

**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: -20°C to +60°C (NBR)  
 Ambient temperature from -20°C up to +40°C  
 operating pressure: max. 80 bar  
 others on request

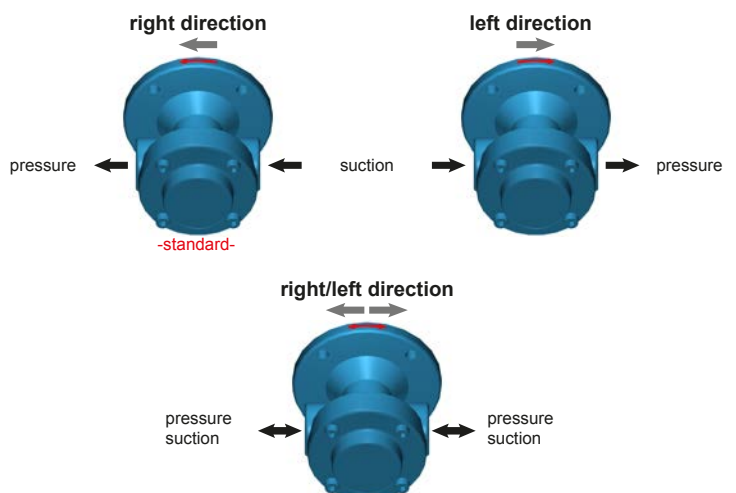
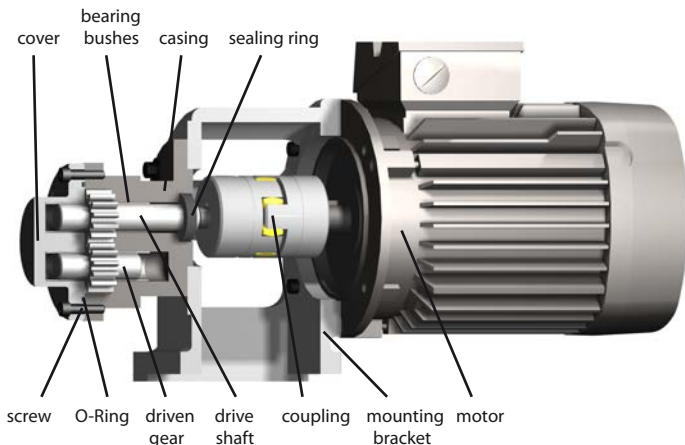
**Drive**

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

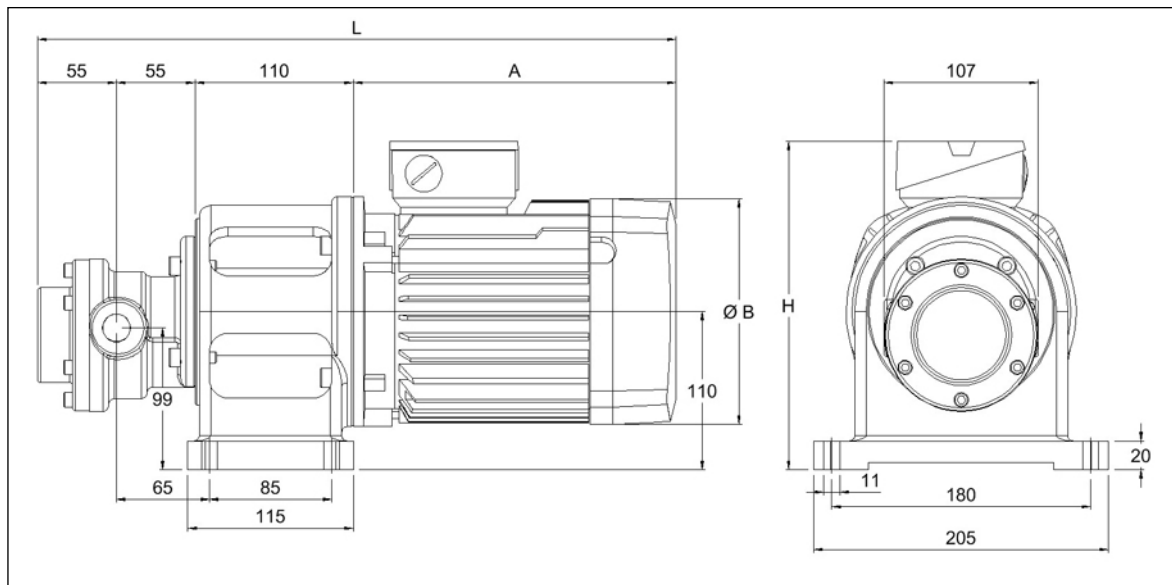
Performance (n ≈ 1450 min<sup>-1</sup>):

type	motor power kW	pressure max. bar	capacity l/min	pressure (bar)											
				5	10	15	20	30	40	50	60	70	80		
FKM 310	0,55	25		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 mm<sup>2</sup>/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



type	motor power kW	( mm )	Dimensions				weight kg
			A	Ø B	L	H	
FKM 310	0,55		225	157	444	229	17,3
FKM 314	0,75		247	157	462	229	18,4
FKM 318	1,1		271	177	490	237	22,2
FKM 323	1,5		301	177	520	237	24,7

## Electric-gear-pumps series FKM 328 bis FKM 333

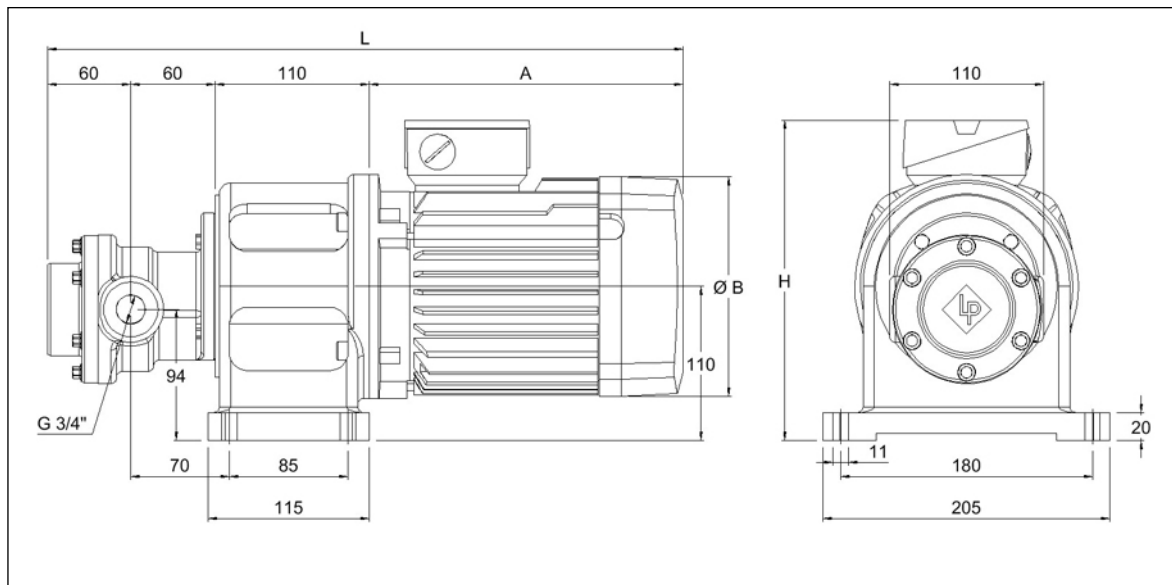
### Performance (n ≈ 1450 min<sup>-1</sup>):

type	motor power kW	pressure max. bar	capacity l/m in	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 mm<sup>2</sup>/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



type	motor power kW	( mm )	Dimensions				weight
			A	Ø B	L	H	kg
FKM 328	0,55		225	157	454	229	17,3
	0,75		247	157	472	229	18,4
1,1	271		177	500	237	22,2	
1,5	301		177	530	237	24,7	

## Electric-gear-pumps series FKM 422 bis FKM 438

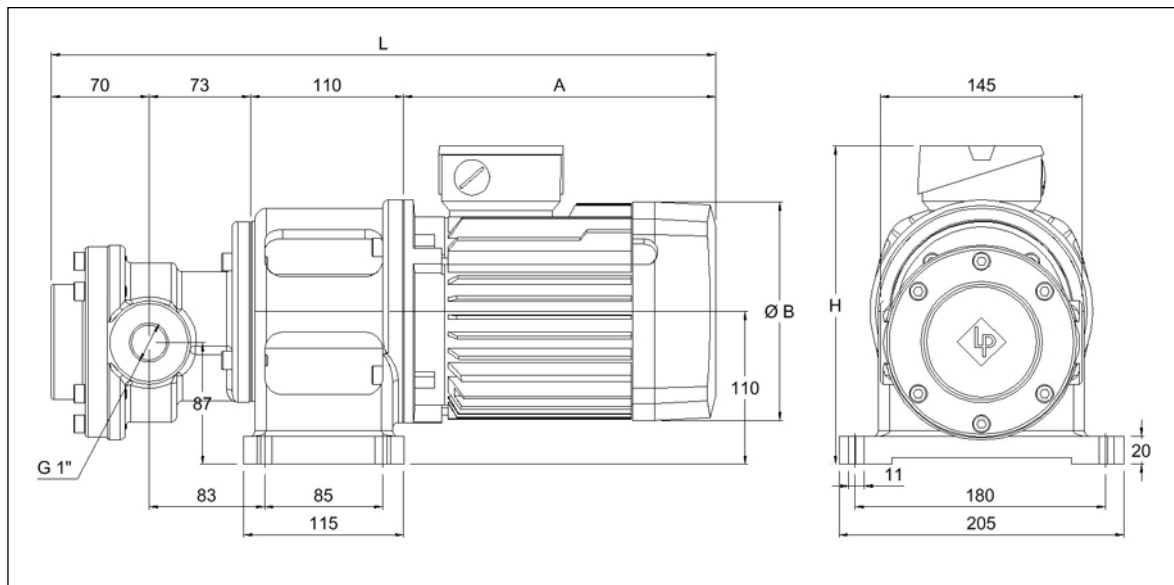
Performance (n ≈ 1450 min<sup>-1</sup>):

type	motor power kW	pressure max. bar	capacity l/min	pressure (bar)						
				5	10	15	20	30	40	50
FKM 422	0,55	5		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 mm<sup>2</sup>/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



type	motor power kW	( mm )	Dimensions				weight	
			A	Ø B	L	H	kg	
FKM 422	0,55		225	157	478	229	22	
FKM 426	0,75		247	157	500	229	23,1	
FKM 430	1,1		271	177	524	237	26,9	
FKM 434	1,5			301	177	554	237	29,4
FKM 438	1,5							

## Electric-gear-pumps series FKM 545 bis FKM 556

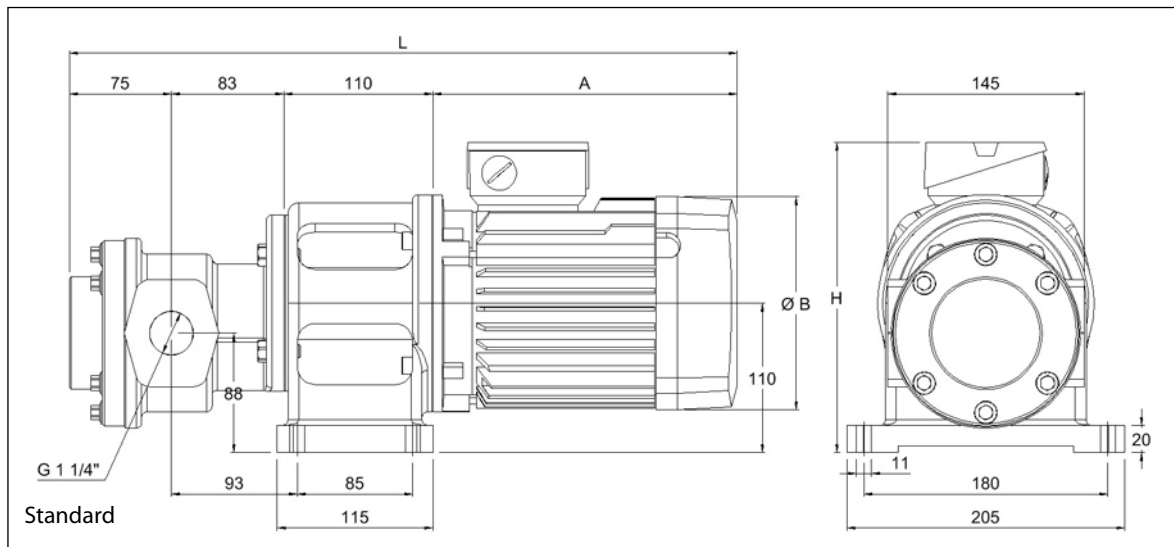
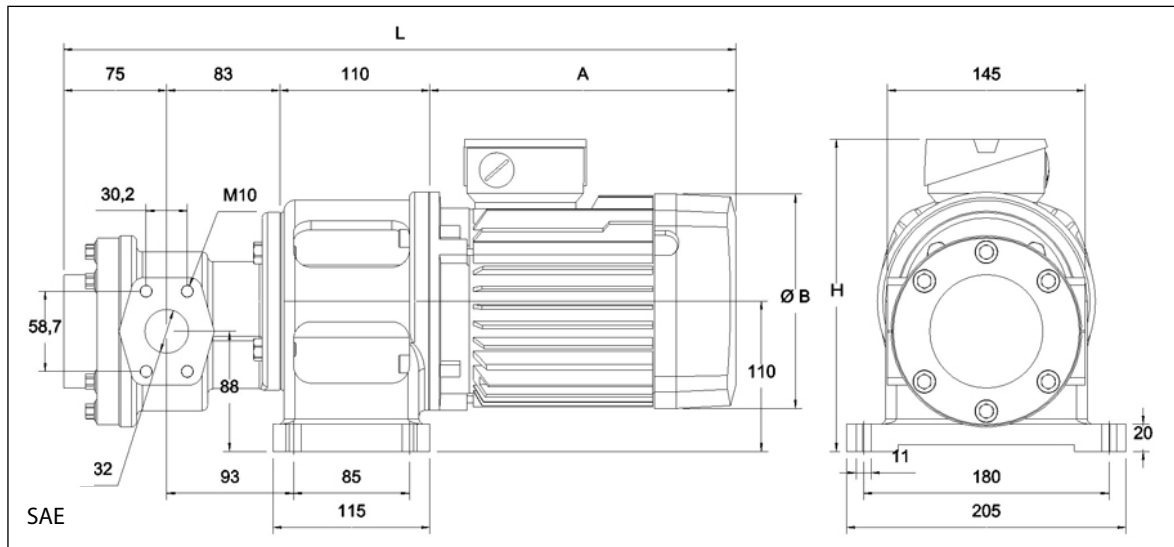
### Performance (n ≈ 1450 min<sup>-1</sup>):

type	motor power kW	pressure max. bar	capacity l/min	pressure (bar)						
				5	10	15	20	30	40	50
FKM 545	0,55	3		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 mm<sup>2</sup>/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



type	motor power kW	( mm )	Dimensions				weight
			A	Ø B	L	H	kg
FKM 545	0,55		225	157	493	229	23,1
	0,75		247	157	515	229	24,2
FKM 556	1,1		271	177	539	237	28,0
	1,5		301	177	569	237	30,5

## Electric-gear-pumps series FKM 570 bis FKM 590

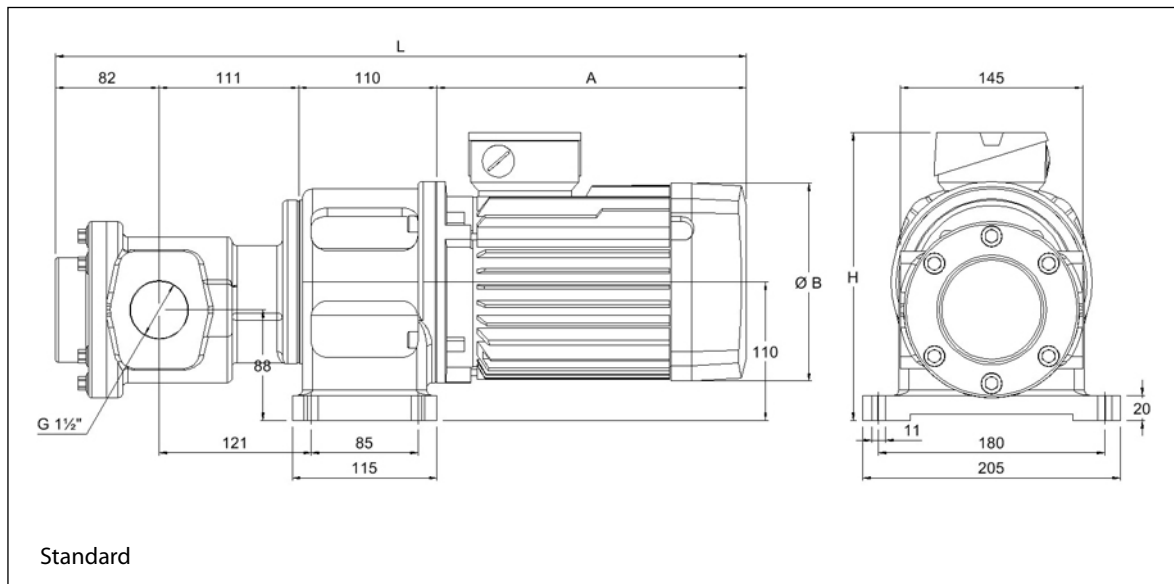
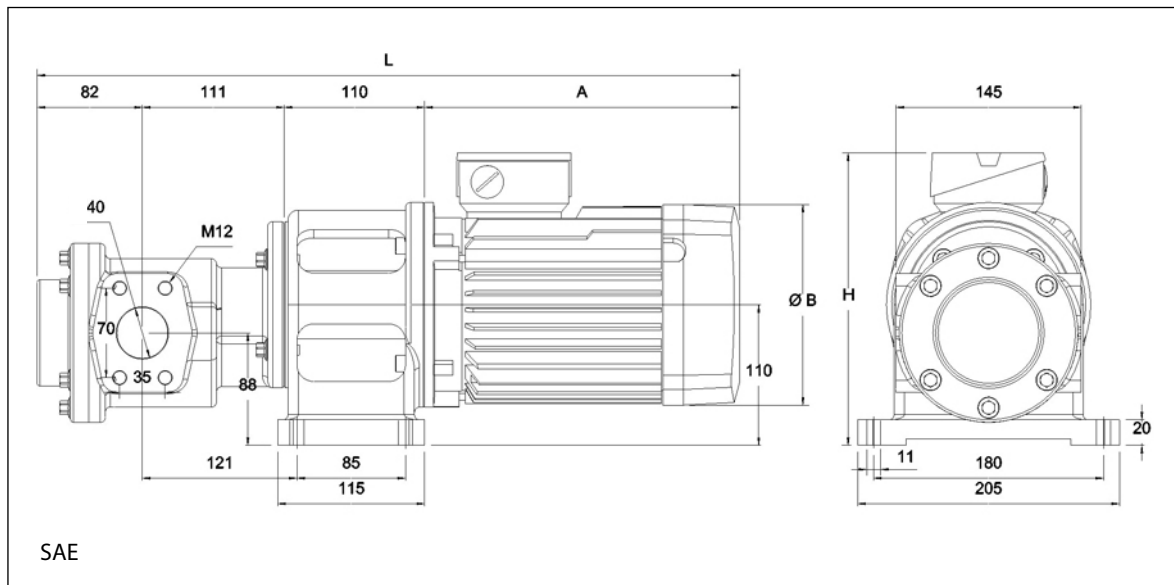
### Performance (n ≈ 1450 min<sup>-1</sup>):

type	motor power kW	pressure max. bar	capacity l/min	pressure (bar)						
				5	10	15	20	30	40	50
FKM 570	0,75	2	97,70							
	1,1	4								
	1,5	5								
FKM 590	1,1	3	124,00							
	1,5	4	124,00							

Valid for hydraulic oil with 35 mm<sup>2</sup>/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



type	motor power kW	( mm )	Dimensions				weight
			A	Ø B	L	H	kg
FKM 570 FKM 590	0,55		225	157	528	229	25,1
	0,75		247	157	550	229	26,2
	1,1		271	177	574	237	30,0
	1,5		301	177	604	237	32,5