

Sening® BETA and DELTA Tank Truck Centrifugal Pumps

Sening tank truck pumps are designed to meet all your diesel, fuel oil, and petrol pumping needs.

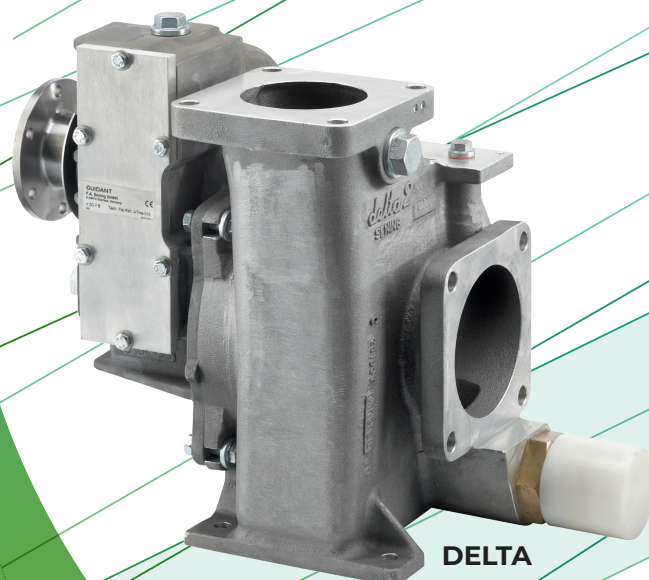
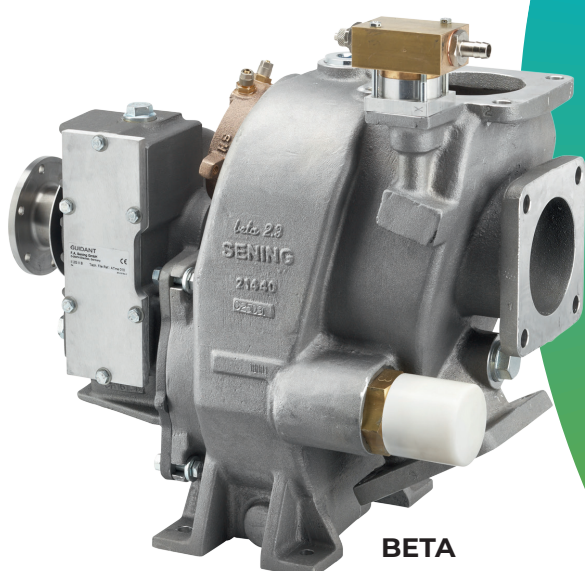
The BETA and DELTA were designed differently to support a wider range of intake and discharge capabilities. The BETA pump enables you to select different pump routes with three ports and a control slide. The DELTA pump is available with three different impellers and can cover a displacement range from 800 to 1,200 liters per minute (L/min).

Each pump's drive unit can be rotated in steps of 90° to minimize the angle of inclination of the cardan shaft.

Both pumps have an integral overflow valve to limit the pump pressure.

Features

- Low wear, low maintenance, and long life
- Self-priming
- Quiet operation
- Resistant to dirt particles in fuel
- Versatile modular system to achieve different flow rates

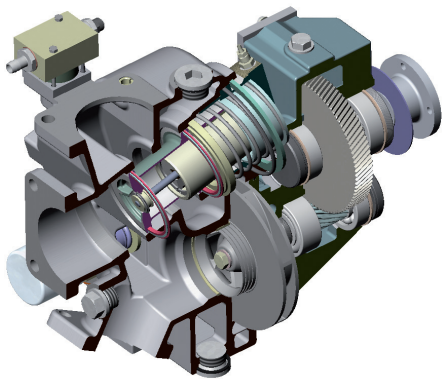


BETA

The BETA pump is designed to operate with draw bar trailers and is equipped with an additional flange to connect to the trailer discharge line. The BETA pump is available for tank trucks with power take off (PTO) or a hydraulic drive.

The upper part of the pump housing incorporates a pneumatically controlled three-way valve system for:

- Discharge from the truck
- Discharge from the trailer
- Gravity bulk discharge from the tank truck
- Loading from the draw bar trailer to the truck
- Loading from a bulk storage tank to the truck (includes an ejector to increase suction speed)

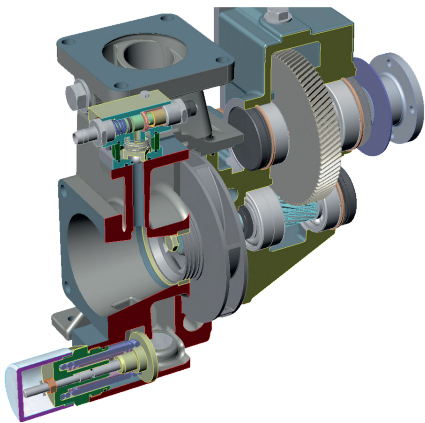


Specifications

Flow rate	Maximum 1,000 L/min
Pump pressure	Maximum 8.5 bar
Exposed parts material	Aluminum, stainless steel 1.4057, and brass
Gasket material	Fluoroelastomer (FKM) and nitrile rubber (NBR)
Weight	Approximately 30 kilograms (kg)

DELTA

The DELTA pump is available for tank trucks with power take off (PTO) or a hydraulic drive. The pump can be fitted with an optional ejector to increase suction speed.

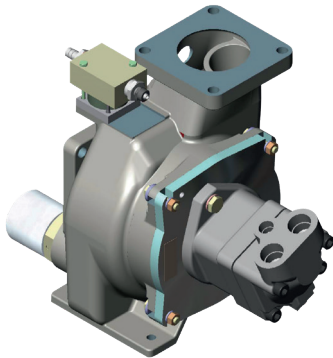


Specifications

Flow rate	Maximum 1,200 L/min
Pump pressure	Maximum 8.5 bar
Exposed parts material	Aluminum, stainless steel 1.4057, and brass
Gasket material	FKM and NBR
Weight	Approximately 20 kg

Hydraulic Drive

The hydraulic drive is available for both the BETA and DELTA pumps.



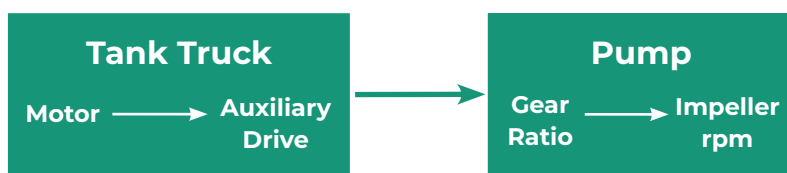
Ordering Information

To determine the correct product order number, the following information is required:

- Pump type
- Gear ratio for the pump gear unit
- Flow rate
- Flange type of the pump gear unit (four- or six-hole flange)

The hydraulic drive (Type F11-10) is connected directly to the impeller and pump housing without a gearbox. The oil flow rate of the hydraulic motor is 50 L/min at a maximum of 350 bar.

Example for determining the order number:



The impeller can turn at 5,000 revolutions per minute (rpm) maximum to achieve the highest flow rate.

Example:

$1,000 \text{ rpm} \times 1.4 \times 3.87 \text{ (No. 3)} = 5,418 \text{ rpm}$

Result:

5,418 rpm is too high; choose gearbox ratio 3E instead

$1,000 \text{ rpm} \times 1.4 \times 3.1 = 4,340 \text{ rpm}$

Gear Order Number	Gear Ratio
2	2.45
3E	3.10
3	3.87
4E	4.35
4	4.94
5	5.69
6	6.57
7	7.21

For example:

BETA2-3E-1006 = BETA for auxiliary drive, gearbox ratio 3.10 - 1,000 L/min—six-hole flange

BETA2-HY-1000 = BETA with hydraulic drive—1,000 L/min

DELTA2-3-1004 = DELTA with gearbox ratio 3.87 - 1,000 L/min—four-hole flange

DELTA2-HY-1200 = DELTA with hydraulic drive—1,200 L/min

For detailed information about Guidant's Sening products, go to the [Guidant Knowledge Base](#).

About Guidant

As the undisputed leader in liquid and gas custody transfer solutions with the largest global install base, Guidant's legacy is built on more than 80 years of expertise, accuracy, reliability, and best-in-class technologies. We are a private company focused on the measurement solutions business, serving emerging and established energy markets across the globe.

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