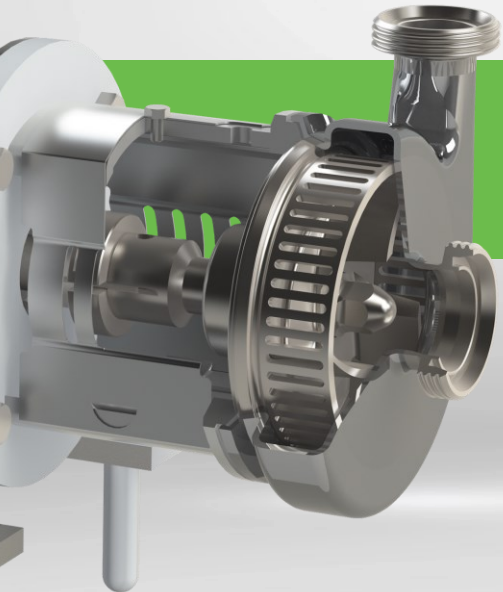




QIM/QDB SERIES



Characteristics

- InLine centrifugal mixers with radial flow.
- The design of the QIM Series is based on the SIS+ Series.



Characteristics

- It has a semi-open impeller designed to keep pressurized the mechanical seal and achieve a better lubrication.
- The backplate has a mesh in the outside diameter which, in addition with the impeller blades, creates a shear effect when turning at high speed without touching maintaining a minimum separation.
- There are many different types of backplates to solve any kind of applications.



Characteristics

- Close coupled to 2 pole standard motors, running at high speeds:

3500 rpm @ 60 Hz

2900 rpm @ 50 Hz

- At higher speed of rotation it is achieved a higher shear speed in the periphery of the impeller. Using a variable frequency drive it can run at higher speeds to solve the specific application (to be defined experimentally).



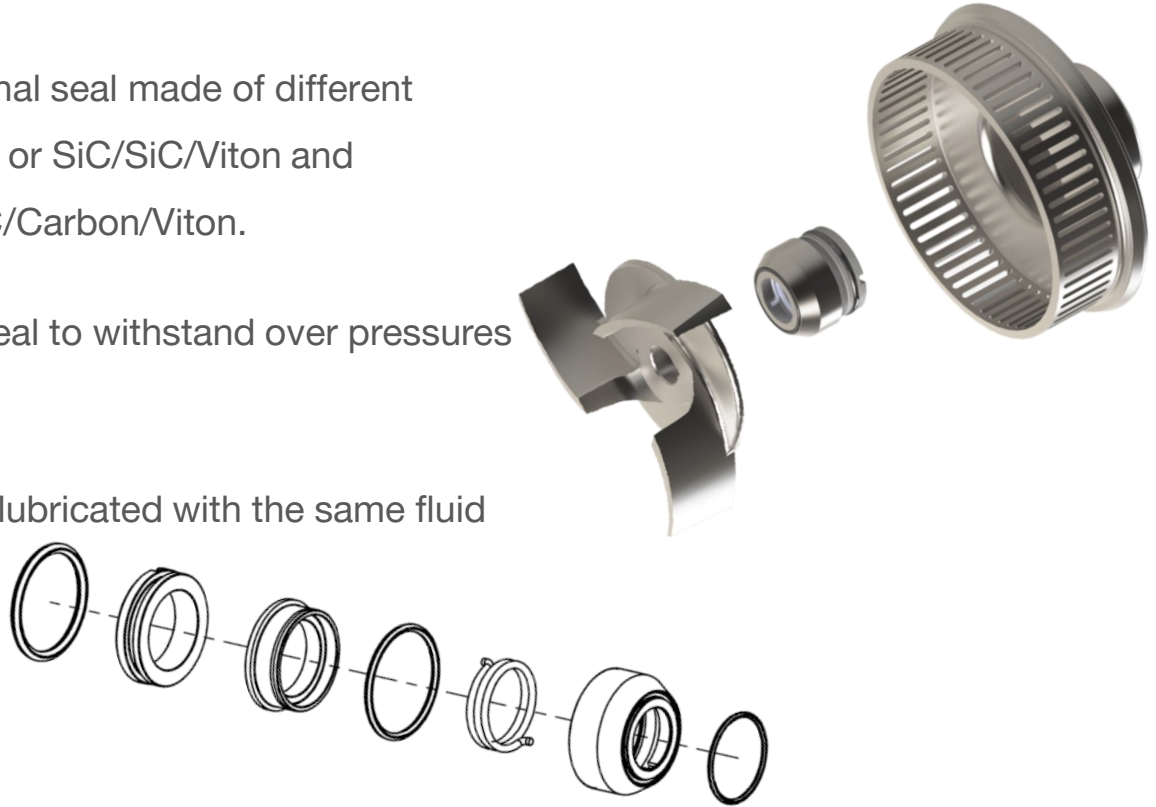
Characteristics

- Hygienic design (COP). It is currently in the process of certification under sanitary standards 3-A (36-01): 3-A® Sanitary Standards for Inline Rotor-Stator Mixers, Number 36-01.
- Built in SS 316L with surface finish on all surfaces in contact with the fluid 32 Ra maximum.
- Completely drainable with the discharge in horizontal position.
- Use of an o-ring to achieve a better seal against the casing.



Mechanical seal

- Single mechanical internal seal made of different materials: SiC/SiC/EPDM or SiC/SiC/Viton and SiC/Carbon/EPDM or SiC/Carbon/Viton.
- Balanced mechanical seal to withstand over pressures and water hammer.
- The internal seal is self-lubricated with the same fluid that is pumped.



Available covers



Straight radial grooves

For powder integration and lumps elimination

Type 1 (1/8")

Type 2 (3/16")

Type 3 (1/4")



Inclined radial grooves

For crushing hard solids

Type 4 (1/8")

Type 5 (3/16")

Type 6 (1/4")

Type 7 (1/8") Eccentric grooves

Type 8 (3/16") Eccentric grooves

Type 9 (1/4") Eccentric grooves



Small radial holes

To make emulsions

Type 10 (1/8 ")

Type 11 (3/16 ")

Type 12 (1/4 ")



Large radial holes

To cut soft solids into smaller particles

Type 13 (3/8 ")

Type 14 (5/8 ")

Type 15 (7/8 ")



Dry Blender + QIM



- QIM Series assembled to a table, Y-elbow, valve and hopper.
- SS 316L construction material for all elements in direct contact with the fluid and SS 304 for the rest of the elements without direct contact.
- Ball valves to facilitate the passage of solids through the hopper.
- Available sizes: QDB-214, QDB-316, QDB-318 and QDB-428

Applications

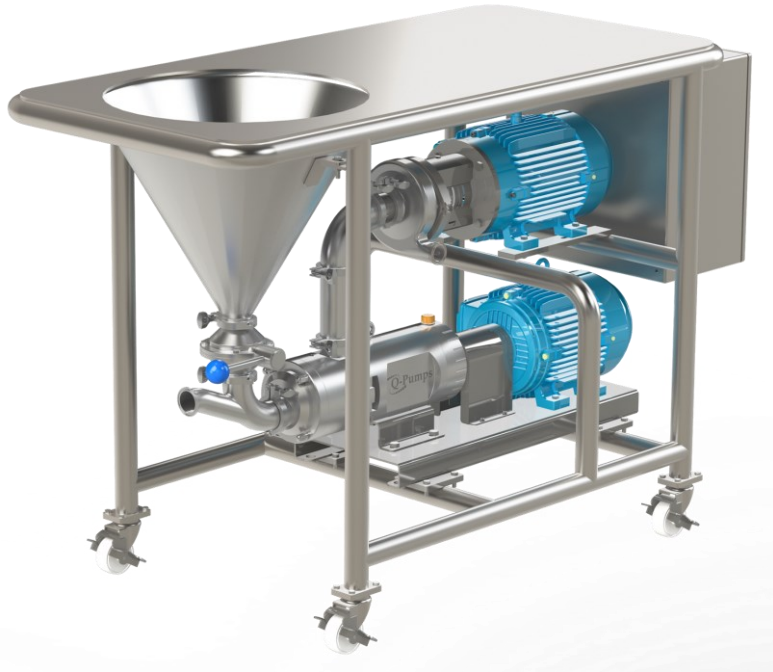
- Homogenization. Ideal to mix fine powders with liquids (sugar, flour, moisturize milk) as well as to eliminate lumps. The use of radial grooves is recommended.
- Emulsification. Oils, creams, colorants, aromas, mayonnaises. It is recommended to use small radial holes.
- Crushing of solids. Mixed with liquids, fruits, chilies, beans. It is recommended to use large radial holes.



Advantages

- Sizes available:
 - QIM/QDB-214, 2" x 1.5"
 - QIM/QDB-316, 2.5" x 1.5"
 - QIM/QDB-318, 3" x 1.5"
 - QIM/QDB-428, 4" x 2"
- Excellent performance Mixing and good suction and pumping capacity:
 - QDB-214 swallows 50 kg of sugar in 70 seconds / 5 hp
 - QDB-316 swallows 50 kg of sugar in 55 seconds / 15 hp
 - QDB-318 swallows 50 kg of sugar in 37 seconds / 30 and 40 hp
 - QDB-428 swallows 50 kg of sugar in 5 seconds / 40 and 50 hp
- Easy maintenance.
- Competitive cost compared to other brands equipments.

VISCO MIXER

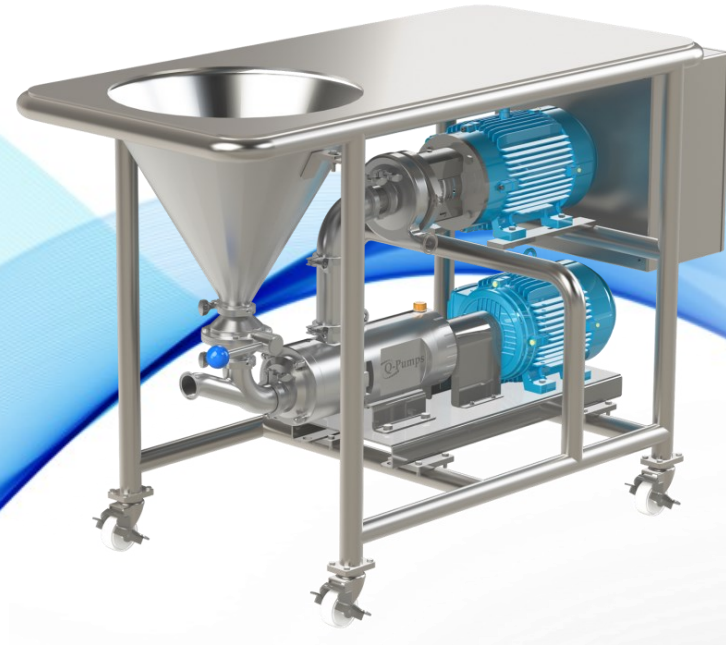


- In these arrangements a QTS pump is used due to the high viscosity of the mixture or the discharge pressure required by the application.
- The QTS pump has enough suction to swallow powders and liquids (even viscous fluids) to force them into the QIM mixer, also the QTS pump is responsible for supplying the required pressure.
- The use of one or another arrangement depends on the application.

Models:

QTS100 + QDB214

QTS200 + QDB316



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