

# ECCENTRIC WORM-DRIVE PUMPS IN HORIZONTAL VERSION



## Recommended for transferring

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

## Typical applications

Eccentric worm-drive pumps Type F 550 TR and F 560 TR are designed for horizontal use.

A base plate or a pump trolley facilitates the installation with a three-phase electric motor.

This pump design is available in different versions:

**Type F 550 S TR** with bearing flange in aluminium and flange connection between outer tube and stator housing is recommended for transferring oils, greases, lubricants etc. in the industrial sector.

**Type F 550 SF TR** with bearing flange in stainless steel and clamp connection between outer tube and stator housing is recommended for use in pharmaceutical and food industries.

**Type F 560 S TR** with bearing flange in stainless steel and clamp connection between outer tube and stator housing is recommended for use in cosmetics, food and pharmaceutical industries. The pump can be stripped down in no time for cleaning and/or sterilisation. A special shaft design allows reversible flow operations.

All versions comprise a stator in PTFE.

## Seal type

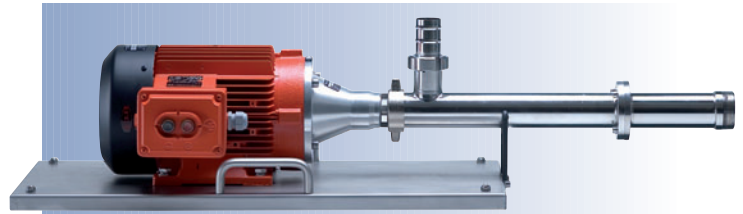
Mechanical seal

## Available drive motors

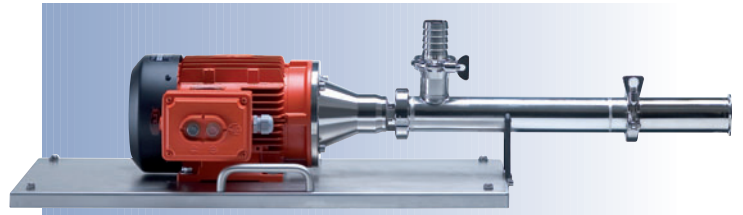
Three-phase electric motors with bottom flange

## Scope of supply

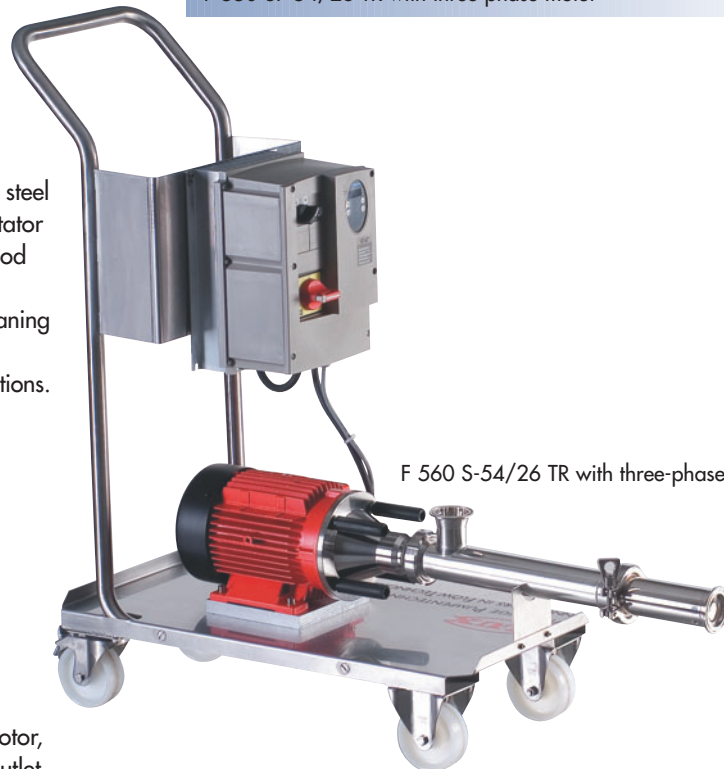
A complete horizontal pump consists of: drive motor, pump and stator, hose connection on inlet and outlet, base plate or pump trolley.



F 550 S-54/26 TR with three-phase motor



F 550 SF-54/26 TR with three-phase motor



F 560 S-54/26 TR with three-phase motor

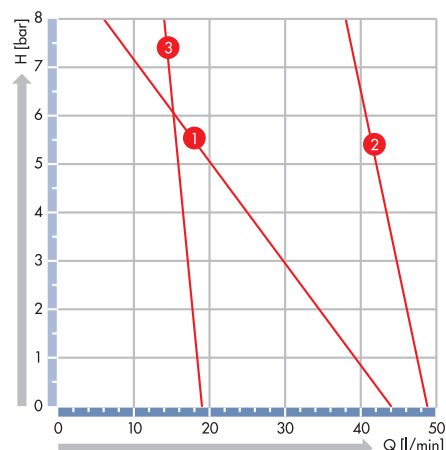
## TECHNICAL DATA

Type	Viscosity mPas (cP)	Curve No.
F 550 S-54/26 TR	1	1
F 550 SF-54/26 TR	1.000–2.000	2
F 560 S-54/26 TR	20.000–25.000	3

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

Values  $\pm 10\%$  at 930 rpm. Delivery rate depends on the velocity of the fluid.

## Performance Chart



# ECCENTRIC WORM-DRIVE PUMPS IN HORIZONTAL VERSION



## ECCENTRIC WORM-DRIVE PUMPS TYPE F 550 S TR, F 550 SF TR AND F 560 S TR, WITHOUT DRIVE MOTOR

Type	F 550 S-54/26 TR
Delivery rate max.	50 l/min
Delivery head max.	8 bar
Thread on inlet/outlet	inlet: G 2 A (BSP 2" male); outlet: G 1 1/2 A (BSP 1 1/2 male)
Seal type	mechanical seal in ceramic oxide, o-rings in FKM
Material	bearing flange in aluminium; flexible shaft and eccentric worm in stainless steel 316 Ti
Outer-Ø	54 mm
Stator	stator in PTFE included with the pump
<b>Part No./Weight</b>	<b>550 25 503/5,5 kg</b>

Type	F 550 SF-54/26 TR
Delivery rate max.	50 l/min
Delivery head max.	8 bar
Thread on inlet/outlet	inlet and outlet: Clamp 2"
Seal type	mechanical seal in SiC, o-rings in FKM (foodgrade)
Material	bearing flange, outer tube and eccentric worm in stainless steel 316 Ti; flexible shaft in stainless steel 316 Ti with protective coating in PTFE
Outer-Ø	54 mm
Stator	stator in PTFE included with the pump
<b>Part No./Weight</b>	<b>550 25 692/6,1 kg</b>

Type	F 560 S-54/26 TR reversible flow
Delivery rate max.	50 l/min
Delivery head max.	8 bar
Thread on inlet/outlet	inlet and outlet: Clamp 2"
Seal type	mechanical seal in SiC, o-rings in FKM (foodgrade)
Material	bearing flange, outer tube and eccentric worm in stainless steel 316 Ti; easy to strip down shaft design in stainless steel 316 Ti for reversible flow operations
Outer-Ø	54 mm
Stator	stator in PTFE included with the pump
<b>Part No./Weight</b>	<b>560 23 104/6,3 kg</b>

Further accessories like frequency converter, motor protection switch and power supply cable on request.

### BASE PLATE IN STAINLESS STEEL (316 Ti)

<b>Part No./Weight</b>	<b>001 15 033/5,6 kg</b>
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### PUMP TROLLEY IN STAINLESS STEEL (304)

<b>Part No./Weight</b>	<b>001 15 038/9,0 kg</b>
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### HOSE CONNECTION IN STAINLESS STEEL, COMPLETE WITH UNION NUT OR CLAMP CONNECTION

Part No./Weight	Type F 550 S TR Outlet G 1 1/2 A (BSP 1 1/2 male)	Type F 550 S TR Inlet G 2 A (BSP 2" male)	Type F 550 SF TR Type F 560 S TR Clamp 2"
for flexible hose, inside Ø <b>DN 25</b>	<b>959 04 002/0,2 kg</b>	-	-
for flexible hose, inside Ø <b>DN 32</b>	<b>959 04 003/0,3 kg</b>	<b>959 04 059/0,3 kg</b>	<b>959 04 137/0,4 kg</b>
for flexible hose, inside Ø <b>DN 38</b>	<b>959 04 004/0,4 kg</b>	<b>959 04 060/0,4 kg</b>	<b>959 04 109/0,4 kg</b>

### DRIVE MOTORS WITH BOTTOM FLANGE FOR ECCENTRIC WORM-DRIVE PUMPS TYPE F 550 S TR, F 550 SF TR UND F 560 S TR

**Three-phase motors 230/400 Volt, 50 Hz, jet-proof to IP 55, with motor protection switch, without cable**

Capacity	Speed	Part No./Weight
0,75 kW	700 rpm	<b>001 02 151/22,0 kg</b>
1,1 kW	930 rpm	<b>001 02 150/17,0 kg</b>

Drive motors with bottom flange in other capacities on request.  
Accessories for drive motors see page 16