# ECCENTRIC WORM-DRIVE PUMPS TYPE F 550 S AND F 550 SB VERSION WITH BEARING FLANGE

#### Recommended for transferring

Thin to high viscosity, even pasty, still free flowing substances.

#### Typical applications

Transferring viscous substances from barrels and/or containers. Feeding filling machines.

#### Seal types

Type F 550 S with mechanical seal or Type F 550 SB with stuffing box.

#### Available drive motors

Three-phase electric or compressed air motors.

Three-phase motors of 0,75 or 1,1 kW, with a speed of 930 or 700 rpm. For high viscosity, pasty substances a motor of 1,1 kW is required with a recommended speed of 700 rpm for viscosities exceeding 50.000 mPas (cP), because of the low velocity of such products. A speed of 930 rpm may be used if the product is still flowing or if a follow-on plate would support the continuous flow of the product to the pump inlet – please confer to VISCOFLUX system on page 26.

For viscosities up to 25.000 mPas (cP) a motor of 0.75 kW and 930 rpm will be sufficient.

On compressed air motors of 0,5 to 1,8 kW, the speed may be controlled by a valve in the air supply line.

### Scope of supply

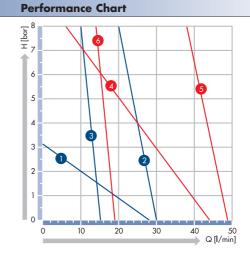
A complete eccentric worm-drive pump consists of: drive motor, pump, stator and hose connection.



#### TECHNICAL DATA

Туре	Viscosity mPas (cP)	Curve No.
F 550 S-50/21	1	0
F 550 SB-50/21	1.000-2.000	2
F 550 SXA-50/21	20.000-25.000	3
F 550 SXB-50/21		
F 550 S-54/26 F 550 SB-54/26	1	4
	1.000-2.000	<b>5</b>
	20.000-25.000	6

With higher viscosities delivery rate will be lower, depending on the velocity of the fluid.







## ECCENTRIC WORM-DRIVE PUMPS TYPE F 550 S AND F 550 SB, WITH BEARING FLANGE, WITHOUT DRIVE MOTOR

Туре	F 550 S-50/21	F 550 SB-50/21	F 550 SXA-50/21	F 550 SXB-50/21
Delivery rate max.	30 l/min	30 l/min	30 l/min	30 l/min
Delivery head max.	8 bar	8 bar	8 bar	8 bar
Thread on outlet	G 11/2 A (BSP 11/2" male)	G 11/2 A (BSP 11/2" male)	G 11/2 A (BSP 11/2" male)	G 1 <sup>1</sup> / <sub>2</sub> A (BSP 1 <sup>1</sup> / <sub>2</sub> " male)
Seal type	mechanical seal in ceramic oxide, o-rings in FPM	stuffing box in PTFE, re-adjustable	mechanical seal in ceramic oxide, o-rings in FPM	mechanical seal in ceramic oxide, o-rings in FPM
Material	bearing flange in aluminium*; outer tube, torsion shaft and eccentric worm in stainless steel 316 Ti		nless steel 316 Ti	
Outer-Ø	50 mm	50 mm	50 mm	50 mm
Stator	not included with the pump, separate part number please see list below		Stator PTFE white, included with the pump	Stator PTFE black, included with the pump
Explosion-proof according to Directive 94/9/EC-ATEX 100	not approved for transferring high flammability liquids in Zone 0		EC Type Examination Certificate No. PTB 99 ATEX 4050 X (Ex II 1/2 G IIA T4)	EC Type Examination Certificate No. PTB 99 ATEX 4051 X (Ex II 1/2 G IIB T4)
Part No./Weight			PKEX 100	PIEX 100
Immersion length 700 mm	<b>550 25 507</b> /4,9 kg	<b>550 25 530</b> /5,9 kg	<b>550 23 020</b> /5,5 kg	<b>550 23 400</b> /5,5 kg
Immersion length 1000 mm	<b>550 25 510</b> /5,6 kg	<b>550 25 531</b> /6,6 kg	<b>550 23 021</b> /6,1 kg	<b>550 23 401</b> /6,1 kg
Immersion length 1200 mm	<b>550 25 512</b> /6,1 kg	<b>550 25 532</b> /7,1 kg	<b>550 23 022</b> /6,6 kg	<b>550 23 402</b> /6,6 kg

Туре	F 550 S-54/26	F 550 SB-54/26	
Delivery rate max.	50 l/min	50 l/min	
Delivery head max.	8 bar	8 bar	
Thread on outlet G 1½ A (BSP 1½ male)		G 1 <sup>1</sup> / <sub>2</sub> A (BSP 1 <sup>1</sup> / <sub>2</sub> " male)	
Seal type	mechanical seal in ceramic oxide, o-rings in FPM	stuffing box in PTFE, re-adjustable	
Material	bearing flange in aluminium*; outer tube, torsion shaft and eccentric worm in stainless steel 316 Ti		
Outer-Ø	54 mm	54 mm	
Stator	not included with the pump, separate part number please see list below		
Part No./Weight			
Immersion length 700 mm	<b>550 25 649</b> /5,4 kg	<b>550 25 694</b> /6,4 kg	
Immersion length 1000 mm	<b>550 25 652</b> /6,1 kg	<b>550 25 695</b> /7,1 kg	
Immersion length 1200 mm	<b>550 25 654</b> /6,6 kg	<b>550 25 696</b> /7,6 kg	

Other lengths on request.

## STATORS FOR ECCENTRIC WORM-DRIVE PUMPS TYPE F 550 S AND F 550 SB

Material	Temperature	Recommended for	Part No./Weight outer-Ø 50 mm	Part No./Weight outer-Ø 54 mm
NBR (Perbunan) white elastomer	max. 90°C	particularly suitable for oils and greases, also for food products	<b>550 24 248</b> /0,5 kg	<b>550 25 621</b> /0,6 kg
NBR (Perbunan) black elastomer	max. 90°C	particularly suitable for oils and greases, not suitable for food products	<b>550 24 244</b> /0,5 kg	<b>550 25 620</b> /0,6 kg
CSM (Hypalon) elastomer	max. 90°C	particularly suitable for corrosive products, not suitable for oils, greases nor food products	<b>550 24 253</b> /0,5 kg	<b>550 25 622</b> /0,6 kg
FPM (Viton) elastomer	max. 150°C	excellent chemical resistance to all different kind of products not suitable for food products	<b>550 24 247</b> /0,5 kg	-
PTFE (Teflon) solid material	max. 150°C	excellent chemical resistance, particularly suitable for food products, pharmaceuticals and cosmetics	<b>550 24 256</b> /0,6 kg	<b>550 25 625</b> /0,7 kg

## HOSE CONNECTION IN STAINLESS STEEL, COMPLETE WITH UNION NUT G $1^{1}/2$ (BSP $1^{1}/2$ " FEMALE)

	Type F 550 S and F 550 SB	Part No./Weight
	for flexible hose, inside Ø DN 25	<b>959 04 002</b> /0,2 kg
	for flexible hose, inside Ø DN 32	<b>959 04 003</b> /0,3 kg
	for flexible hose, inside Ø DN 38	<b>959 04 004</b> /0,4 kg

Drive motors see page 16



<sup>\*</sup> Type F 550 SF with bearing flange in stainless steel (316 Ti) on request