BCB Series Gear Pump

APPLICATIONS

Model BCB gear pump uses the meshing of gears to pump fluid by displacement.
It is one of the most common types of pumps for hydraulic fluid power applications. It is also widely used in chemical installations to pump high viscosity fluids.
It is therefore suitable for use in the

- Kerosene
- Machine oil
- Heavy oil
- Light oil
- Gasoline (Please contact BONZER for special design)

FEATURES

BCB gear pump is a standard herringbone gear type pump. It is rating to JB/T 6434 standard. As the gears rotate they separate on the intake side of the pump, creating a void and suction which is filled by fluid. The fluid is carried by the gears to the discharge side of the pump, where the meshing of the gears displaces the fluid. The mechanical clearances are small— in the order of 10 μm. The tight clearances, along with the speed of rotation, effectively prevent the fluid from leaking backwards. The rigid design of the gears and houses allow for very high pressures and the ability to pump highly viscous fluids.

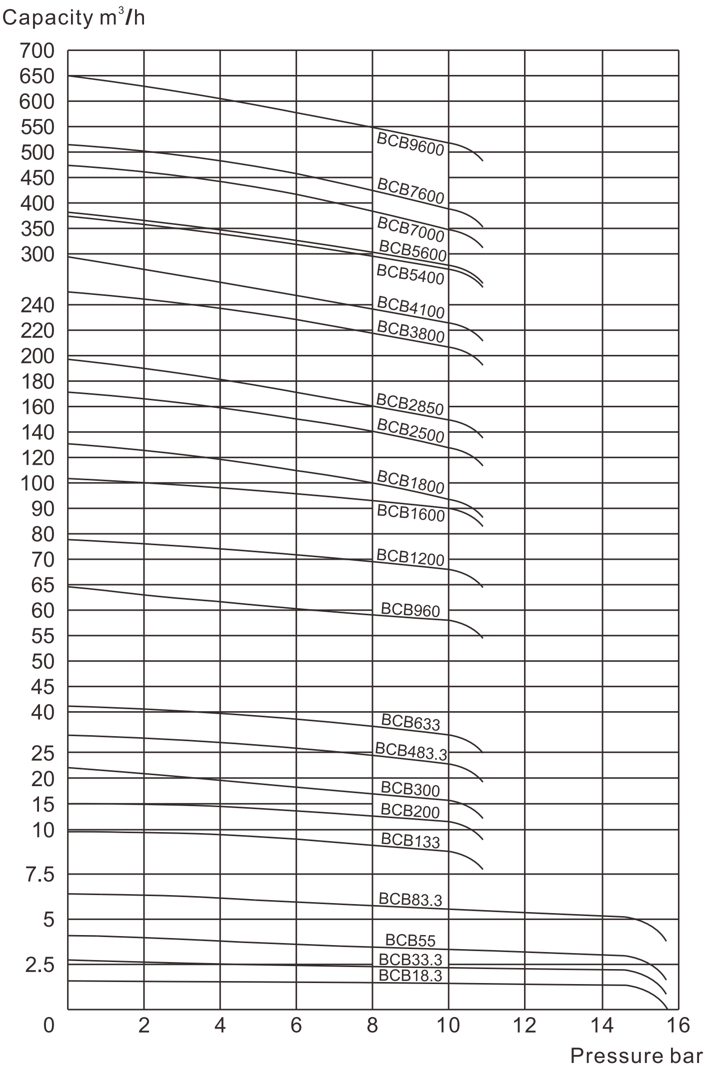


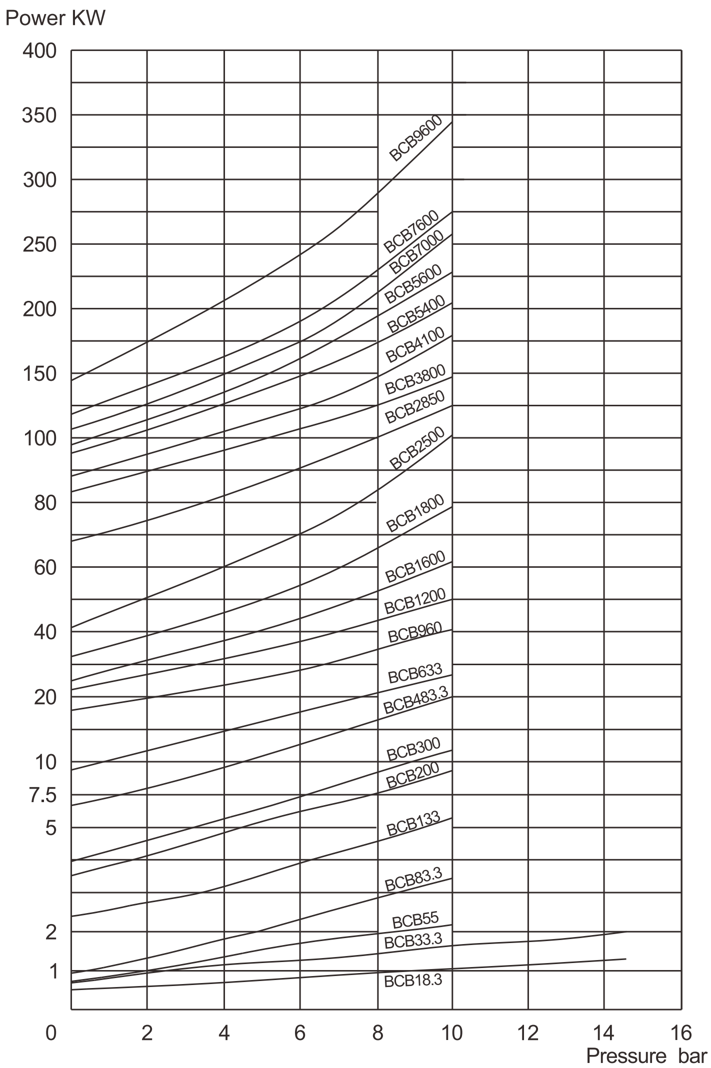

BCB Series Gear Pump

WORKING PRESSURE

Model	Size		Rated Flow			Max. Pressure		Rated Speed	Max. Power	
	Inch	mm	m³/h	LPM	USG/M	Bar	Psi	RPM	kW	Hp
BCB18.3	3/4”	20	1.1	18.3	5	14.5	210	1450	1.5	2
BCB33.3			2	33.3	7				2.2	3
BCB55	1”	25	3.3	55	15	10	145	1450	2.2	3
BCB83.3	1-1/2”	40	5	83.3	22				4	5.5
BCB133	2”	50	8	133	35			960	5.5	7.5
BCB200			12	200	53			1450	11	15
BCB300	3”	80	18	300	79			960	15	20
BCB483.3			29	483.3	128			1450	22	30
BCB633	4”	100	38	633	167			960	30	40
BCB960			58	960	254			1450	45	60
BCB1200	6”	150	72	1200	317	10	145	740	55	75
BCB1600			96	1600	423			980	75	100
BCB1800	8”	200	108	1800	476			740	90	120
BCB2500			150	2500	661			980	110	150
BCB2850	10”	250	171	2850	753			740	132	180
BCB3800			228	3800	1004			980	160	220
BCB4100			246	4100	1083			740	185	250
BCB5400			324	5400	1427			980	220	300
BCB5600	14”	350	336	5600	1480			740	250	330
BCB7600			456	7600	2008			980	280	375
BCB7000			420	7000	1849			740	280	375
BCB9600			576	9600	2536			980	355	475

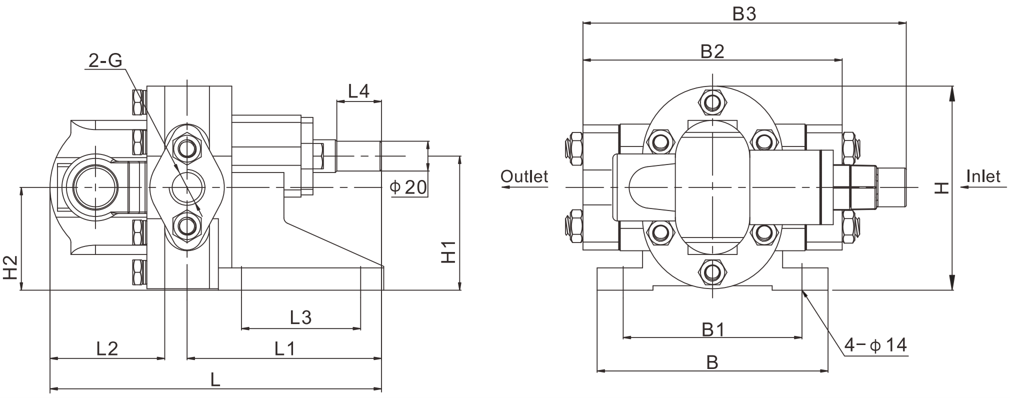
PUMP PERFORMANCE CURVE



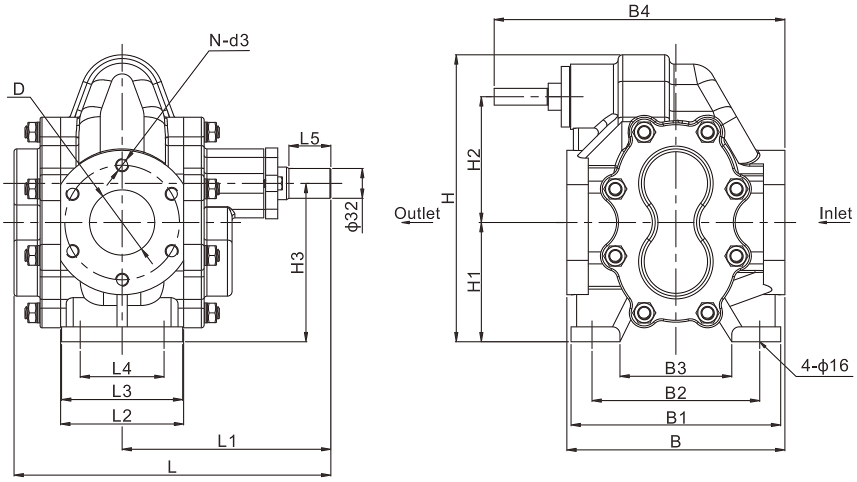


BCB Series Gear Pump

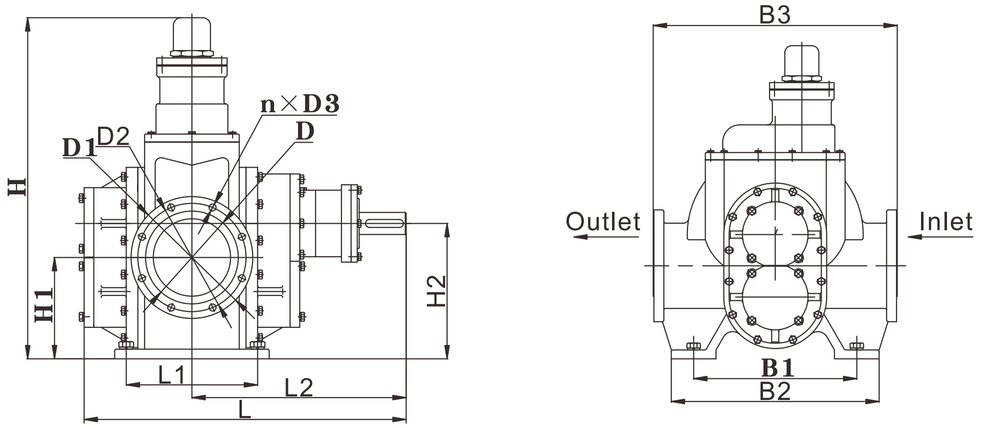
DIMENSION



Model	L	L1	L2	L3	L4	H	H1	H2	B	B1	B2	B3	G
BCB18.3	222.5	130.5	77	80	30	137	90	69	155	120	174	217	G 3/4"
BCB33.3	222	130	77	80	30	137	90	69	155	120	174	217	G 3/4"
BCB55	238	138.5	77	80	30	137	90	69	155	120	174	222	G1"
BCB83.3	263	151	77	80	30	137	90	69	155	120	174	225	G1 1/2"



Model	L	L1	L2	L3	L4	L5	H	H1	H2	B	B1	B2	B3	B4	D	N×d3
BCB200(BCB133)	291	201	-	90	65	-	272. 5	122	118	273	193	150	-	315	G 2"	-
BCB300(BCB483.3)	340	224	132	130	90	45	308	128	135	234	225	180	120	312	ϕ70	6-M14
BCB633(BCB960)	410	268	180	175	120	60	367.5	150	170	280	220	175	116	357	ϕ100	8-M12



Model	L	L1	L2	B1	B2	B3	H	H1	H2	D	D1	D2	n×D3
BCB-1200 BCB-1600	715	300	480	415	463	510	708	220	300	ϕ150	ϕ260	ϕ225	8×ϕ18
BCB-1800 BCB-2500	830	340	547	460	585	684	876	262	350	ϕ200	ϕ320	ϕ280	8×ϕ18
BCB-2850 BCB-3800 BCB-4100 BCB-4500	948	380	625	520	584	640	915	299	400	ϕ250	ϕ370	ϕ335	12×ϕ18
BCB-5600 BCB-7000 BCB-7600 BCB-9600	1085	345	700	500	600	740	1155	386	500	ϕ350	ϕ490	ϕ445	12×ϕ23



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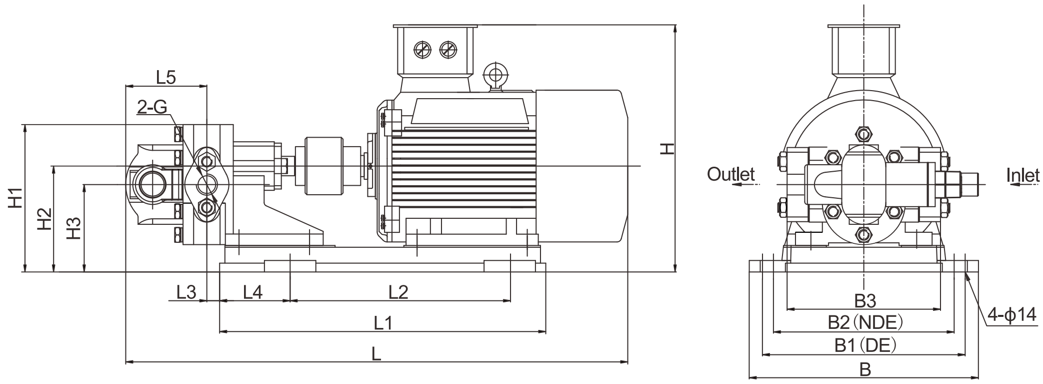
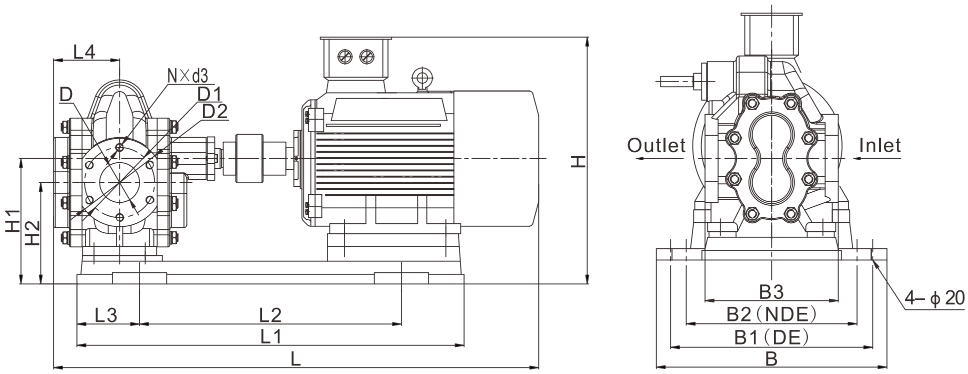
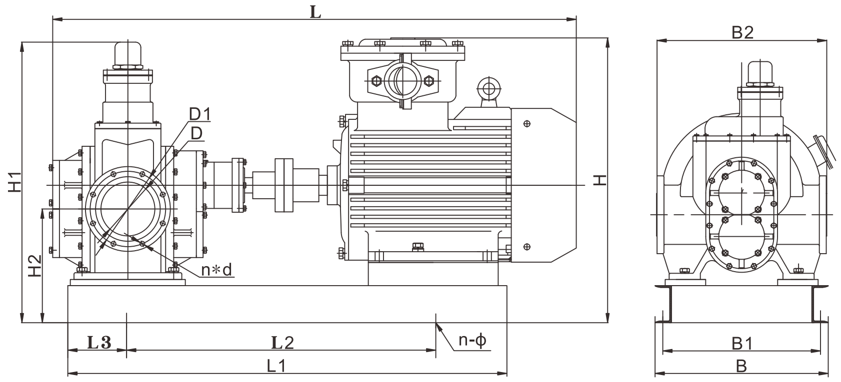
DIMENSION



Model	Motor/Frame	L	L1	L2	L3	L4	L5	H	H1	H2	H3	B	B1	B2	B3	G
BCB18.3	1.5kW-4/Y90L	569.5	370	250	14.5	80	92	280	167	120	99	260	230	205	174	G 3/4"
BCB33.3	2.2kW-4/Y100L	608.5	410	250	7.5	85	92	300	177	130	109	284	250	205	174	G 3/4"
BCB55	1.5kW-4/Y90L	584.5	370	250	22	80	100	280	167	120	99	260	230	205	184	G1"
BCB83.3	2.2kW-4/Y100L	648.5	410	250	27.5	85	112	300	177	130	109	284	250	205	190	G1 1/2"



Model	Motor/Frame	L	L1	L2	L3	L4	H	H1	H2	B	B1	B2	B3	D	D1	D2	n-d3
BCB133	3kW-6/Y132S	639.5	560	345	115	90	398	210	172	350	300	250	273	G2"	-	-	-
BCB200	4kW-4/Y112M	679.5	560	345	115	90	398	210	172	350	300	250	273	G2"	-	-	-
BCB200	5.5kW-4/Y132S	673.5	655	445	115	90	413	200	162	385	335	250	273	G2"	-	-	-
BCB200	7.5kW-4/Y132M	803.5	655	445	115	90	413	200	162	385	335	250	273	G2"	-	-	-
BCB300	5.5kW-6/Y132M	852	680	460	110	116	433	220	178	405	355	300	234	ϕ70	ϕ123	ϕ155	6-M14
BCB483.3	11kW-4/Y160M	957	760	530	120	116	490	230	188	450	400	310	234	ϕ70	ϕ123	ϕ155	6-M14
BCB633	11kW-6/Y160L	1084	870	560	170	142	525	265	210	440	390	280	280	ϕ100	ϕ158	ϕ190	8-M12
BCB960	18.5kW-4/Y180M	1116	930	590	160	142	540	265	210	460	410	280	280	ϕ100	ϕ158	ϕ190	8-M12
BCB960	22kW-4/Y180L	1156	930	590	160	142	540	265	210	460	410	280	280	ϕ100	ϕ158	ϕ190	8-M12



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<tr><th>Model</th><th>L</th><th>L1</th><th>L2</th><th>L3</th><th>H</th><th>H1</th><th>H2</th><th>B</th><th>B1</th><th>B2</th><th>D</th><th>D1</th><th>n×d</th><th>n×ϕ</th></tr>
<tr><td>BCB-1200</td><td rowspan="2">1771</td><td rowspan="2">1470</td><td rowspan="2">990</td><td rowspan="2">194</td><td rowspan="2">780</td><td rowspan="2">828</td><td rowspan="2">340</td><td rowspan="2">683</td><td rowspan="2">-</td><td rowspan="2">510</td><td rowspan="2">ϕ150</td><td rowspan="2">ϕ225</td><td rowspan="2">8×ϕ18</td><td rowspan="2">4×ϕ25</td></tr>
<tr><td>BCB-1600</td></tr>
<tr><td>BCB-1800</td><td rowspan="2">2036</td><td rowspan="2">1704</td><td rowspan="2">1142</td><td rowspan="2">230</td><td rowspan="2">1020</td><td rowspan="2">996</td><td rowspan="2">382</td><td rowspan="2">772</td><td rowspan="2">-</td><td rowspan="2">684</td><td rowspan="2">ϕ200</td><td rowspan="2">ϕ280</td><td rowspan="2">8×ϕ18</td><td rowspan="2">4×ϕ25</td></tr>
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