

6TZ-V PUMP

For more than 70 years the name GTI has been synonymous worldwide with innovation and reliability for pumping technology

GTI is an innovative and efficient centrifugal pump technology company that offers operators of Pump Systems and a wide range of quality products. GTI is committed to global excellence with a complete range of Pumps, Fire Pump Packages and related products, such as Decoking Systems and Tools to support the core markets, namely Oil & Gas, Petrochemical, Power, Heavy Industry Applications, Mining and Water Services.

The broad product line complies with the most demanding quality specifications and goes beyond stringent industry standards such as Hydraulic Institute, Underwriter's Laboratories.

GTI is a vertically integrated company with its own foundry, machine shop, pumps manufacturing plants and service centers. With strategically located manufacturing plants, operating offices and service centers in many parts of the world, GTI is truly a global pump company which also has the strength to focus on the local necessities of each client.

6TZ-V PUMP

The 6TZ-V line is designed to meet or exceed specifications. All 6TZ-V pumps are designed around a single, basic hydraulic and mechanical design concept which ensures efficiencies across a wide spectrum of operating conditions, unparallel application flexibility and superior interchangeability.

This rugged process pump is designed to operate dependably and even in the toughest industrial applications.

The 6TZ-V line features 35 sizes to precisely meet service conditions within a wide range of hydraulic parameters including low flow high head parameters. The line was

also designed to accommodate many different optional features such as wear rings on casing and impeller or water jackets for stuffing boxes and bearing housings.

Low flow, high head model

Gemtech offers its 6TZ-V-L Low Flow, High Head pump model. Its radial vane impellers are specially designed to reduce the thrust load and seal chamber pressure normally associated with low flow application and it also complies with the Standard.

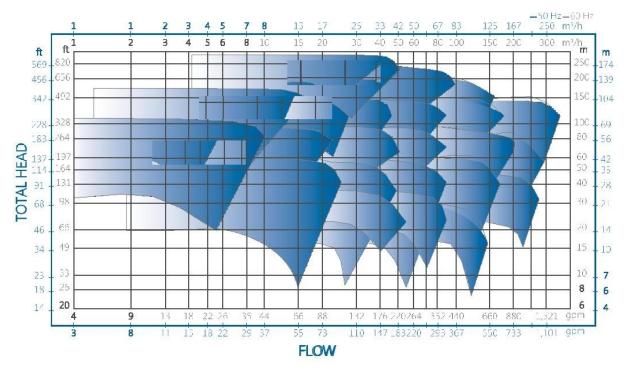


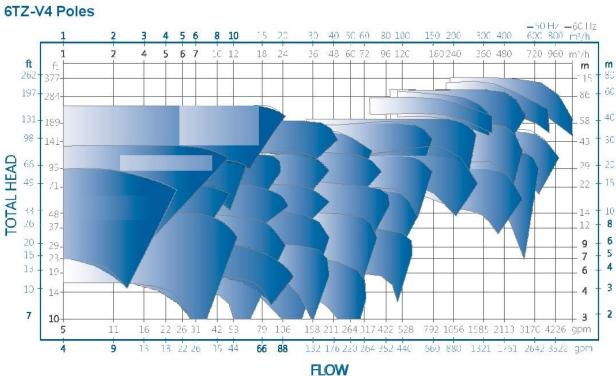
C-Frame

C-Frame assures proper alignment and better seal life

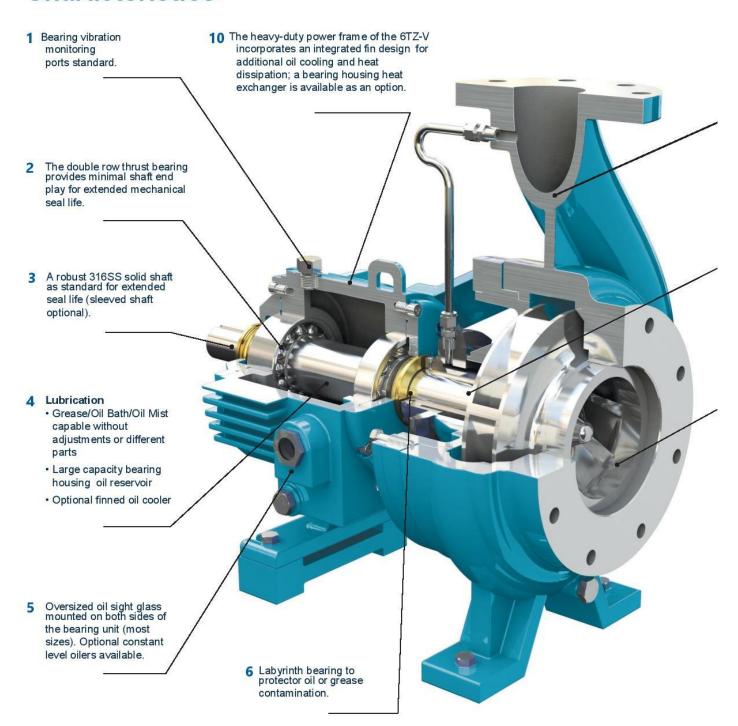
Pump Performance Chart

6TZ-V 2 Poles





Characteristics



Sectional only applies to the 6TZ-V; the 6TZ-V design is not illustrated on this page. Images for illustration purposes not actual construction.

- 9 flange drilling is available based on material selection. RF or FF designs are available based on requirements.
- 8 A large bore stuffing box design is standard for better cooling and circulating to the seal faces. Stuffing box cover for packing or mechanical seal applications, inside or outside, double or single, balanced or unbalanced seals, with any required gland connections.
 - 7 Enclosed impeller design ensures maximum efficiency. The impeller itself is threaded and is positively locked onto shaft and sealed with an o-ring.

6TZ-V PERFORMANCE DATA

Capacity	5,000 U.S. gpm	up to 1,135 m ³ /h
Head	up to 770 ft	up to 235 m
Pressure	up to 375 psig	up to 26 bar
Temperature	50 °F to 600 °F	45 °C to 315 °C
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Dis. Flange Size 1 to 8 in

6TZ-V PERFORMANCE DATA

Capacity	210 U.S. gpm	up to 48 m ³ /h
Head	up to 920 ft	up to 281 m
Pressure	up to 400 psig	up to 27.5 bar
Temperature	up to 700 °F	up to 371 ℃
Dis. Flange Size	1 to 1.5 in	1,171,02

For Pump operation outside this range, please contact a Gemtech representative.

DESCRIPTION

Single stage, horizontal centrifugal pump

- · Radially split casing with flanged connections.
- Horizontal end suction and vertical discharge on the center line
- Enclosed impeller, clockwise rotation (viewed from coupling end).
- Outstanding L3/D4 deflection index.
- Foot mounted.
- Oil lubricated.
- "Back pull-out" design allows pump disassembly without disturbing pipe connections.
- Standard or large bore stuffing boxes are available for packing, single, or double seals.
- All flush plans are offered, as needed, in a variety of configurations.
- C-Frame option is also available.
- Optional cooling jacket and cooling coil for high temperature applications.

BROAD APPLICATION RANGE

The 6TZ-V is designed for a wide range of industrial, chemical process and municipal applications suchas, but not limited to:

- Petrochemical
- Oil & Gas
- Steel Industry
- Automotive
- Agriculture
- Tank Farm
- Pulp and Paper
- Chemical
- Semiconductor

- Food Processing
- Power Generation
- Pharmaceuticals
- Water treatment
- Paper Stock
- Pipeline
- General Industries
- Textile
- Mining

MATERIALS OF CONSTRUCTION

6TZ-V pump is available in many materials suchas:

- Ductile Iron / Stainless Steel (CF8M)
- Stainless Steel (CF8M)
- Duplex (CD4MCu)
- Alloy 20 (C7NM)

We cover a large range of material options to satisfy every need, please contact us for more information.

More 6TZ-V models

Low Flow, HighHead model

The 6TZ-Vis the low flow option of the 6TZ-V product line, designed to fill the gap on the low flow side of the 6TZ-V range map. With low flow applications, it is important to reduce the radial load and potential shaft deflection issues. Gemtech radial vane impeller and concentric pump casing for the 6TZ-V are specifically designed to reduce these issues at low flow or throttled operating conditions. The radial vane impeller with balance holes also reduces seal chamber pressures. This will lead to increased seal and bearing life and less unplanned system downtime.

Design Features

6TZ-V utilizes external impeller adjustment to restore pump efficiency and reduce downtime.

Complies with this pump can be used to replace existing equipment without any problem. There will be no need for piping or base changes.

Gemtech 6TZ-V series is designed with a circular concentric casing together with a radial vane impeller to minimize shaft deflection and reduce excessive radial loads and thus prolonging bearing and seal life.





6TZ-VIMPELLER

High Temperature Options for 6TZ-V

Cooling options

Cooling Jacket

Designed to control seal's temperature



Cooling Coil

Cools oil with minimum cooling water, ideal for oil temperatures up to 350 °F (177 °C)

