

# ECCENTRIC WORM-DRIVE PUMPS TYPE F 550 GS AND F 550 GSB WITH PLANETARY GEAR

## Recommended for transferring

Thin to medium viscosity liquids up to a maximum viscosity of 30.000 mPas (cP).

## Typical applications

Liquid transfer from barrels and/or containers.  
The eccentric worm-drive pumps type F 550 GS and F 550 GSB are particularly lightweight and easy-to-handle, making them extremely versatile pumps.  
The lightest model has a weight of 5,5 kg only.  
The weight of the complete pump depends on the immersion length and motor assembly.

## Seal type

Type F 550 GS with mechanical seal or  
Type F 550 GSB with stuffing box

## Available drive motors

Commutator motors or compressed air motors.

An infinitely variable speed variator – also available on explosion-proof models – allows the operator to set pump capacity to specific delivery requirements.

## Scope of supply

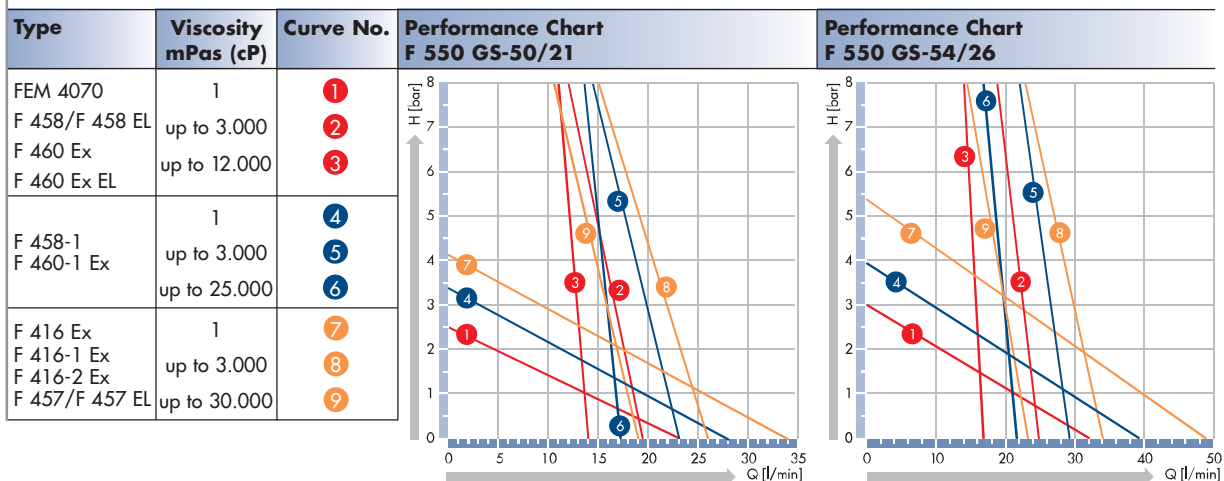
A complete eccentric worm-drive pump consists of: drive motor, pump, stator and hose connection.

The types XA and XB are delivered with stator.



F 550 GS-54/26  
with commutator motor F 460 Ex

## Technical Data



Values ± 10%. Delivery rate depends on the velocity of the fluid.

Eccentric Worm-Drive Pumps with mechanical seal or stuffing box in planetary gear version, drive motors see page 17

Type	F 550 GS-50/21	F 550 GSB-50/21	F 550 GSXA-50/21	F 550 GSXB-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 1 1/2 A	G 1 1/2 A	G 1 1/2 A	G 1 1/2 A
Seal type	mechanical seal in ceramic oxide, o-rings in FKM	stuffing box in PTFE, re-adjustable	mechanical seal in ceramic oxide, o-rings in FKM	mechanical seal in ceramic oxide, o-rings in FKM
Material	outer tube, torsion shaft and eccentric worm in stainless 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 ATEX-Directive 94/9/EC	not approved for transferring highly flammable 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)
<b>Part No./Weight</b>				
Immersion length 700 mm	<b>550 24 807</b> /4,3 kg	<b>550 24 838</b> /4,3 kg	<b>550 23 030</b> /4,8 kg	<b>550 23 410</b> /4,8 kg
Immersion length 1000 mm	<b>550 24 810</b> /5,0 kg	<b>550 24 839</b> /5,0 kg	<b>550 23 031</b> /5,5 kg	<b>550 23 411</b> /5,5 kg
Immersion length 1200 mm	<b>550 24 812</b> /5,5 kg	<b>550 24 840</b> /5,5 kg	<b>550 23 032</b> /6,0 kg	<b>550 23 412</b> /6,0 kg

Type	F 550 GS-54/26	F 550 GSB-54/26
Delivery rate max.	50 l/min	50 l/min
Delivery head max.	8 bar	8 bar
Thread on outlet	G 1 1/2 A	G 1 1/2 A
Seal type	mechanical seal in ceramic oxide, o-rings in FKM	stuffing box in PTFE, re-adjustable
Material	outer tube, torsion shaft and eccentric worm in stainless steel 316 Ti I	
Outer-Ø	54 mm	54 mm
Stator	not included with the pump, separate part number please see list below	
<b>Part No./Weight</b>		
Immersion length 700 mm	<b>550 25 675</b> /4,8 kg	<b>550 25 697</b> /4,8 kg
Immersion length 1000 mm	<b>550 25 676</b> /5,5 kg	<b>550 25 698</b> /5,5 kg
Immersion length 1200 mm	<b>550 25 677</b> /6,0 kg	<b>550 25 699</b> /6,0 kg

Other lengths on request

Stators for Eccentric Worm-Drive Pumps Type F 550 GS and F 550 GSB

Material	Temperature	Recommended for	Part No./Weight outer-Ø 50 mm	Part No./Weight outer-Ø 54 mm
NBR white (Nitrile Butadiene Rubber) 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 black (Nitrile Butadiene Rubber) 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 (Chlorosulfonated Polyethylene) 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
FKM (Fluor Rubber) 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	<b>550 25 619</b> /0,6 kg
PTFE (Ethylene-Tetra-Fluor-Ethylene) 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

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