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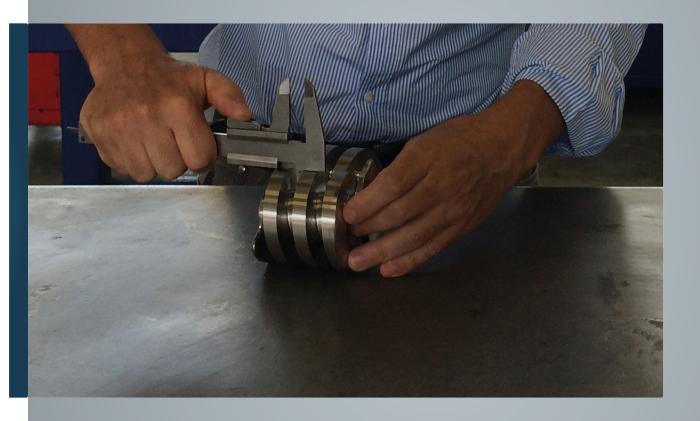


Executions:

[•] EHEDG

^{• 3}A

3P Prinz FMH Hygienic twin screw pumps are self-priming and reversible



3P PRINZ MANUFACTURES PUMPS THAT WORK THE WAY YOU WISH THEY WOULD

The PERA-PRINZ® FMH Screw Pumps are Rotating Positive Displacement Pumps, externally and internally supported. One or Two Pairs of Screws, which operate without being in contact with each other, ensure a constant flow, pulsation-free, together with a high suction lift capability with very low NPSH values.

MAIN ADVANTAGES

The Trim design is modular with a high degree of interchangeability of parts between their variants, inside the same Pump Series.

Each pump can be customized for a specific application allowing the customer to be served in an optimal way.

External supports and gears is supplied as a Standard.



EASY CLEANING

Compact Design and Dimensions, Easy Access for Maintenance. The Pump is suitable to CIP and SIP and can be used as a CIP Pump.

PULSATION FREE AND GENTLE MOVEMENT

Thanks to the absence of pulsations, the pumped product does not suffer of changes of volume, texture, aspect and properties. Since the Screws are contactless, the pumped product is not squeezed or smashed, so its phisical properties are mantained after it is pumped.





HIGH VISCOSITY PRODUCTS

Suitable to pump fluids with low, medium, high and very high viscosity, up to 1.000.000 cSt.

SUCTION PERFORMANCE

High Suction Lift Capability – generally from 7 to 8,5 meters (the pump NPSH being very low).





A gentle and hygienic production and an even more operating efficiency.

CLEAN

Fully cleanable in place (CIP) and Sterilisable in place. (SIP)

Cleaning-In-Place (CIP) and Sterilization-In-Place (SIP) are pumps procedures for cleaning and disinfecting without major disassembly and assembly work.

The FMH Twin Screw Pump can be used also as a CIP Pump, with the benefit of eliminating the need of another Pump dedicated only to CIP (and any eventual accessories that would be needed for that).



The Components of the PERA-PRINZ® Screw Pumps are machined with very accurate tolerances and with very high quality surface finishing, in order to reduce the clearance and minimize the leakages and backflow.

VERSATILITY

The PERA-PRINZ® Screw Pumps can also be used as Dosing Pumps and Metering Pumps, in particular applications in which the pressure and fluid viscosity are constant during the operation.

For Viscous Fluids, simply by changing the rotation speed, flow rates directly proportional to velocity can be achieved, with a good repeatability too.

Thanks to their working principle, the Screw Pumps can suction also good percentages of Air, Gas or Vapors that are entrapped in the fluid.

The FMH Screw Pumps are capable of dry running, making them versatile for a wide range of applications and installations.

SCREW PUMPS FOR FOOD AND PHARMACEUTICAL INDUSTRY

Each pump can be customized for a specific application allowing the customer to be served in an optimal way.

Several Screws Profiles and several materials available allow them to be optimized for each particular application.



FOOD INDUSTRY

Soups, Sauces, Dressings, Ketchup, Mustard, Mayonnaise, Cream of wheat, Dough, Marmalade, Yogurt, Butter, Baby food, COncentrates, Jam, Liquid Sugar, Molasses, Caramel & Fudge, Chocolate, Yeast, Dairy Products, Milk, Ground and Minced Meat, Sausages, Oils and Fats, Pet Food and more.



BEVERAGE INDUSTRY

Juices, Pulp, Concentrates, Syrups, Wines, Sparkling wine, Malt extract



PHARMACEUTICAL INDUSTRY

Raw materials, Personal care, Cosmetics Bio-Pharma

MAKING THE DIFFERENCE

Twin screw pumps are predestinated by their operation mode and the construction for low shearing and smooth handling of sensitive products. The axial transporting movement, without changing direction, as well as the non-contacting intermeshing screws, provide optimum results.

Thanks to its modular system, 3P PRINZ offers various pump sizes and different screw sets that cover a capacity range up to 60 m3/h (265 GPM).



The specific construction makes it possible to handle a wide range of flow capacities with the same viscosities, operating pressures and rotation speeds.

PERFORMANCE DATA

NECUTIONS: Standard compliant with 3A and EHEDG POTIMIZED FOR APPLICATIONS IN Uitable to Fluid having the collowing properties: Abrasive Corrosive Low / Medium / High Viscosities Not Lubricating or Lubricating Medium percentage of Gas or Air dissolved in Liquid Dirty (small and medium soft solid particles, up to 20-25 mm diameter) DIVANTAGES OF THE OPERA- ING PRINCIPLE: High Suction Lift Capacity (suitable to conditions with low NPSH available) Capable to pump very viscous fluids (up to 1.000.000 c5t) thanks to its smooth and low-pulsation movemen High Rotating Speeds are possible thanks to the low inertia of the screws Screws are contact-less so wear-out is minimized, pump parts are not dissolved into product and Pump Liffe is extended Pulsations are minimized and flow rate is uniform, allowing to handle fluids that are very viscous and sensitive to shear stresses or turbolences, avoiding emulsions or fluid damage Reversible Low noise level UMP SERIES FMH 100 Series: FMH 200 Series FMH 200 Series FMH 300 Series Low to 16 barg Up to 16 m 3/h Up to 30 m 3/h up to 50 m 3/h viscosity of the pumped fluid: up to 1000.000 c5t from 100 up to 3600 rpm	PUMP TYPE	2-SCREW PUMPS FOR HYGIEN	NIC SERVICE (Series FMH)			
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Maximum differential pressure: Up to 16 barg Up to 60 m3/h Up to 16 barg Up to 40 maximum Up to 60 m3/h Up to 60 m3/h Up to 16 barg In to 16 barg Up to 16 barg In to 10 barg I		Low noise level				
low rates: Up to 16 m3/h Up to 30 m3/h up to 60 m3/h up to 60 m3/h up to 60 m3/h up to 1.000.000 cSt totation speed: from 100 up to 3600 rpm -20 / +140 °C (160°C with Oil Cooler) ulsations: Minimized (almost zero) Osing capability: Good External Bearings and Gears in oil bath lange type Suction 2" tri-clamp Discharge 1"1/2 tri-clamp Discharge 2"1/2 tri-clamp MORE FLANGE CONNECTIONS UPON REQUEST Up to 30 m3/h up to 60 m3/h up to 60 m3/h up to 60 m3/h up to 60 m3/h Sup to 60 m3/h	PUMP SERIES	FMH 100 Series:	FMH 200 Series	FMH 300 Series		
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remperature range: -20 / +140 °C (160°C with Oil Cooler) Minimized (almost zero) Good External Bearings and Gears in oil bath lange type Suction 2" tri-clamp Discharge 1"1/2 tri-clamp Discharge 2"1/2 tri-clamp MORE FLANGE CONNECTIONS UPON REQUEST -20 / +140 °C (160°C with Oil Cooler) Suction 2" tri-clamp Discharge 2"1/2 tri-clamp Discharge 3" tri-clamp Discharge 3" tri-clamp	/iscosity of the pumped fluid:	up to 1.000.000 cSt				
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Coosing capability: Good External Bearings and Gears in oil bath Suction 2" tri-clamp Discharge 1"1/2 tri-clamp MORE FLANGE CONNECTIONS UPON REQUEST Good External Bearings and Gears in oil bath Suction 3" tri-clamp Discharge 3" tri-clamp Discharge 3" tri-clamp Discharge 3" tri-clamp	emperature range:					
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oil bath Suction 2" tri-clamp Suction 3" tri-clamp Suction 4" tri-clamp Discharge 1"1/2 tri-clamp Discharge 2"1/2 tri-clamp Discharge 3" tri-clamp MORE FLANGE CONNECTIONS UPON REQUEST	Dosing capability:	Good				
Discharge 1"1/2 tri-clamp Discharge 2"1/2 tri-clamp Discharge 3" tri-clamp MORE FLANGE CONNECTIONS UPON REQUEST	Bearing types:					
	Flange type					
onstruction Stainless steel 316L for wetted parts - on Request: Hastelloy C-276	Construction	Stainless steel 316L for wetted parts - on Request: Hastelloy C-276				
CIP (Cleaning in Place) and SIP (Sterilisation in Place) cleaning	Cleaning	CIP (Cleaning in Place) and SIP (Sterilisation in Place) cleaning				
PPLICATION FIELDS: Froit Juices, Pastes, Jam, Pulp	APPLICATION FIELDS:	Food & Beverage:	Vegetable and Animal Oils	Fruit Juices, Pastes, Jam, Pulp		
Animal Fats Lecithin			Animal Fats	Lecithin		
Alcohol Chocolate			Alcohol	Chocolate		
Sauces and Dough Dairy Products			Sauces and Dough	Dairy Products		
Syrups and Molasses Cream			Syrups and Molasses	Cream		
Caramel and Fudge Wines & Beers			Caramel and Fudge	Wines & Beers		
			Fluids with pieces in suspen-	Ground meat and similar		
Fluids with pieces in suspen- Ground meat and similar sion			sion			
		Pharmaceutical & Cosmetics:		Ointments, Emulsions		

FMH SERIES – CONSTRUCTION			
Standard Material Combinations:	Housing	Screws	Shaft / Shafts
	Stainless Steel SS316L grade	Stainless Steel SS316L grade	Stainless Steel 17-4 PH
	NOTE: all parts in contact with the fluid are in SS316L grade.		Hastelloy C-276
	Hastelloy C-276		
	Other hardenings available depending on application		

FMH SERIES – MAIN SPECIFICATION		
Maximum differential pressure:	Up to 16 bar [232 PSI] Higher Pressures available on request	
Flow rates:	up to 60 m3/h [up to 264 GPM]	
Viscosity of the pumped fluid:	up to 1.000.000 cSt	
Rotation speed:	up to 3600 rpm	
Temperature range:	-20 / +140 °C (160°C with Oil Cooler)	
Handling Solid Particles & Dirty Fluids:	Yes	
Handling Aggressive Fluids:	Yes	
Pulsations:	Minimized (almost zero)	
Dosing capability:	Good	
Flange Type:	From 1" 1/2 tri clamp to 4" tri clamp)	
Bearing types:	Bearings in Oil Bath	
Construction	Stainless steel 316L for wetted parts - Hastelloy C-276 on request	

FMH - HYGIENIC PUMPS SERIES

TWO PAIRS OF SCREWS – SINGLE END EXTERNAL BEARINGS AND GEARS

3PPRINZ.COM





