

# **EVO®-GAS & EVO®-NK-GAS**

OIL INJECTED SCREW GAS ENDS AND COMPACT UNITS



INNOVATION QUALITY RELIABILITY WORLDWIDE

2 | EVO®-GAS & EVO®-NK-GAS ROTORCOMP VERDICHTER

# **EVO®-GAS - SCREW GAS ENDS**

ROTORCOMP® rotary screw gas ends are especially suited for gas compressor applications. The new EVO® wear-free ROLLING PROFILE® with improved efficiency and the generously dimensioned subassemblies guarantee a high life cycle.

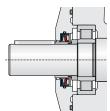




#### TECHNICAL DATA

Туре	Max. Shaft Power		Capacity in Air at 7 barg / 100 psig		Pressure Range bar		Speed Range rpm		vi	Net Weight	
	kW	hp	m³/h	mcfd	from	to	from	to		kg	lbs
EVO2-Gas	11	15	96	81	4	15	1,500	9,300	4.1	16	35
EVO3-Gas	18.5	25	162	137	4	15	1,500	9,000	4.1	22	49
EVO6-Gas	37	50	330	280	4	15	1,500	7,000	4.1	44	97
EVO9-Gas	55	75	504	427	4	15	1,500	6,300	4.1	65	143
EVO15-Gas	90	125	860	729	4	15	1,000	5,500	4.1	126	278
EVO28-Gas	160	220	1,500	1,271	4	15	1,000	4,000	4.1	269	593
EVO76-Gas	540	725	4,560	3,864	4	17	1,000	3,000	5.0	1,289	2,842

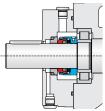
#### Single face mechanical seal



The drive shaft is fitted with a single face mechanical seal. All mechanical seal components are sealed by o-ring. This seal is applied in applications with suc-

tion pressure at and above atmospheric pressure and is recommended for gases containing sour components like H<sub>2</sub>S & CO<sub>2</sub>.

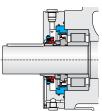
#### Radial lip seal



The drive shaft is fitted with a single face lip seal which includes a protective dust lip facing outwards. All seal components are sealed by an o-ring. This

seal is applied in applications on sweet these seals is a pressure compensated gas like CNG or Coal Bed Methane.

#### Combined radial and mechanical seal system with oil barrier

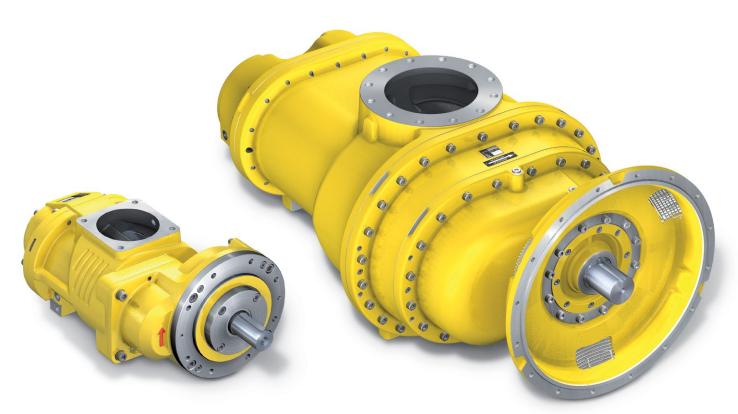


This seal design is available on the EVO15-Gas block. Inside is a radial sealing ring, while outside (ambient) is a mechanical single seal. Between face

oil reservoir connected to the oil tank and suction port of the screw compressor.

ROTORCOMP VERDICHTER EVO®-GAS & EVO®-NK-GAS | 3

# **EVO®-G-GAS WITH GEAR DRIVE**



# **TECHNICAL DATA**

Туре	Max. Shaft Power		Capacity in Air at 7 barg / 100 psig		Pressure Range bar		Speed Range rpm		vi	Net Weight	
	kW	hp	m³/h	mcfd	from	to	from			kg	lbs
EVO3-G-Gas	18,5	25	162	137	4	15	1,500	9,000	4.1	34	75
EVO6-G-Gas	37	50	330	280	4	15	1,500	7,000	4.1	70	154
EVO9-G-Gas	55	75	504	427	4	15	1,500	6,300	4.1	92	203
EVO15-G-Gas	90	125	860	729	4	15	1,000	5,500	4.1	168	370
EVO28-G-Gas	160	220	1,500	1,271	4	15	1,000	4,000	4.1	323	712
EVO40-G-Gas	260	350	2,400	2,034	4	17	1.000	4,900	5.0	533	1,175
EVO76-G-Gas	540	725	4,560	3,864	4	17	1,000	3,000	5.0	1,461	3,221
EVO105-G-Gas	670	900	6,300	5,339	4	14	1,000	3,000	5.0	1,630	3,593

# FURTHER FEATURES OF OUR GAS ENDS AND COMPACT UNITS

All ROTORCOMP® gas ends and compact units contain outstanding important features:

- > Temperature and gas resistant roller bearings.
- ) Low friction and pressure proof compound lip shaft seals, suited for extreme temperatures and working conditions.
- Alternative mechanical shaft seal systems.
- All connections and washers with Teflon seals.
- No yellow metal is used in the gas end construction.

4 | EVO®-GAS & EVO®-NK-GAS

# **EVO®-NK-GAS - SCREW COMPACT UNITS**

Our new EVO®-NK gas compact units provide optimum operating reliability, efficiency and a unique modularity well adapted to your applications.

You benefit from small space requirements, low engineering costs, simplified service and maintenance and after all reduced logistics.

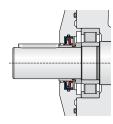




# **TECHNICAL DATA**

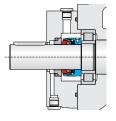
Туре	Max. Shaft Power		Capacity in Air at 7 barg / 100 psig		Pressure Range		Speed Range rpm		vi	Net Weight	
	kW	hp	m³/h	mcfd	from	to	from	to		kg	lbs
EVO2-NK-Gas	11	15	96	81	6	15	1,500	9,300	4.1	41	90
EVO3-NK-Gas	18.5	25	162	137	6	15	1,500	9,000	4.1	52	115
EVO6-NK-Gas	37	50	330	280	6	15	1,500	7,000	4.1	100	220
EVO9-NK-Gas	55	75	504	427	6	15	1,500	6,300	4.1	199	439
NK-200-Gas	75	102	600	508	6	15	1,500	4,000	4.2	263	580

#### Single face mechanical seal



The drive shaft is fitted with a single face mechanical seal. All mechanical seal components are sealed by o-ring. This seal is applied in applications with suction pressure at and above atmospheric pressure and is recommended for gases containing sour components like  $\rm H_2S$  and  $\rm CO_2$ .

#### Radial lip seal

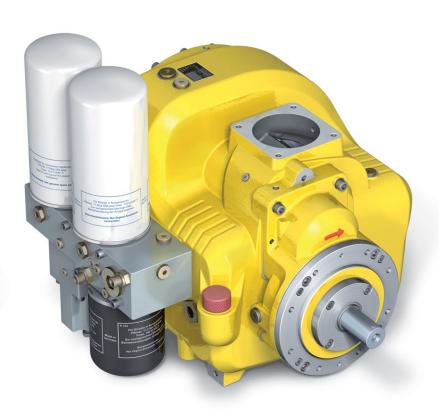


The drive shaft is fitted with a single face lip seal which includes a protective dust lip facing outwards. All seal components are sealed by an o-ring. This seal is applied in applications on sweet gas like CNG or Coal Bed Methane.

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# **EVO®-NK-G-GAS WITH GEAR DRIVE**





# **TECHNICAL DATA**

Туре	Max. Shaft Power		Capacity in Air at 7 barg / 100 psig		Pressure Range		Speed Range rpm		vi	Net Weight	
	kW	hp	m³/h	mcfd	from	to	from	to		kg	lbs
EVO3-NK-G-Gas	18.5	25	162	137	6	15	1,500	9,000	4.1	64	141
EVO6-NK-G-Gas	37	50	330	280	6	15	1,500	7,000	4.1	125	276
EVO9-NK-G-Gas	55	75	504	427	6	15	1,500	6,300	4.1	226	498
NK-200-G-Gas	75	102	600	508	6	15	1,500	4,000	4.2	305	672

# WHY TO USE EVO®-NK-GAS COMPACT UNITS?

- High operation reliability designed for gas applications in continuous operation
- Includes all advantages of our built-in EVO® technology
- Each compact unit is tested as a complete system before leaving our factory
- No leakages due to reduced piping and connections as well as sealing with O-rings (Viton®)
- Optimized compact design with very low space requirements
- > Simplified service and maintenance

#### INTEGRATED COMPONENTS ARE

The outset components are included in each EVO®-Gas compact unit:

- > Rotary screw gas end
- > Thermostat regulator for oil
- Oil pre-separator and receiver tank
- Minimum pressure valve
- Oil final separator cartridge/box
- ) Oil level sight glass
- Oil filter cartridge/box

Types from EVO3-NK-Gas on are available with gear box.

6 | EVO®-GAS & EVO®-NK-GAS

# **OUR COMPANY**

ROTORCOMP® is one of the largest suppliers of oil injected air and gas ends and compact units to the world market. Concentrating on our core competence, the research, design, production and sales of oil injected screw compressors, we provide our products exclusive to OEM customers, packaging air or gas compressors. Embedded to the independent and privately held BAUER GROUP, we are a strong, loyal and faithful partner with customers in more than 60 countries all over the world. We guarantee world class product quality and reliability with our highly sophisticated factory, seated close to Munich in the south of Germany.







- > Recommends the most efficient EVO® types
- > Calculates performance data
- Indicates technical limits
- > Provides essential information for your drive
- > Determines important data for your cooling system



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# AREAS OF APPLICATION

# **OUR PRODUCTS ARE RUNNING SUCCESSFULLY:**

#### **ON GAS FIELDS**



#### IN BIO GAS POWER PLANTS



#### IN CNG DISPENSER STATIONS AS FIRST STAGE

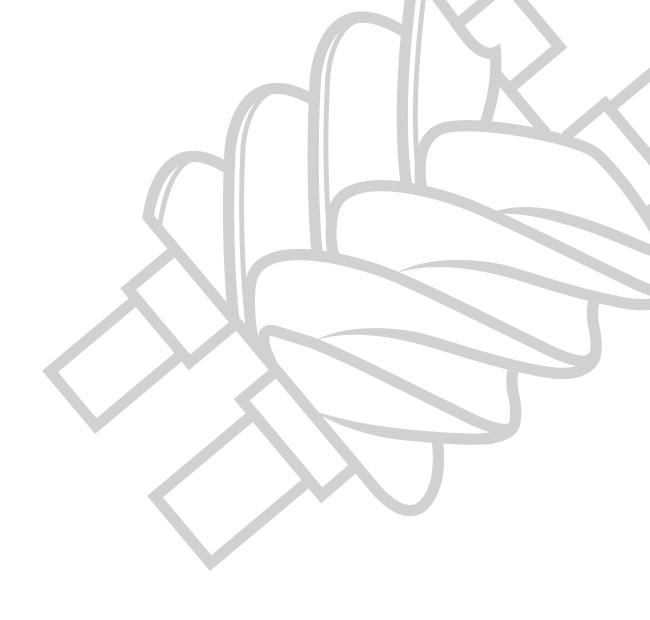


IN H<sub>2</sub> REFORMER STATIONS FOR FUEL GAS CELLS



# AND MANY FURTHER GAS APPLICATIONS

- > Vapour recovery
- Natural Gas Gathering
- > Biogas Compression
- > Mine Gas Compression
- Coal Bed Methane Compression
- Microturbine Boosting
- > Fuel Gas Boosting



# INTERESTED IN ONE OF OUR PRODUCTS?

CONTACT US – WE ARE HAPPY TO PROVIDE INFORMATION AND ASSISTANCE.

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