



Centrifugal pump series

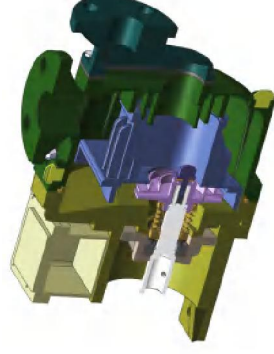
MODEL : QHB / QHS / QHG



Self-priming centrifugal pump [QHB series]



- ① Self-priming cylinder
- ② Self-priming cylinder gasket
- ③ Drain screw
- ④ Front cover
- ⑤ Water injection screw
- ⑥ Check valve
- ⑦ Medium closure
- ⑧ Impeller screw
- ⑨ Impeller
- ⑩ O-Ring
- ⑪ Rear cover
- ⑫ Front shaft seal
- ⑬ Rear shaft seal
- ⑭ Shaft sleeve
- ⑮ Shaft
- ⑯ Frame
- ⑰ Motor



Model description

QHB-40-02-2-E-B-L-SSH-5

- ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ① Model No.: QHB
- ② Outlet and inlet diameter: 40-40mm 50-50mm 75-75mm
- ③ Horsepower: 00-1/2HP 01-1 HP 02-2HP 03-3HP 05-5HP
- ④ Number of poles: 2:2P 4:4P
- ⑤ Rubber material: E-EPDM V-VITON(FKM)
- ⑥ A- with tongue B- without tongue
- ⑦ L- low head; H- high head
- ⑧ Shaft seal specification: SSH front and rear shaft seal SSIC
- ⑨ Frequency: 5-50H 6-60HZ

Product characteristics

- Corrosion resistance: GFRPP and PVDF special materials are used, which can withstand most acid and alkali solutions.
- It has strong self-priming force and equipped with anti-idling device.
- Applicable temperature: GFRPP - below 80 °C, PVDF - below 100 °C. The applicable temperature shall be determined according to different chemical properties.

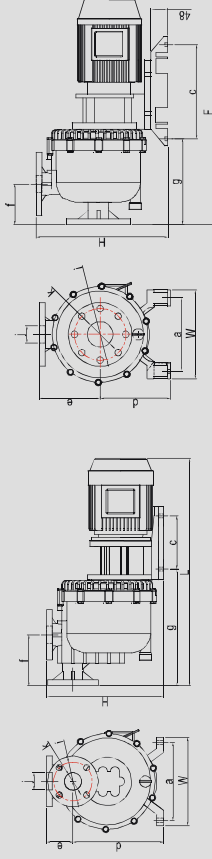
Product superiority

- The pump head is made of GFRPP and PVDF materials. The inlet flange and the self-priming cylinder are injection molded as an integration, without any welding points and leakage.
- The outlet flange and the front cover are injection molded as an integration without any welding points, which strengthens the durability of the product and prevents leakage.
- It can be used in the liquid environment with particles.
- The motor is equipped with anti-idling device, which can prevent the pump head from being damaged due to pump idling in case of lack of liquid.
- The motor adopts Toshiba motor of international brand, with stable performance and ultra-quiet operation.

Product specification

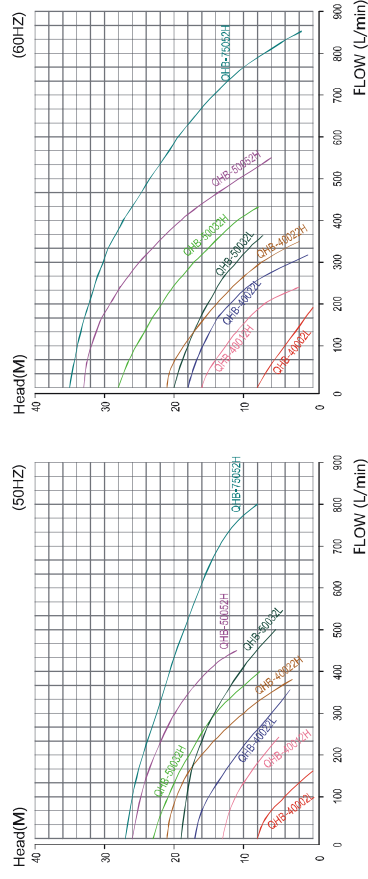
Model	Inlet and outlet diameter (mm)	Max.Head (m)		Max.Capacity (L/min)		Phase	Power		Weight (kg)
		50HZ	60HZ	50HZ	60HZ		Pole	Horsepower	
QHB-40002L	40/40	7	7.5	185	200	∅	2	1/2	19.8
QHB-40012H	40/40	13	16	240	240	∅	2	1	20
QHB-40022L	40/40	17	18	360	320	∅	2	2	27.5
QHB-40022H	40/40	21	21	380	350	∅	2	2	25
QHB-50032L	50/50	19	20	500	360	∅	2	3	30
QHB-50032H	50/50	23	28	400	430	∅	2	3	27.4
QHB-50052H	50/50	26	33	450	550	∅	2	5	40
QHB-75052H	75/75	27	35	800	860	∅	2	5	48

Size specification



Model	L	H	W	a	c	d	e	f	g	I	j	k
QHB-40002L	627	332	250	203	140	252	80	148	330	∅105	∅48.6	∅51.5
QHB-40012H	627	332	250	203	140	252	80	148	330	∅105	∅48.6	∅51.5
QHB-40022L	667	332	250	203	140	252	80	148	330	∅105	∅48.6	∅51.5
QHB-40022H	667	332	250	203	140	252	80	148	330	∅105	∅48.6	∅51.5
QHB-50032L	683	332	250	203	140	252	80	150	324	∅115	∅53	∅51.5
QHB-50032H	683	332	250	203	140	252	80	150	324	∅115	∅53	∅51.5
QHB-50052H	738	377	256	213	282	299	78	150	266	∅115	∅53	∅51.5
QHB-75052H	762	390	258	215	282	206	184	110	296	∅150	∅74.5	∅74.5

Performance curve



Accessories

Attached table: list of drug resistance

Drug name	Concentration	% Temperature	Material of pump head				Material of shaft seal			Rubber material	
			CFRPP	PVDF	CFRETFE	Ceramic	Carbon	Ssic	EPDM	VITON	
Hydrochloride HCL	15	40	●	●	●	○	●	●	●	●	●
		60	○	○	○	○	○	○	○	○	○
Hydrogen peroxide solution H ₂ O ₂	32	40	●	●	●	●	●	●	●	●	●
		60	○	○	○	○	○	○	○	○	○
Phosphoric acid H ₃ PO ₄	10	40	○	○	○	○	○	○	○	○	○
		60	○	○	○	○	○	○	○	○	○
Sodium hypo-chlorite NaClO	25	40	○	○	○	○	○	○	○	○	○
		60	○	○	○	○	○	○	○	○	○
Acetic acid CH ₃ COOH	10	40	○	○	○	○	○	○	○	○	○
		60	○	○	○	○	○	○	○	○	○
Hydrofluoric acid HF	25	40	○	○	○	○	○	○	○	○	○
		60	○	○	○	○	○	○	○	○	○
Aqua regia HCL+HNO ₃	3:1	40	○	○	○	○	○	○	○	○	○
		60	○	○	○	○	○	○	○	○	○
Chromic acid CrO ₃	20	40	○	○	○	○	○	○	○	○	○
		60	○	○	○	○	○	○	○	○	○
Sulphuric acid H ₂ SO ₄	30	40	○	○	○	○	○	○	○	○	○
		60	○	○	○	○	○	○	○	○	○
Sodium hydroxide NaOH	45	40	○	○	○	○	○	○	○	○	○
		60	○	○	○	○	○	○	○	○	○
Ferric chloride FeCl ₃	60	40	○	○	○	○	○	○	○	○	○
		60	○	○	○	○	○	○	○	○	○
Cupric cyanide Cu(CN) ₂	98	40	○	○	○	○	○	○	○	○	○
		60	○	○	○	○	○	○	○	○	○
Zinc chloride ZnCl ₂	40	40	○	○	○	○	○	○	○	○	○
		60	○	○	○	○	○	○	○	○	○
Nickel sulfate NiSO ₄	60	40	○	○	○	○	○	○	○	○	○
		60	○	○	○	○	○	○	○	○	○
Nitric acid HNO ₃	20	40	○	○	○	○	○	○	○	○	○
		60	○	○	○	○	○	○	○	○	○
Y-type filter	50	40	○	○	○	○	○	○	○	○	○
		60	○	○	○	○	○	○	○	○	○

● Outstanding ○ Good △ Fair x Poor

Y-type filter Dual-union ball valve Union connector Union ball valve