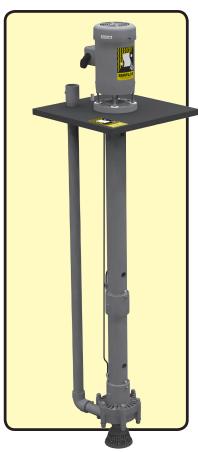
Chemical resistant pumps & filters engineered for industry

SERIES 'HB' | VERTICAL PUMPS



HIGH EFFICIENCY AND LOW ENERGY **USAGE FOR:**

WASTES/ACIDS/PLATING/CHEMCIALS

- Flows to 140 U.S. GPM or 130 ft. TDH @ 60 Hz (450 LPM or 28m @ 50 Hz)
- **Corrosion resistant, CPVC construction** (See a chemical resistance chart)
- **Pump lengths: 2 ft. to 10 ft.** (.6m to 3.0m)
- Chemical duty motor Sealed oversized bearings, cast iron end bells, liquid/vapor seal and slinger, corrosion resistant two-part epoxy finish, stainless steel nameplate, 1.15 service factor at 50 and 60 Hz.
- Centrifugal quiet, vibration-free
- Shaft vapor seal protects motor bearings and atmosphere

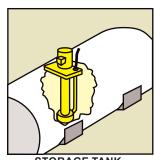
The Series 'HB' Sump Pump features corrosion resistant construction for deep sumps and chemical transfer. A stainless steel shaft sleeved in CPVC offers unmatched strength and chemical resistance. A vapor seal between the rotating shaft and the pump column protects the motor and motor bearings.

The shaft bearing and liner are positively lubricated with the product being pumped or clean water from a separate source by means of the bleed line. A spiral flush groove in the rotating bearing ensures a uniform flow of liquid across the bearing surface. The bearing liner is made of a special fluoride-resistant ceramic.

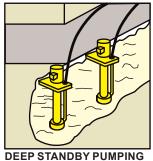
A suction extension can be utilized to pump to depths below impeller level. Thus, a shorter pump can be used, reducing shaft length and the number of bearings required.



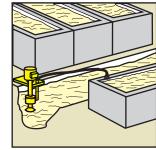
TRANSFERRING



STORAGE TANK



when priming not possible

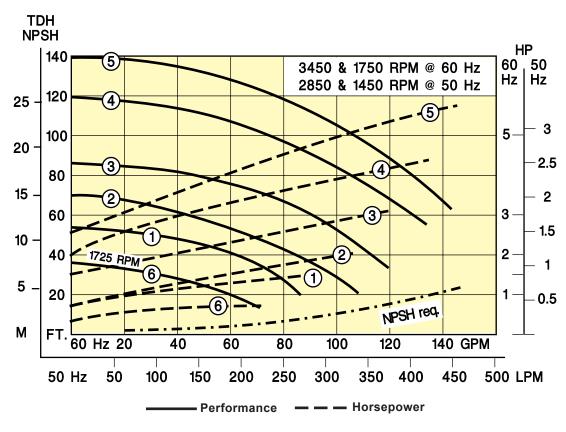


SUMP DRAINING and **WASTE TREATMENT**

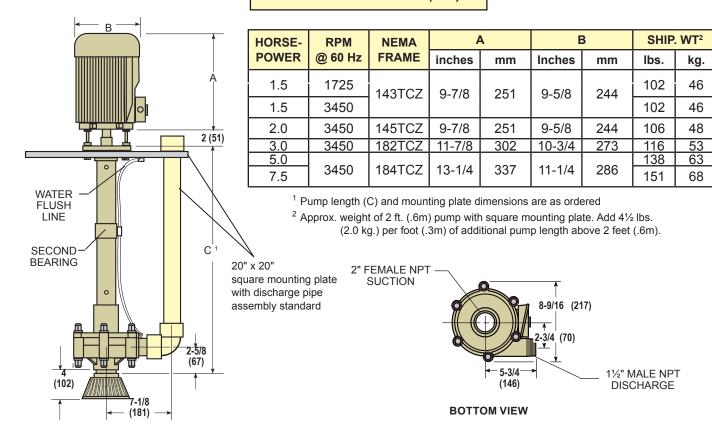
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2900 MacArthur Blvd. Northbrook, IL. USA 60062 www.serfilco.com (800) 323 - 5431



DIMENSIONS - Inches (mm)



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Standard models are constructed of CPVC with high purity chemical resistant graphite or Rulon® (glass filled PTFE) bearing and silica-free ceramic liner for fluoride resistance. Includes polyethylene suction strainer. Elastomer "O"-rings are EPDM (ethylene propylene) with Viton® optional. Impeller is fully enclosed for maximum efficiency. Pump shaft is 303 stainless steel sleeved in CPVC, so complete pump assembly offers non-metallic solution contact except for titanium fasteners at each bearing. Hastelloy® C276 fasteners are optional. Standard pumps are suitable for 140°F (60°C) maximum. High temperature

models to 160°F (71°C) are available as single graphite bearing pumps only. Pump lengths are available as listed in one foot (.3m) increments only. The bleed line provides pressurized water or pumped solution to the bearings. (Each bearing requires 10 PSI.) Standard is external water flush. Product flush may be specified. All models are wet tested before shipment. Series 'HB' pumps can provide up to 9 ft.(2.7m) suction lift under certain conditions. Pump incudes 20" x 20" square mounting plate and discharge pipe assembly.

TO ORDER, use Price Code Number

For standard 24" - 60" pump / motor combinations, select model from TABLE I. For other combinations, select components from TABLE II.

TABLE I

	24" PUMP		36" PUMP	
FLOW CURVE NO.	MODEL	PRICE CODE NO.	MODEL	PRICE CODE NO.
1	HB1½CE1-24"C-CG- * °F-D1.5-SD	41-1024 AS	HB1½CE1-36"C-CG- * °F-D1.5-SD	41-1034 AS
2	HB1½CE2-24"C-CG- * °F-D2.0-SD	41-2024 BS	HB1½CE2-36"C-CG- * °F-D2.0-SD	41-2034 BS
3	HB1½CE3-24"C-CG- * °F-D3.0-SD	41-3024 CS	HB1½CE3-36"C-CG- * °F-D3.0-SD	41-3034 CS
4	HB1½CE4-24"C-CG- * °F-D5.0-SD	41-4024 DS	HB11/2CE4-36"C-CG- * °F-D5.0-SD	41-4034 DS
5	HB1½CE5-24"C-CG- * °F-D7.5-SD	41-5024 ES	HB11/2CE5-36"C-CG- * °F-D7.5-SD	41-5034 ES
6	HB1½CE5-24"C-CG- * °F-H1.0-SD	41-5024 GS	HB1½CE5-36"C-CG- * °F-H1.0-SD	41-5034 GS

	48" PUMP		60" PUMP	
FLOW CURVE NO.	MODEL	PRICE CODE NO.	MODEL	PRICE CODE NO.
1	HB1½CE1-48"C-CGx2- * °F-D1.5-SD	41-1045 AS	HB1½CE1-60"C-CGx2- * °F-D1.5-SD	41-1055 AS
2	HB1½CE2-48"C-CGx2- * °F-D2.0-SD	41-2045 BS	HB1½CE2-60"C-CGx2- * °F-D2.0-SD	41-2055 BS
3	HB1½CE3-48"C-CGx2- * °F-D3.0-SD	41-3045 CS	HB1½CE3-60"C-CGx2- * °F-D3.0-SD	41-3055 CS
4	HB1½CE4-48"C-CGx2- * °F-D5.0-SD	41-4045 DS	HB1½CE4-60"C-CGx2- * °F-D5.0-SD	41-4055 DS
5	HB1½CE5-48"C-CGx2- * °F-D7.5-SD	41-5045 ES	HB1½CE5-60"C-CGx2- * °F-D7.5-SD	41-5055 ES
6	HB1½CE5-48"C-CG- * °F-H1.0-SD	41-5044 GS	HB1½CE5-60"C-CGx2- * °F-H1.0-SD	41-5055 GS

^{*}Include operating temperature in model number.

SERIES 'HB' | VERTICAL PUMPS



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TABLE II

Determine pump-motor model for a specified GPM, TDH, length, bearing and specific gravity. Select performance point on curve and size HP from corresponding number dotted line vertically above or below performance point.

Read required HP at right ordinate and multiply by specific gravity. Select pump model components and Price Code Numbers from Table II.

EXAMPLE:

PUMP + IMPELLER + LENGTH + BRG & LINER + MOTOR/MTG PLATE = PRICE CODE NO. HB 11/2CE + 48"C CRX2-90°F D2.0 - SD = 41-2042BS 2

PUMP		
MODEL	PRICE CODE NO.	
HB1½CE	41-	

		IMPELLER			
		FLOW	ADD TO		
	CURVE NO.		MODEL PRICE	CODE NO.	
1		1	1	1	
		2	2	2	
		3	3	3	
		4	4	4	
		5 & 6	5	5	

For BSP fittings or adapters, explosion-proof motors, motor starters, level controls, and Dri-Stop Pressure Switch for external bearing flush, contact Sales Department for appropriate bulletin.

F.O.B. Northbrook, Illinois

LENGTH						
				ADD T	ADD TO	
FT.	m	RPM	BRGS	MODEL	PRICE CODE NO.	
2	.6	1725/1450 3450/2850	1	24"C	02	
3	.9	1725/1450 3450/2850	1	36"C	03	
4	1.2	1725/1450 3450/2850	1 2	48"C	04	
5	1.5	1725/1450 3450/2850	2	60"C	05	
6	1.8	1725/1450 3450/2850	2	72"C	06	
7	2.1	1725/1450 2850	2	84"C	07	
8	2.4	1725/1450 2850	3	96"C	08	
9	2.7	1725/1450	3	108"C	09	
10	3.0	1725/1450	3	120"C	10	

BRG & LINER					
	NO.	TO			
MATERIAL	OF ADD	MODEL	PRICE CODE NO.		
CERAMIC & RULON ¹	1 2 3	CR-*°F CRx2-*°F CRx3-*°F	1 2 3		
CERAMIC & GRAPHITE	1 2 3	CG-*°F CGx2-*°F CGx3-*°F	4 5 6		

^{*} Include operating temperature in model number.

		MOTOR/ MTG PLATE					
Έ	TEFC -	TEFC - 230-460V/3/50-60 ²					
)E).	RPM	MODEL (HP)	PCN				
	3450/ 2850	D1.5_SD D2.0_SD D3.0_SD D5.0_SD D7.5_SD	AS BS CS DS ES				
	1725/ 1450	H1.5_SD	HS				

OPTIONAL

DESCRIPTION	ADD SUFFIX TO MODEL	ADD TO PRICE CODE NO.
Viton "O"-rings (installed)	V	V
Hastelloy C276 fasteners	HC	X
High temperature for single bearing pumps to 160°F (71°C). Use graphite bearing.	НТ	T
Optional around mounting plate, 20" diameter x 1" thick	change -SD to -CD in model	replace S with C in PCN

DESCRIPTION	ADD SUFFIX TO MODEL	USE SEPARATE PRICE CODE NO.
Suction extension - 2" NPT CPVC pipe, threaded both ends	-K12" -K24" -K36	41-0633 41-0634 41-0635

Registered trademarks:

Hastelloy - Haynes, International Viton - DuPont Dow Elastomers

Rulon - Dixon

Specifications subject to change without notice.

¹ Rulon for 140°F maximum temperature

² 230-380/415V/3/50