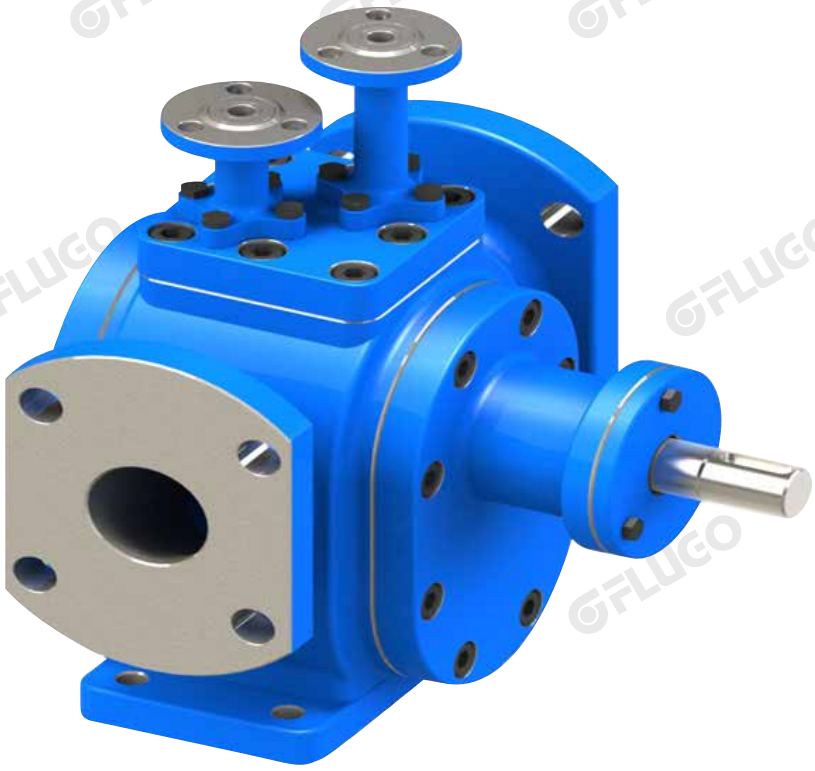
FLUGO

Technical Catalogue



RCB Series

Gear Pump

3. Design

Two precision-milled gear wheels (driving and driven gears) rotate in the pump casing, During rotation, the gears lock the liquid in the suction casing between the pump casing and the teeth flute and convey it to the discharge branch.

The driving shaft is located above the driven shaft and ends on one side outside the casing with a cylindrical part with a key for fixing the coupling. Shaft at both ends are supported on bearing bushes lubricated by the liquid being pumped. The relief of the rotor from the radial thrust and the packing from the liquid pressure is attained by suitable inner modifications respecting the operation conditions of the individual pump types. The stuffing box with cord packing prevents the penetration of the pumped liquid around the driving shaft.

4. Safety Device

The ZPG pumps have the safety valves installed directly in the casing. On the rated pressure being exceeded, the safety valve will release the handled liquid back into the suction casing through the inner channel in the pump casing.

5. Drive

The ZPG gear pumps are designed basically for direct coupling usually to an electric motor, and located together on a common bedplate. At lower speeds, i,e., below 735rpm, the drives is provide either by an electric motor with built-in transmission in the shield, or by a special transmission box between the motor and pump. The driving shaft of the pump can be loaded by torque only. The radial and axial thrusts of the prime mover are eliminated

6. Direction of Rotation

The ZPG hear pumps rotate usually in the clockwise direction (viewed from the drive side). On special requirement, however, the pumps can be supplied in anti-clockwise execution, with opposite flow direction of the liquid. No pump can be used for both directions of rotation.

7. Material

The pumps are having the pumps casing of cast iron, and the gear wheels and shafts of steel. The bearing bushes of the ZPG type are made of bronze self-lubricating bearing.

Model	Port Size: (mm)	Flow Volume		Exhausting pressure MPa	Exhausting Vacuum M	Working temperature (°C)	Motor	
		L/min	m³/h				Power (kW)	Type
RCB- 1/0.36 1/0.8	Ø 16	16.6	1	0.36 0.8	5	180	1.1 1.5	Y90S-4 Y90L-4
RCB- 2/0.36 2/0.8	Ø 25	33.3	2	0.36 0.8	5	180	1.5 2.2	Y90L-4 Y100L1-4
RCB- 3/0.36 3/0.8	Ø 25	50	3	0.36 0.8	5	180	1.5 2.2	Y100L-6 Y112M-6
RCB- 5/0.36 5/0.8	Ø 40	83.3	5	0.36 0.8	5	180	2.2 3	Y100L-4 Y132S-6
RCB- 6/0.36 6/0.8	Ø 40	100	5	0.36 0.8	5	180	2.2 4	Y100L1-4 Y112M-4
RCB- 8/0.36 8/0.8	Ø 50	133	8	0.36 0.8	5	180	3 4	Y132M1-6 Y132S-6
RCB- 10/0.36 10/0.8	Ø 50	166	12	0.36 0.8	5	180	4 5.5	Y112M-4 Y132S-4
RCB- 12/0.36 12/0.8	Ø 50	200	12	0.36 0.8	5	180	4 5.5	Y132M1-6 Y132M2-6
RCB- 18/0.36 18/0.8	Ø 70	300	18	0.36 0.8	5	180	5.5 7.5	Y32M2-6 Y160M-6
RCB- 29/0.36 29/0.8	Ø 70	483.3	29	0.36 0.8	5	180	5.5 7.5	Y132S-4 Y132M-4
RCB- 32/0.36 32/0.8	Ø 100	534	32	0.36 0.8	5	180	11 15	Y160L-6 Y180L-6
RCB- 38/0.28 38/0.8	Ø 100	633	38	0.28 0.8	5	180	11 15	Y160L-6 Y180L-6
RCB- 58/0.36 58/0.8	Ø 100	960	58	0.28 0.8	5	180	18.5 22	Y180M-4 Y180L-4
RCB- 72/0.8	Ø 150	1200	72	0.28	5	180	37	Y280S-8
RCB- 96/0.28	Ø 150	1600	96	0.28	5	180	45	Y280S-6
RCB- 110/0.28	Ø 200	1800	110	0.28	5	180	55	Y315S-8
RCB- 150/02.8	Ø 200	2500	150	0.28	5	180	75	Y315S-6
RCB- 170/0.28	Ø 250	2850	170	0.28	5	180	90	Y315L1-8
RCB- 230/0.28	Ø 250	3800	230	0.28	5	180	110	Y315L1-6

RCB Series - Gear Pump

Authorized Distributor