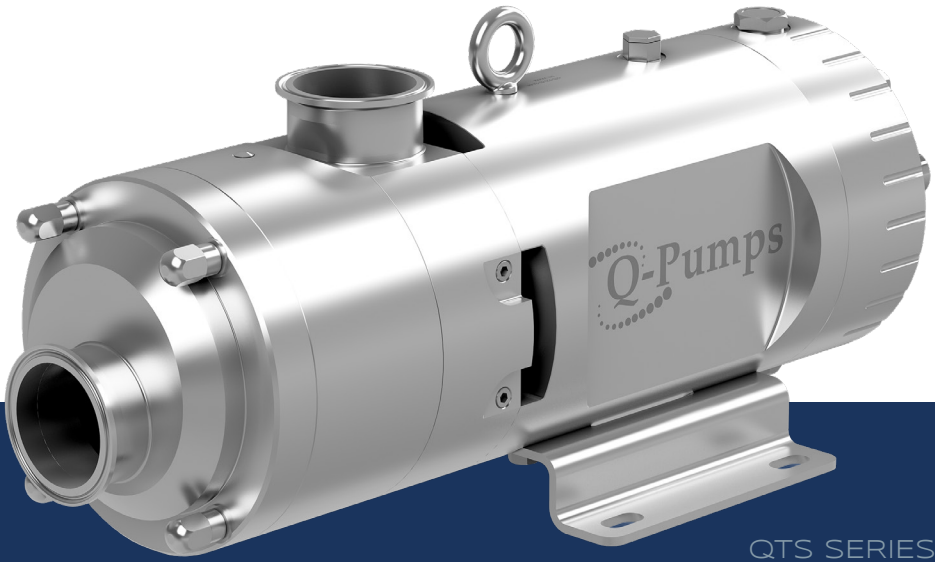
THE BEST PUMPING SOLUTIONS
FOR YOUR SANITARY APPLICATIONS

Q-Pumps



QTS SERIES

QTS

QP

QIS

QC

mixers

en.q-pumps.com

REFERENCE DATA

	Q FLOW	μ VISCOSITY	P PRESSURE	T TEMPERATURE
QTS	850 gpm / 3218 lpm	up to 1 000 000 cP	362 psi / 25 bar 836 ft / 255 m	120 ºC / 248 ºF
QP	452 gpm/ 1711 lpm	up to 1 000 000 cP	500 psi / 34.5 bar 1155 ft / 352 m	150 ºC / 302 ºF
QIS	1200 gpm / 4542 lpm	up to 600 cP	130 psi / 9 bar 300 ft / 91 m	150 ºC / 302 ºF
QC	1200 gpm / 4542 lpm	up to 600 cP	130 psi / 9 bar 300 ft / 91 m	120 ºC / 248 ºF
MIXERS	420 gpm / 1590 lpm	up to 600 cP	85 psi / 5.85 bar 196 ft / 60 m	120 ºC / 248 ºF
QDU	60 gpm / 227 lpm	up to 1 000 000 cP	300 psi / 21 bar 693 ft / 211 m	120 ºC / 248 ºF

The technical data shown here is for commercial reference.
This infomation may change according to the application.

ABOUT US

Since 1997, Q-Pumps has been dedicated to the development and manufacturing of sanitary pumping equipment in order to provide the best solutions for the food, beverage, cosmetic and pharmaceutical industries.

We serve applications in more than 40 countries, with the perfect combination of technology and a highly skilled team of experts, with whom we are able to exceed the expectations of our costumers requirements around the world.

MATERIALS

All our products are built in Stainless Steel Series 300. The parts that have contact with the pumped product are 316L and the rest 304. In this way we guarantee the quality and durability of our products.

SPECIAL REQUEST

We manufacture pumps under any customer specification. From a special type of connection in the suction and discharge to different surface finishes.

Currently we offer in all our pump lines different port types like Sanitary Clamp, Bevel Seat, NPT, Flanged, SMS, DIN, etc.

The standard surface finish of the pumps is a maximum of 32 µin Ra. Additionally they can be sandblasted or electropolished upon request.

SPARE PARTS

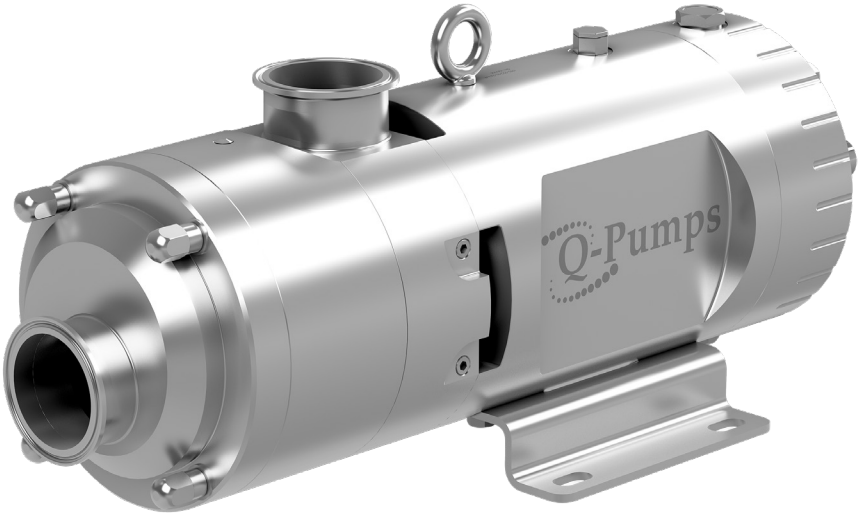
We offer spare parts compatible with many of the major brands on the market.

QTS SERIES
HIGH END TWIN SCREW TECHNOLOGY

Q-Pumps

Q	850 gpm / 3218 lpm	μ	up to 1 000 000 cP	P	362 psi / 25 bar 836 ft / 255 m	T	120 °C 248 °F

CHARACTERISTICS



- Gentle product pumping
- Superior handling of suspended solids
- Constant flow, free of pulsations
- Process and CIP with the same equipment
- Bidirectional
- Ideal for abrasive products

APPLICATIONS

DIFFERENT SIZES

QTS-400
Suction / Discharge:
4”, 6”
100, 150 mm

QTS-300
Suction / Discharge:
3”, 4”
80, 100 mm

QTS-100
Suction / Discharge:
1.5”, 2”
40, 50 mm

QTS-350
Suction:
4”, 6”
100, 150 mm

Discharge:
3”, 4”
80, 100 mm

QTS-200
Suction / Discharge:
2”, 2.5”, 3”
50, 65, 80 mm

Dosing Pump
QTS-025
Suction / Discharge:
1/2”,3/4”,1”
15, 20, 25 mm

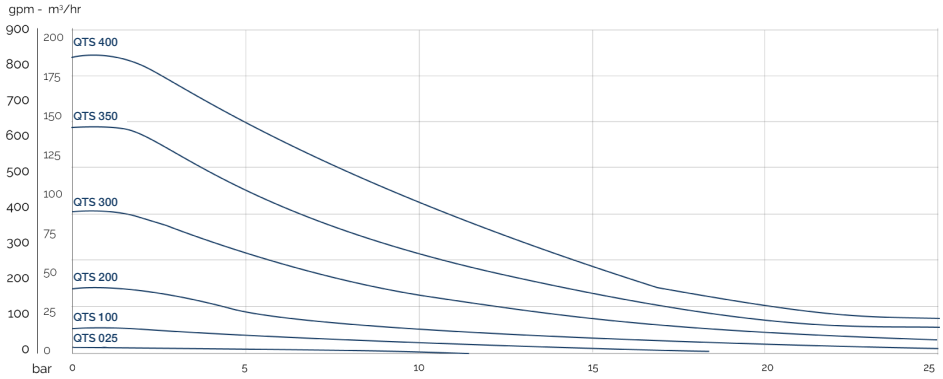
* Ideal for dosing or low flow applications

RECTANGULAR INLET

NEW PRODUCT

- Ideal for pasty products
- Management of high viscocities (100 000 to 1 000 000 cP)
- Ideal for products with high air or gas content
- Ideal for applications with low NPSH
- CIP capable

CAPACITY

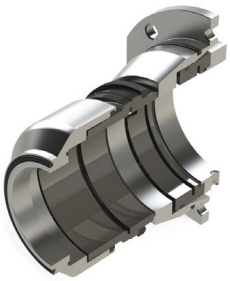


* QTS Curves for reference

PERFORMANCE

	Maximum Capacity				Port Sizes		Maximum Differential pressure	Viscosity	Temperature
	gpm		lpm						
	Process Flow	CIP Flow	Process Flow	CIP Flow	in	DN mm			
QTS 025	8	16	30	60	1/2",3/4",1"	15, 20, 25	150 psi/10bar	1 000 000 cP	248 °F (120°C)
QTS 100	35	70	132	265	1.5"/2"	40, 50	260 psi/18bar		
QTS 200	93	185	352	700	2",2.5",3"	50, 65, 80	360 psi/25 bar		
QTS 300	223	405	844	1533	3",4"	80, 100			
QTS 350	399	642	1510	2430	3",4",6"	80, 100, 150			
QTS 400	570	850	2158	3218	4",6"	100, 150			

AVAILABLE SEALS

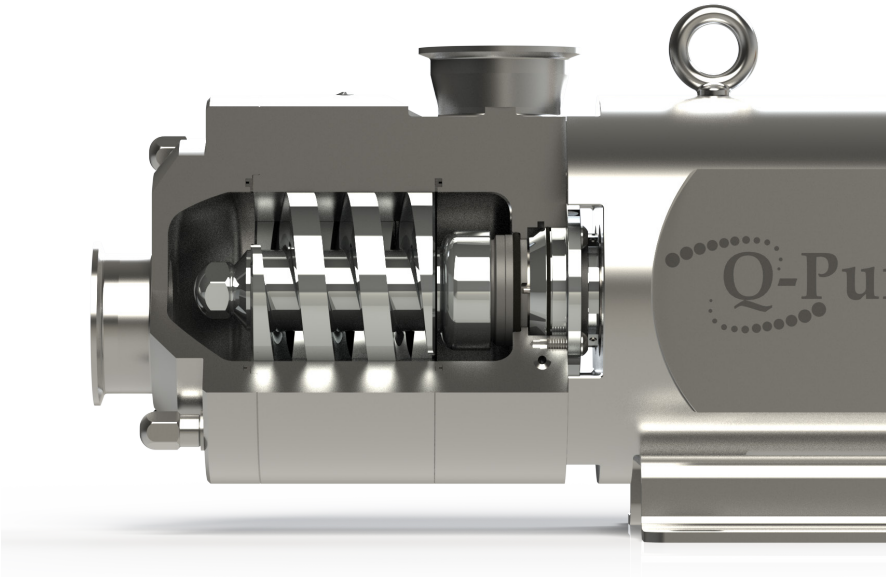


Mechanical
(Single & Double)

O-Ring
(Single & Double)

Lip Seal

ADVANTAGES



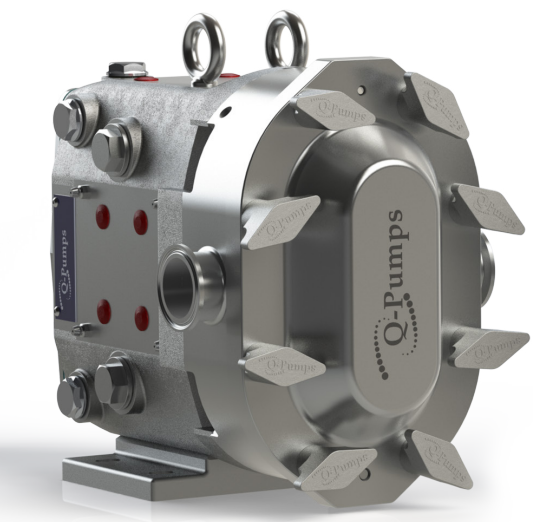
- Built in 100% Stainless Steel
- Speeds up to 3500 rpm
- No dead-zones and 100% drainable
- Wet parts in SS 316L
- Easy assembly
- 32 µin (0.8 µm) Ra maximum surface finish

With different screw options for solid handling

QP SERIES
CIRCUMFERENTIAL PISTON PUMPS

Q-Pumps

Q	452 gpm / 1711 lpm	μ	up to 1 000 000 cP	P	500 psi / 34.5 bar 1155 ft / 352 m	T	150 °C 302 °F



CHARACTERISTICS

- Ideal for high pressures with low viscosity products
- Interchangeable with other circumferential piston pumps
- Stronger shafts made on 17-4 PH
- Stainless steel bearing housing
- Helical gears for extended service life and lower noise
- Diferent options of mechanical seals, single or double
- Bearing housing designed to be mounted in four positions
- Alloy 88 Rotors for tight clearances
- Cover and housing made of 316L stainless steel
- 32 µin (0.8 µm) Ra maximum surface finish

APPLICATIONS

QP1 PUMP PERFORMANCE

Model QP1	Nominal Capacity		Displacement		Maximum Differential Pressure		Standard Port Size		Optional Port Size		Maximum Speed	Temperature Range	
	gpm	lpm	Gal/Rev	L/Rev	psi	bar	in	DN mm	in	DN mm	rpm	°F	°C
6	7	24.8	0.0082	0.031	200	13.8	1	25	1 ½"	40	800	-40° a 300°	-40° a 149°
15	10	37.6	0.0142	0.054	200	13.8	1 ½"	40	-	-	700		
18	17	65.9	0.029	0.110	200	13.8	1 ½"	40	2"	50	600		
30	36	136.6	0.060	0.227	200	13.8	1 ½"	40	2"	50	600		
40	46	172.6	0.076	0.228	150	10.3	2"	50	2 ½"	65	600		
60	92	347.5	0.153	0.579	200	13.8	2 ½"	65	3"	80	600		
130	152	576.8	0.254	0.961	200	13.8	3"	80	-	-	600		
220	313	1185.5	0.522	1.976	200	13.8	4"	100	-	-	600		
320	452	1712.3	0.754	2.854	200	13.8	6"	150	-	-	600		

Rectangular Inlet Option

	Nominal Capacity		Displacement		Maximum Differential Pressure		Rectangular Inlet (WxL)		Discharge Port Size		Maximum Speed	Temperature Range	
	gpm	lpm	Gal/Rev	L/Rev	psi	bar	in	mm	in	DN mm	rpm	°F	°C
34	24	90.8	0.060	0.227	200	13.8	1.75 x 6.75	44 x 171	2"	50	400	-40° a 300°	-40° a 149°
64	61	231.6	0.153	0.579	200	13.8	2.24 x 8.82	57 x 224	2 ½" (3")	65 (80)	400		
134	102	384.6	0.254	0.961	200	13.8	2.97 x 9.25	75 x 235	3"	80	400		
224	208	788.8	0.521	1.972	200	13.8	3.78 x 11	98 x 279	4"	100	400		
324	301	1139.2	0.754	2.854	200	13.8	5.00 x 17.38	127 x 441	6"	150	400		

QP2 PUMP PERFORMANCE

Model QP2	Nominal Capacity		Displacement		Maximum Differential Pressure		Standard Port Size		Optional Port Size		Maximum Speed	Temperature Range	
	gpm	lpm	Gal/Rev	L/Rev	psi	bar	in	DN mm	in	DN mm	rpm	°F	°C
6	8	1.0	0.0082	0.031	300	20.7	1	25	1 ½"	40	1000	-40° a 300°	-40° a 149°
15	11	43.0	0.0142	0.054	250	17.2	1 ½"	40	-	-	800		
18	20	76.8	0.029	0.110	200	13.8	1 ½"	40	2"	50	700		
30	36	136.3	0.060	0.227	250	17.2	1 ½"	40	2"	50	600		
40	46	172.6	0.076	0.288	150	10.3	2"	50	2 ½"	65	600		
45	59	222.6	0.098	0.371	450	31.0	2"	50	-	-	600		
60	92	347.5	0.153	0.579	300	20.7	2 ½"	65	3"	80	600		
130	152	576.8	0.254	0.961	200	13.8	3"	80	-	-	600		
180	228	863.0	0.380	1.438	450	31.0	3"	80	-	-	600		
210	301	1140.0	0.502	1.900	500	34.5	4"	100	-	-	600		
220	313	1185.5	0.522	1.976	300	20.7	4"	100	-	-	600		
320	452	1712.3	0.754	2.854	300	20.7	6"	150	-	-	600		

Rectangular Inlet Option

	Nominal Capacity		Displacement		Maximum Differential Pressure		Rectangular Inlet (WxL)		Discharge Port Size		Maximum Speed	Temperature Range	
	gpm	lpm	Gal/Rev	L/Rev	psi	bar	in	mm	in	DN mm	rpm	°F	°C
34	24.0	90.8	0.060	0.227	250	17.2	1.81 x 6.84	44 x 174	2"	50	400	-40° a 300°	-40° a 149°
64	61.2	231.6	0.153	0.579	300	20.7	2.44 x 9.0	62 x 229	2 ½" (3")	65 (80)	400		
134	101.6	384.6	0.254	0.961	200	13.8	3.19 x 9.38	81 x 238	3"	80	400		
224	208	788.8	0.521	1.972	300	20.7	4.06 x 11.25	103 x 2786	4"	100	400		
324	301	1517.7	0.752	2.847	300	20.7	4.25 x 12.7	108 x 322.5	6"	150	400		

CROSS REFERENCE

Q-Pumps	Other Brands
QP1	Universal 1/ZP1 / TRA 10
QP2	Universal 2 /ZP2 / TRA 20

To see the compatibility and equivalences with other brands, visit our website in the Cross Reference section:
http://www.q-pumps.com/cross_reference.php

QIS SERIES

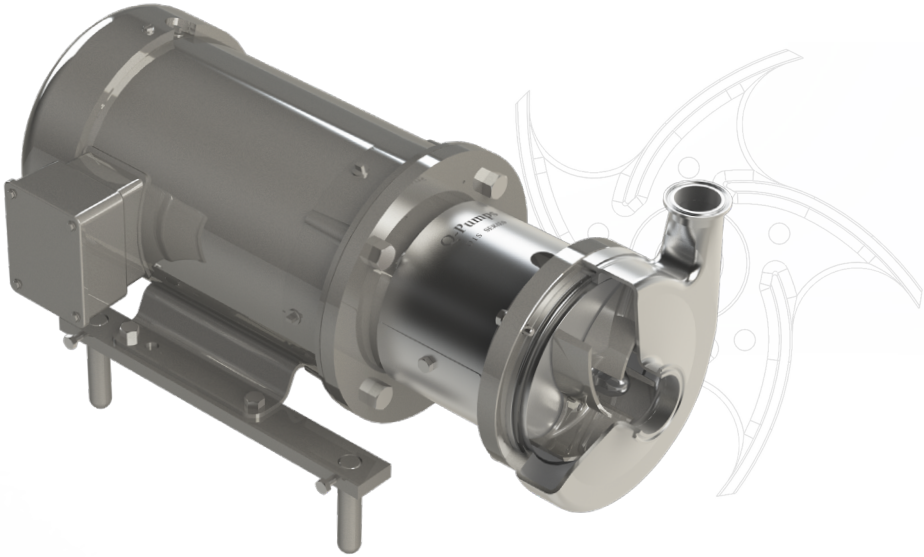
NEW INTERNAL SEAL CENTRIFUGAL PUMP

NEW!

Q 1200 gpm / 4542 lpm	μ up to 600 cP	P 130 psi / 9 bar 300 ft / 91m	T 150 °C 302 °F

New sanitary centrifugal pump with an **Internal seal**, ideal for sanitary as well as non-sanitary applications, perfect for the food, beverage and pharmaceutical industries.

Completely redisigned for greater efficiency and hygiene.



CHARACTERISTICS

- Designed to comply with 3A and EHEDG Standards
- Double mechanical seal option available
- New backplate design
- Improved hygenic design
- Wet parts in Stainless Steel 316L
- Electropolished sufarce finish
- Different port options
- Volute casing and semi open impeller for greater efficiency
- Fully drainable with discharge port at 90° or with drain port option
- Premium Efficiency Motor

APPLICATIONS

QC SERIES

EASSY ASSEMBLY AND HIGH-FLOW CENTRIFUGAL PUMP

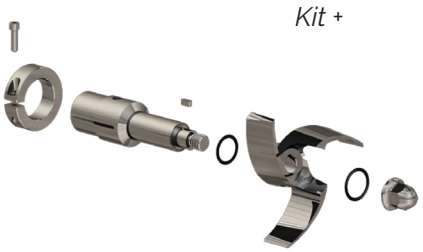
Q 1200 gpm / 4542 lpm	μ up to 600 cP	P 130 psi / 9 bar 300 ft / 91 m	T 120 °C 248 °F

CHARACTERISTICS

- Wet parts in Stainless Steel 316L
- NEMA and IEC standards available
- Open impeller
- 32 μin (.8 μm) Ra maximum surface finish
- Volute casing with suction in the center
- Brackets and legs in stainless steel

QC+ SERIES

- Easy assembly
- Gives better support when the stub shaft is mounted with the collar (vs other brands)
- Rotor fastened with key and sanitary cap nut
- Any C Series can be converted to a QC + with a "Kit +"



APPLICATIONS

MIXERS SERIES - QIM

IN-LINE MIXERS

Q	420 gpm 1590 lpm	μ	up to 600 cP	P	85 psi / 5.85 bar 196 ft / 60 m	T	120 °C 248 °F

THE MOST EFFICIENT AND VERSATILE IN-LINE MIXER IN THE MARKET

CHARACTERISTICS

- Competitive price
- Interchangeable backplates for each application
- Easy installation and operation
- Front loading internal seal to facilitate maintenance

AVAILABLE BACKPLATES

Straight radial slots

For powder mixing and lump disintegration

Type 1 (1/8")
Type 2 (3/16")
Type 3 (1/4")

Inclined eccentric grooves

For crushing hard solids

Type 7 (1/8")
Type 8 (3/16")
Type 9 (1/4")

Inclined radial slots

For hard solids cruching

Type 4 (1/8")
Type 5 (3/16")
Type 6 (1/4")

Small radial holes

For emulsification

Type 10 (1/8")
Type 11 (3/16")
Type 12 (1/4")

Big radial holes

For chopping soft solids into smaller particles

Type 13 (3/8")
Type 14 (5/8")
Type 15 (7/8")

Sizes:

- QIM+214
- QIM+316,
- QIM+318
- QIM+428

MIXERS SERIES - QDB
DRY BLENDERS

Q 420 gpm / 1590 lpm	μ up to 600 cP	P 80 psi / 5.5 bar 182 ft / 55 m	T 120 °C 248 °F

POWDER RATE	
214	2,580 kg/hr
316	3,300 kg/hr
318	4,860 kg/hr
428	18,000 kg/hr

CHARACTERISTICS

The Q-Pumps **Dry Blender QDB**, consists in an **In-line Mixer QIM** coupled to a table with a hopper and integrated valve for operator's convenience.

- Stainless Steel Hopper
- Front loading seal to facilitate maintenance
- Stainless steel table
- Wheels with brakes

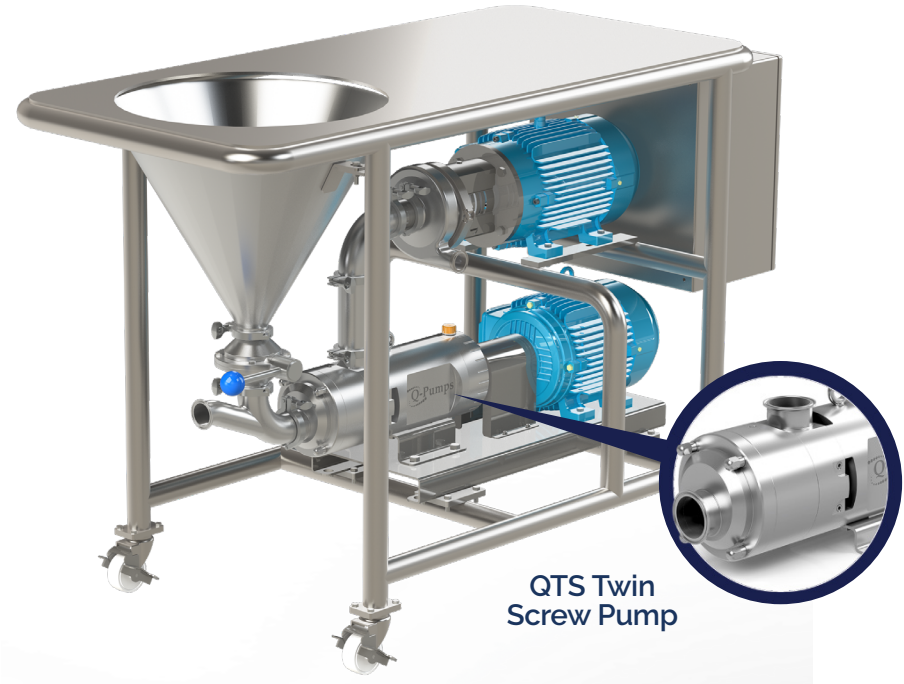
APPLICATIONS

- Homogenization
- Powder mixing
- Emulsification
- Adding flavors
- Disintegration of solids
- Dissolution

MIXERS SERIES - QVM

HIGH VISCOSITY MIXERS

Q 90 gpm / 340 lpm	μ up to 1 000 000 cP	P 85 psi /5.85 bar 196 ft / 60 m	T 120 °C 248 °F



The QTS pump creates the required suction for powders and liquids, making the mixing process inside the QIM pump faster and easier.

THE PERFECT MIXER FOR HIGH VISCOSITY PRODUCTS

APPLICATIONS

* Subject to fluid properties

QDU SERIES
DRUM UNLOADING SYSTEM

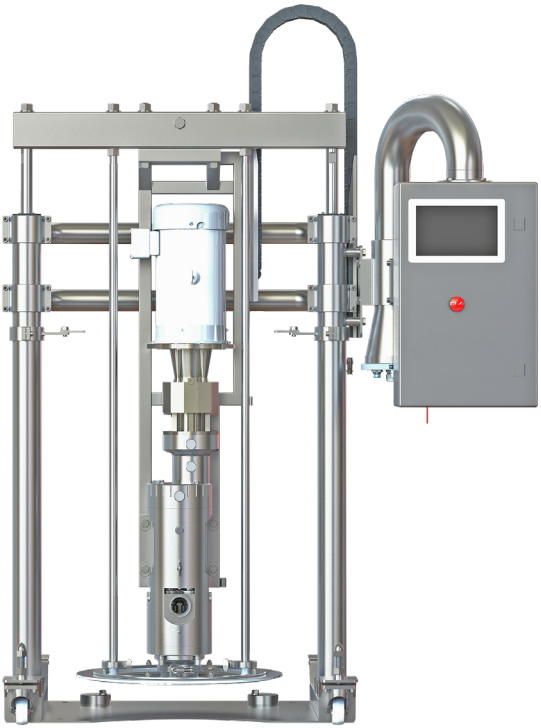
NEW!

Q 60 gpm / 227 lpm	μ up to 1 000 000 cP	P 300 psi /21 bar 693 ft / 211 m	T 120 °C 248 °F

QDU is the world's most advanced Drum Unloading System, delivering the fastest transfer rates, maximum product recovery, simple cleaning and ease of use.

CHARACTERISTICS

- Energy efficient electric motor drive
- Unload rate up to 60 gpm (depending on the viscosity)
- 3-A and EHEDG certified QTS Twin Screw Pump
- Electric drum Unloader with QTS pump provides a substantial increase in efficiency over air-operated pumps
- Easy to use touch screen control
- Quieter operation from 60 dB to 75 dB
- Variable speed drive enables full speed control for both product and CIP duties.



APPLICATIONS

Q-Pumps

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www.qpumps.com

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QTS

QP

QIS

QC

mixers