Mehrer COMPRESSION

processes' applications
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TWO-STAGE, WATER-COOLED COMPRESSORS

TZW 50, TZW 60.1, TZW 70.1

TZW 50, TZW 60.1 and TZW 70.1 compressors are used primarily in the following sectors:

- Biogas
- Carbon Capture
- Chemistry
- Environment
- Food & Beverages
- Machine Construction
- Petrochemistry
- Special Engineering

TZW 50, TZW 60.1 and TZW 70.1 are two-stage, water-cooled compressors. These products are used in the sectors Food & Beverage as well as Machine Construction and are developed for all oil- and silicone-free applications. Mehrer's vertical compressor design is space saving. The TZW 50, TZW 60.1 and TZW 70.1 can be operated with pre-pressure and frequency controlled working speed.

The most important advantages:

- 100 % oil-free compression without the use of filters
- Water-cooled
- Contains cylinder liners
- Easy maintenance
- Durable
- Efficient
- Risk assessment according to DIN EN ISO 12100

OUR EXPERIENCE – YOUR BENEFITS

Technical data

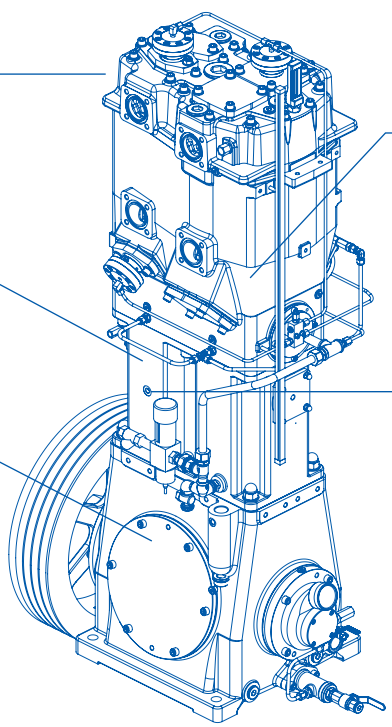
Series Description	**TZW 50** 2-stage, single-acting	**TZW 60.1** 2-stage, single-acting	**TZW 70.1** 2-stage, double-acting
Max. compression ratio per stage	1:5.5	1:5.5	1:5.5
Max. suction pressure	130 psia	130 psia	130 psia
Max. final pressure*	380 psia	330 psia	330 psia
Stroke volume per crank revolution	219 in^3	405 in^3	697 in^3
Max. drive power on the shaft	20 hp	75 hp	75 hp
Speed range	400–710 rpm	380–725 rpm	380–725 rpm
Arrangement of the cylinders	Series	Series	Series
Type of drive	Belt driven	Belt driven	Belt driven
Compression of toxic and flammable gases	Possible	Possible	Possible
Compressor cooling	Water-cooled	Water-cooled	Water-cooled

* Relieve pressure safety valve, operating pressure max. = 0,9 x max. final pressure

CYLINDER BLOCK
Due to the modular design of the cylinder block, the compressor can be adapted according to its compression requirements.

DISTANCE PIECE
The distance piece is the key to oil-free compression.

CRANK GEAR
Our robust crank gear ensures high availability of the system through the crosshead design.



GAS GLAND
This assembly separates the gas section of the compressor from the drive section. It prevents gas from the compression space from getting into the distance piece. The gas gland is designed according to the application.

LEAKAGE AND PURGE GAS CONNECTIONS
Due to the built-in connections, the compressor can be purged with inert gases. This allows also corrosive gases (e.g. high H_2S content) to be compressed.

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Get in touch with us!

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