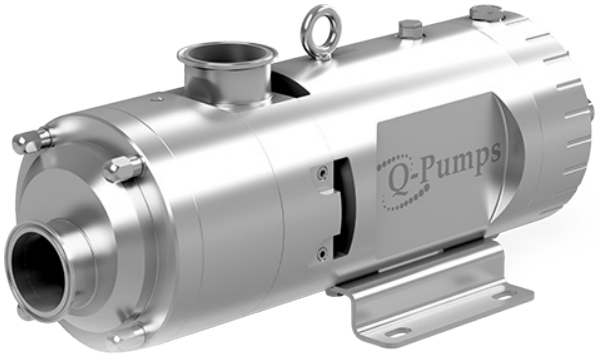
# QTS
## Twin Screw Pump




## FEATURES

Manufactured 100% in stainless steel, wet parts in SS 316L
Constant flow, free of pulsations
100% CIP at high speeds
There is no contact between rotor / rotor / housing when working at high pressures
Speed of up to 3,500 rpm (depends on the viscosity of the product)
Ideal as a process and CIP pump* with the same equipment reducing costs
Perfect for handling constant flows and product measurements
Large suction capacity that eliminates low NPSH problems
Handling of products with low and high viscosities (from 1 to 1,000,000 cP)
Ideal for abrasive products
100% drainable
Bidirectional: It is possible to recover the product from the line due to being reversible
Self-priming (high degree of suction)
Narrow tolerances for vacuum capacity
Certified by EHEDG (nº UT 033018) and 3-A (nº 1805)
Options available in other materials such as Hastelloy C-276

## DIFFERENT SIZE


**QTS-400**
Suction and discharge:
4", 6"/100, 150 mm

**QTS-300**
Suction and discharge:
3", 4"/75, 100 mm

**QTS-350**
Suction: 4" y 6"/ 101, 152 mm
Discharge: 3" y 4" / 76, 101 mm

* Intermediate capacity between QTS 300 and QTS 400, which allows the user to select the pump that best suits their processes.

**QTS-100**
Suction and discharge:
1.5", 2"/35, 50 mm

**QTS-200**
Suction and discharge:
2", 2.5", 3"/ 50, 60, 75 mm

**QTS-25**
Suction and discharge:
1/2",3/4",1"/
12.7,19.05, 25 mm

* Ideal for dosing, supply and packaging of products with low flow rates, regardless of viscosity.

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## AVAILABLE SEALS

### MECHANICAL SEAL

Long useful life
Cleaner (EHEDG)
Can work in vacuum up to -12 psi / 0.83 bar
High pressure and speed management
Ideal for abrasive products
Single or double


### Q-RING SEAL

Economic option
It can be replaced quickly
Easy maintenance
Ideal for soft products (glycerin, creams, fats, etc.)
EPDM and Viton


### LIP SEAL

Handles abrasive products
Does not require lubrication

## ADVANTAGES VS. OTHER PUMPS

| QTS SERIES | OTHER TECHNOLOGIES |
|---|---|
| **Integrity of suspended solids** | |
| • Handles suspended solids up to 38 mm / 1.5 "without mistreating them.<br>• Continuous flow and delicate handling of fluids<br>• High and low speeds (up to 3,500 rpm) | • It is not possible to keep solids intact<br>• Abuse to the product by the impeller's cut<br>• Limited maximum speeds in lobular pumps (up to 600 rpm) |
| **CIP and NPSH** | |
| • The QTS pump is 100% CIP<br>• Self-draining and self-priming<br>• Ideal as a process and CIP pump with the same equipment.<br>• Large suction capacity that eliminates problems of low NPSH available.<br>• Air handling in the line of up to 60% | • Most existing positive displacement pumps are not 100% CIP.<br>• It is not possible to clean the production line using the same pump.<br>• Difficulty to prime the pump (limited suction capacity).<br>• Requirement of higher NPSH |

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## Damage, wear and maintenance

• Handling of abrasive products since its surface is hardened, protecting it from premature wear.

• Less damage to the pump when there is no contact between rotor / rotor / casing, when working at high pressures and avoiding long downtimes.

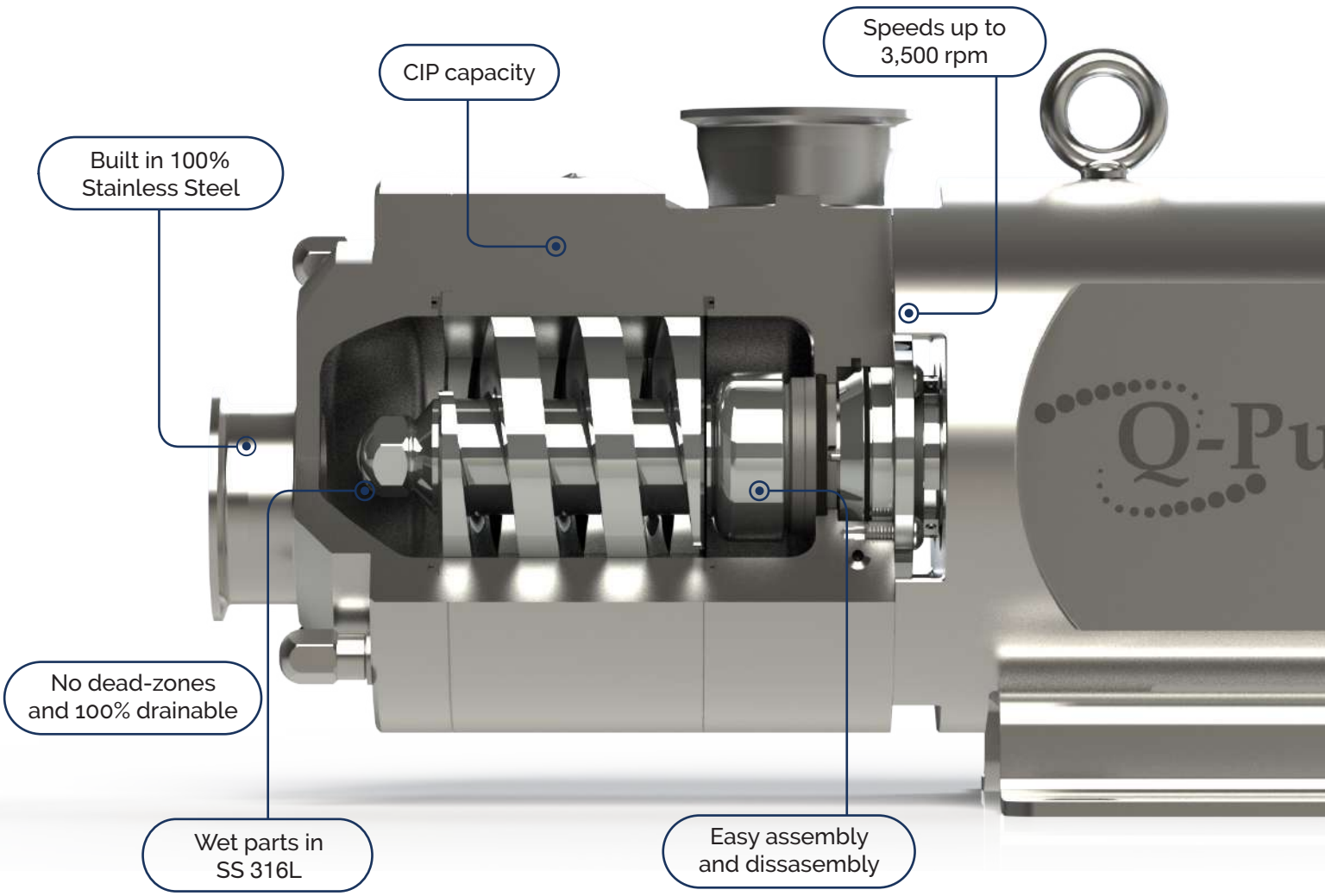
• Premature wear with abrasive products
• Damage of seals / stator when operating dry
• Long stoppages for maintenance

## Operation and Performance

• The QTS pump is silent
• By being able to handle trapped air, there is less chance of cavitation.
• Less slippage of the product inside the pump.
• It has no dead zones
• High and constant flow

Noise and excessive vibration
• Cavitation situations with low and high speeds.
• High slip of the product inside the pump.
• Dead zones
• Minor and pulsating flows

# ADVANTAGES

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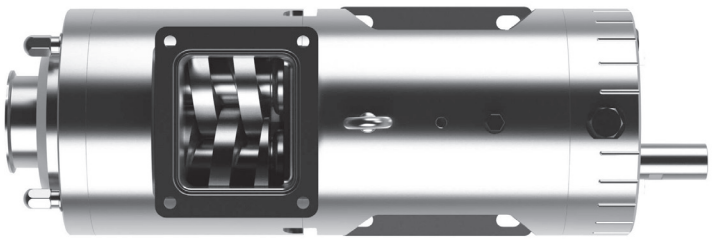
## DIFFERENT SCREW OPTIONS

## RECTANGULAR INLET

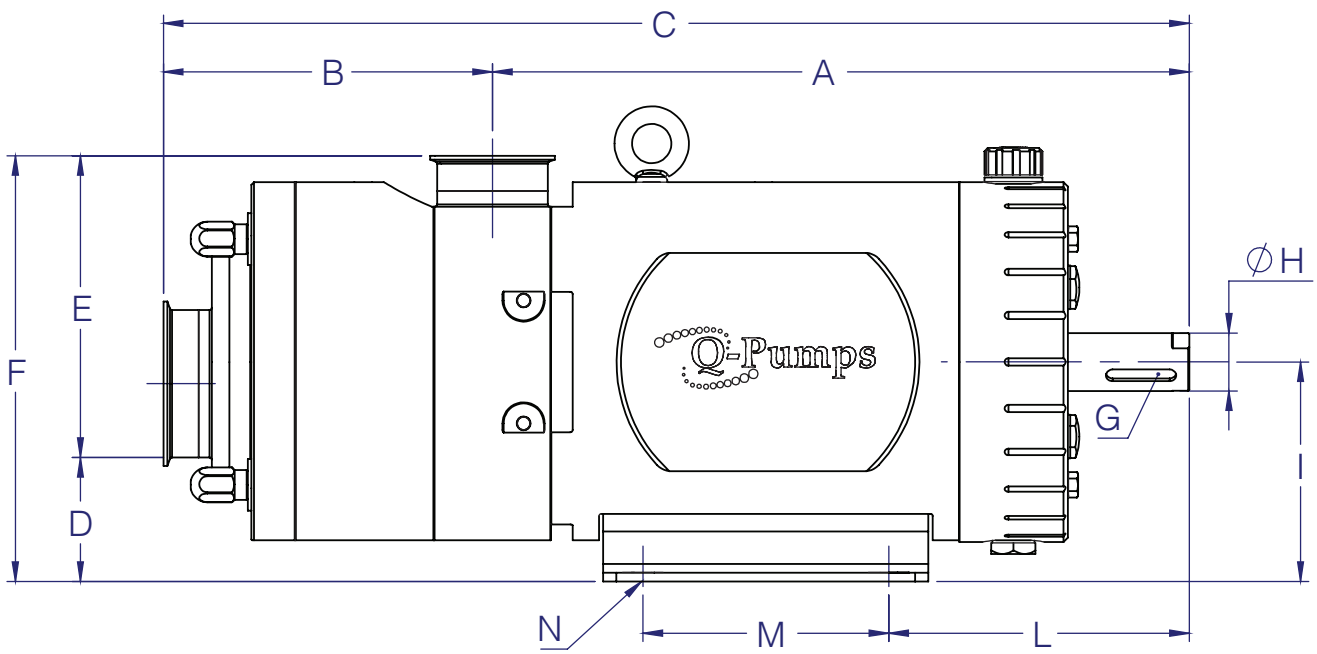



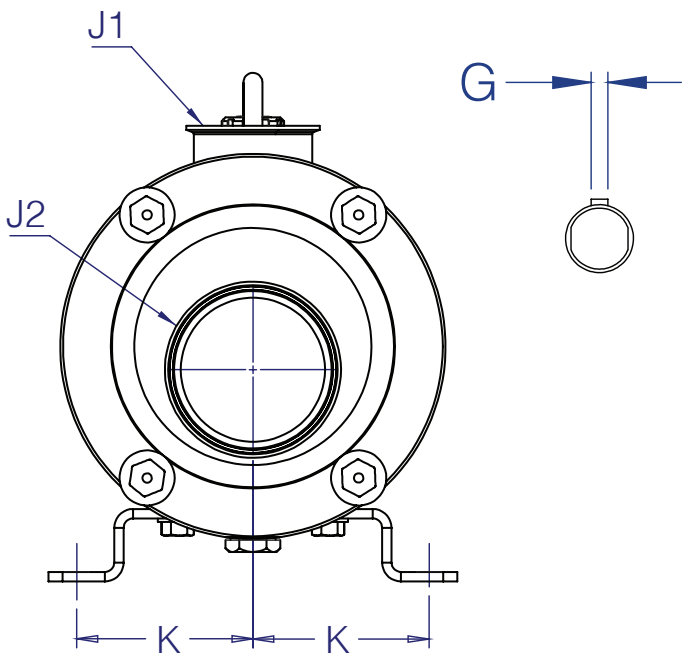
Q-Pumps is the only manufacturer of pumps in twin screw that offers the widest range of different options for rectangular entrances, allowing the user to select the one that best suits their production processes.

- Ideal for pasty products such as meats and doughs
- High viscosity handling (100,000 to 1,000,000 cP)
- Ideal for products with high air or gas content
- Perfect for vacuum applications with high and low viscosity products
- Ideal for applications with low NPSH
- CIP capacity

## APPLICATIONS

## DIMENSION




Scan the QR Code for the Pump dimensions

# TWIN SCREW PUMP FOR INFINITE APPLICATIONS

| Model | Maximum capacity | | | | Conection Sizes | Differential pressure | Viscosity | Temperature |
|---|---|---|---|---|---|---|---|---|
| | gpm | | ipm | | | | | |
| | Aplication | CIP | Aplication | CIP | | | | |
| QTS 25 | 7-5 | 15 | 30 | 60 | 1/2",3/4",1" | 150 psi/10bar | up to 1,000,000 cP | up to 300°F (120°C) |
| QTS 100 | 35 | 70 | 132 | 265 | 1.5"/2" | 260 psi/18bar | | |
| QTS 200 | 93 | 185 | 352 | 700 | 2",2.5",3" | up to 360 psi/25 bar | | |
| QTS 300 | 223 | 405 | 844 | 1533 | 3",4" | | | |
| QTS 350 | 399 | 642 | 1510 | 2430 | 3",4",6" | | | |
| QTS 400 | 570 | 850 | 2158 | 3218 | 4",6" | | | |