



Construction

Self-priming electric-gear-pumps, bellhousing with foot-flange, pump-casing in cast iron. Gear-pumps series FKM with motor-power up to 1,5 kW. Suction- and pressure-ports Whitworth pipe threads - opposite 180°. For type FKM 5.. SAE-flange optionally.

Applications

Industrial applications, for example:
Lubrication systems, coolant feed in machine tools, heat transfer, test bench and many more.

Example of liquids suitable for transport

Pure, non-explosive liquids, not corrosive against pump materials, without any solids. The liquids to deliver, must have lubricating characteristics.
Oil, mineral oil, synthetic oil, adhesives, sealants, polymers, diesel, paints, inks and many more

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. 80 bar

others on request

Drive

Standard: three-phase asynchronous motor

Operation mode: Continuous operation S1

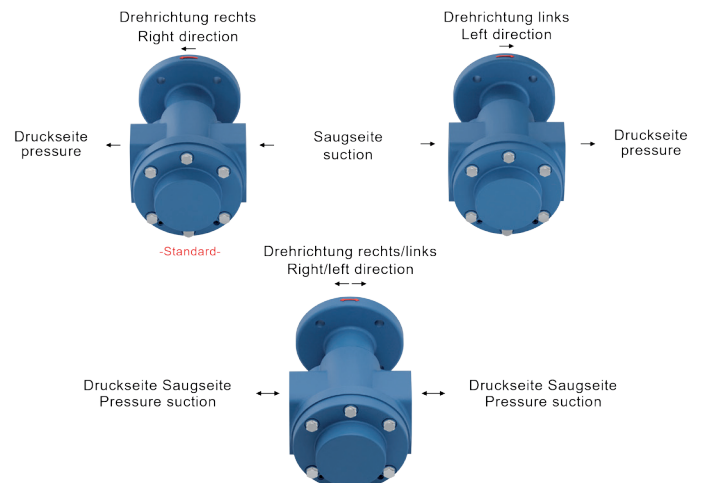
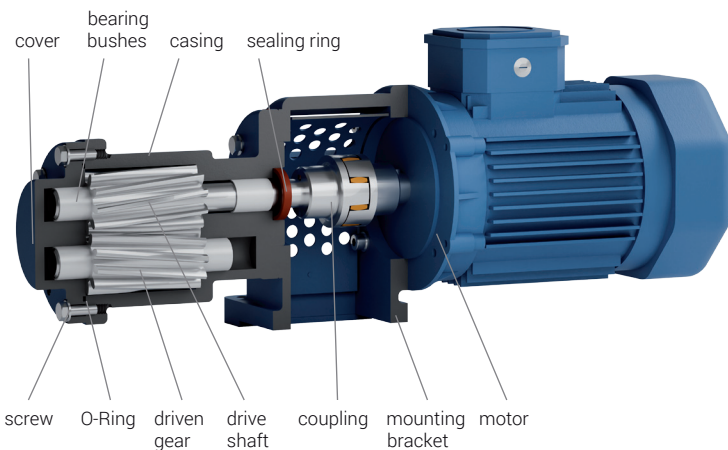
thermal class 155, protection IP 55

Optional: single-phase motor, DC-motors

Materials

components	standard	on request
casing and cover	cast iron- EN-GJL-250 (GG25)	ductile cast iron (GGG40)
shaft	steel	
gears	Steel, hardened and grinded	
bearing bushes	composite bearings	
shaft seal	sealing ring NBR	FPM, PTFE, GLRD, packing gland

sectional drawing



Electric-gear-pumps series FKM 310 - FKM 323

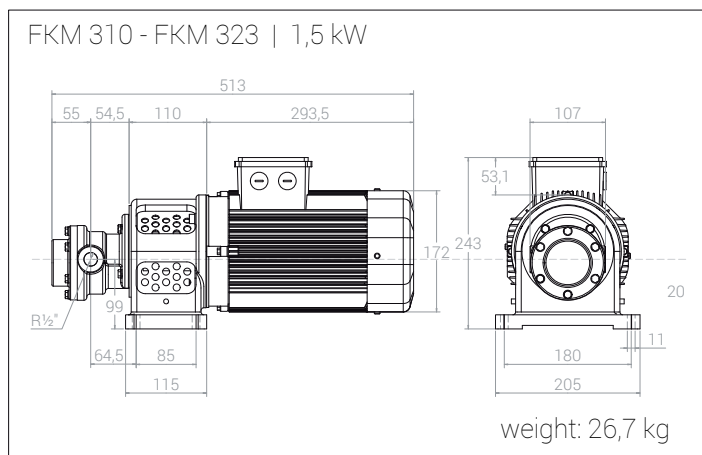
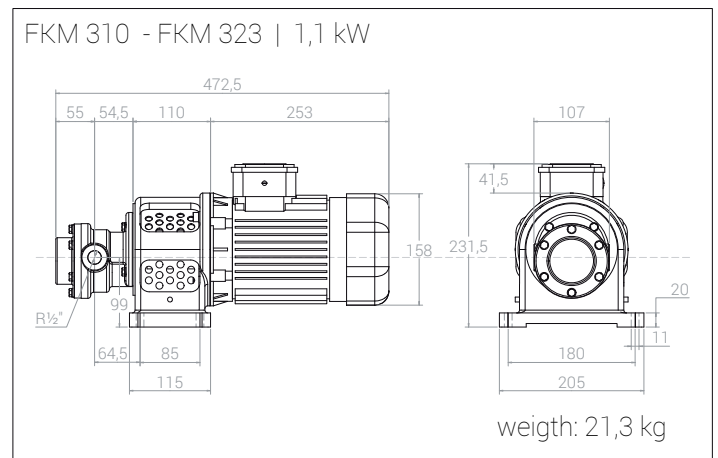
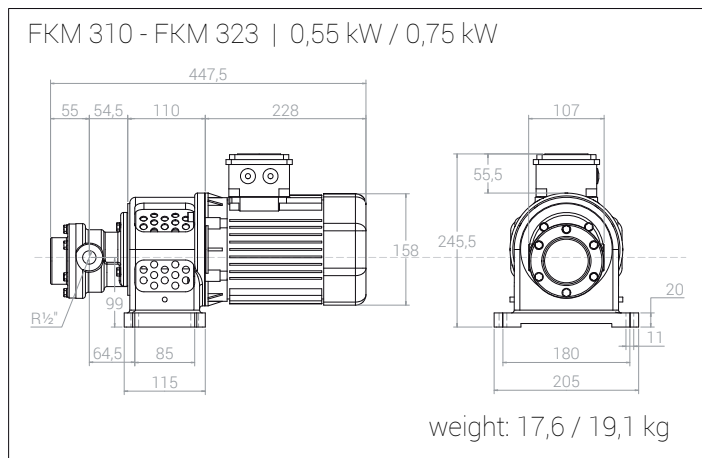
Performance (n ≈ 1450 min⁻¹):

type	motor power kW	pressure		pressure (bar)									
				5	10	15	20	30	40	50	60	70	80
FKM 310	0,55	25	capacity	7,40	7,35	7,30	7,25	7,20					
	0,75	35		7,40	7,35	7,30	7,25	7,20	7,10				
	1,1	50		7,40	7,35	7,30	7,25	7,20	7,10	7,00			
	1,5	75		7,40	7,35	7,30	7,25	7,20	7,10	7,00	6,90	6,80	6,70
FKM 314	0,55	15		10,2	10,15	10,1							
	0,75	25		10,2	10,15	10,1	10,0						
	1,1	35		10,2	10,15	10,1	10,0	9,9	9,7				
	1,5	50		10,2	10,15	10,1	10,0	9,9	9,7	9,4			
FKM 318	0,55	12		13,20	13,10	13,00							
	0,75	20		13,20	13,10	13,00	12,80						
	1,1	30		13,20	13,10	13,00	12,80	12,60					
	1,5	40		13,20	13,10	13,00	12,80	12,60	12,40				
FKM 323	0,55	10		16,70	16,60								
	0,75	15		16,70	16,60	16,50							
	1,1	25		16,70	16,60	16,50	16,40	16,20					
	1,5	33		16,70	16,60	16,50	16,40	16,20	16,00				

Valid for hydraulic oil with 35 mm²/s at 50 °C
Tolerance of capacity: +/- 3%

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

Dimensions and weight



Electric-gear-pumps series FKM 328 bis FKM 333

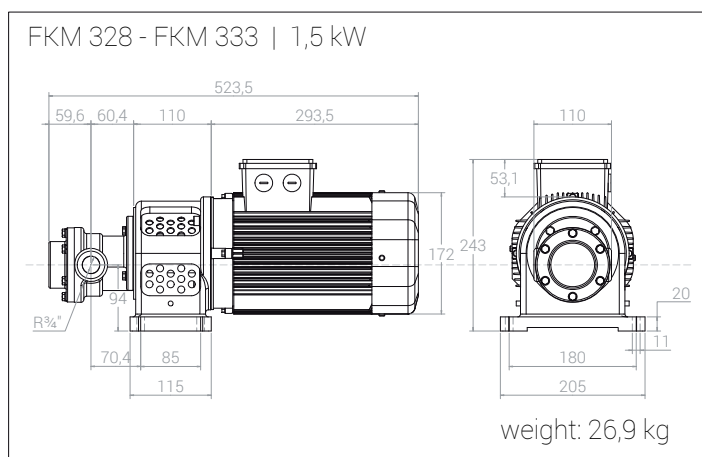
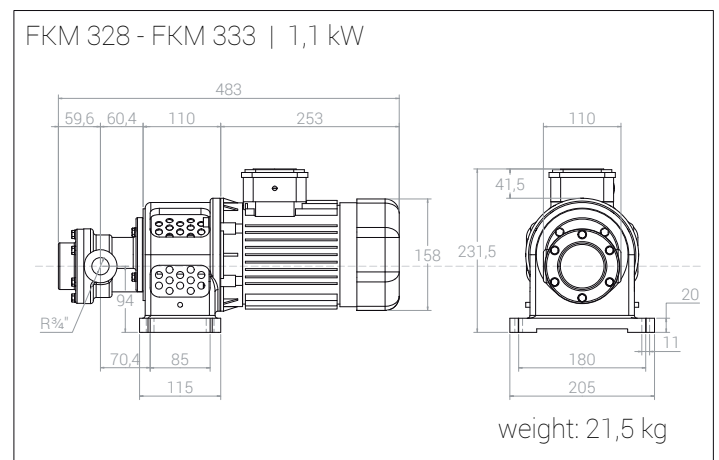
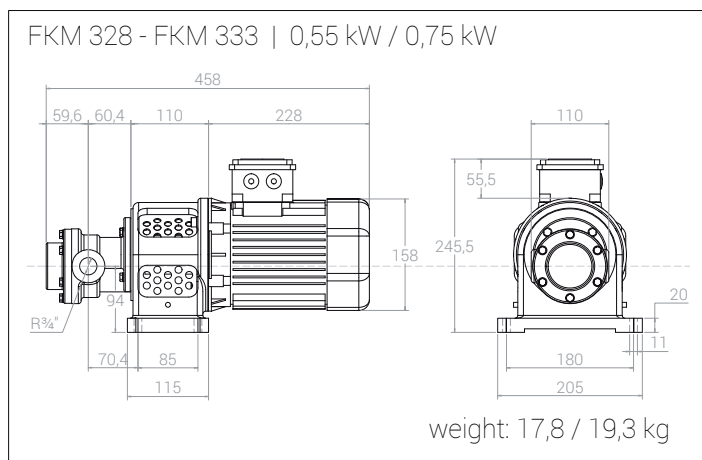
Performance (n ≈ 1450 min⁻¹):

type	motor power kW	pressure max. bar	capacity l/min	pressure (bar)				
				5	10	15	20	30
FKM 328	0,55	8		20,30	20,20			
	0,75	12		20,30	20,20	20,10		
	1,1	18		20,30	20,20	20,10	20,00	
	1,5	25		20,30	20,20	20,10	20,00	19,80
FKM 333	0,55	6		24,10	24,00			
	0,75	10		24,10	24,00			
	1,1	15		24,10	24,00	23,90		
	1,5	20		24,10	24,00	23,90	23,80	

Valid for hydraulic oil with 35 mm²/s at 50 °C
Tolerance of capacity: +/- 3%

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

Dimensions and weight



Electric-gear-pumps series FKM 422 bis FKM 438

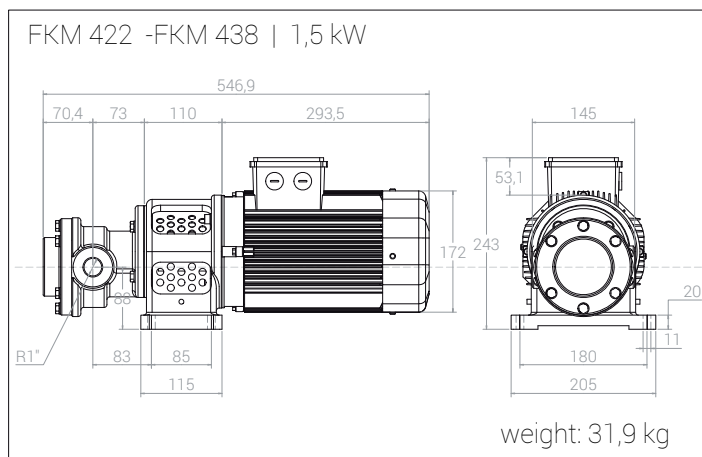
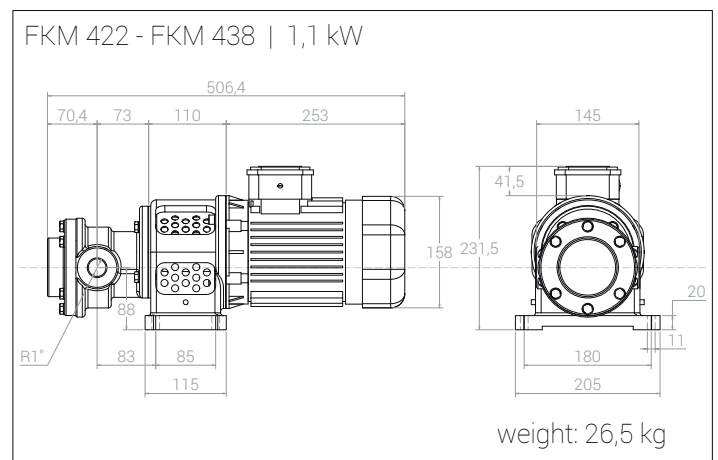
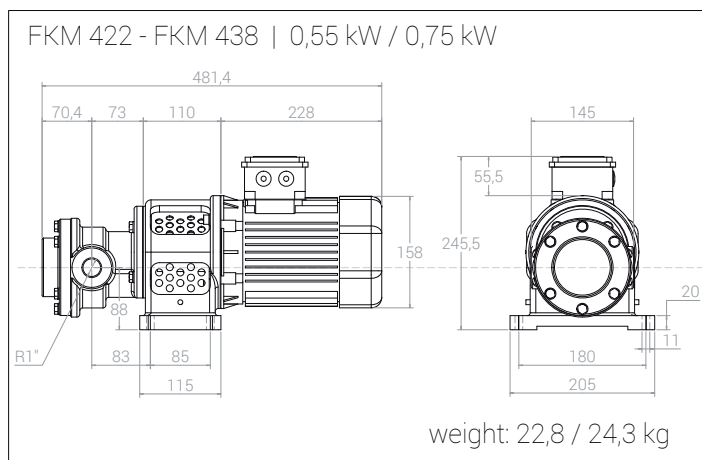
Performance (n ≈ 1450 min⁻¹):

type	motor power kW	pressure max. bar		pressure (bar)						
				5	10	15	20	30	40	50
FKM 422	0,55	5	capacity l/min	30,50						
	0,75	8		30,50	30,30					
	1,1	12		30,50	30,30	30,10				
	1,5	15		30,50	30,30	30,10				
FKM 426	0,55	4		36,20						
	0,75	6		36,20	36,00					
	1,1	10		36,20	36,00					
	1,5	13		36,20	36,00	35,80				
FKM 430	0,55	3		41,60						
	0,75	5		41,60						
	1,1	8		41,60	41,40					
	1,5	12		41,60	41,40	41,20				
FKM 434	0,55	2		47,30						
	0,75	4		47,30						
	1,1	7		47,30	47,10					
	1,5	10		47,30	47,10					
FKM 438	0,55	2		53,00						
	0,75	4		53,00						
	1,1	6		53,00	52,80					
	1,5	9		53,00	52,80					

Valid for hydraulic oil with 35 mm²/s at 50 °C
Tolerance of capacity: +/- 3%

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

Dimensions and weight



Electric-gear-pumps series FKM 545 bis FKM 556

Performance (n ≈ 1450 min⁻¹):

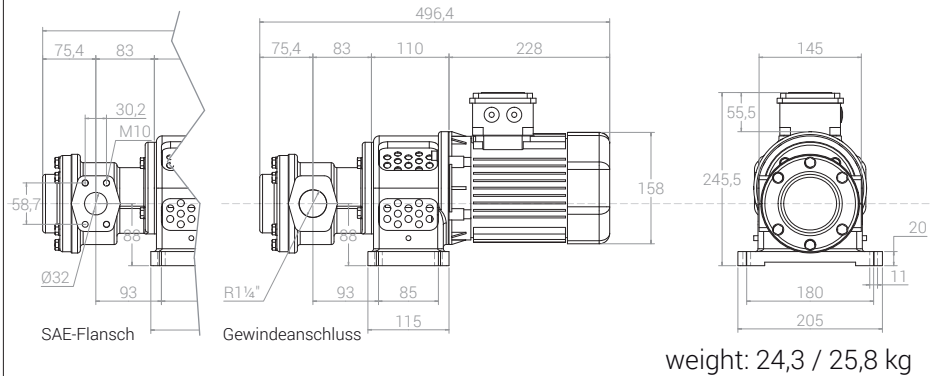
type	motor power kW	pressure max. bar		pressure (bar)						
				5	10	15	20	30	40	50
FKM 545	0,55	3	capacity l/min	62,70						
	0,75	4		62,70						
	1,1	6		62,70	62,50					
	1,5	8		62,70	62,50					
FKM 556	0,55	2		78,10						
	0,75	3		78,10						
	1,1	5		78,10						
	1,5	7		78,10	77,90					

Valid for hydraulic oil with 35 mm²/s at 50 °C
Tolerance of capacity: +/- 3%

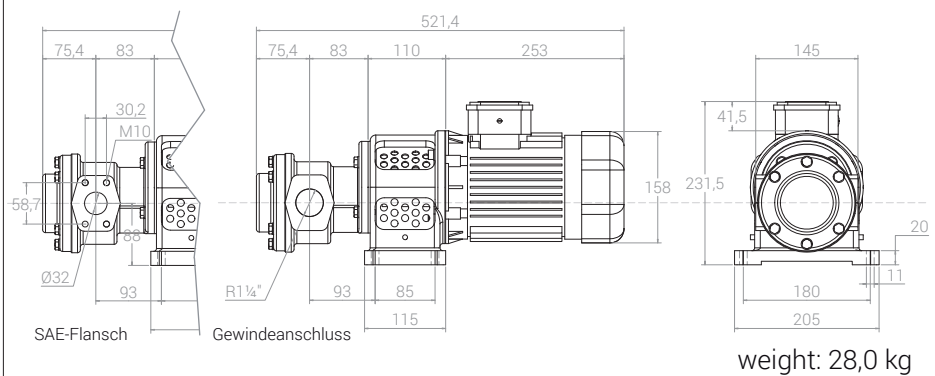
Oil-Speed: max. 1,5 m/s suction side, max. 4,5 m/s pressure side

Dimensions and weight

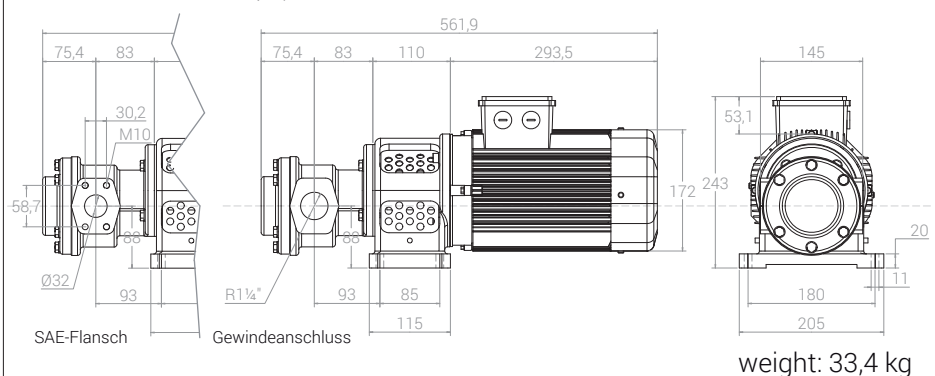
FKM545 - FKM556 | 0,55 / 0,75 kW



FKM545 - FKM556 | 1,1 kW



FKM545 - FKM556 | 1,5 kW



Electric-gear-pumps series FKM 570 bis FKM 590

Performance (n ≈ 1450 min⁻¹):

type	motor power kW	pressure max. bar		pressure (bar)						
				5	10	15	20	30	40	50
FKM 570	0,75	2	capacity l/min	97,70						
	1,1	4		97,70						
	1,5	5		97,70						
FKM 590	1,1	3		124,0						
	1,5	4		124,0						

Valid for hydraulic oil with 35 mm²/s at 50 °C
Tolerance of capacity: +/- 3%

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

Dimensions and weight

