



CARVER PUMP™

Built for purpose



API MAXUM OH3

API 610 Compliant

In-Line Vertical Pumps

AUTHORIZED DEALER



FOR SALES & SERVICE

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API MAXUM OH3

Our vertical in-line pump, specifically designed to meet the needs of the hydrocarbon processing industry.

The API Maxum OH3 is designed for optimum reliability, featuring rugged construction and state-of-the-art mechanical design. Units are well suited for applications that include petroleum refining/production/distribution, petrochemical/chemical processing, boiler circulation/high-temperature applications, and general industrial use. A workhorse in the industry, these pumps are designed for years of service, in some of the toughest environments imaginable.

This model is compliant with latest edition API 610 specifications. Standard features include renewable casing wear rings, API 610 seal chamber sized to accommodate 682 mechanical seals, back pull-out construction, dynamically-balanced impellers, bearing isolators, and fan cooling. Locations are also included for temperature probes, as standard. Common options include single, double or tandem mechanical seals, and

various seal flush systems. Together, these features combine to produce some of the most efficient hydraulics in the industry and shaft deflection values meeting or exceeding those of API 610 requirements.

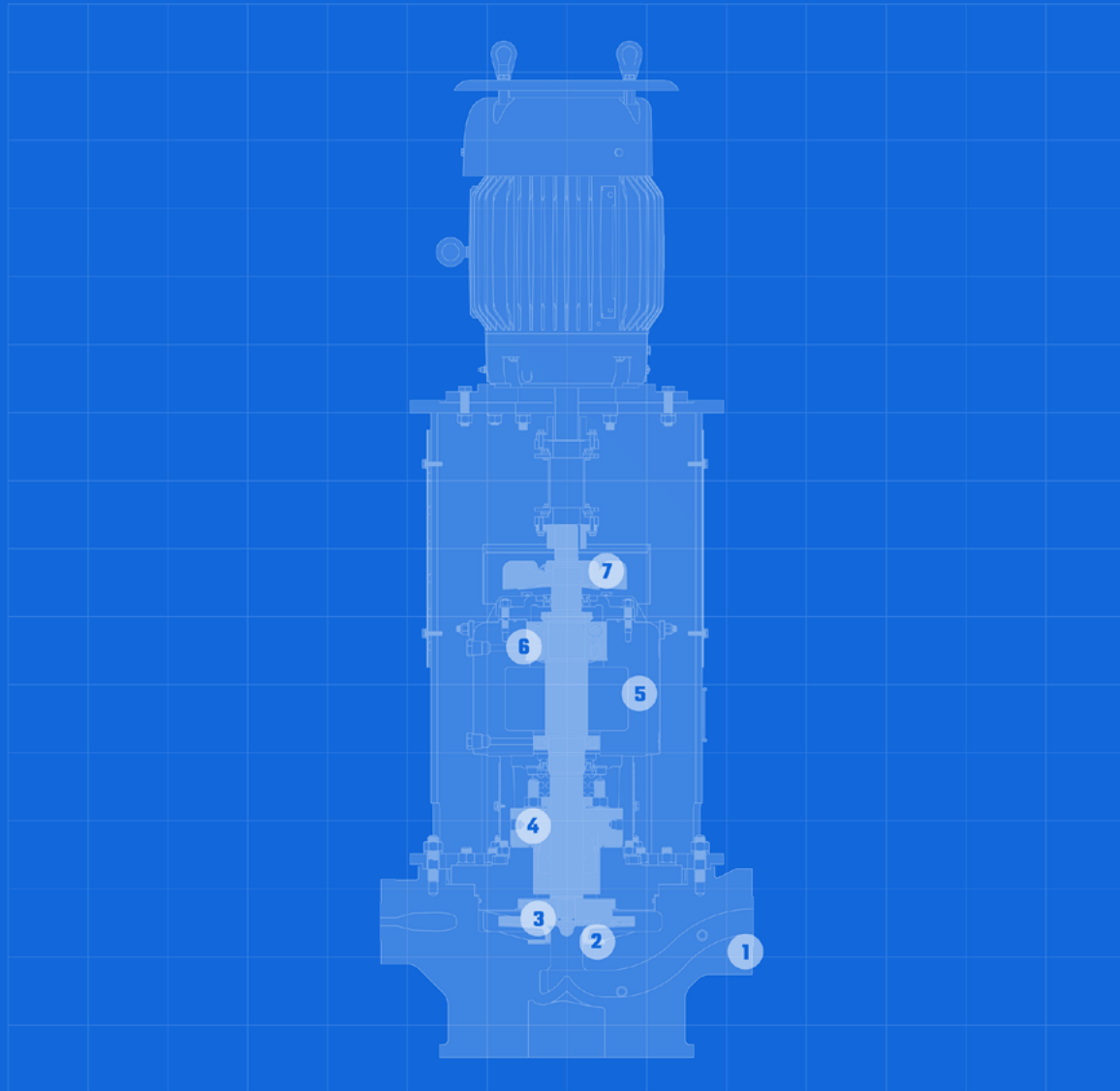


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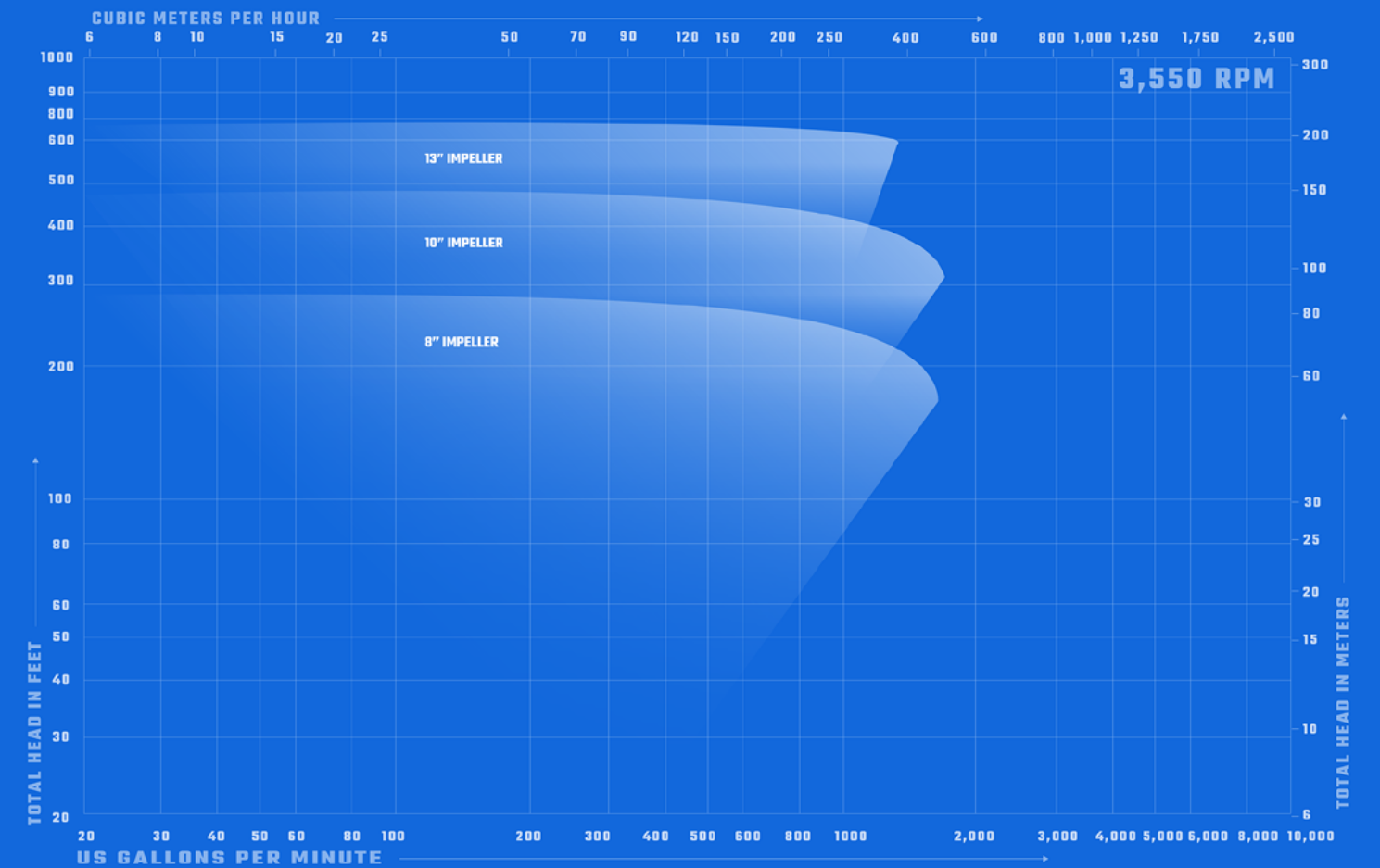
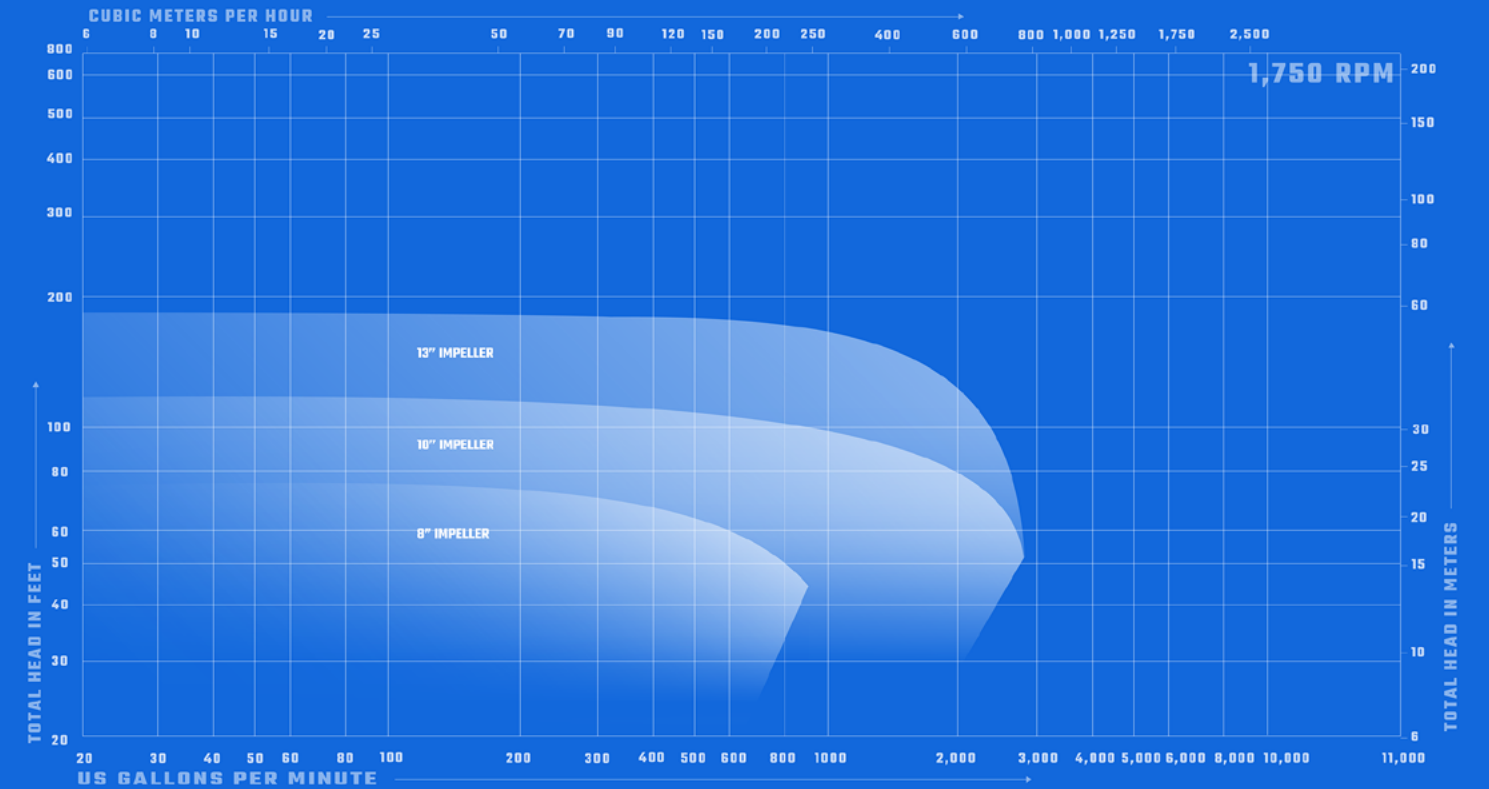
PUMPS BUILT FOR THE API MARKET

Our API Maxum OH3 is used in multiple oil and gas applications, including low-flow high-head condensate or diluent injection for artificial lift services. These pumps are located in several gas fields in eastern Venezuela and help to increase the well pressure to improve heavy crude oil production levels.



- 1 CONNECTIONS**
Class 300 ANSI flanges with in-line discharge assist in self-venting
- 2 WEAR RINGS**
Replaceable casing and backhead wear rings maintain efficiency and balanced axial loads
- 3 IMPELLERS**
Enclosed, high-efficiency impellers balanced to ISO 1940, Grade G2.5 for vibration-free operation. All impellers are keyed to shaft
- 4 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

- 5 BEARING FRAME**
Heavy-duty bearing housing with cooling fins. Fan and labyrinth seals keep oil clean and cool, for greater bearing life
- 6 BEARING LUBRICATION**
Grease-lubricated bearings are standard. Oil mist lubrication available as an option. Conversion to purge oil mist or pure oil mist is possible without additional machining
- 7 COOLING FAN**
Allows ambient temperatures to 110° F and fluid temperatures to 600° F in vertical mount configuration. The cooling fan also extends bearing life



WHY AN API MAXUM OH3?

- 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.
- Fully complies with or exceeds API 610 requirements for shaft deflection at coupling.
- Operates at fluid temperatures up to 600° F (315° C) without cooling water.

HYDRAULICS

- Flows to 2,400 US GPM (545 m³/hr)
- Heads to 720 feet (220 m)
- Efficiencies up to 88%
- Power to 250 HP (186 KW)
- Temperatures to 600° F (315° C)
- Speeds to 3,550 RPM

APPLICATIONS

- Desalination/Municipal
- Oil & Gas
- Power Generation
- Acid Leaching Processes
- Black, Green and White Liquor Transfer
- Ethane and Polyethane
- Hot Oil Applications
- Light Hydrocarbon Transfer

MATERIALS OF CONSTRUCTION

Commonly Used Materials	WCB Carbon Steel, 12% Chrome and CD4MCuN Duplex
API Material Codes	S1, S3, S4, S5, S6, S8, S9, 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	Up to 250 HP
Connections	Class 300 ANSI Flanges
Bearings	Grease or Oil Mist 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 Maxum OH1 is a foot-mounted version of our API Maxum OH2. Its rugged design makes the Maxum an industry workhorse.





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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