QTS Series

Advantages

Pumps has solved problems and limitations of different kind of positive displacement pumps.
In order to provide efficient solutions, we have developed the new twin screw pump that combines great characteristics to solve a lot of those limitations.

QTS	OTHER PUMPS
Maintaining soft solids' integrity	
QTS pump can handle suspended solids without damage (maximum size of the solid 1.5 in/ 35mm) Constant flow, delicated handle of fluids Low & High speeds (up tp 3,000 rpm)	Can't keep suspended solids intact Rough handling of products High shear (centrifugal and lobular) Limited high speeds (up to 600 rpm)
CIP & NPSH	
QTS pump is 100% CIP **Totally drainable** Ideal to be used as process pump as well as a CIP pump, reducing costs in additional equipment and timing Low NPSH requirement thanks to its high suction capapility / Self-priming	Most of positive displacement pumps avaliable in the market are not 100% CIP It is not possible to clean the production line with the same pump Problems loading the pump (reduce suction capability) Higher NPSH requirement
Damage, Wear & Maintenance	
QTS pump is ideal to handle abrasive products thanks to its improved surfaces Even when running at high pressures, there is no rotor/rotor/body contact	Wearing out due to abrasive products Chemical damage Overpressure damage Seals / stator damage by dry operation Long maintenance shutdowns
Operation & Performance	
QTS is a silent pump Handles air up to 60%, which eliminate pumps cavitation Reduced products slip No dead zones High flows	Excess ive noise and vibration Cavitation when handing low visco sities at high speed Product slip Dead zones Lower flows

Applications

SEALING SYSTEMS

Dairy Products


Sour Cream


Yogurt


Cheese


Butter

Drinks


Juice


Soda


Beer


Fruit Pomace

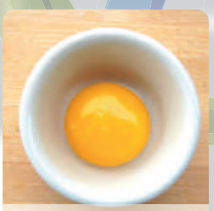
Food Industry


Corn Dough

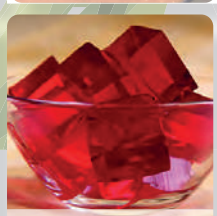

Chopped Tomato


Salsa


Dressing


Egg


Pasta


Jello


Honey

Candy


Chocolate


Caramel


Ice Cream


Peanut Butter

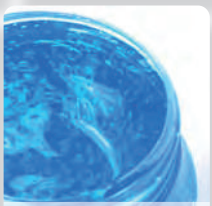
Meat Industry


Chicken

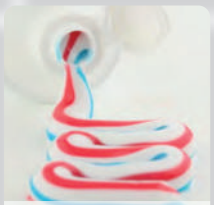

Meat


Sausage

Pharmaceutical Industry


Gel


Soap


Tooth Paste

And Many More!

Characteristics

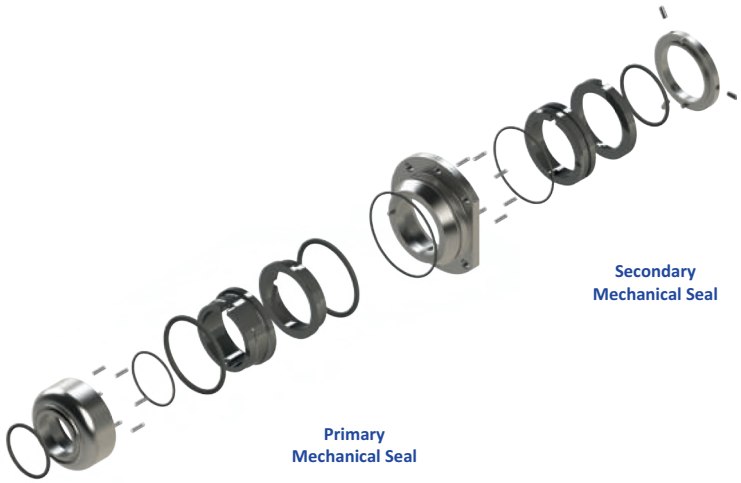
- 100% Stainless Steel, wet parts are made of SS 316L
- Constant flow, virtually pulsation-free
- 100% CIP running at high speeds
- Even when running at high pressures, there is no rotor/rotor/body contact
- Speed up to 3,000rpm (depending on the fluid viscosity)
- Ideal to be used as process pump as well as a CIP pump reducing costs in additional equipment and timing
- Process Optimization
- Metering
- Low NPSH requirement thanks to its high suction capacity
- Low and high viscosity products (from 1-1.000.000 cP)
- Products with up to 60% entrained air
- Ideal for handling abrasive products
- Totally drainable
- Bidirectional
- Self-priming
- Close clearances for vacuum capability
- 3-A Certified (Certification number 1805)
- Meets EHEDG standards (European Hygienic Engineering and Design Group)

Twin Screw

New QTS Series, 100% Sanitary Twin screw pumps. It's Pump most recent creation, innovating positive displacement

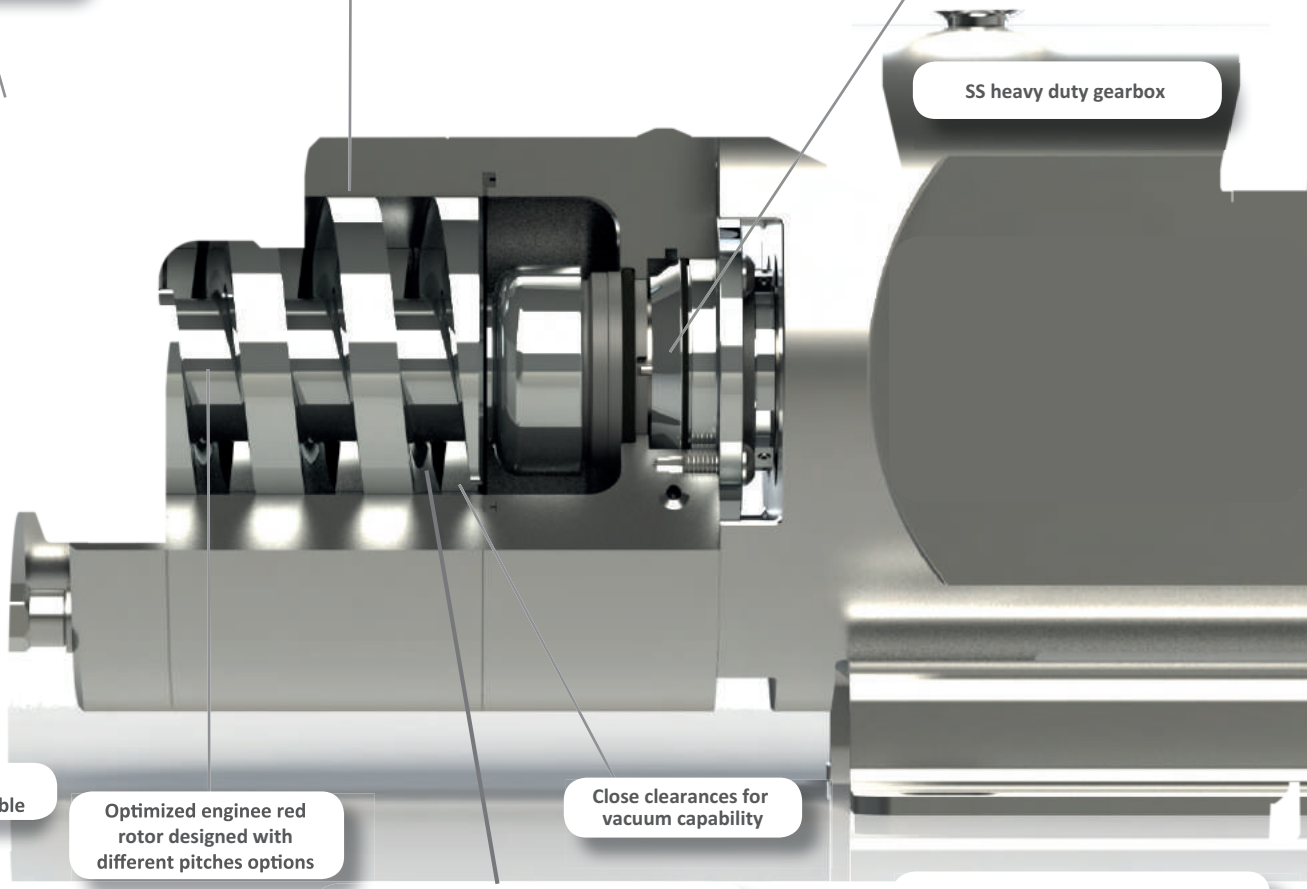
QTS Mechanical Seal

- Single or double mechanical seal
- Easily converted from a single seal to a double seal
- All models come double seal ready
- Seals are capable of handling a vacuum of 28 in / 711 mm of Hg



SEALING SYSTEMS

Different pitches to handle solids



Available Sizes

QTS 100
Suction/Discharge Connections*
1.5”,2”/35,50mm

QTS 200
Suction/Discharge Connections*
2”,2.5”,3”/50,60,75mm

QTS 300
Suction/Discharge Connections*
3”,4”/75,100mm

QTS 400
Suction/Discharge Connections*
4”,6”/100,150mm

***Check availability / Other options**

Model	Maximum Capacities				Maximum Particle Size		Differential Pressure		Viscosity	Temperature
	gpm		lpm		in	mm	psi	bar		
	Application	CIP	Application	CIP						
QTS 100	35	70	132	265	0.50	12.7	up to 200	13	up to 1000 000 cP	up to 300 °F (150 °C)
QTS 200	93	185	352	700	0.70	17.8	250	17		
QTS 300	223	405	844	1533	1.00	25.4	300	20.5		
QTS 400	570	850	2158	3218	1.50	38.1	350	24		

Reference data

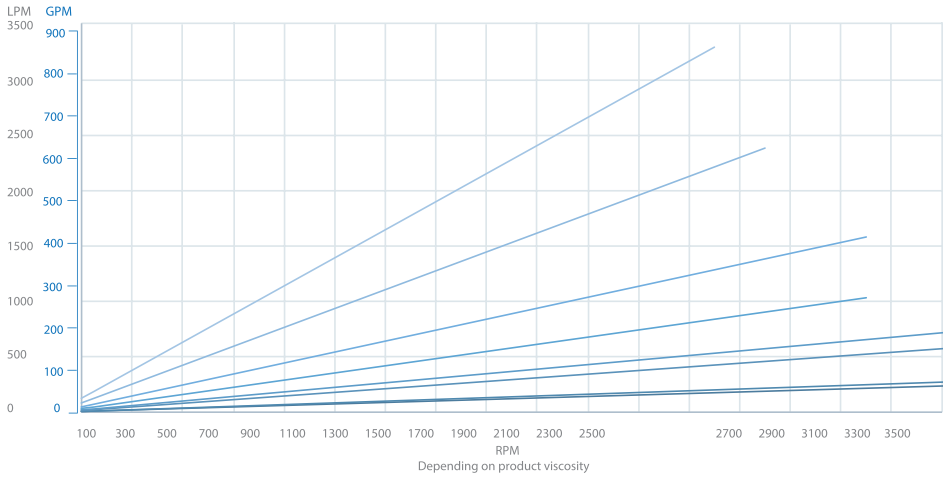
Flow:
850 GPM / 3218 LPM

Pressure:
20 Bar / 211m /300 PSI / 693 ft

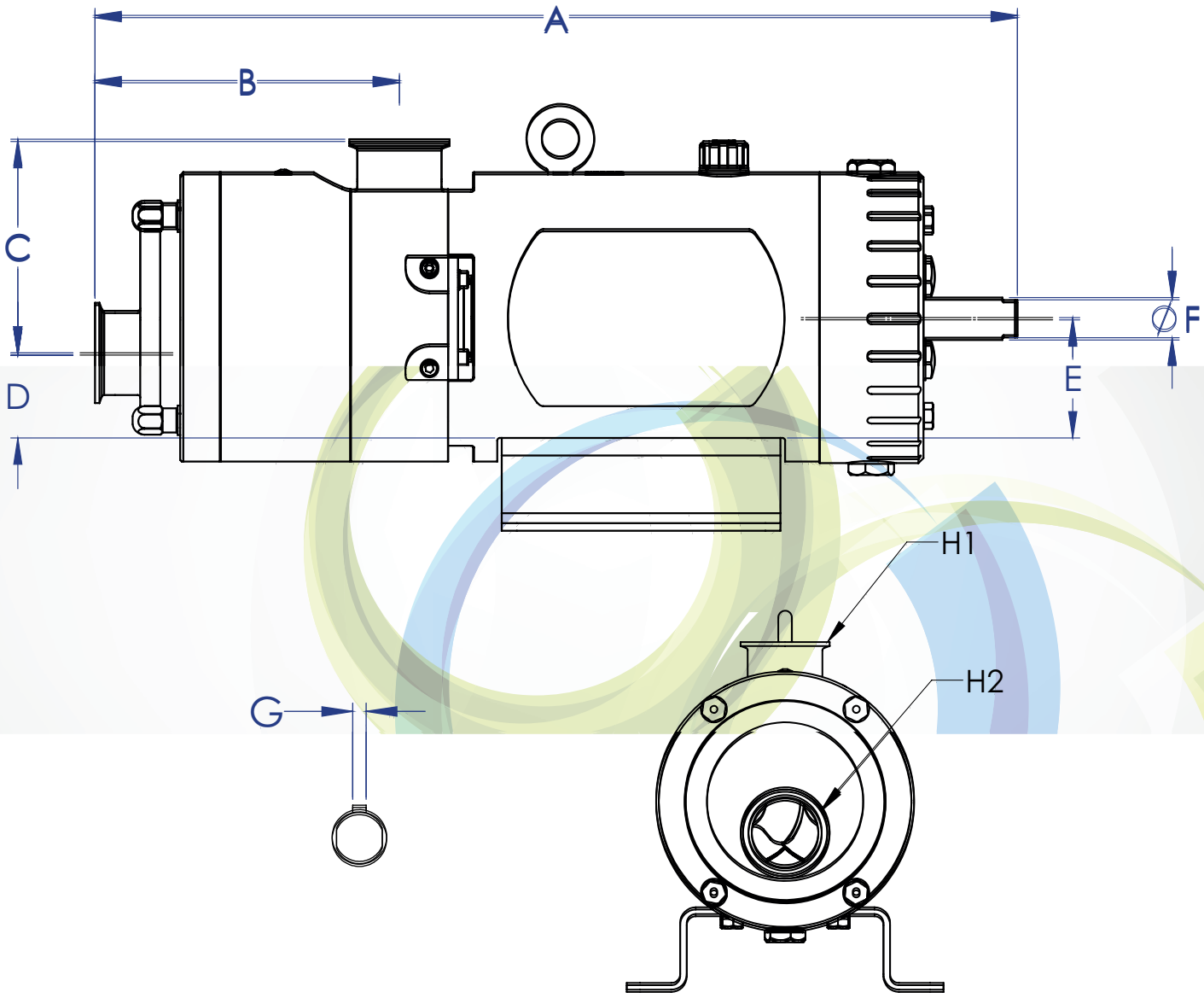
Viscosity:
1 - 1’000,000 cP

Max. temperature:
150°C / 300°F

Displacement Curves



Pump Dimensions



PUMP SERIES	A		B		C		D		E		F		G		H1		H2	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
QTS 100	17.37	441	5.45	138	4.48	114	1.83	47	2.57	65	0.71	18	3/16	4.7	1½ - 2	38.1 - 50.8	1½ - 2	38.1 - 50.8
QTS 200	23.00	584	7.59	193	5.33	135	2.12	54	3.00	76	1.00	25.4	1/4	6.3	2 - 2½	50.8 - 63.5	2 - 3	50.8 - 76.2
QTS 300	29.21	742	9.37	238	6.98	177	3.22	82	4.32	110	1.65	42	3/8	9.5	3	76.2	3 - 4	76.2 - 101.6
QTS 400	39.21	996	13.10	333	8.92	227	4.18	106	5.62	143	2.125	54	1/2	12.7	4 - 6	76.2 - 152.4	4 - 6	76.2 - 152.4