

5" GRJ Internal Eccentric Gear Pump



Performance:

Flow rate	110 m³/h
Pressure	1 - 10 bar
Temperature	0 - 200 °C
Speed	350 d/d
Viscosity	100 - 250000 SSU

Technical Features:

- Internal eccentric gear pump
- 5" flanged ports
- Compact design
- Reliable construction thanks to only two moving parts
- Various material options
- Available with external bypass, jacketed and blind cover
- 230v, three phase 50/60hz motors available
- Gearbox drive
- Manufactured according to CE regulations

Applications:

- Fuel oil, diesel fuel and gas oil transfer
- Small scale thermal oil applications including Marlotherm, Duratherm, Paratherm, Multitherm, Mobiltherm and Dowtherm
- Lubrication applications
- Coolant transfer
- Any transfer of low to medium viscosity fluids with lubricating properties
- Not suitable for fluids containing abrasive particles

Material Options:

Pig cast iron, Spheroidal cast iron, cast steel, AISI 304/316 CrNi Stainless Steel Pump casings:

Spheroidal cast iron, cast steel, AISI 304/316 CrNi Stainless Steel Gears:

Bearings: Snbz 12 bronze, ball bearing, carbon graphite, silicon carbide, hard metal coated steel

Soft seal or packing gland, Rotatherm seal, lip seal, mechanical seal, Sealing:

cartridge type mechanical seal

Capacity & Power Table										
Capacity (Q)	Conned (ware)		Pressure		Vicesita					
	Speed (rpm)	Speed (rpm) 3 Bar 5 Bar 7 B		7 Bar	9 Bar	Viscosity				
68	175	30 HP	40 HP	40 HP	50 HP	25000 SSU				
90	225	30 HP	40 HP	40 HP	50 HP	7500 SSU				
105	275	30 HP	40 HP	50 HP	60 HP	2500 SSU				
135	350	30 HP	40 HP	50 HP	60 HP	750 SSU				



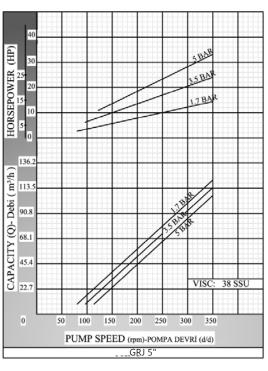


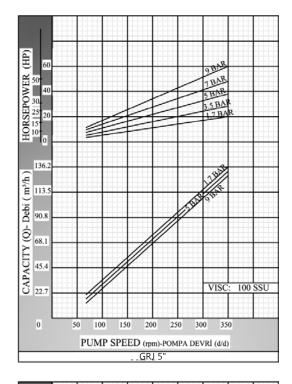


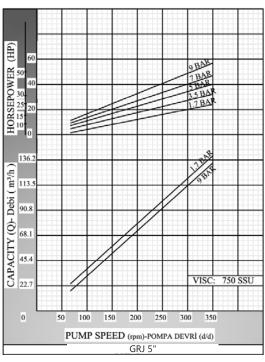


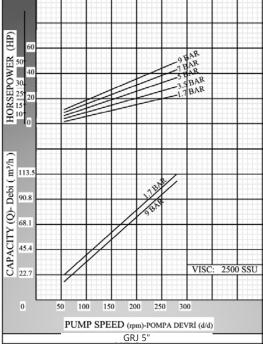


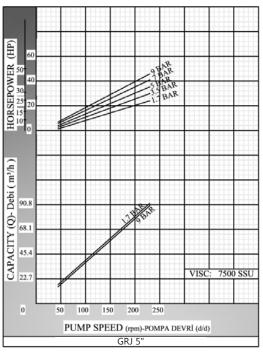
Pump Dimensions - Capacity Graphs:

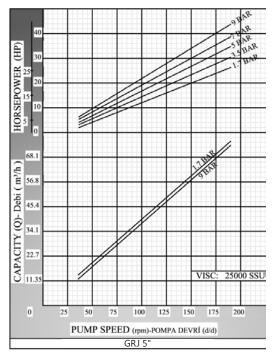


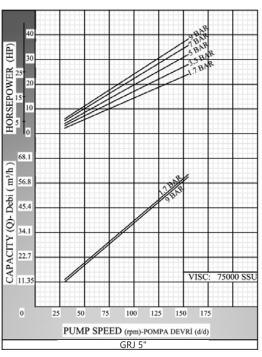


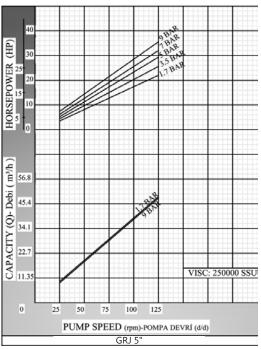




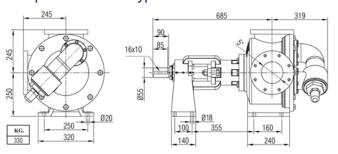






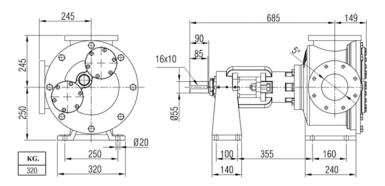


Pump Dimensions - Bypassed:

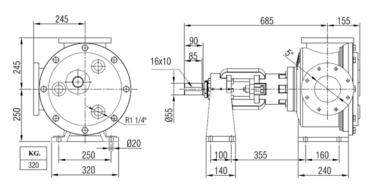




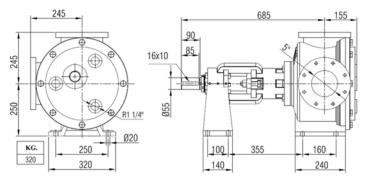
Pump Dimensions - Blind covered:



Pump Dimensions - with jacket:

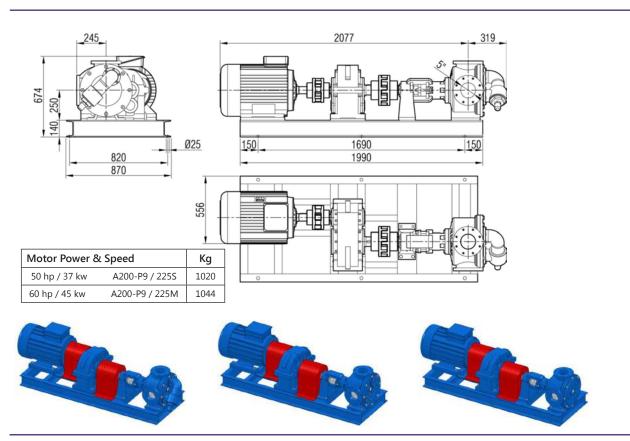


Pump Dimensions - Gearbox drive:

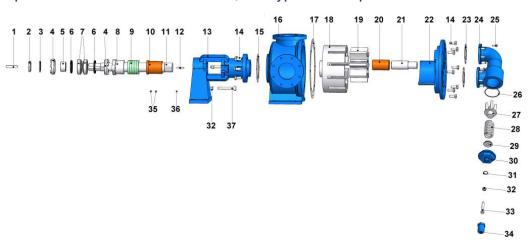


	1		1	1	1	Г		Г		
Motor Power &	Speed		I	HD	Н	В	С	D	E	Kg
25 hp / 18.5 kw	145/350 d/d (rpm)	IRAM82/180M	1665	626	248	1040	1240			600
30 hp / 22 kw	105/350 d/d (rpm)	IRAM92/180L	1783	617	248	1110	1310	430	480	720
40 hp / 30 kw	204/350 d/d (rpm)	IRAM92/200L	1822	644	275	1110	1310			755
50 hp / 37 kw	89/350 d/d (rpm)	IRAM102/225S	1913	CE 4	205	1200	1400	F20	F70	900
60 hp / 45 kw	113/350 d/d (rpm)	IRAM102/225M	1942	654	54 285	1200	1400	520	570	1005



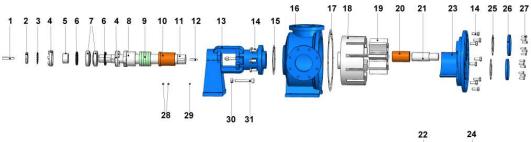


Spare Parts List - Sealed with soft seal, and bypassed with pressure relief valve:



No.	Part Name.	Qty.	No.	Part Name.	Qty.	No.	Part Name.	Qty.
1	Coupling Key 16x10x85 AB	1	14	Hex Bolt M16x40	14	27	Valve	1
2	Lock Nut	1	15	Bracket Gasket	1	28	Spring	1
3	Lock Washer	1	16	Casing (w/ 90° Flanged Ports)	1	29	Washer	1
4	Adjusting Nut	2	17	Bracket Gasket	1	30	Bypass Cover	1
5	Spacer (Adjusting Nut)	1	18	Rotor Gear	1	31	Cap O-Ring	1
6	Lip Seal ø70xø95x10	2	19	Idler Gear	1	32	Nut M16	3
7	Ball Bearing (32212)	2	20	Idler Bushing	1	33	Adjusting Screw M16x90	1
8	Packing Press	1	21	Cover Pin	1	34	Cap	1
9	Soft Seal Packing Gland	1 TK	22	Cover	1	35	Grub Screw M12x20	4
10	Bracket Bushing	1	23	Bypass Gasket	2	36	Greasing Fitting R3/8"	1
11	Shaft	1	24	Pressure Relief Valve - Bypass	1	37	Square Screw M16x120	2
12	Rotor Key 12x8x55 A	1	25	Hex Bolt M10x30	12			
13	Bracket	1	26	Bypass O-Ring	1			

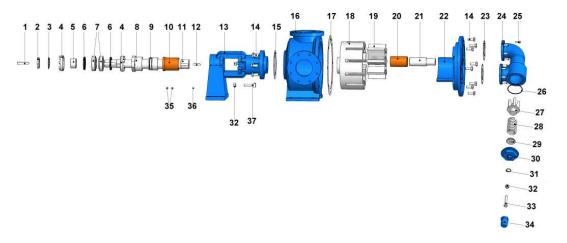
Spare Parts List - Sealed with soft seal, jacketed, and with blind cover:





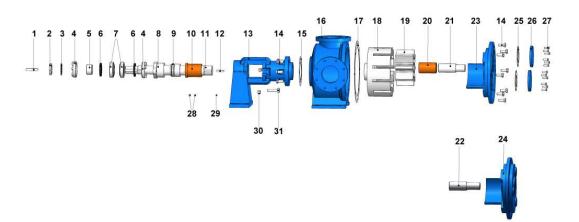
No.	Part Name.	Qty.	No.	Part Name.	Qty.	No.	Part Name.	Qty.
1	Coupling Key 16x10x85 AB	1	12	Rotor Key 12x8x55 A	1	23	Cover	1
2	Lock Nut	1	13	Bracket	1	24	Jacketed Cover	1
3	Lock Washer	1	14	Hex Bolt M16x40	14	25	Bypass Gasket	2
4	Adjusting Nut	2	15	Bracket Gasket	1	26	Pressure Relief Valve - Bypass	2
5	Spacer (Adjusting Nut)	1	16	Casing (w/ 90° Flanged Ports)	1	27	Hex Bolt M10x30	12
6	Lip Seal ø70xø95x10	2	17	Bracket Gasket	1	28	Grub Screw M12x20	4
7	Ball Bearing (32212)	2	18	Rotor Gear	1	29	Greasing Fitting R3/8"	1
8	Packing Press	1	19	Idler Gear	1	30	Nut M16	2
9	Soft Seal / Packing Gland	1 TK	20	Idler Bushing	1	31	Square Screw M16x120	2
10	Bracket Bushing	1	21	Cover Pin	1			
11	Shaft	1	22	Jacketed Cover Pin	1			

Spare Parts List - Sealed with mechanical seal, and bypassed with pressure relief valve:



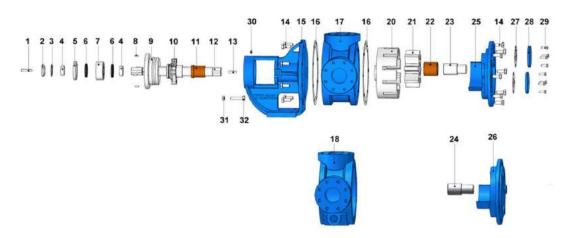
No.	Part Name.	Qty.	No.	Part Name.	Qty.	No.	Part Name.	Qty.
1	Coupling Key 16x10x85 AB	1	14	Hex Bolt M16x40	14	27	Valve	1
2	Lock Nut	1	15	Bracket Gasket	1	28	Spring	1
3	Lock Washer	1	16	Casing (w/ 90° Flanged Ports)	1	29	Washer	1
4	Adjusting Nut	2	17	Bracket Gasket	1	30	Bypass Cover	1
5	Spacer (Adjusting Nut)	1	18	Rotor Gear	1	31	Cap O-Ring	1
6	Lip Seal ø70xø95x10	2	19	Idler Gear	1	32	Nut M16	3
7	Ball Bearing (32212)	2	20	Idler Bushing	1	33	Adjusting Screw M16x90	1
8	Packing Press (For Mech. Seal)	1	21	Cover Pin	1	34	Cap	1
9	Mechanical Seal Ø70	1	22	Cover	1	35	Grub Screw M12x20	4
10	Bracket Bushing	1	23	Bypass Gasket	2	36	Greasing Fitting R3/8"	1
11	Shaft	1	24	Pressure Relief Valve - Bypass	1	37	Square Screw M16x70	2
12	Rotor Key 12x8x55 A	1	25	Hex Bolt M10x30	12			
13	Bracket	1	26	Bypass O-Ring	1			

Spare Parts List - Sealed with mechanical seal, jacketed and with blind cover:



No.	Part Name.	Qty.	No.	Part Name.	Qty.	No.	Part Name.	Qty.
1	Coupling Key 16x10x85 AB	1	12	Rotor Key 12x8x55 A	1	23	Cover	1
2	Lock Nut	1	13	Bracket	1	24	Jacketed Cover	1
3	Lock Washer	1	14	Hex Bolt M16x40	14	25	Bypass Gasket	2
4	Adjusting Nut	2	15	Bracket Gasket	1	26	Pressure Relief Valve - Bypass	2
5	Spacer (Adjusting Nut)	1	16	Casing (w/ 90° Flanged Ports)	1	27	Hex Bolt M10x30	12
6	Lip Seal ø70xø95x10	2	17	Bracket Gasket	1	28	Grub Screw M12x20	4
7	Ball Bearing (32212)	2	18	Rotor Gear	1	29	Greasing Fitting R3/8"	1
8	Packing Press (For Mech. Seal)	1	19	Idler Gear	1	30	Nut M16	2
9	Mechanical Seal Ø70	1	20	Idler Bushing	1	31	Square Screw M16x70	2
10	Bracket Bushing	1	21	Cover Pin	1			
11	Shaft	1	22	Jacketed Cover Pin	1			

Spare Parts List - Sealed with cartex mechanical seal, jacketed and with blind cover:



No.	Part Name.	Qty.	No.	Part Name.	Qty.	No.	Part Name.	Qty.
1	Coupling Key 12x8x60 AB	1	12	Shaft	1	23	Cover Pin	1
2	Lock Nut	1	13	Rotor Key 12x8x45 A	1	24	Jacketed Cover Pin	1
3	Lock Washer	1	14	Hex Bolt M16x40	16	25	Cover	1
4	Spacer	2	15	Bracket (w/ Cartex Mech. Seal)	1	26	Jacketed Cover	1
5	Pulley Cover	1	16	Bracket & Cover Gasket	2	27	Bypass Gasket	2
6	Lip Seal ø55xø72x10	2	17	Casing (w/ 90° Flanged Ports)	1	28	Bypass Inlets Cover	2
7	Ball Bearing (3209)	1	18	Casing (w/ 90° Flanged Ports & w/ Heating Jacket)	1	29	Hex Bolt M10x30	8
8	Grub Screw M8x20	4	19			30	Greasing Fitting R3/8"	1
9	Pulley	1	20	Rotor Gear	1	31	Nut M14	2
10	Cartex Mechanical Seal Ø50	1	21	Idler Gear	1	32	Square Screw M14x90	2
11	Bracket Bushing	1	22	Idler Bushing	1			