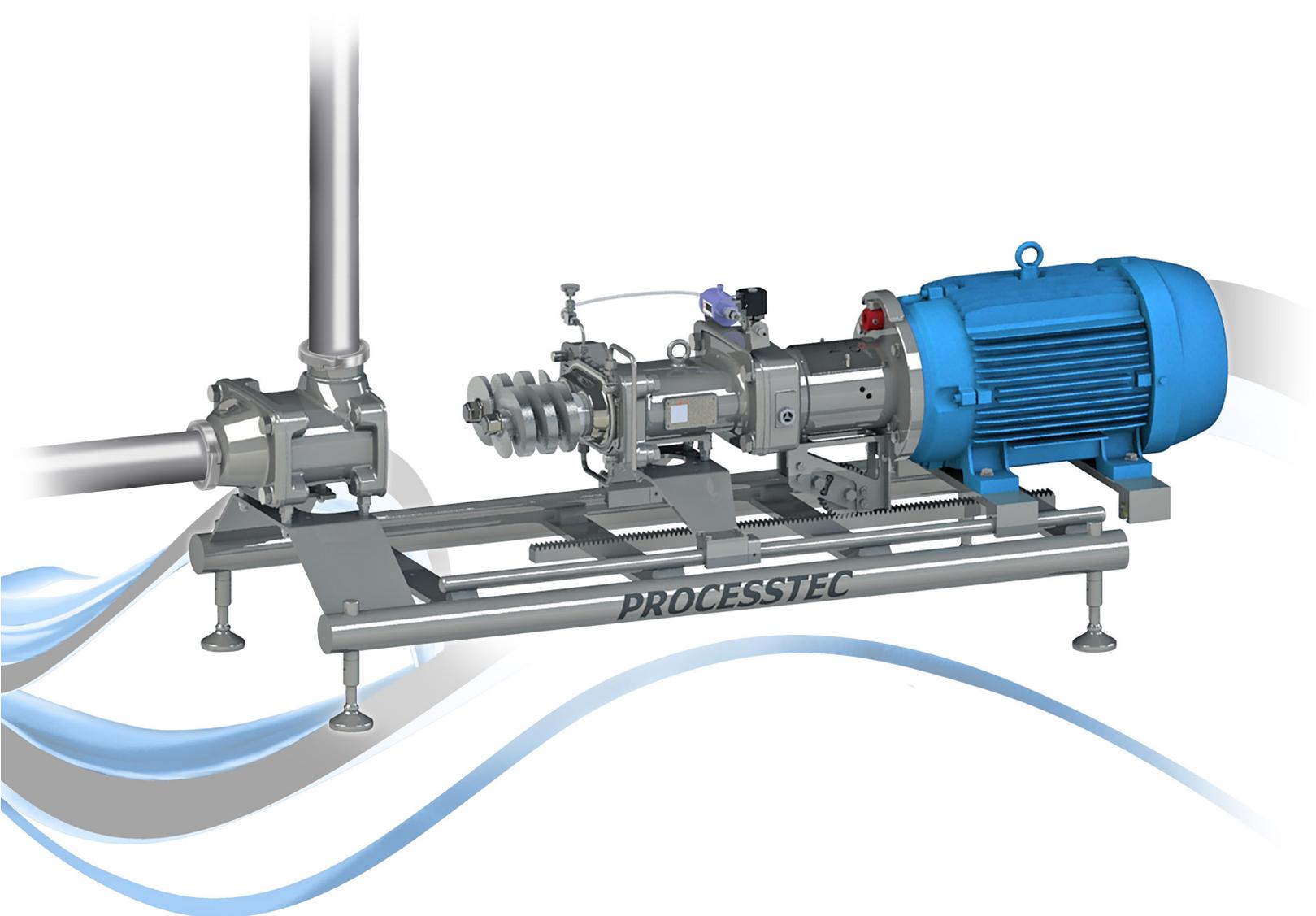


ViscoTwin G10

pumps everything • better



The ViscoTwin G10

With the development of the **ViscoTwin G10**, particular emphasis was placed on gentle and efficient product conveyance. Pump housing inlet and outlet are designed without sharp edges to convey chunky materials gently into the spindles, and out of the displacement chamber into the pressure pipe without pinch points.

The displacement chamber around the spindles is 100% enclosed. This results in gentler conveyance with higher throughput and an improved NPSHr. Thanks to reduced backflow, the pump operates smooth and with less pulsation compared with previous models, especially when handling watery media.

A QR code on the pump nameplate provides access to operating instructions and tailored parts lists in English. Country-specific operating instructions are available online.

The pump curves are available 24/7 through an online selection program, allowing engineers to calculate the most suitable **ViscoTwin G10** pump with the appropriate motor, based on entered application data.

Significant attention was given to backward compatibility with the previous G7 and G8 models during pump development. Existing components were reused wherever possible.



VT70



VT104



VT130

Products

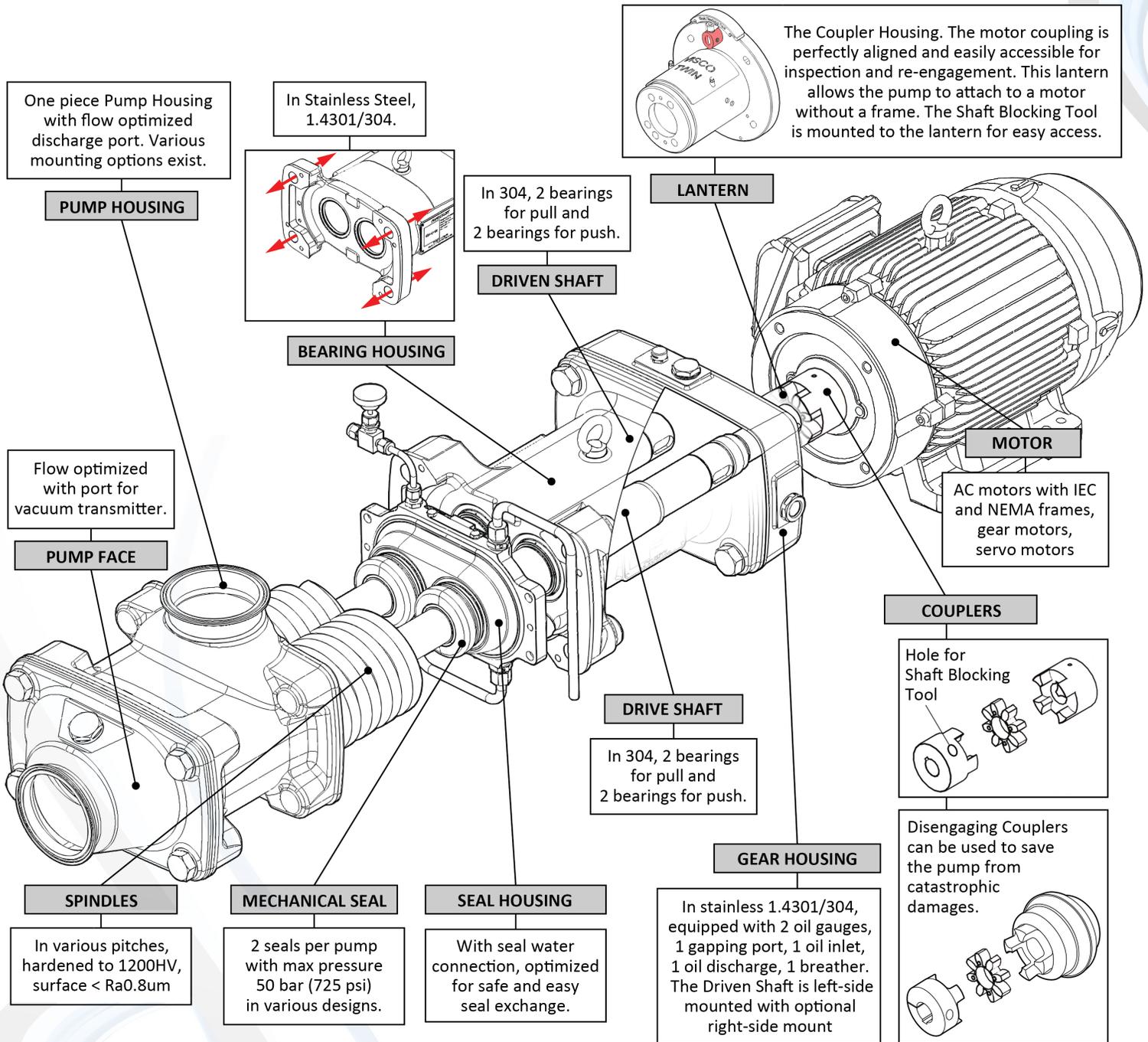
- All pumpable products in the food industry, ranging from water and CIP solutions to ready meals with chunky ingredients such as macaroni and spaghetti. The pump is excellently suited for all fruit juice concentrates, coffee extracts, oils, fats, liquid sugars, molasses, sauces of all kinds including cheese sauce, cheese curds, purees, tomato paste, pulps, pudding, mayonnaise, butter, nut butter, margarine, mashed potatoes, yeast, dairy waste, juices, meats, sausages, and offal.
- All pumpable products in the pet food industry.
- All pumpable products for the cosmetics, oil, chemical, paint, varnish, and paper industries that are non-abrasive or lightly abrasive.



Applications

- Transfer pump for various media, including CIP return pump. No bypass is necessary. Valves, piping work, and dead spaces are avoided, saving space.
 - Transfer pump for hygienic media with sensitive particles, ranging from low to high viscosities, with foaming properties, and varying input and output pressures.
 - Discharge pump from vacuum vessels and vacuum columns such as evaporators and flash tanks.
 - Use as a dosing pump for continuous processes such as filling systems with the help of servo motors.
 - Product-friendly replacement of the flash valve between steam injector and vacuum chamber.
 - Utilized for drawing dry goods into a liquid stream due to excellent suction properties.
 - Use as a sterilization pump since the sealing surfaces in the outlet chamber are evenly compressed. Steam and condensate can penetrate to the shaft surfaces via the sterilization sleeves for thorough pump sterilization.
 - The **ViscoTwin G10** can be designed to operate bidirectional for processes below 20 bar.
 - The **ViscoTwin G10** can be commissioned as a high-pressure (45 bar) and high-temperature pump (180°C).
 - The **ViscoTwin G10** is optimized to gently convey shear-sensitive media with chunky goods.
-

ViscoTwin G10 Overview

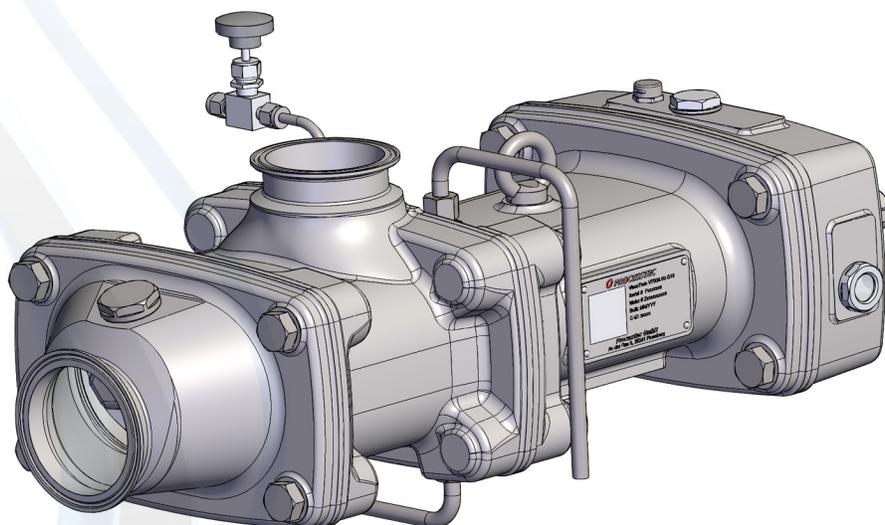


ViscoTwin G10 Performance Data

The **ViscoTwin G10** can handle a wide range of applications in terms of flow volume, pumped media, viscosity, inlet pressure, outlet pressure, temperature and also with abrasive media.

The **ViscoTwin G10** pump is designed to pump sensitive products with and without particulates in an extremely gentle, hygienic and low-pulsation manner.

Properties	ViscoTwin 70	ViscoTwin 104	ViscoTwin 130
Standard Pressure max	25 bar (360 psi)	25 bar (360 psi)	25 bar (360 psi)
High Pressure max max	45 bar (650 psi)	45 bar (650 psi)	45 bar (650 psi)
Shaft RPM max	4000 rpm	3600 rpm	3000 rpm
Standard Temp max	130°C (266°F)	130°C (266°F)	130°C (266°F)
High Temp max	180°C (356°F)	180°C (356°F)	180C (356°F)
Viscosity	0.5 bis 1 Mio mPas	0.5 bis 1 Mio mPas	0.5-1 Mio mPas
Particulate Size S-Spindle	21mm	26mm	32mm
Pump Face max	DN80 / OD3"	DN100 / OD4"	DN150 / OD6"
Pump Face std	DN80 / OD3"	DN80 / OD3"	DN100 / OD4"
Pump Housing	DN65 / OD2.5"	DN80 / OD3"	DN100 / OD4"
Q: 1mPas	/ 1bar	(L)	120 m3/h / 528GPM
Q: 500mPas	/ 1bar	(S)	93 m3/h / 409GPM
Q: 10.000 mPas	/ 1 bar	(S)	93 m3/h / 409GPM
Q: 500 mPas	/ 25 bar	(H)	60 m3/h / 264GPM
Q: 10.000 mPas / 25 bar	(H)	38 m3/h / 167GPM	62 m3/h / 273GPM



ViscoTwin G10 Pump Face

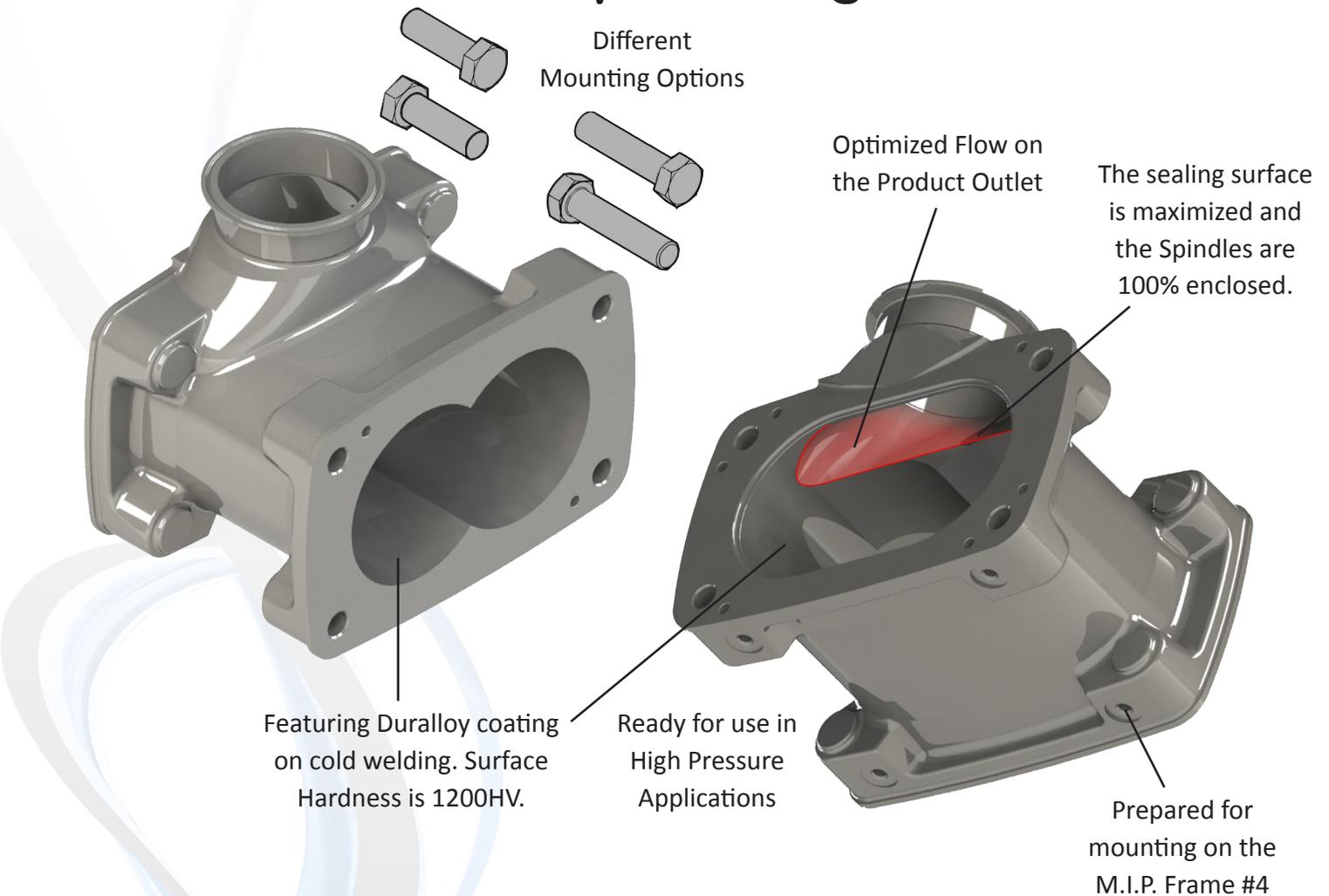


The NPSH-Optimized Pump Face was designed so that the product flows gently and efficiently through the intake port and into the Spindles. **Advantages:**

- Minimizes Cavitation
- Sensitive pieces of product remain intact
- The inlet pressure is measured directly at the pump inlet

The NPSH-Optimized Pump Face is equipped with Tri-Clamp connections as standard. Additional connection options are available.

The flow optimized and versatile ViscoTwin G10 Pump Housing



You are Safe!

In case foreign matter entered the pump and it needs to be inspected, repaired or the shafts tuned, the **ViscoTwin G10** program offers the necessary features built in for a safe and fast repair.

The **Maintenance In Place** frame enables safe and quick access to the inside of the pump head where the damage would occur. The time consuming process of removing the supply and discharge pipes with all associated valves and sensors becomes obsolete, and the associated danger of property damage is eliminated. A trained service technician can inspect and execute standard repairs at the **ViscoTwin G10** in place within 30 minutes.



In case a piece of foreign matter enters the pump and blocks the spindles, the dis-engaging coupling protects the pump head from severe damage.



With the gapping port the service technician can tune the shafts in 10 minutes. No pump parts have to be disassembled and no gear oil needs to be released.



With the supplied shaft blocking tool, the service technician can remove and re-torque the spindle bolts very safe and without hassle.



The exchange of the mechanical seals in a **ViscoTwin G10** is safe, fast and secure. All pins and alignment plates are eliminated. The cartridge design makes it a simple one-piece exchange process.



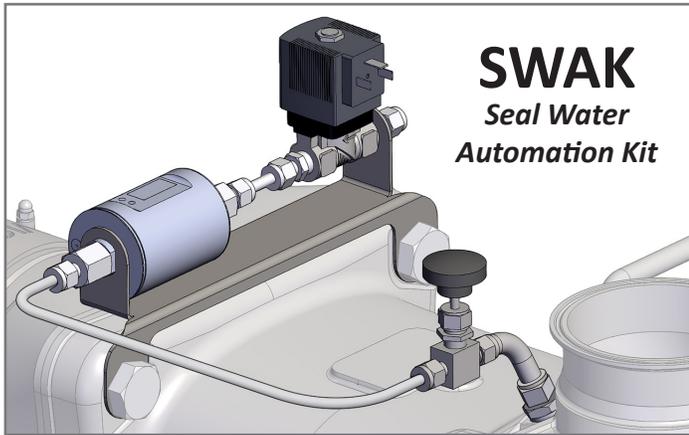
Available Spindles

All spindles are available in 316L, Hardened to 1200 HV, with a surface of Ra0.8um (asymmetric profile).

<ul style="list-style-type: none"> • VT70 pitch L: 58mm (2-coil) • VT70 pitch S: 43mm (1-coil) • VT70 pitch H: 29mm (1-coil) • VT70 pitch E: 22mm (1-coil) 	<div style="display: flex; justify-content: space-around; text-align: center;"> <div data-bbox="690 346 812 577"> <p>E</p>  <p>22mm</p> </div> <div data-bbox="852 346 974 577"> <p>H</p>  <p>29mm</p> </div> <div data-bbox="1031 346 1153 577"> <p>S</p>  <p>43mm</p> </div> </div>	<p>ViscoTwin 70</p>
<ul style="list-style-type: none"> • VT104 pitch L: 71mm (2-coil) • VT104 pitch S: 53mm (1-coil) • VT104 pitch H: 36mm (1-coil) • VT104 pitch E: 27mm (1-coil) 	<div style="display: flex; justify-content: space-around; text-align: center;"> <div data-bbox="690 592 812 823"> <p>E</p>  <p>27mm</p> </div> <div data-bbox="852 592 974 823"> <p>H</p>  <p>36mm</p> </div> <div data-bbox="1031 592 1153 823"> <p>S</p>  <p>53mm</p> </div> </div>	<p>ViscoTwin 104</p>
<ul style="list-style-type: none"> • VT130 pitch L: 87mm (2-coil) • VT130 pitch S: 65mm (1-coil) • VT130 pitch H: 44mm (1-coil) • VT130 pitch E: 33mm (1-coil) 	<div style="display: flex; justify-content: space-around; text-align: center;"> <div data-bbox="690 837 812 1068"> <p>E</p>  <p>33mm</p> </div> <div data-bbox="852 837 974 1068"> <p>H</p>  <p>44mm</p> </div> <div data-bbox="1031 837 1153 1068"> <p>S</p>  <p>65mm</p> </div> </div>	<p>ViscoTwin 130</p>



- With Huhnseal AB in Sweden we designed **ViscoTwin G10** cartridge seals that are easy and reliable to install. All pins and bolts are now eliminated. The stators are positioned with “flats”. The seals are pressed in position by hand.
- With Dual Acting Mechanical Seals, the seal water is used to cool the drive and driven shafts via sterile sleeves.
 - Single Acting 25 bar (360 psi) SIC/SIC/FKM or EPDM
 - Single Acting 25 bar (360 psi) TC/Tckne/FKM or EPDM
 - Double Acting 25 bar (360 psi) SIC/SIC/FKM or EPDM
 - Double Acting 25 bar (360 psi) TC/Tckne/FKM or EPDM
 - Double Acting 45 bar (650 psi) TC/Tckne/V70SW
 - Special Editions (Outboard) upon request
- The installation of the **ViscoTwin G10** seals are much easier to exchange than previous models. It is also possible to upgrade VT104-G8 and VT130-G8 models to the G10 seals.

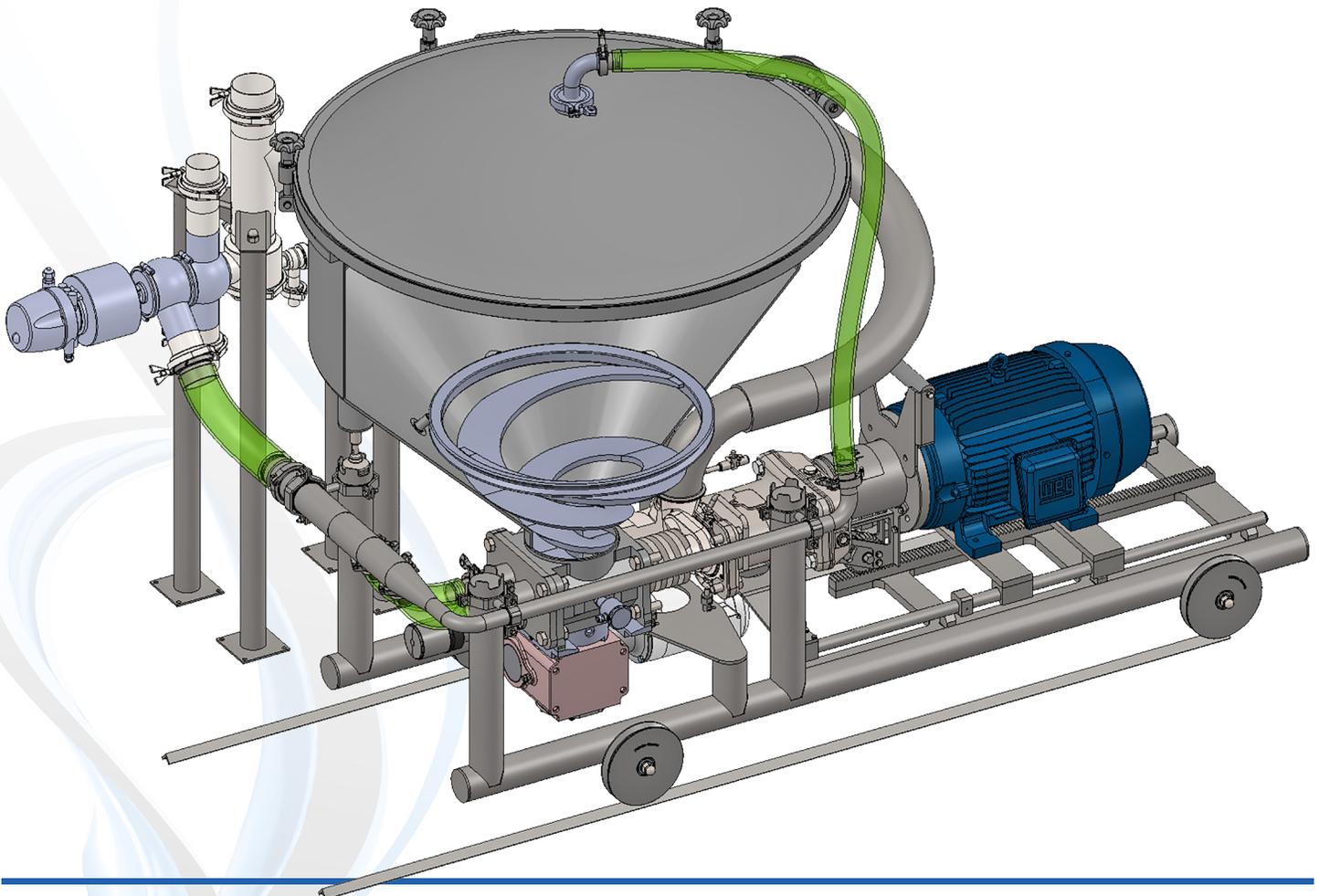


SWAK (Seal Water Automation Kit)

- The SWAK is mounted on the Bearing Housing with a custom mounting bracket. The entire unit is piped with 6mm pipes.
- The seal water is controlled using a solenoid valve or a pneumatic valve.
- A volumetric flow meter ensures that seal water is flowing during pump operation.

ViscoTwin Feedtank

- The **ViscoTwin Feedtank** is used for viscous product.
- The product is conveyed from the container walls to the pump inlet via a hollow auger.
- The unit is mounted directly on the pump housing and integrated into the CIP cleaning process.



Backwards compatibility of the ViscoTwin G10 pump parts

Description	ViscoTwin 70		ViscoTwin 104		ViscoTwin 130	
	G7	NG/G8	G7	NG/G8	G7	NG/G8
Model Series	G7	NG/G8	G7	NG/G8	G7	NG/G8
Spindles	+	+	+	+	+	+
Spindle Screws	+	+	+	+	+	+
Mechanical Seals	-	-	-	-	-	-
Elastomer Product Space	+	+	+	+	+	+
Elastomer Bearing Supports	-	-	-	+	-	+
Seal Housing	-	-	-	+	-	+
Pump Housing	-	-	-	+	-	+
Housing Screws	-	+	-	+	-	+
Drive shafts	-	-	-	-	+	+
Driven Shafts	-	-	-	-	+	+
Gears	-	-	-	+	-	+
Oil Sight Glass	+	+	+	+	+	+
Oil Drain Plug	+	+	+	+	+	+
Lantern	-	-	-	+	-	+
Motor Coupler	+	+	+	+	+	+

Convert pumps from G7/G8 to G10

Description	ViscoTwin 70		ViscoTwin 104		ViscoTwin 130	
	G7	NG/G8	G7	NG/G8	G7	NG/G8
Model Series	G7	NG/G8	G7	NG/G8	G7	NG/G8
Mechanical Seals	-	-	-	+	-	+
Pump Housing	-	-	-	+	-	+
Pump Cover	-	-	-	+	-	+
Seal Housing	-	-	-	+	-	+
Drive Shafts	-	-	-	+	+	+
Driven Shafts	-	-	-	+	+	+
Spindle Screws	+	+	+	+	+	+

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