

Stainless steel gear pumps with flange series E/F



Self-priming Stainless steel gear flange-pumps.
Suction- and pressure-connections Whitworth pipe threads - opposite 180°.

E/F Pumps with stainless-steel-gears

(Pumps are completely painted).

E/F -PEEK Pumps Gears made of PEEK

(Polyetheretherketon).

Applications

The Stainless-steel gear flange-Pumps for industrial applications:

Dosing-systems, coolant feed, heat transfer, test bench, mechanical engineering and more.

Liquids

Gear-Pumps Series E/F for special and corrosive liquids, Emulsions, oils and fats. Non-explosive Liquids, not corrosive against Pump Materials, without any solids.

E/F Pumpen for lubricating Liquids

E/F -PEEK Pumpen also for non-lubricating Liquids

Operating conditions

Liquid temperature: -10°C up to +60°C (NBR)

-40°C up to +250°C on request

Ambient temperature: -20°C up to +40°C

operating pressure: max. 50 bar

others on request

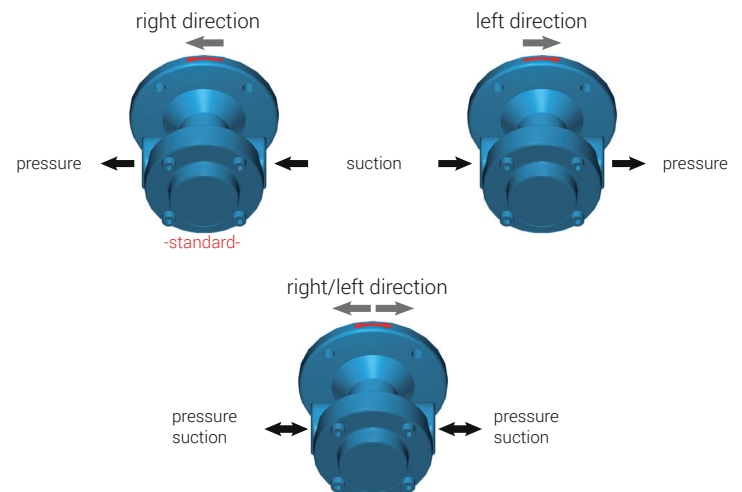
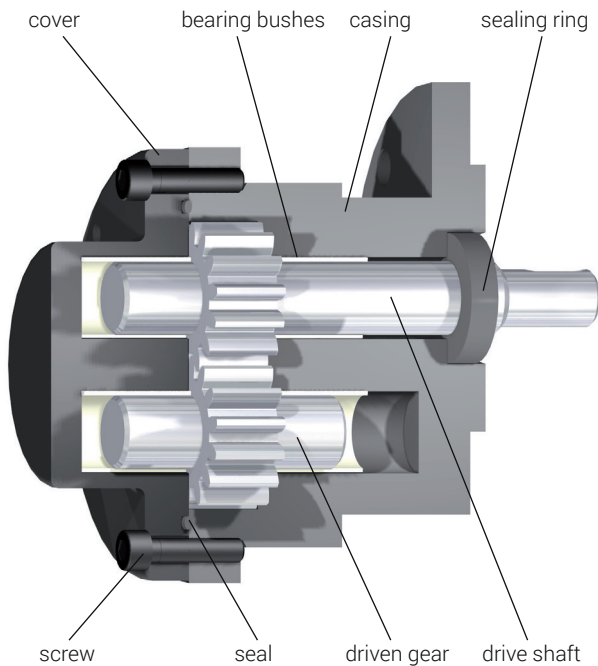
Drives

For example: Hydraulic motor, electric motor, drives without axial / radial forces on the drive shaft

Materials

components	E/F	E/F -PEEK
casing & cover	Stainless steel 1.4571	
shaft	Stainless steel 1.4571	
gears	Stainless steel 1.4571	PEEK (BG2 & BG3)
bearing bushes	Stainless steel composite bearings	
shaft seal	Sealing Ring NBR (FPM, PTFE, GLRD, packing gland u.a.)	

sectional drawing



Stainless steel gear pumps with flange series E/F 1..

Performance ($n \approx 1450$ 1/min)

type	cm ³ /U	bar	capacity / drive power (kW*)				
			5	10	15	20	30
E/F15	0,85	l/min	1,15	1,10	1,05	1,00	0,90
		kW*	0,014	0,027	0,041	0,055	0,080
E/F17	1,2	l/min	1,60	1,55	1,50	1,40	1,30
		kW*	0,019	0,038	0,057	0,076	0,11
E/F110	1,8	l/min	2,30	2,25	2,20	2,10	2,00
		kW*	0,027	0,055	0,082	0,11	0,16

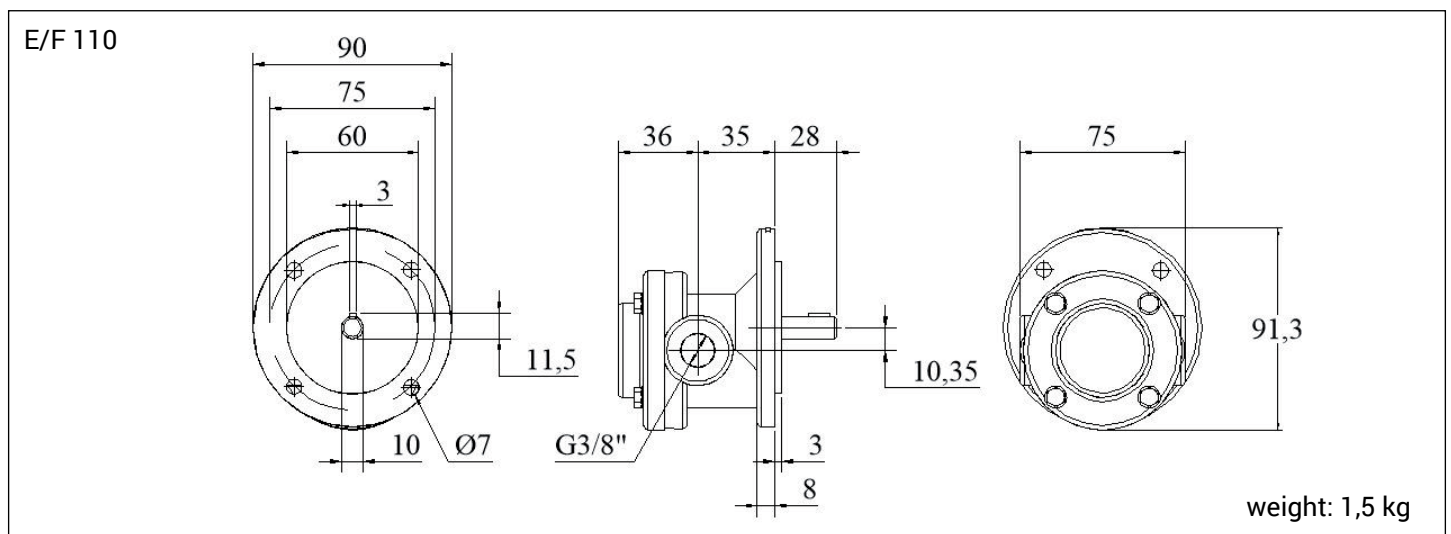
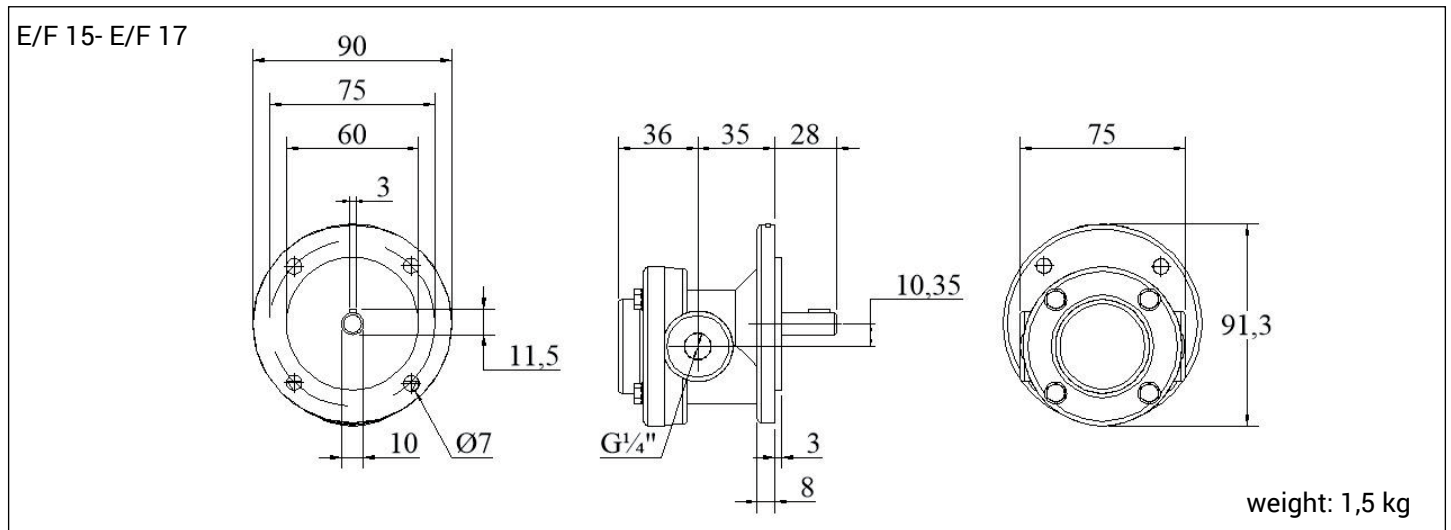
Valid for hydraulic oil with 35 mm²/s at 50 °C
 Oil-Speed: max. 1,5 m/s suction side, max. 4,5 m/s pressure side

■ special design (on request)

Tolerance of capacity: +/- 3%

* kW = required drive power in kW (without dissipation)

Dimensions and weight



Stainless steel gear pumps with flange series E/F 2..

Performance (n ≈ 1450 1/min)

type	cm³/U	bar	capacity / drive power (kW*)						
			5	10	15	20	30	40	50
E/F 210	2,3	l/min	3,00	2,95	2,90	2,80	2,70	2,60	2,40
		kW*	0,036	0,072	0,11	0,14	0,21	0,29	0,36
E/F 214	3,2	l/min	4,50	4,45	4,40	4,30	4,20	4,10	3,90
		kW*	0,054	0,11	0,16	0,21	0,32	0,43	0,54
E/F 219	4,3	l/min	6,00	5,95	5,90	5,85	5,80	5,70	5,50
		kW*	0,072	0,15	0,22	0,29	0,44	0,58	0,73

Valid for hydraulic oil with 35 mm²/s at 50 °C

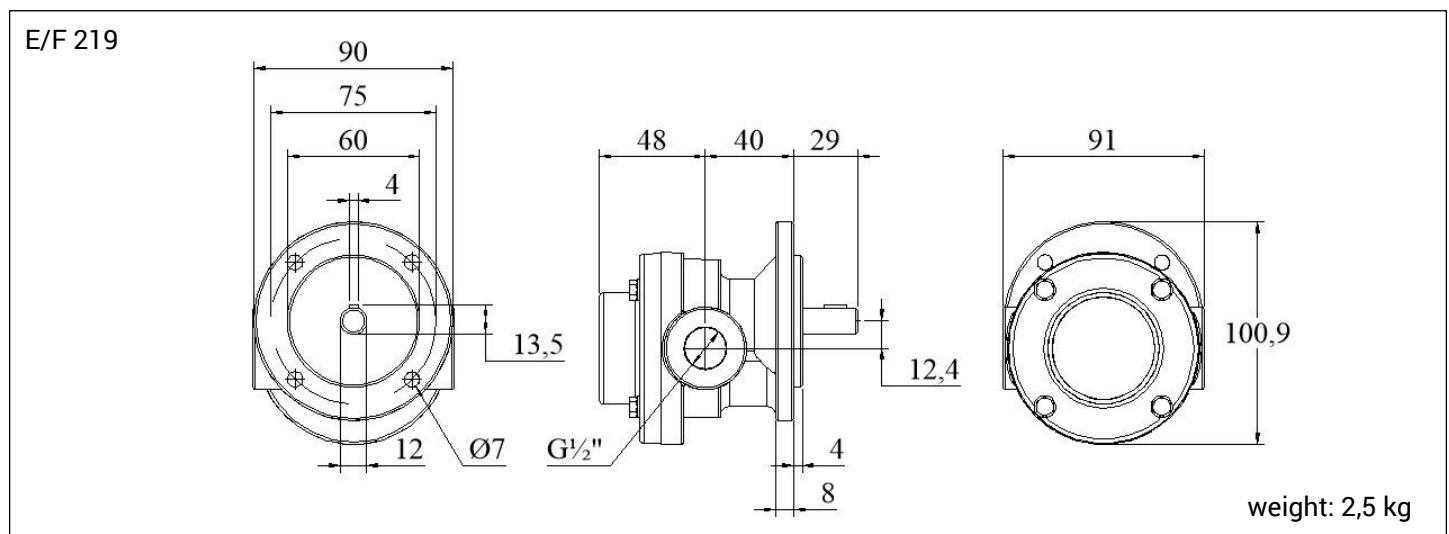
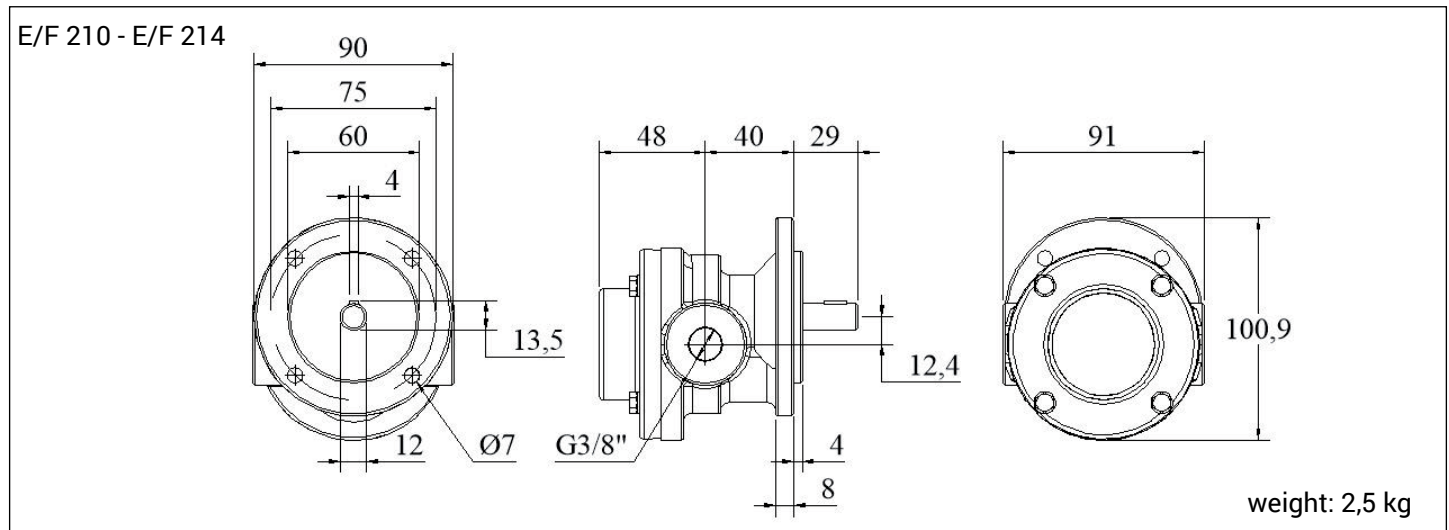
Oil-Speed: max. 1,5 m/s suction side, max. 4,5 m/s pressure side

□ special design (on request)

Tolerance of capacity: +/- 3%

* kW = required drive power in kW (without dissipation)

Dimensions and weight



Stainless steel gear pumps with flange series E/F 3..

Performance (n ≈ 1450 1/min)

type	cm³/U	bar	capacity / drive power (kW*)						
			5	10	15	20	30	40	50
E/F 310	5,1	l/min	7,4	7,35	7,3	7,25	7,2	7,1	7,0
		kW*	0,09	0,18	0,26	0,35	0,53	0,71	0,88
E/F 314	7,1	l/min	10,2	10,15	10,1	10,0	9,9	9,7	9,4
		kW*	0,12	0,24	0,37	0,49	0,73	0,97	1,22
E/F 318	9,1	l/min	13,2	13,1	13,0	12,8	12,6	12,4	12,1
		kW*	0,16	0,31	0,47	0,63	0,94	1,26	1,57
E/F 323	11,7	l/min	16,7	16,6	16,5	16,4	16,2	16,0	15,6
		kW*	0,20	0,40	0,60	0,80	1,20	1,59	1,99
E/F 328	14,1	l/min	20,3	20,2	20,1	20,0	19,8	19,6	19,4
		kW*	0,24	0,48	0,72	0,96	1,45	1,93	2,41
E/F 333	16,7	l/min	24,1	24,0	23,9	23,8	23,6	23,4	23,2
		kW*	0,28	0,57	0,85	1,14	1,70	2,27	2,84

Valid for hydraulic oil with 35 mm²/s at 50 °C

Oil-Speed: max. 1,5 m/s suction side, max. 4,5 m/s pressure side

special design (on request)

Tolerance of capacity: +/- 3%

* kW = required drive power in kW (without dissipation)

Dimensions and weight

