

# HAUG



# Sauer Compressors



### Oil-free piston compressor

- 11–30 kW
- Suction pressure max. 31 bar(abs)
- Final pressure max. 451 bar(abs)
- NanoLoc® design
- Gas-tight with magnetic coupling
- Zero emission design

## HAUG.Sirius NanoLoc

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



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## HAUG.Sirius NanoLoc oil-free and gas-tight high pressure piston compressor

Unique combination of high-pressure cylinders with NanoLoc® design can reach a discharge pressure up to 451 bar(abs). At the same time the hermetically sealed and entirely wear-free drive with magnetic coupling ensures compression of various gases without leaks. This system ensures no gas losses to atmosphere and no compressed gas pollution from outside.

HAUG oil-free and gas-tight compressors are environmental friendly because there is no oil disposal and gas leakage which can contaminate the environment.

### NanoLoc® Design

- Especially suitable for high pressures >151 bar(abs) because sealing without piston rings
- No friction losses in the cylinders due to friction-free sealing
- No wear at cylinders and very low wear of piston, thus significantly longer service life than with piston and packing rings
- Lower overall height and very compact and simple design with only a few parts
- Service-friendly, components are easy to replace
- No water cooling required
- Lower power consumption, since pistons move without friction in the cylinder

### Features

- Completely oil-free
- Hermetically gas-tight compressor (leak rate <0.001 mbar l/s)
- Air-cooled or water-cooled versions
- Motor power from 11 up to 30 kW
- Rotary speed range 970 up to 1450 rpm
- Suction pressure max. 31 bar(abs)
- Final discharge pressure max. 451 bar(abs)
- Modular cylinder configurations
- 4-stage compression
- Flow rate max. approx. 60 Nm<sup>3</sup>/h
- Explosion-proof compressor version (conform with ATEX zone 1 or zone 2)
- Very robust and long-last construction
- Compact and foundation-free installation

### Applications

- Bottling of industrial gases like air, nitrogen, noble gases, hydrogen
- Storage of wind and solar energy (power to gas)
- Synthesis process gas compression for renewable energy storage
- Power plant turbine cooling with hydrogen
- Emergency gas storage at on-site gas generation systems
- Hydropower stations
- Hydrogen fuel stations
- Hydrogen storage at electrolysis plants
- Steel industry process gas
- Research and development applications ... and many more

We reserve the right to make technical alterations.