

The new, efficient high shear mixing method is based on the proven EHEDG certified pump series FP2 with open impeller and series FP3 with closed impeller. The Packo shear mixer pump is mainly used for in-line mixing, homogenisation and dispergation applications. The shear is generated between the rotor and an innovative and optimized perforated (patented) stator. The shear can be optimized and increased by raising the speed of rotation. Shear rates up to 40.000 s⁻¹ can be achieved at a maximum speed of 3600 rpm!



Application areas

Mixing of 2 liquids with a large different specific gravity (f.i. honey in water), having a large different viscosity (f.i. oil in butter) or that are difficult to mix (f.i. oil in water). Also dispersing of solids in liquids (f.i. toothpaste in water) and dispersion of gas in liquids (f.i. foamed desserts).

Your benefits

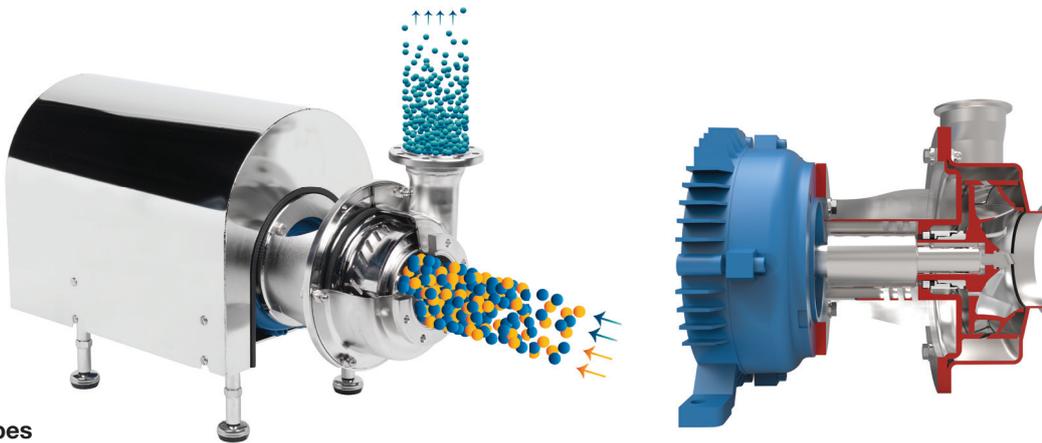
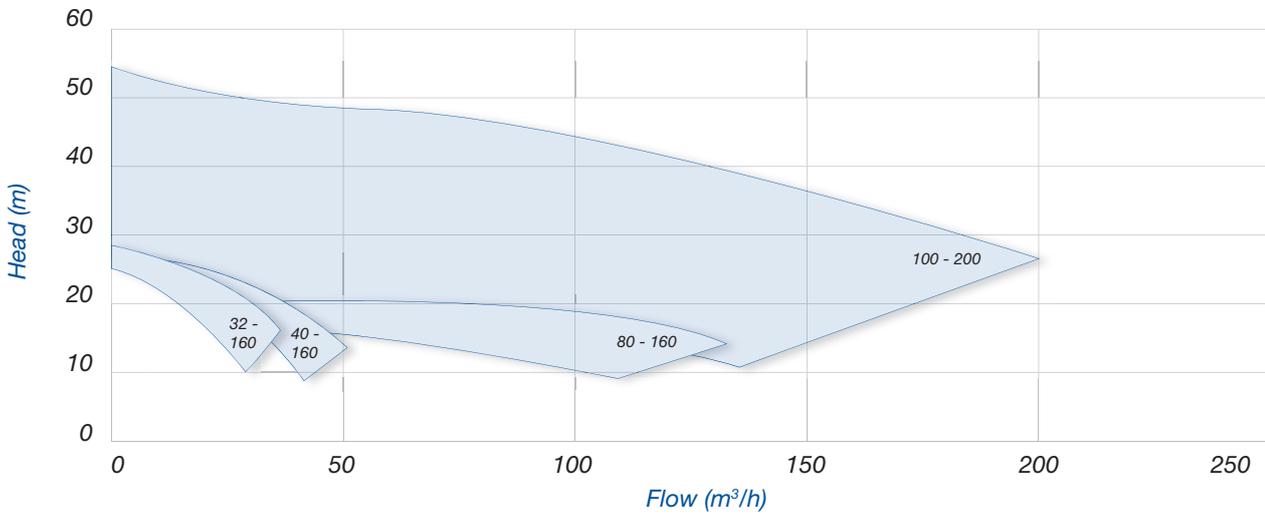
- Extremely high efficiency,
- 50% less energy consumption
- Use of standardized components
- Several seal configurations available
- ATEX available
- Monobloc execution, easy installation
- Easy to clean (CIP and SIP)
- Self pumping
- High mechanical & hydraulic shear
- Rapid solid dissolving
- Very quiet operation

Technical specifications

Max. flow rate	200 m ³ /h
Max. differential head	50 m
Max. liquid viscosity	1000 cP
Max. temperature	140°C
Impeller type	Open (SFP2) / Closed (SFP3)
Max. motor power	45 kW
Max. speed	3600 rpm
Available frequency	50 / 60 Hz
Connections	Sanitary fittings
Materials wetted parts	Stainless steel 316L or similar
Available materials o-ring	EPDM, FKM, FEP-FKM, FFKM or similar
Mechanical seal configuration	Single, quench, double
Surface finish	Food quality, internal welds hand polished + electro polish (casing: 0.8 µm - Impeller: 3.2 µm)
Certificates & Legislation	1935/2004 EC, FDA, USP, ATEX

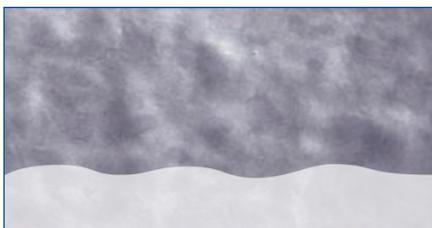


Performance curves at 2900 rpm

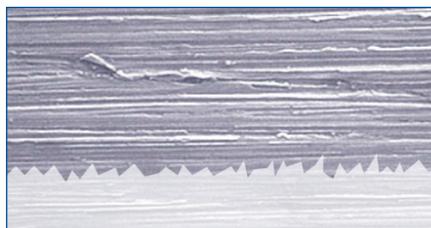


Types

SFP2/32-160	35 m ³ /h	2,5 bar	max. 11 kW	max. 750 cP	shear up to 30000 s ⁻¹
SFP2/40-160	50 m ³ /h	2,5 bar	max. 11 kW	max. 750 cP	shear up to 30000 s ⁻¹
SFP3/80-160	130 m ³ /h	2,0 bar	max. 22 kW	max. 1000 cP	shear up to 30000 s ⁻¹
SFP3/100-200	200 m ³ /h	5,0 bar	max. 45 kW	max. 1000 cP	shear up to 40000 s ⁻¹



Electropolished



Mechanical polishing 240 grit



Glass bead blasted

Find your local supplier at www.verder-liquids.com

For construction, installation and floor mounting drawings please contact your local authorised Verder® distributor.

VERDER
passion for pumps

