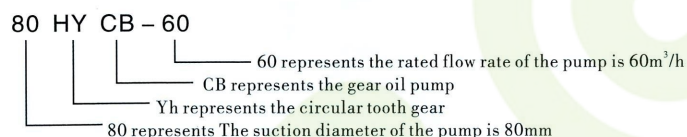


一、Application

HYCB gear oil pump is mainly used for conveying the liquid with viscosity of 5–1500 CST, does not exceed 80°C, without solid particles and corrosive materials, such as gasoline, diesel, kerosene, mechanical lubricating oil, liquefied petroleum gas and other mediums with similar properties .It has the advantages of large flow, high pressure, small volume, low noise, good self-priming performance, easy for installation and maintenance, etc. It is also an ideal choice pump for the refit industry of oil tank vehicles and petrochemical industry. This product is manufactured in accordance with the JB6–T 434–2010 standard.

二、Specification

80HYCB–60 Circular gear pump:



三、Performance parameter



HYCB the circular tooth gear oil pump performance parameters

Model	rate of flow m ³ /h	Working pressure (Mpa)	Rotate speed (r/min)	Efficiency (%)	NPSH (m)	Ex motor	
						voltage(v)	Power (kW)
50YHCB–8	8	0.6	960	70	5	132S–6	3
50YHCB–15	15	0.6	960	70	5	132S–6	3
65YHCB–15	35	0.6	970	70	5	160M–6	7.5
76YHCB–40	40	0.6	970	70	5	160M–6	7.5
76YHCB–50	50	0.6	970	70	5	160L–6	11
80YHCB–60	60	0.6	970	70	5	160L–6	11
100YHCB–100	100	0.6	970	70	5	200L–6	18.5

四、Product performance features

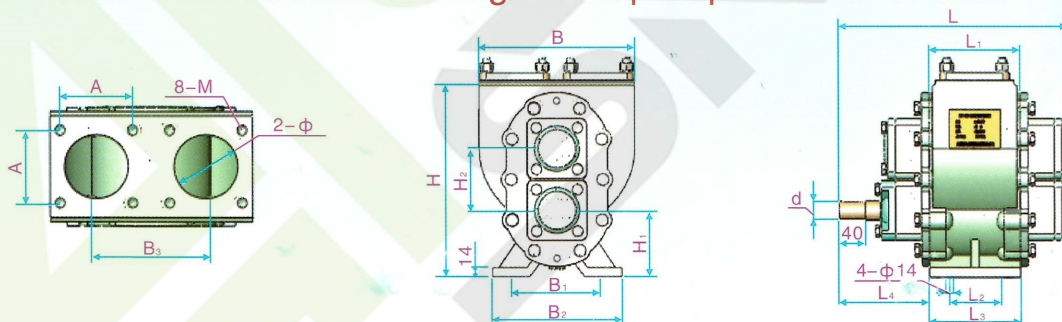
- 1、Super self-priming ability, 5m height difference, self-priming time is less than one minute.
- 2、Large flow rate, low noise, smooth operation, safe and reliable, normal working noise less than 82Db, vibration less than 7.6mm/s.
- 3、Two-way flow, inlet and outlet of pump can be selected at will, convenient installation and maintenance.
- 4、Dealing with volatile organic compounds, no metal to metal friction in the pump, can convey no lubricity liquid.

五、Installation and maintenance

1. The pump can be installed in the refueling vehicle and the oil depot pump station, and the installation oil circuit design on the vehicle should conform with GB9414–88.
2. Attentions should be paid to the installation and use of the fuel tanker:
 - ①. The pump is driven by the force lifter output shaft of the car gearbox, and the pump should be installed in front as far as possible. The inclination angle between the pump shaft and the transmission shaft should not be greater than 7° .

- ②. The pump should be hoisted on the angle-welded hanger, the height of the pump can be determined according to the output shaft axis of the force lifter, the left position of the pump should be as close as possible to the auto girder (to avoid interference between the pump and the car drive shaft), and fixed on the auto girder with bolts.
- ③. The diameter of suction pipe shall not be less than 70mm, and the vertical suction depth shall not be more than 5m.
- ④. The pressure gauge during the operation shall not exceed 0.5Mpa. The vacuum gauge shall not exceed -0.08mpa.
3. Do not operate the pump without filling the pump with liquid, otherwise it will burn out the sealing elements.
4. Before the operation, the pump should verify the motor steering, and the leakproofness for flange, joint sealing, carefully check whether the valve is properly opened, do not open the pump in the case of the outlet line valve being closed to avoid accidents.
5. Clean the filter regularly (half a month), so as not to block the flow rate, check and adjust the relief valve pressure frequently, and the diameter of the suction pipe mouth shall not be less than the diameter of the outlet pipe.
6. Rotate speed of pump should be ranged from low to high, with slow acceleration and maintain the corresponding speed, do not overspeed operation at will and not to make fluctuation of speed either.
7. During the operation, you should pay attention to the observation of pressure gauge and vacuum gauge reading, if the pressure gauge reading is too large, means too high lift or pump outlet line blocked and overloaded, if the vacuum gauge reading is too large that means too large suction or pump suction pipe blocked that made pump cavitation.
8. If the pump has been out of use for a long time, it should be well keep in anti-rust treatment and properly kept in right places.
9. The bearings should be injected with calcium base grease every six month.
10. Pipelines shall have a pipe rack. The pump shall not be allowed to bear the load of the pipeline. The installation height of the pump shall not exceed the allowable vacuum suction height when the pump is working.
11. Stop the motor first when shutting down, and then close the pump inlet and outlet valve.

HYCB the circular tooth gear oil pump Outline sketch



Code	B	H	L	B ₁	B ₂	B ₃	H ₁	H ₂	H ₃	L ₁	L ₂	L ₃	AxA	8-M	2-φ	d
Model																
50YHCB-8	190	246	385	135	170	100	85	85	134	90	120	156	56.5x56.5	10	50	27
50YHCB-15	190	246	405	135	170	100	86	83.2	170	90	120	156	63x63	10	50	27
60YHCB-35	250	302	336	160	200	130	102	95	120	105	150	152.5	70.7x70.7	12	65	27
76YHCB-40	250	302	356	160	200	130	102	95	140	105	150	162.5	86x86	12	76	27
76YHCB-50	230	270	330	160	200	115	86	95	160	105	150	167.5	86x86	12	76	27
80YHCB-60	230	302	386	160	200	130	102	95	170	105	150	177.5	92x92	12	80	27
100YHCB-100	280	325	437	200	250	140	105	125	200	140	190	167	103x103	12	100	35