

Industrial eccentric worm-drive pumps type F 550 GS with planetary gear

Recommended for transferring

Thin to medium viscosity liquids up to a maximum viscosity of 50,000 cPs.

Typical applications

Liquid transfer from barrels and/or containers. The eccentric worm-drive pumps type F 550 GS are particularly lightweight and easy-to-handle, making them extremely versatile pumps. The lightest model has a weight of only 9.5 lbs. The weight of the complete pump depends on the immersion length and motor assembly.

Available drive motors

Commutator motors or compressed air motors.

An infinitely variable speed motor – 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 - Flow rate estimates based on varying viscosities

F550 GS 50/21		F550 GS 54/26	
VISCOSITY (CPS)	MAX GPM	VISCOSITY (CPS)	MAX GPM
1,000	9	1,000	11
3,000	7	3,000	9
10,000	5	10,000	6.5
20,000	4.5	20,000	6
30,000	4	30,000	5.5
40,000	2.5 - 3.5	40,000	3.5 - 4.5
50,000	2 - 3	50,000	3 - 4

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

¹ Ex-proof versions available

Eccentric worm-drive pumps with mechanical seal in planetary gear version

Type	F 550 GS-50/21	F 550 GS-54/26	F 550 GSXA-50/21	F 550 GSXB-50/21
Delivery rate max.	10 GPM (37 LPM)	12 GPM (45 LPM)	10 GPM (37 LPM)	
Delivery head max.	116 PSIG (8 bar)			
Thread on outlet	G 1½ A			
Seal type	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	54 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 2014/34/EU for use in Zone 0	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) 
Part No./Weight				
Immersion length 27" (700 mm)	550 24 807 /9.5 lbs	550 25 675 /10.6 lbs	550 23 030 /10.6 lbs	550 23 410 /10.6 lbs
Immersion length 39" (1000 mm)	550 24 810 /11.0 lbs	550 25 676 /12.1 lbs	550 23 031 /12.1 lbs	550 23 411 /12.1 lbs
Immersion length 47" (1200 mm)	550 24 812 /12.1 lbs	550 25 677 /13.2 lbs	550 23 032 /13.2 lbs	550 23 412 /13.2 lbs

Other lengths on request.

Also available:

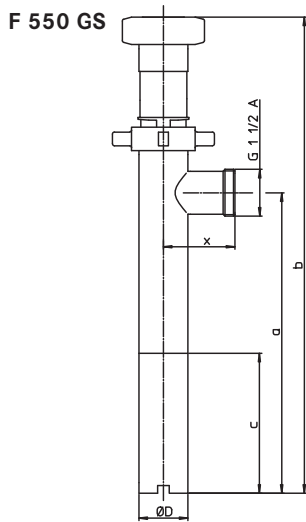
- Version with cardan shaft for higher torque

Stators for eccentric worm-drive pumps type F 550 GS

Material	Temperature	Recommended for	Part No./Weight outer-Ø 50 mm	Part No./Weight outer-Ø 54 mm
NBR white (Nitrile Butadiene Rubber) elastomer	194°F (90°C)	particularly suitable for oils and greases, also for food products	550 24 248 /1.1 lbs	550 25 621 /1.3 lbs
NBR black (Nitrile Butadiene Rubber) elastomer	194°F (90°C)	particularly suitable for oils and greases, not suitable for food products	550 24 244 /1.1 lbs	550 25 620 /1.3 lbs
FKM (Fluor Rubber) elastomer	248°F (120°C)	excellent chemical resistance to all different kind of products, not suitable for food products	550 24 247 /1.1 lbs	550 25 619 /1.3 lbs
PTFE (Ethylene-Tetra-Fluor-Ethylene) solid material	248°F (120°C)	excellent chemical resistance, particularly suitable for food products, pharmaceuticals and cosmetics	550 24 256 /1.3 lbs	550 25 625 /1.5 lbs

Hose connection in stainless steel, complete with union nut G 1½

Type F 550 GS	Part No./Weight
for flexible hose, inside 1" (DN 25)	959 04 002 /0.4 lbs
for flexible hose, inside 1-1/4" (DN 32)	959 04 003 /0.6 lbs
for flexible hose, inside 1-1/2" (DN 38)	959 04 004 /0.8 lbs



Type	F 550 GS-50/21				
Dimensions in mm	ØD	x	a	b	c
Immersion length 27" (700 mm)	50	73	714	887	143
Immersion length 39" (1000 mm)	50	73	1014	1187	143
Immersion length 47" (1200 mm)	50	73	1214	1387	143
Type	F 550 GS-54/26				
Dimensions in mm	ØD	x	a	b	c
Immersion length 27" (700 mm)	54	75	740	914	170
Immersion length 39" (1000 mm)	54	75	1040	1214	170
Immersion length 47" (1200 mm)	54	75	1240	1414	170