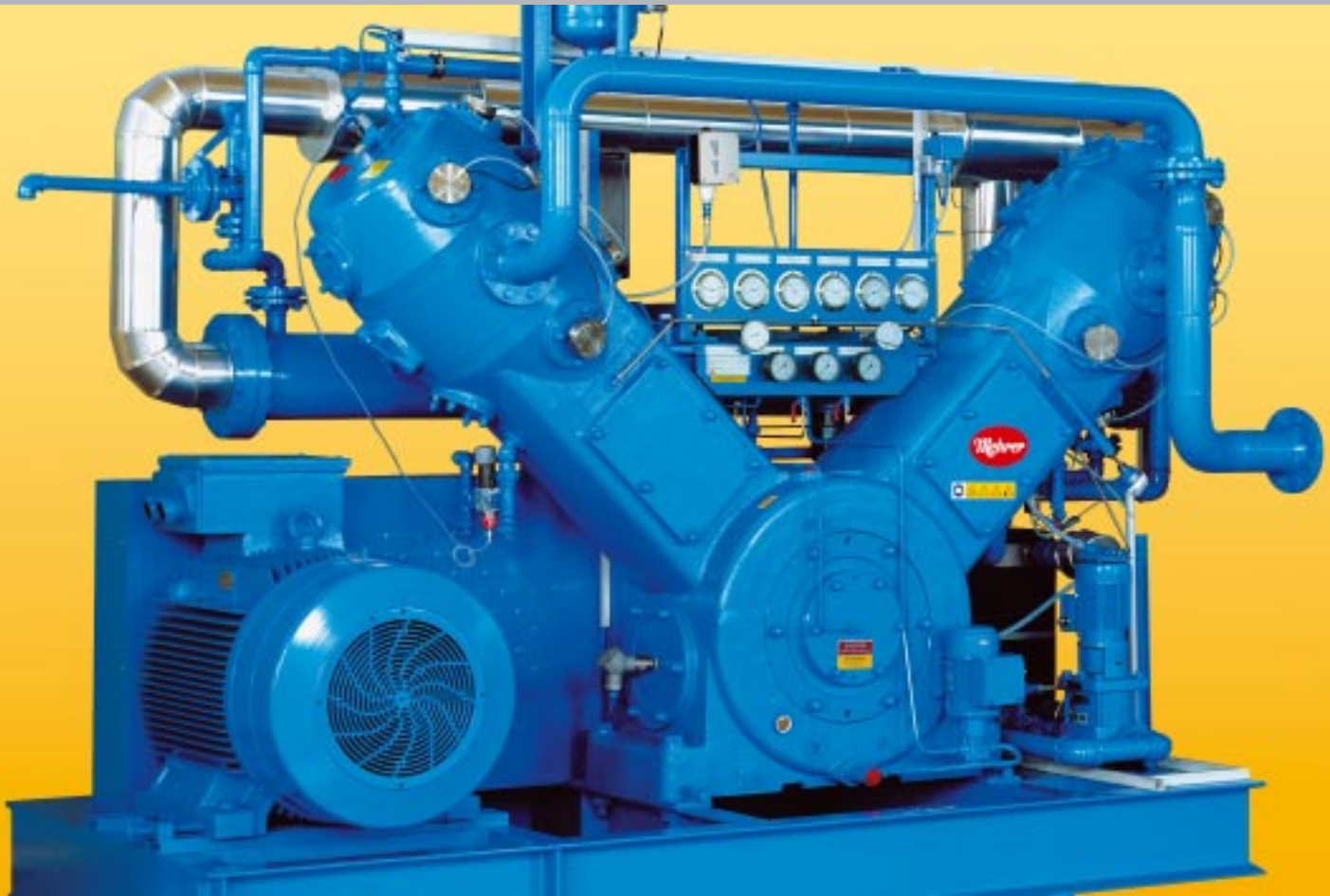


Dry Cylinder Compressors

TVZ 900, TVE 900, TVB 900, TVD 900



SERIES 900

TVZ 900

2-stage, double-acting. Compression up to 26 bar, depending on thermodynamic behavior of medium compressed

TVB 900

1-stage, double-acting. Booster for production of medium pressure out of LP-nets; suitable, besides others, for safe supply of compressed air to stretch blow moulding and blow moulding machines for PET-production.

TVE 900

1-stage, double-acting. Preferably used for requirement of large quantities of lower pressure compressed air, i.e. for energetic use of manure gas, biogas, etc.

TVD 900

3-stage, double-acting. Preferably used in processing plants, requiring average quantities and high pressures.

MEDIA

Air, CO₂, H₂, N₂, butane, methane, propane, coal gas, biogases, manure gases, sewage gases, natural gases, and various protective gases

RANGE OF CAPACITY

Power up to 200 kW
Flow rate ¹⁾ up to 10,060 m³/h
¹⁾ depending on suction pressure

Type	Suction pressure		Final pressure bar(g)
	min.	max.	
TVZ 900	0.8	1.4	26
TVE 900	0.8	5.0	7
TVB 900	0.8	40.0	45
TVD 900	0.8	1.4	45

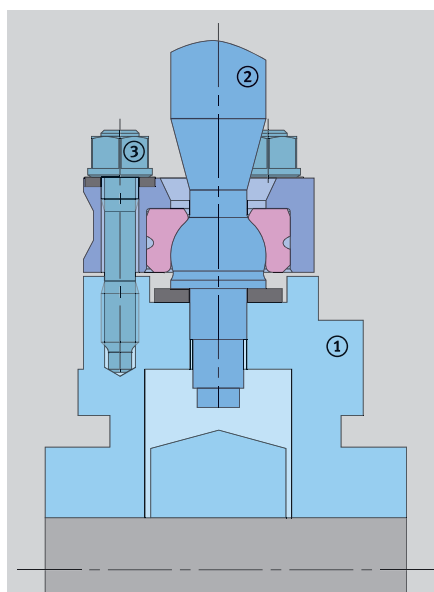
SPECIAL FEATURES

- Leading technology for absolutely oilfree compression
- Designed for long service life
- Utmost reliability
- Easy installation
- Delivery ready for connection
- Low service requirements
- Large RPM-range with frequency transformer operation
- Highly economic
- Favorable price-performance ratio



DESIGN CHARACTERISTICA

- V-design with 2 cylinders; water cooling
- Roller bearing crank gear and oil lubricated crosshead guidance
- Separate oil pump with pressure regulator
- Mainstream oil filter with bypass and contamination control
- Long-lasting PTFE-sealing elements for piston and gland assemblies
- Crank gear housing, lantern, and cylinder units made of GGG 40.3
- Exchangeable liners in cylinder and crosshead
- Time-saving exchange of packing and piston rings, without dismounting of cylinder and piston rod
- Easily accessible valves, corrosion and friction free
- Type-tested safety valves for each pressure stage
- Closed cooling water system up to max. 10 bar(g); also suitable for connection to re-cooling systems
- Manometer panel for oil pressure and pressure of stages
- Three-phase A.C.-motor, construction type IM B3, with V-belt; optionally directly coupled
- Delivery as unit ready for operation, complete with compressor and drive motor on common base plate, suitable for solid installation, or for loose, vibration-insulated set-up



CONTROL

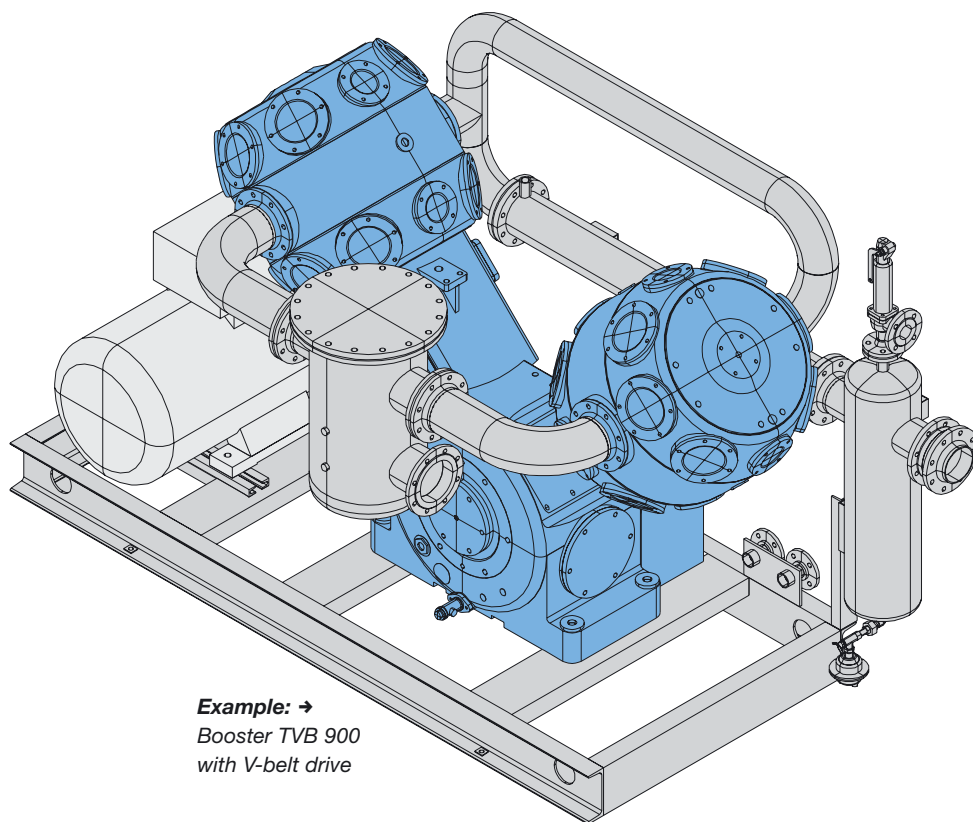
Micro processor control MC-VI, with clear text display, as well as with electronic control of all functions, important for operation, and for power electrics in the electrical cabinet. Software is programmed as per requirement.

OPTIONAL EXTRAS

Frequency transformer with largely extended range of regulation, to minimize energy consumption and for balancing varying quantity requirements.

Filters, sterile filters, aftercoolers, refrigeration and adsorption dryers to optimize quality of the medium compressed.

Storage tank of specific capacity, to balance varying requirements.



Example: →
Booster TVB 900
with V-belt drive

← **A special technical feature**

is the connection between guide piston ① and piston rod ②: A special arrangement assures that the torque moments of fixing screws ③ are acting as alignment, achieving a torsion-free and central connection between guide piston and piston rod.

SAFETY, QUALITY, SERVICE

Mehrer Compressors are certified as per DIN EN ISO 9001:2000. Utmost availability is assured by uncompromising Mehrer-quality, construction requiring little service, easy access to important wear parts, and by a customer-specific service kit.

