

THE WHOLE WORLD OF INDUSTRY

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## Beam Gas Compressors

► *React quickly and flexibly to customer requirements. One of the most important guiding principles of the Kremsmueller Group. By using the Kremsmueller Beam Gas Compressors, this principle has once again been actually implemented in practice. The result: The efficiency of older plants is significantly increased. But at the same time, the environment is protected.*

### Minimum effort, maximum energy

Kremsmueller Beam Gas compressors breathe new life into old pumps. The principle is simple. Casing gas, which earlier used to be burned off, is exhausted using the Beam Gas compressor and compressed. This gas reduction is favourable for the inflow of oil and gas from the formation. The productivity of the probe increases multiple times. The pump itself provides the required energy for the compressor, because the movement of

the pump is simultaneously the source of energy for the Beam Gas compressor.

### Tailor-made Engineering

Based on some little technical data of the production probes that are already present, Kremsmueller calculates the sizing of the compressor. Up to 12 different models ensure the optimum power design for any pump. The piston size, stroke length, working pressure and working temperature are matched to the given requirements.

### Robust construction

Thanks to special materials as well as the innovative construction, the Beam Gas compressor runs without any lubricants. In addition, the construction entirely dispenses with welded joints.

### The advantages at a glance

- low procurement costs
- short amortization period (6-12 months)
- lubricant-free operation
- mostly maintenance-free
- no additional equipment required
- low upkeep costs
- no welded joints
- components that do not support any load are identical for all sizes
- uncomplicated and fast assembly

### Standards

ATEX Product Directive 94/9/EC  
EC Directive Machines 98/37/EC  
Pressure equipment directive 97/23/EC  
API 618 Reciprocating Compress  
ASME VIII Boiler and Pressure Vessel Code  
NACE MRO 175

**Data and Facts**

Kremsmueller Beam Gas compressors are double-action piston compressors specially designed for being driven through pump supports. Owing to the up/down movement of the balancer, gas is sucked out of the casing chamber and simultaneously compressed to production line pressure and pressed in. A

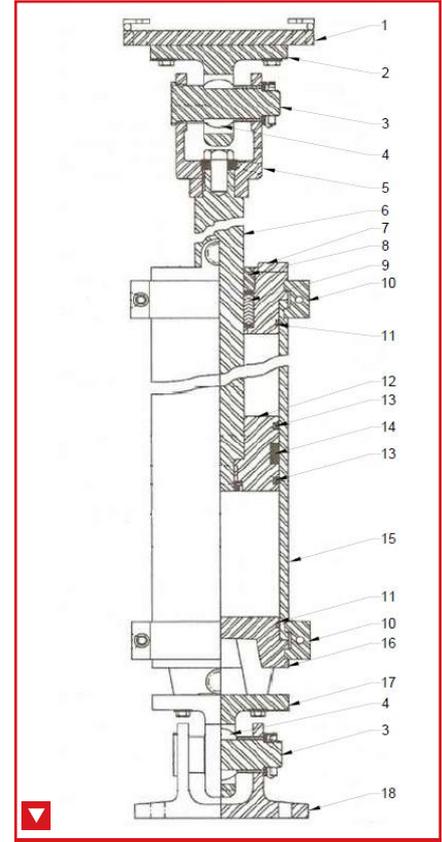
preliminary pressure controller between the intake and pressure side prevents vacuum formation in the casing chamber. Double stuffing glands with anti-twist locking takes care of the sealing of the piston rod. In order to avoid damage to or overload of the pump supports, every system is fitted with a blowoff valve. It is matched to the respective maximum permissible operating pressure.



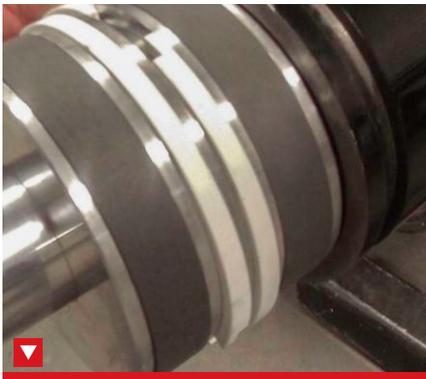
Double gland screw connection with leakage connection. It prevents gas from escaping. Only leaks are fed back to the probe cellar through separate pipes.



To avoid a potential source of ignition, the gas temperature is constantly monitored. If the limit values are exceeded, the pump supports are switched off automatically.



Components that do not support any load are identical for all sizes and exchangeable among one another: 1 upper mounting plate incl. Holding clamps for balancer, 2 upper bearing housing, 3 crankshaft journal, 4 maintenance-free radial pivoting bearing, 5 upper bearing block, 6 piston rod, 7 upper cylinder head with gas connection, 8 gland screw connection, 9 stuffing box packing, 10 cylinder clamps, 11 O-ring for cylinder bearing sealing, 12 piston, 13 piston ring, 14 piston guide ring, 15 cylinder barrel, 16 upper cylinder head with gas connection, 17, lower bearing housing, 18 lower mounting plate incl. bearing block.



The piston guide rings ensure lubricant-free running.



To protect the compressor from impurities, a baffle plate separator can be fitted in the inflow pipe. It is also available in the sour gas version according to NACE MRO 175.



Blowoff valve with back pressure regulators. They are used to avoid damage to or overloading of the pump support.

Model	Piston size	Stroke length	Working pressure
KRM-AG630	6" (168.3mm)	30" (762mm)	0 – 27 bar
KRM-AG636	6" (168.3mm)	36" (914.4mm)	0 – 27 bar
KRM-AG648	6" (168.3mm)	48" (1,219.2mm)	0 – 27 bar
KRM-AG660	6" (168.3mm)	60" (1,524mm)	0 – 27 bar
KRM-AG830	8" (219.1mm)	30" (762mm)	0 – 15 bar
KRM-AG836	8" (219.1mm)	36" (914.4mm)	0 – 15 bar
KRM-AG848	8" (219.1mm)	48" (1,219.2mm)	0 – 15 bar
KRM-AG860	8" (219.1mm)	60" (1,524mm)	0 – 15 bar
KRM-AG1030	10" (273mm)	30" (762mm)	0 – 9 bar
KRM-AG1036	10" (273mm)	36" (914.4mm)	0 – 9 bar
KRM-AG 1048	10" (273mm)	48" (1,219.2mm)	0 – 9 bar
KRM-AG1060	10" (273mm)	60" (1,524mm)	0 – 9 bar

The working temperature of the compressors moves in the range -20°C to +200°C. For the models with 6" diameter, the piping is done with a pipe diameter of 1". For the 8" and 10" models, a pipe diameter of 1.5" is used.

**Contact**

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