

Oil-free compressors GREENFIELD - type DM

DM-type compressor for natural gas and biogas filling stations

Compressor is the heart of every filling station. Therefore, the choice of the compressor is among the key issues upon its design.

At the filling stations there are compressors currently operated with more than 45,000 of operational hours, which do not show any signs of significant wear.

Based on these experiences, we conclude that life of DM compressors is several decades.

DM compressors contribute to environmental protection.

DM compressors are oil-free and this makes their operation ecological and economical at the same time.

During the operation, do not produce waste from the compressor oil, compressor condensate filter or inserts contaminated with oil. Equipment failures caused by lack of oil are excluded.

The crankcase of the compressor is hermetically sealed. Power transmission is ensured through a magnetic coupling.

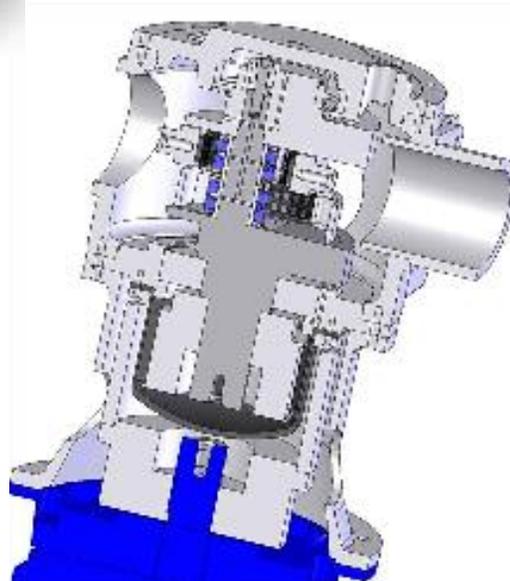
This eliminates use of seal on the shaft.

The compressor is suitable for natural gas or biogas and is also sufficiently dimensioned for the ultimate pressure that is even over 300 bar.

GREENFIELD DM compressors are designed for a power range from 80 to 220 Nm³/h. The lifetime of these compressors far exceeds normal standards.

GASCONTROL,
společnost s r.o.
Nový Svět 1407/59a
Havířov-Prostřední Suchá
ZIP CODE: 735 64
CZECH REPUBLIC
T.: +420 596 496 411
F.: +420 596 496 397
e-mail:
gascontrol@gascontrol.cz
www.gascontrol.cz

Member of



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Hermetically sealed drive

- requires no dynamic shaft seals
- due to the magnetic clutch energy losses are small

Engine performance is achieved without friction and without any demands for spare parts (wear free). The crankcase is hermetically sealed. The only disadvantage is the higher production costs of this transmission power type, which are offset by high lifetime.

The total costs are imperative that affect operational and maintenance costs over the life of the compressor. The service interval is 4,000 operational hours. The usual service interval is every 2,000 operational hours, which corresponds to higher costs.

Satisfied customers and durability of compressors proves that long service intervals of DM compressors with only short operational intervals for service are the right choice.

Upon reaching the lifetime the maintenance schedule recommends to replace the whole compressor head. This will regularly give operator the head of the newest compressor design.

Specification:

<i>Performance</i>	80 - 220 Nm ³ /h
<i>Number of stages</i>	3,4 or 5
<i>Suction pressure</i>	1,05 - 41 bar abs.
<i>Final pressure</i>	up to 450 bar
<i>Engine power</i>	30 / 37 kW
<i>Dimensions</i>	0,9 x 0,75 x 1,6m L x W x H
<i>Weight</i>	approx. 850 kg

On site head replacement is a matter of a short time, so there are no long blackouts due to maintenance.

Several hundreds of filling stations in Germany, Switzerland and Austria are characterized by high reliability thanks to DM compressors.

It is not only about the production of compressors, but also about designing of the overall filling station concept. Therefore GREENFIELD is considered to be leader in this field.

DM compressors are also suitable for the compression of other industrial gases such as hydrogen, helium, air, nitrogen or a gas mixture.

Head of DM



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