CARVER PUMP™

Built for purpose

MAXUM OH1

Heavy-Duty, Horizontal

End-Suction Pump

MAXUM OH1

Our heavy-duty, horizontal end-suction pump for hydrocarbons and process industry applications.

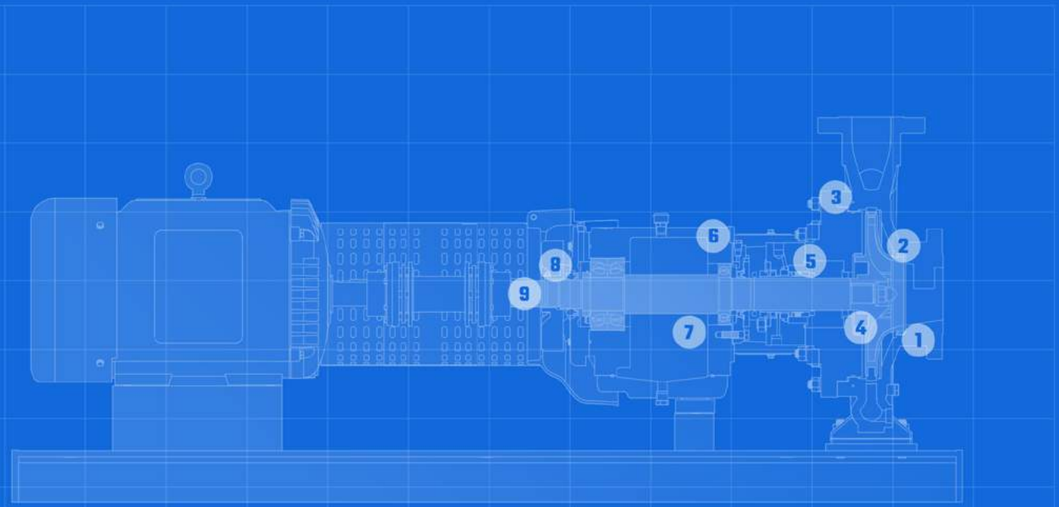
Designed as a foot-mounted version of our API centerline-mounted Maxum OH2, the Maxum OH1 is an industry workhorse. The Maxum OH1 can be motor, engine, or turbine-driven and is ideal for water, hydrocarbons, caustic and acid applications. With hydraulic performance to 11,000 GPM and 720 feet of head, this pump family is available in carbon steel, 12% chrome, 316L and duplex stainless steel, according to standard API material codes. In addition to these, higher alloys such as Alloy 20, Hastelloy B or C, Monel and titanium are also available.

As standard, these units come with oil-lubricated bearings with labyrinth isolators, and connections for temperature probes. Common options include various cartridge seals and API piping systems. Flanged or NPT auxiliary connections, cooling jackets, spacer couplings, and various levels of performance testing are also available, depending on users' requirements. Available heavy-duty baseplates result in maximum flange loadings that meet or exceed the requirements of API 610. With some of the most efficient hydraulics in the industry, the Maxum offers the reliability, low lifetime cost, and lasting value that have made Carver one of the most trusted names in pumps.

MAXUM OH1

PUMPS BUILT FOR THE API MARKET

Our Maxum OH1 is used in multiple oil and gas applications, including the transfer of crude oil. This tank farm, located in Wyoming, receives crude oil via a pipeline from Canada. Here, five of our Maxum OH1 pumps are used in various applications, including moving the crude throughout the facility for blending, and from storage tanks into rail cars or tanker trucks for transport.



1 CONNECTIONS
Class 300 ANSI flanges with centerline discharge assist in self-venting

2 WEAR RINGS
Replaceable casing and backhead wear rings maintain efficiency and balanced axial loads

3 CASING
Back pull-out design with registered fits and fully-confined gaskets assure sealing and alignment of critical fits. Casing drains included as standard. Centerline mount options available

4 IMPELLERS
Enclosed, high-efficiency impellers balanced to ISO 1940, Grade G2.5 for vibration-free operation. All impellers are keyed to shaft

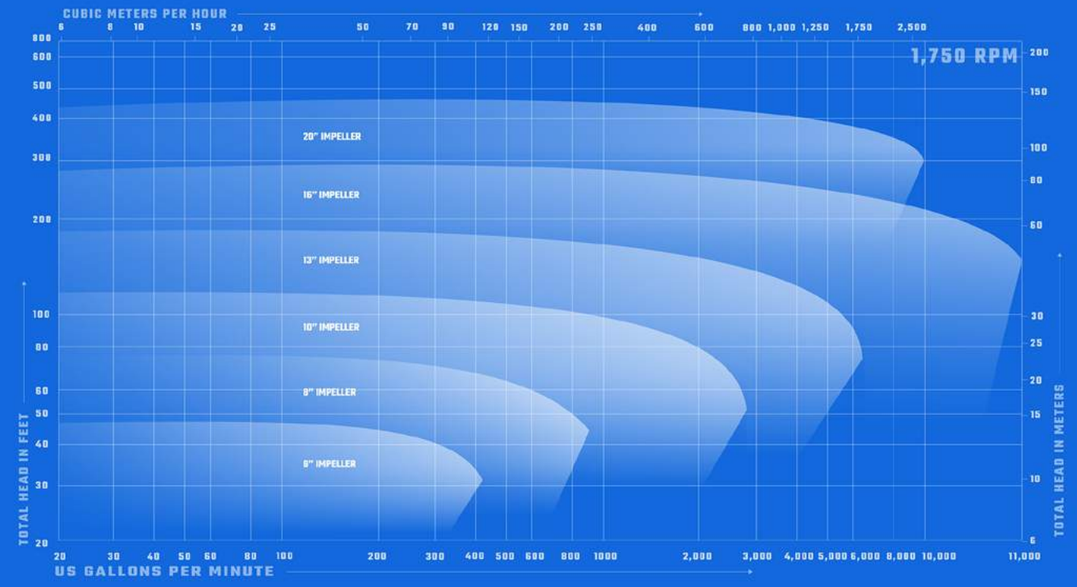
5 API 610 SEAL CHAMBER
Provides an ideal seal environment for both single/dual, pressurized/unpressurized cartridge mechanical seals. A full range of API 682 piping plans is also available, to maximize seal life

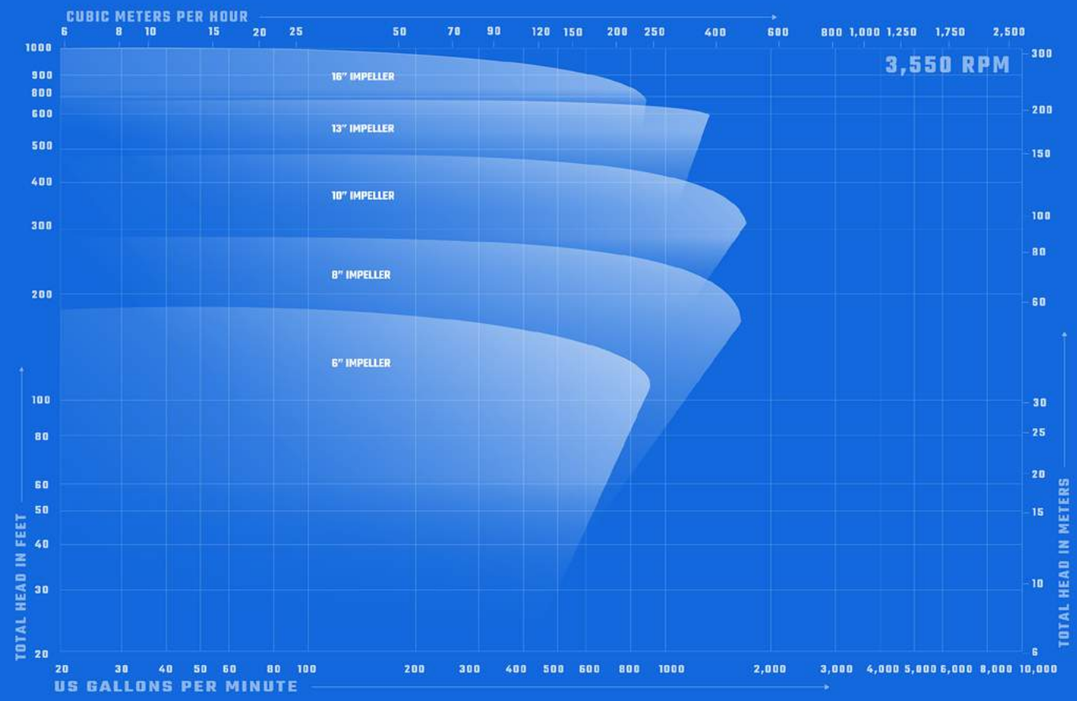
6 BEARING FRAME
Heavy-duty bearing housing with cooling fins. Fan and labyrinth seals keep oil clean and cool, for greater bearing life

7 BEARING LUBRICATION
Oil-lubricated bearings with standard flooded or optional flinger lubrication. Conversion to purge oil mist or pure oil mist is possible without additional machining

8 COOLING FAN
Allows ambient temperatures to 110° F and fluid temperatures to 600° F in centerline mount configuration. The cooling fan also extends bearing life

9 SHAFTS
Minimal shaft deflection extends mechanical seal and wear ring life





ISO 9001 CERTIFICATION TM Intertek
ANAB ACCREDITED MANAGEMENT SYSTEMS CERTIFICATION BODY
CE
Ex
Member of Hydraulic INSTITUTE

WHY A MAXUM OH1?

- Combined bearing life exceeds 25,000 hours.
- Shaft design dramatically reduces deflection, thereby increasing seal life and reducing vibration when operating away from best efficiency point.
- Oil mist lubrication available as a pre-engineered option.
- Heavy-duty baseplate designed for operation without deflection, excessive vibration or resonance.

HYDRAULICS

- Flows to 11,000 US GPM (2,498 m^3/hr)
- Heads to 720 feet (220 m)
- Efficiencies to 88%
- Power to 900 HP (670 KW)
- Temperatures to 600° F (315° C) with optional OH2 centerline mount configuration
- Speeds to 3,550 RPM

APPLICATIONS

- Desalination/Municipal
- Industrial
- Minerals & Mining
- Oil & Gas
- Petrochemical
- Power Generation
- Acid Leaching Processes

MATERIALS OF CONSTRUCTION

Commonly Used Materials	WCB Carbon Steel, 12% Chrome, 316 SS and CD4MCuN Duplex
API Material Codes	S1, S3, S4, S5, S6, S8, S9, A8, C6, D1 and D2
Severe Duty Materials	Hastelloy B, Hastelloy C, 254 SMO, 654 SMO and Titanium

Other materials available, including coatings and composites, to meet specific application requirements.

MECHANICAL DATA

Rotation	Clockwise from Fan End of Motor
Maximum Input	Power Capable of 1,500 HP @ 1,750 RPM
Connections	Class 300 ANSI Flanges
Bearings	Oil Lubricated

OTHER HEAVY-DUTY MAXUM PUMPS

The API Maxum OH2 is a horizontal end-suction pump, specifically designed to meet the needs of the hydrocarbon processing industry.

The API Maxum OH3 offers a space-saving vertical configuration, while retaining the rugged design that makes the Maxum an industry workhorse.

CARVER PUMP™
Built for purpose

80 years of experience

Since we built our first pumps, Carver Pump has become recognized as one of the leading centrifugal pump companies, building to the most demanding engineering specifications and military standards in the world.

We were one of the first American pump companies to attain ISO 9001 certification – the most recognized standard for quality in the world. This certification is your assurance that our commitment to quality includes not only our hardware, but also superior customer service, leading-edge R&D, and continuous improvement in everything we do.

So whether the job is refueling fighter jets on the deck of an aircraft carrier, supplying paint to an auto assembly line, or bringing water to the fountain in a city park, we put our reputation on the line everyday with every pump we build.

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