

OIL INDUSTRY

BÖRGER®

The unique
Rotary Lobe Pump
with MIP!

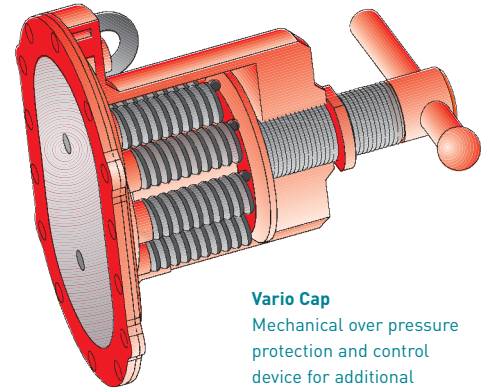


Well oiled operation with Boerger Rotary Lobe Pumps.

Production processes in the oil industry depend heavily on robust and durable pumping systems. The wide range of pump sizes, the option loaded modular design and the peripheral equipment enable Boerger to supply a suitable Rotary Lobe Pump for your oil application. Boerger Rotary Lobe Pumps are manufactured to the European Explosion Proof Standard ATEX 100 a.

The Boerger MIP-Design is a unique advantage to minimize downtime and maintenance: MIP (Maintenance In Place) allows the quick and convenient replacement of all fluid wetted parts without removal of pipes, drives or other components of the pump unit by your own staff. Quick – Uncomplicated – Inexpensive.

Petrochemical fluids often include abrasive and aggressive characteristics. Wide viscosity ranges demand customized solutions for pumping systems: Boerger offers rotor materials with different coatings (Elastomer, PTFE or Urethane) or solid stainless steel rotors. Casing protection plates are supplied with different steel, plastic or ceramic qualities. For operational safety the Boerger Vario Cap can be added as a mechanical over pressure protection device.



Vario Cap
Mechanical over pressure protection and control device for additional operational safety.



Variety of Rotor Designs

Rotor geometry and materials are customized for each individual application. Rubber elastomers, Urethane or stainless steel lobe designs are available.

Worldwide unique and exclusive from Boerger: Unrivalled MIP-Design reduces life cycle cost and downtime.





Heavy Oil | A Tank Cleaning (Butterworth) Company needed a durable Positive Displacement Pump: Oil with a viscosity of 300–380 cSt is sprayed through nozzles as a protective layer on tank walls to prevent corrosion. A Boerger Rotary Lobe Pump with Diesel engine was chosen because of its robust and maintenance friendly design.

TECHNICAL SPECIFICATION

Pump	FL 518
Flow Rate	80 m ³ /h, 352 usgpm
Pressure	10–12 bar, 145–174 psi
Power	42 kW, 56 HP



Waste Oil / Water Emulsion | The worlds largest crude oil company uses Boerger Rotary Lobe Pumps in its refineries for transfer of waste oil / water emulsions (Viscosity 200–2,000 cP) collected in the refinery and the tank terminals. The low shear operation of the Boerger Rotary Lobe Pump is key to this application.

TECHNICAL SPECIFICATION

Pump	AL 25
Flow Rate	3 m ³ /h, 13 usgpm
Pressure	2.7 bar, 39 psi
Power	1.1 kW, 1.5 HP



Crude Oil | Oil Fields around the world depend on Boerger Rotary Lobe Pumps for transfer of Crude Oil (Viscosity 200–2,000 cP). Extreme climates with wide temperature ranges add to the difficulty of these applications and demand suited material choices.

TECHNICAL SPECIFICATION

Pump	FLA 776
Flow Rate	180 m ³ /h, 793 usgpm
Pressure	5 bar, 72 psi
Power	45 kW, 60 HP



Various Oils | A refinery requested a mobile emergency response pump system. Boerger supplied a trailer mounted Rotary Lobe Pump capable of suction lifts up to 7 m (23 ft). The control panel is manufactured to the ATEX standard, the new European explosion proof standard. Dry run and over pressure are reliably monitored.

TECHNICAL SPECIFICATION

Pump	FL 776
Flow Rate	150 m ³ /h, 660 usgpm
Pressure	4 bar, 58 psi
Power	30 kW, 40 HP



Waste Oil with Solvents | Truck mounted unit, compact design and dry run capabilities made this Boerger Rotary Lobe Pump the right choice. The pump is equipped with the unique Boerger MIP-Design to allow quick and easy access through the quick release cover to all fluid wetted parts.

TECHNICAL SPECIFICATION

Pump	PL 100
Flow Rate	10–24 m ³ /h, 44–106 usgpm
Pressure	5.5 bar, 80 psi
Power	7.5 kW, 10 HP



Oil / Solvents | A refinery with tank terminal uses Boerger Rotary Lobe Pumps for unloading of tankers. A complex pipe system and a wide variety of viscosities often create pressures up to 10 bar (145 psi). For additional support the pumps are equipped FLA – Quick Release Covers.

TECHNICAL SPECIFICATION

Pump	FLA 776
Flow Rate	70 m ³ /h, 308 usgpm
Pressure	3–10 bar, 44–145 psi
Power	45 kW, 60 HP



Petrochemical Products | In the loading station of a refinery two Boerger Rotary Lobe Pumps are being operated for various petrochemical products. The smaller units fills up drums, the larger PL 200 loads truck units. The Vario Cap is installed as mechanical over pressure protection and control device for additional operational safety.

TECHNICAL SPECIFICATION

Pump Model	PL 200 / AL 25	PL 200 / AL 25
Flow Rate	40 / 1,5–7 m ³ /h	176 / 7–31 usgpm
Pressure	6–7 / 6–8 bar	102 / 116 psi
Power	15 / 3 kW	20 / 4 HP

* usgpm

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