

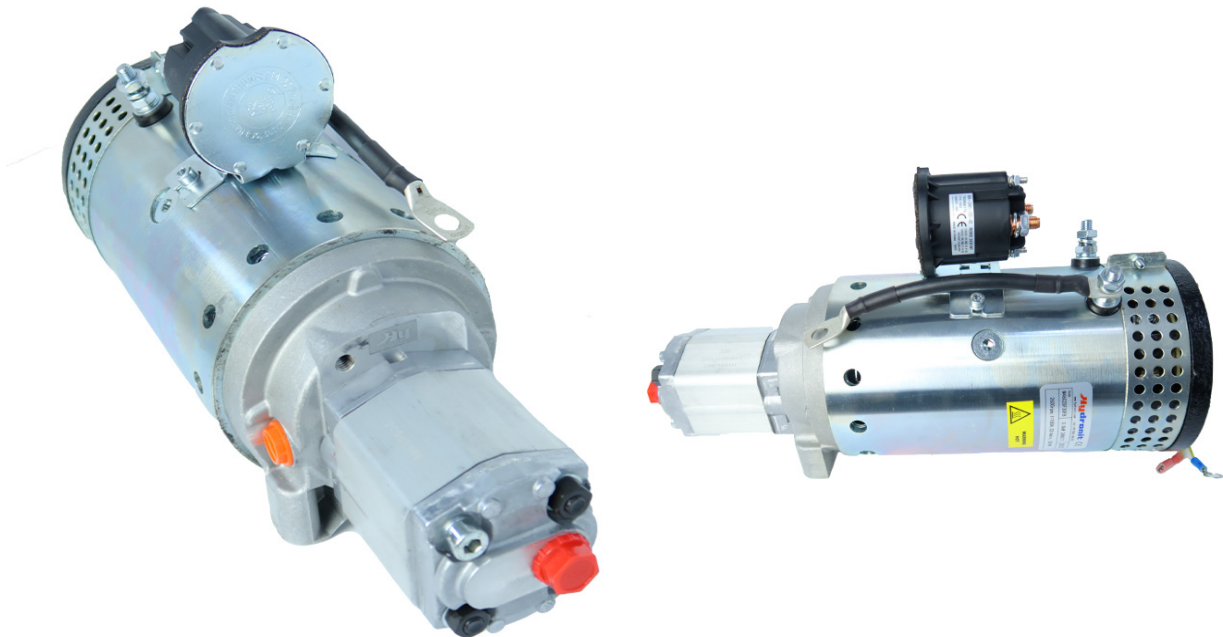
DC ELECTROPUMPS

*0,15 ~ 4 kW, 12V and 24V DC motors (same used in Compact and Micro power packs)

*Forced ventilation for high cycle times

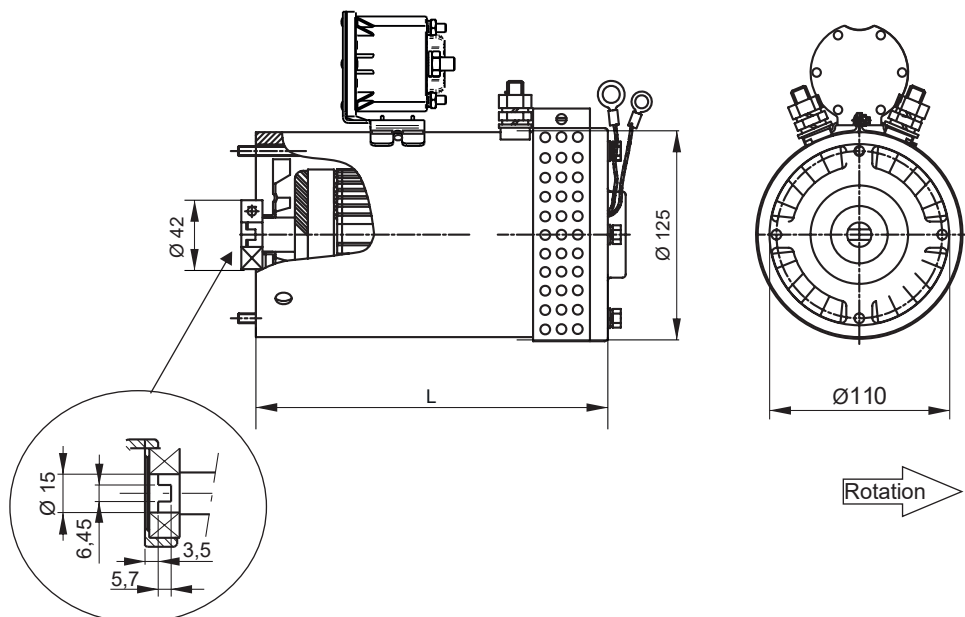
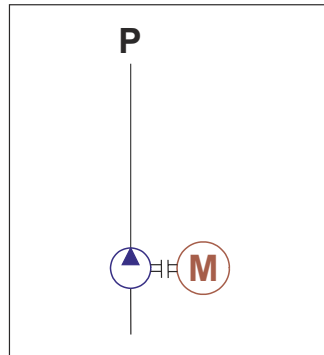
*0,19 ~ 7,9 cc/rev gear pumps (same used in Compact and Micro power packs. Available also lateral portspumps)

*Option: relief valve, starter switch, thermal protection, foot mounting support



1-INTEGRAL DC MOTORS Ø125 WITH COOLING FAN

- *Compound wound (3kW)
- *Series wound (4kW)
- *Protection degree: IP20
- *Insulation class: F
- *Weight: 11,45kg (without starter)
- *UL motors available on request



Description	Spare part code	Nominal duty cycle	Nominal speed	Nominal current	L
3000W 24 V DC with cooling fan +thermal protection	M46C2SF30F8	S2: 5min S3: 8% ED	2600 rpm	180 A	227,5 mm
4000W 24 V DC with cooling fan +thermal protection	M46C2SF40F8	S2: 4min S3: 6% ED	3500 rpm	230 A	227,5 mm

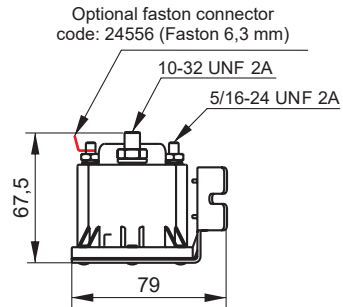
Options and couplings

Description	Assembly code	Spare part code
24V DC 300 Amp start switch + mounting kit	S300T 24DC 125_151	MASRH00002+ M47SK1121
24V DC 300 Amp start relay + mounting kit + Faston optional connector	S300T 24DC 125_151 F	MASRH00001+M-47SK1121+x24556
Coupling for Ø114 motors-Ø125DC motors and gr.1pump	E36200001	
Remote wired control with 2 buttons and 3m cable	P0201 (single acting)	
Remote wired control with 4 buttons and 3m cable	P0202 (double acting)	
Radio remote with 4 buttons handheld for 2 function, supply voltage 24 Volt	HM_RC_2F_24V	
Radio remote with 8 buttons, Handheld for 4 function, supply voltage 24 Vol	HM_RC_4F_24V	

DC Motor options



Starting relay 150A
for motors Ø80 - Ø114

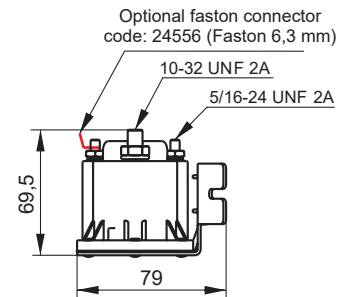


Nominal current	Peak current	Spare part code
150A	800A	M47TC0001 (12V DC) M47TC0002 (24V DC)
225A	600A	M47TC0004 (48V DC)

Coils	M47TC0001 12V DC	M47TC0002 24V DC	M47TC0004 48V DC
Max Sustained Duty Cycle (S3)	25%	25%	25%
Max On-Time (S2) @ 150A	6 min	6 min	6 min
Pull In Voltage	7,6 V	15,5 V	33 V
Hold minimum Voltage	3,5 V	7 V	14 V
Coil Resistance [Ohms]	5,7 Ω	20,1 Ω	86 Ω



Starting relay 300A
for motors Ø125 and 151

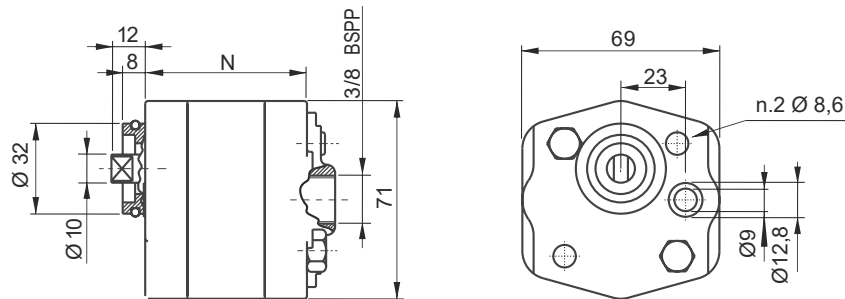


Nominal current	Peak current	Spare part code
300A	1000A	MASRH00001 (12V DC) MASRH00002 (24V DC)

Coils	MASRH00001 12V DC	MASRH00002 24V DC
Max Sustained Duty Cycle (S3)	25%	25%
Max On-Time (S2) @ 150A	6 min	6 min
Pull In Voltage at 25°C	8,5 V	15 V
Hold minimum Voltage at 25°C	4,5 V	7 V
Coil Resistance at 25°C [Ohms]	5,37 Ω	20,1 Ω

2-GEAR PUMPS

Gear Pump Gr1 K series



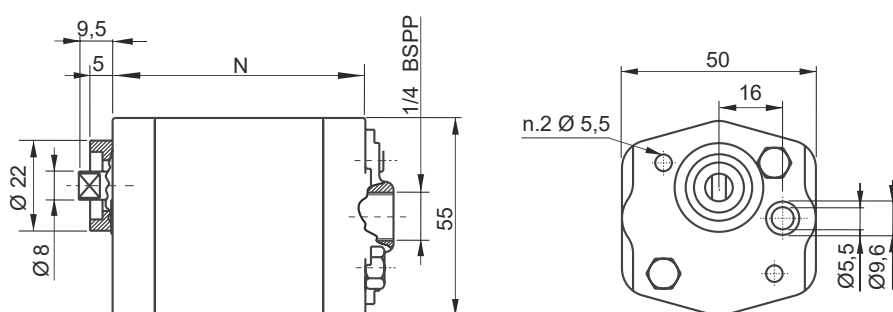
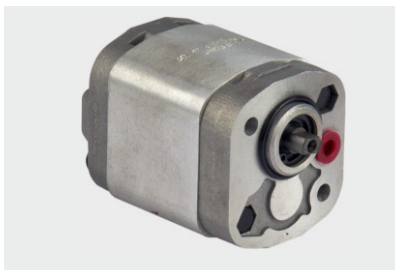
Main Features

Oil temperature	-15 ÷ +80 °C
Inlet pressure	0,7 < P < 3,0 bar (absolute pressure)
Fixing bolts	2x M8 8.8 class steel tightening torque: 21 ÷ 25 Nm
Pressure definition	Peak pressure: cycle 2s ON Intermittent pressure: cycle 20s ON Continuous pressure: cycle always ON

Available range

Displacement (cm ³)	Peak pressure (bar)	Intermittent pressure (bar)	Continuous pressure (bar)	Max speed (rpm)	N (mm)	Bolts (mm)	Spare part code	Weight (Kg)
0.9	250	230	210	4500	61.3	M8x75	E60604001	0.73
1.2	250	230	210	4500	62.8	M8x75	E60604002	0.75
1.6	250	230	210	4500	64.3	M8x80	E60604035	0.77
2.1	250	230	210	4500	66	M8x80	E60604004	0.79
2.7	250	230	210	4500	68.5	M8x80	E60604005	0.82
3.2	250	230	210	4500	70	M8x85	E60604006	0.86
3.7	230	210	180	3600	72	M8x85	E60604007	0.88
4.2	230	210	180	3600	74	M8x85	E60604008	0.90
5	210	180	140	3000	77	M8x90	E60604009	0.94
6	210	180	140	3000	81	M8x100	E60604010	0.98
7.9	180	140	100	2800	88.5	M8x100	E60604012	1.10

Gera Pump Gr1 K series



Main Features

Oil temperature	-15 ÷ +80 °C
Inlet pressure	0,7 < P < 3,0 bar (absolute pressure)
Fixing bolts	2x M8 8.8 class steel tightening torque: 21 ÷ 25 Nm
Pressure definition	Peak pressure: cycle 2s ON Intermittent pressure: cycle 20s ON Continuous pressure: cycle always ON

Available range

Displacement (cm³)	Peak pressure (bar)	Intermittent pressure (bar)	Continuous pressure (bar)	Max speed (rpm)	N (mm)	Bolts (mm)	Spare part code	Weight (Kg)
0.2	200	180	160	6000	45.5	M5x60	E60504002	0.33
0.4	200	180	160	6000	47.5	M5x65	E60504004	0.35
0.6	200	180	160	6000	51.5	M5x65	E60504006	0.40
0.9	200	180	160	5000	52.5	M5x70	E60504009	0.44
1.3	200	180	160	3900	55.5	M5x70	E60504013	0.49
1.5	200	180	160	3900	57.8	M5x70	E60504015	0.51

3-COUPLING+BASE FLANGE

Pump motor coupling kit

Pump Motor	Group 0 pump Series G - K - H - R	Group 1 pump Series G - K - KL- H - S
DC Ø 80	EPB80-0 (E36200007+E10101020)	n/a
DC Ø 114	n/a	EPB114-1 (E36200003+E10103010)
DC Ø 125	n/a	EPB114-1 (E36200003+E10103010)
DC Ø 151	n/a	EPB151 (E36100000+E36100003+E10105010)

Central flanges

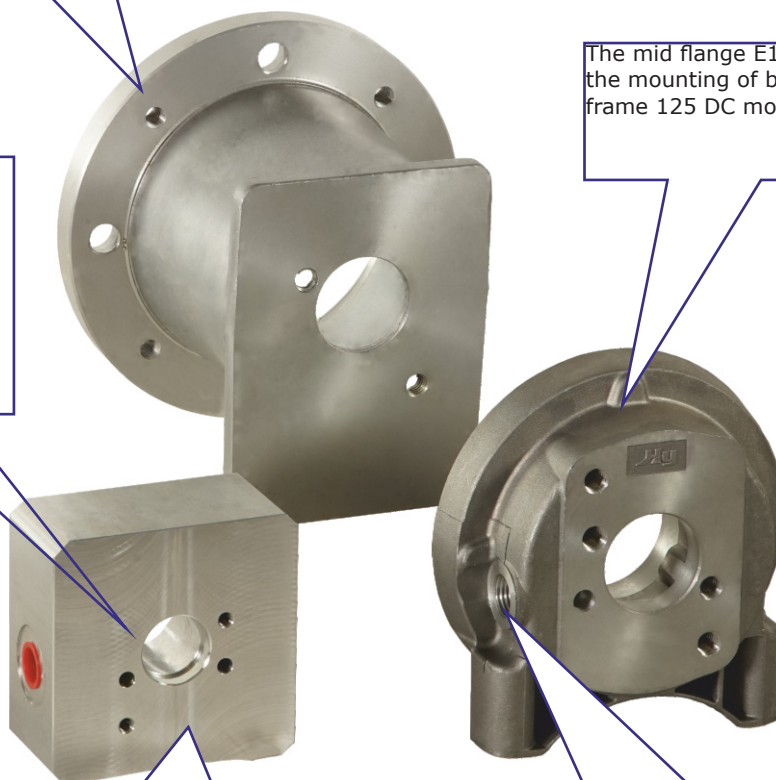
Three flanges to cover all DC-motors Hydronit range, from frame 80 up to frame 151mm.

The interfaces to pumps and motors are standardised. Motors and pumps already on stock for the Hydronit power packs range can be used to build electropumps too.

The mid flange E10103010 allows the mounting of both frame 114 and frame 125 DC motors.

Lateral ports pumps (KL series), allow the positioning of P and T ports where needed (right or left side, thanks to the double attachment) to simplify the power packs positioning within the machine.

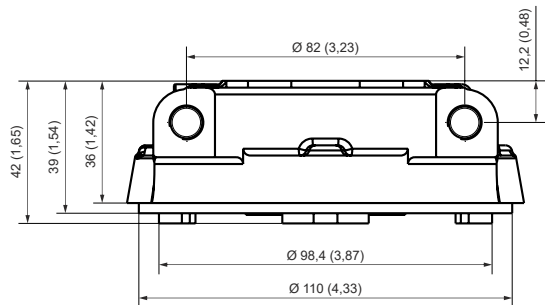
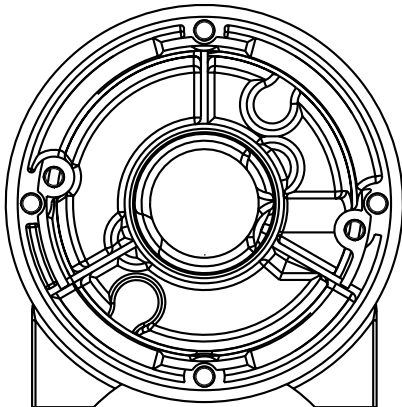
Standard gear pumps, as mounted in the power packs PPC and PPM ranges, can be mounted here too, thanks to the lateral P port on the flange. Double pumps, including those with an integral HI-LO circuit, are also available.



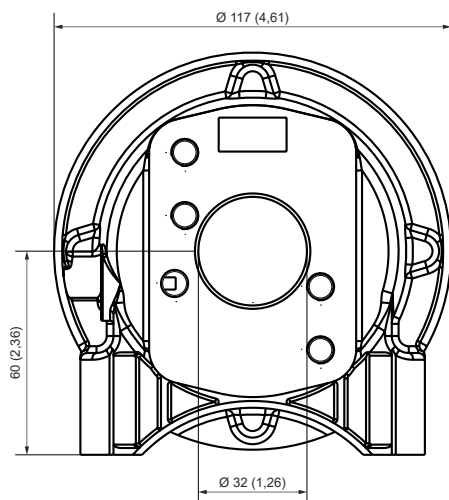
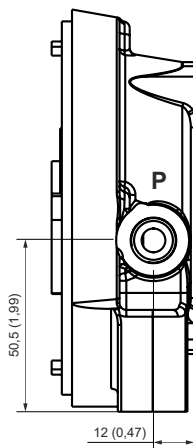
DC MOTORS Ø114 - Ø125 CENTRAL FLANGES - OVERALL DIMENSIONS

Spare part code	
E10103010	
Cavity	Threads
P	1/4 BSPP
DC motors attachment	tie rods M6
Pumps attachment	2 bolts M8x** (see pump lenghts on the relevant tables)
Mounting Foot attachment	2 bolts M10x18

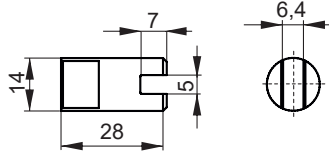
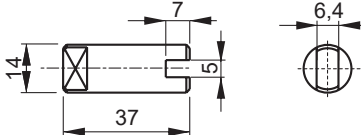
Motor side

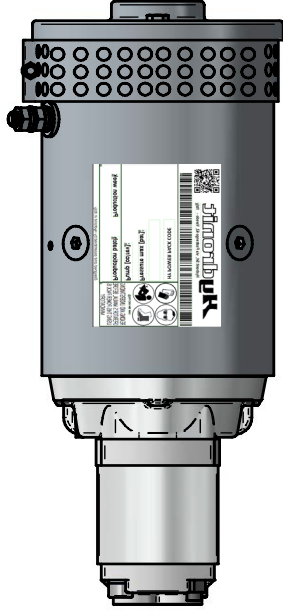
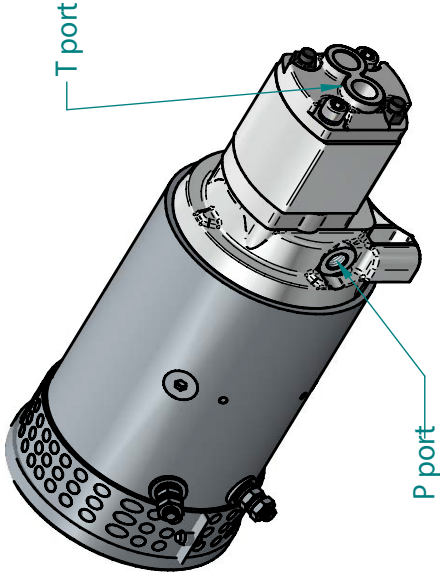
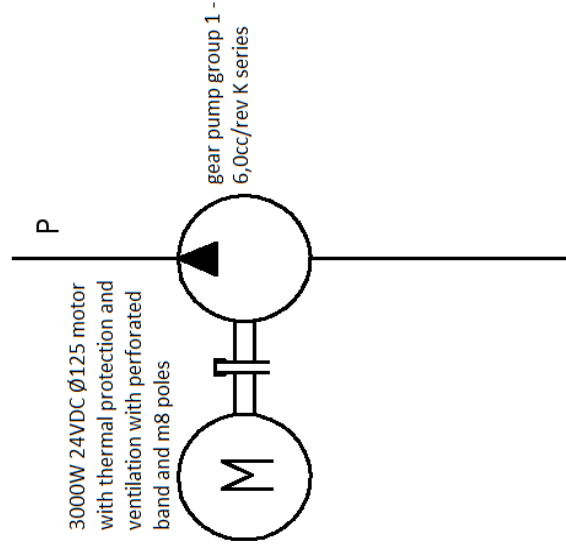
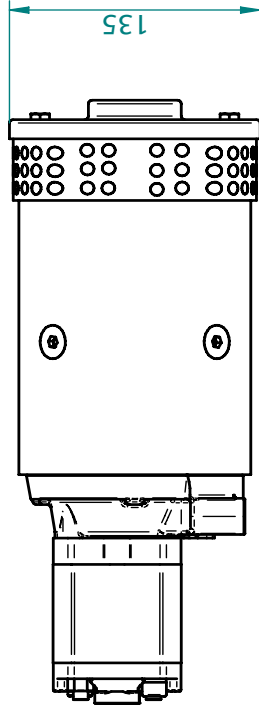
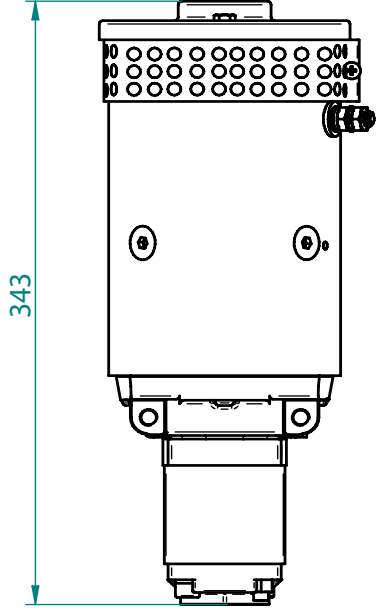
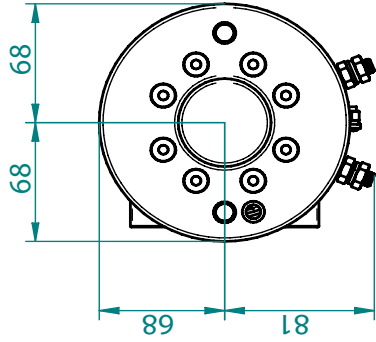


Pump side



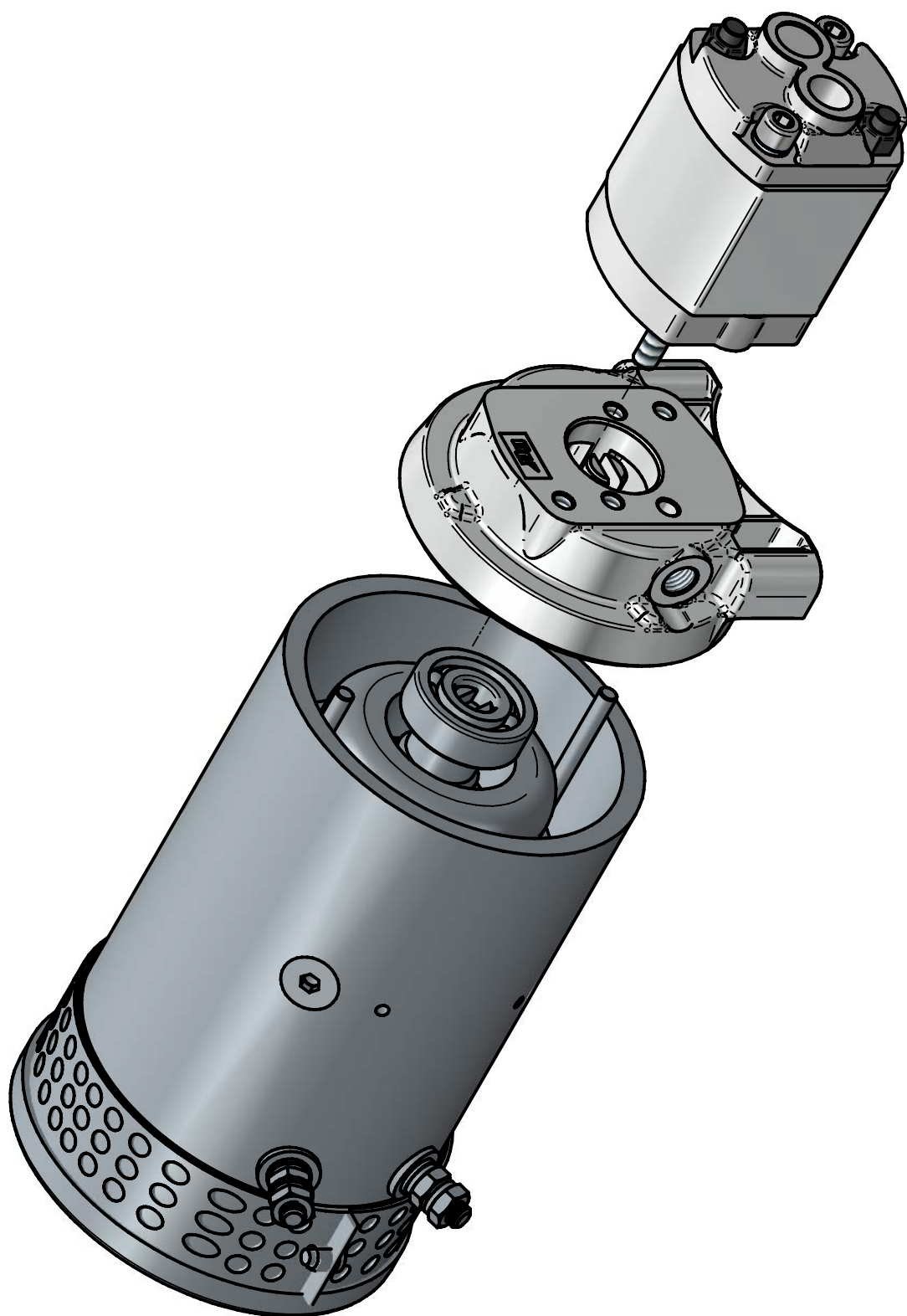
DC PUMP/MOTOR COUPLING KITS

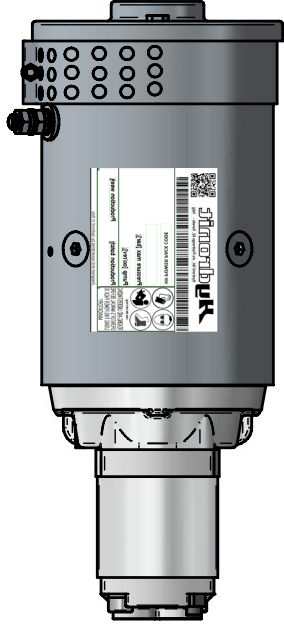
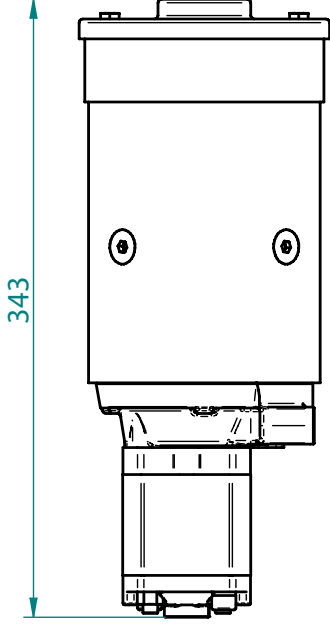
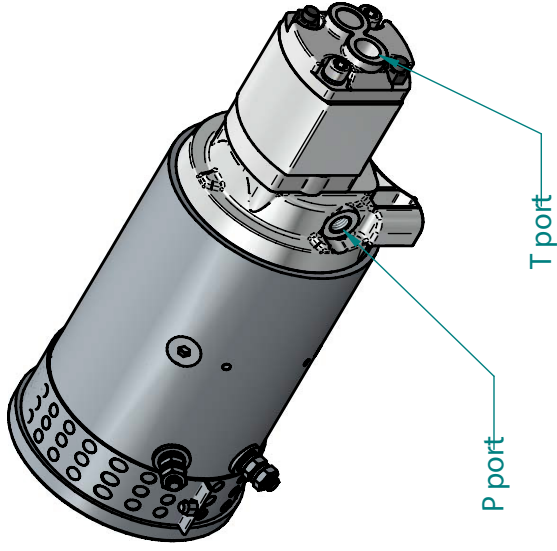
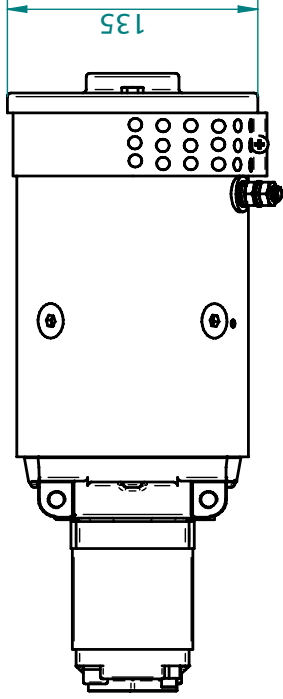
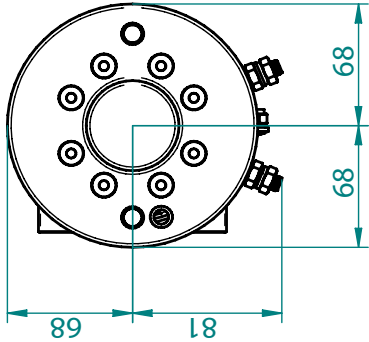
Pump Motor	Group 0 pump	Drawing dimensions
DC Ø 80	E36200003	
DC Ø 114	E36200002	



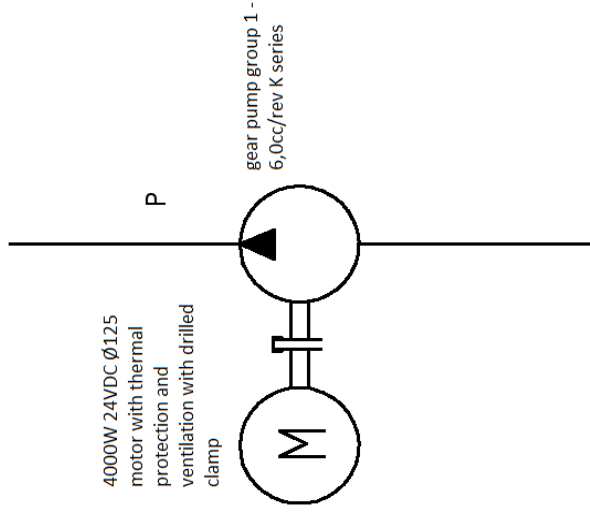
Spare part code	
E10103010	
Cavity	Threads
P	1/4 BSPP
DC motors attachment	tie rods M6
Pumps attachment	2 bolts M8x** (see pump lengths on the relevant tables)
Mounting Foot attachment	2 bolts M10x18 (wheelbase 82 mm)

Max pressure: 100 bar





4000W 24VDC Ø125
motor with thermal
protection and
ventilation with drilled
clamp



Max pressure: 95 bar

Spare part code	
E10103010	
Cavity	Threads
P	1/4 BSPP
DC motors attachment	tie rods M6
Pumps attachment	2 bolts M8x** (see pump lengths on the relevant tables)
Mounting Foot attachment	2 bolts M10x18 (wheelbase 82 mm)

