

## B Series Gear Pump

**APPLICATIONS** - The "B" series are volumetric pumps with gearing suitable for transferring of viscous and devoid of suspended solid substances liquids. .  
These are self-priming pumps and are employed for a wide range of liquids with a viscosity going from 1 to 700'E. Rotation speed of the pump is chosen according to the viscosity of the liquid to be pumped; on this subject it is useful to apply to our technical department. They are employed for the transferring of: fuel oil, cosmetics items foodstuffs, varnishes, lubricants.

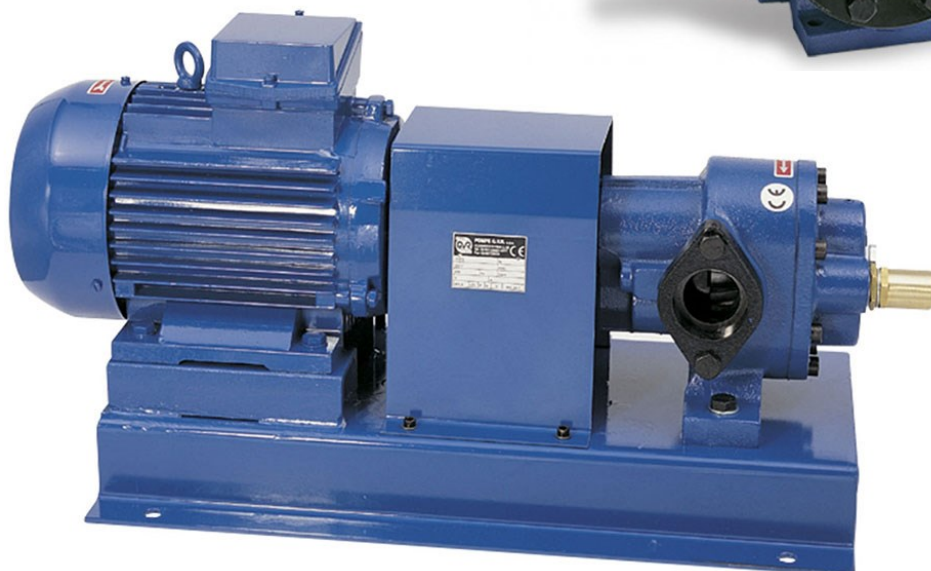
### MATERIALS OF CONSTRUCTION -

The standard execution of the "B" series pumps is in cast iron with heat treated steel gearing and shafts. The suction and delivery nozzles have the same diameter and are on the same axis (in-line). In the standard version they can operate up to a maximum liquid temperature of 160°C subject to confirmation.

### EXECUTIONS -

B = pump with cast iron bare shaft  
BZ = pump with bronze bare shaft  
BX = pump with stainless steel bare shaft  
BC = pump with heating chamber bare shaft  
. /B = with packing seal  
. /C = with mechanical seal  
/A = with ring seal  
N4BM - MBMX - N/BMZ = pumps of the B - BX - BZ series put on a single base plate and coupled to electric motor of 83 form.

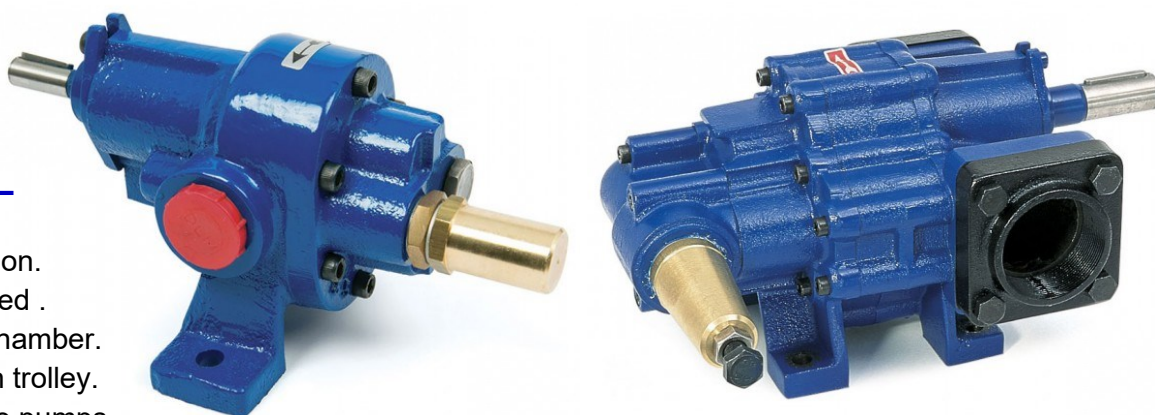
For a correct choice of the pump it is imperative to know: .  
type of the liquid to be pumped. temperature . viscosity .  
delivery, capacity . head inclusive all losses . specific weight .



# Gear Pump

## Options—

- Atex version.
- Tropicalized .
- Cooling chamber.
- Pumps on trolley.
- Reversible pumps.
- Special mechanical seal.
- Pumps complete of holes for electric resistances.
- Force-ventilated motor suitable for connection to inverter.
- Mechanical seal and lip seal for high temperature applications.
- Single or multiple groups complete of accessories and control panel.
- Pumps can be coupled to: mechanical speed vitiator, geared motor, dc motor 12V or 24V, diesel engine, internal combustion engine, pulley, etc



## General Specification

- Pumps for lubricant and viscous liquids without any suspended solid or abrasive substance.
- Max temperature of 100 °C for standard version with mechanical seal or lip seal.
- Max temperature of 180 °C for standard version with packing seal.
- Max pressure of 10 BAR.

## PERFORMANCE DATA TO 1400 rpm VISCOSITY OIL 6" E (46cSt)

Model	Flow	kW @		Nozzle	25mt		50mt		75mt		100mt	
		M	M									
	I/hr	kW	kW	BSP	lt/1	Kw	lt/1	Kw	lt/1	Kw	lt/1	Kw
DPB3	180	0.187	0.13	1/2"	4.1	0.07	3.8	0.09	3.6	0.12	3.2	0.15
DPB5	300	0.187	0.19	1/2"	6	0.15	5.8	0.16	5.6	0.19	5.2	0.22
DPB10	600	0.261	0.37	3/4"	12	0.19	11.8	0.22	11.6	0.27	11	0.34
DPB15	900	0.373	0.56	3/4"	17.5	0.24	17	0.34	16.8	0.39	16	0.43
DPB25	1500	0.56	0.75	3/4"	25	0.34	24.8	0.45	24	0.56	22	0.80
DPB40	2400	0.746	1.12	1	43	0.45	42.6	0.67	41.1	0.82	40	0.90
DPB50	3000	1.119	1.49	1 1/2"	54	0.60	52	0.90	51	1.12	50	1.36
DPB70	4000	1.866	2.24	1 1/2"	74	0.82	72	1.12	71	1.49	70	1.87
DPB100	6000	2.239	2.99	2	120	1.19	115	1.49	110	2.01	105	2.84
DPB150	9000	2.985	4.10	2	170	1.79	164	2.46	160	2.99	156	3.88
DPB200	12000	4.104	5.60	2 1/2"	215	1.94	212	2.84	208	4.10	205	5.52
DPB250	15000	4.104	7.46	2 1/2"	260	2.09	258	3.43	255	5.37	250	6.87
DPB300	18000	5.597	7.46	2 1/2"	320	2.24	314	3.73	306	5.60	302	7.46
DPB350	21000	5.597	11.19	2 1/2"	370	2.46	365	4.48	358	6.57	350	9.10
DPB400	24000	7.463	11.19	2 1/2"	420	2.76	415	5.07	410	7.61	405	9.70
DPB450	27000	7.463	11.19	3	475	2.91	468	6.12	460	8.21	455	10.15
DPB500	30000	11.19	13.43	3	525	3.36	515	6.34	510	9.55	505	11.79
DPB550	33000	11.19	14.93	3	565	3.73	560	7.01	550	10.45	545	13.43
DPB600	36000	11.19	14.93	3	630	4.10	620	7.46	610	11.34	600	14.93