none"> HAUG.Mercure HAUG.Neptune HAUG.Sirius 	10–300 m ³ /h 5–175 scfm	10 – 40 barg 145–580 psig	Nitrogen

Anywhere, anytime, anygas – anything else?

In addition to high-quality compressors, control systems, accessories and services, Sauer Compressors customers benefit from:

Engineering assistance

Through our local representations we can assist engineering teams locally and offer support with regard to integrating our products. In this way, we ensure our customers make the most of their installation.

Documentation – Integrated Logistics Support (ILS)

High-value products and solutions require high-quality documentation. This includes the whole range of Integrated Logistics Support (ILS).

Factory acceptance tests and third-party inspection

For Sauer Compressors, quality is not a promise – it's a fact! All our compressors are subjected to a 12-hour endurance test at final pressure and issued a high level 3.1 inspection certificate after the final inspection. Upon request, third-party inspections can be performed. For our helium compressors, we have devised an extensive 16-hour test procedure that is unprecedented in the industry. Both static and dynamic leak rates are tested with the noble gas itself. As a result, operators benefit from 'true' helium compressors providing unparalleled leak tightness.

Installation and commissioning

Even the best product's performance will suffer if the installation is faulty. Upon request, our expertly trained service technicians will set up the newly acquired Sauer product and integrate it into established systems at our customer's facility. Thanks to our local representations, this service is available anywhere in the world. After the initial setup, the installation is thoroughly tested and finally commissioned. To ensure maximum performance, low operating costs and a long service life, we offer in-house trainings for the operating staff.

Certifications

ISO 9001:2015





Sauer Compressors



Find your local partner at our global website
www.sauercompressors.com

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