

SERIES 'H' HORIZONTAL PUMP

HEAVY-DUTY CONSTRUCTION FOR:

WASTE TREATMENT / PLATING / ACIDS SCRUBBING / ETCHING / PETROCHEMICAL



High flow rates

Over 1200 U.S. GPM, or 149 ft. TDH @ 60 Hz (3800 I/min or 31.5m @ 50 Hz)

Excellent chemical resistance

Machined from solid CPVC (See a chemical resistance chart)

Single or double mechanical seal

Silicon carbide EPDM or Viton® elastomers

Quiet, vibration free

Centrifugal, high efficiency enclosed impeller

- Flanged or NPT ports:
- Long or close-coupled

Back pull-out design. Optional long-coupled kit available

Standard chemical duty motors (3 - 30 HP)

Sealed oversized bearings, cast iron end bells, shaft slinger washer, corrosion resistant two-part epoxy finish, stainless steel nameplate.

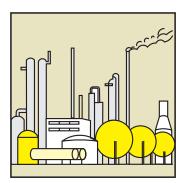
The Series 'H' pump is a heavy-duty centrifugal pump machined from solid CPVC. It provides a high level of resistance to aggressive chemicals. An external mechanical seal and sleeved shaft* provide excellent corrosion resistance. The new Series 'H' 6" x 4" pump features a titanium or Hastelloy® C shaft.

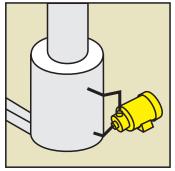
The Series 'H' pump serves as an economical alternative to ANSI style process pumps. The high flow rates, chemical resistance and durability of this pump make it the perfect workhorse for waste treatment, chemical

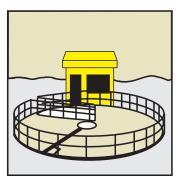
processing, transfer and filter pumping. Pumps are available for long-coupling in the field to user supplied standard motors.

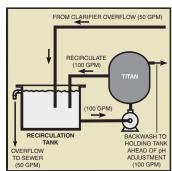
Double seals are available and recommended for flushing the seal faces when abrasives are present or positive product containment is required. Optional coupling arrangements, mechanical seals, fittings and flange connections ensure adaptability to custom applications.

* Sleeved shaft not available on 6" x 4" pump.









PETROCHEMICAL

FUME SCRUBBING & SPRAYING

WASTE TREATMENT

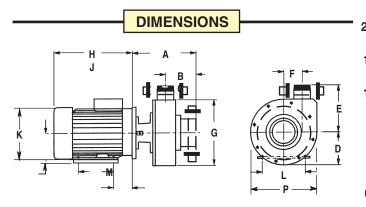
FILTER SYSTEM

Pumps are machined from solid CPVC, with CPVC sleeved shaft *. Elastomers are Viton® or EPDM. All models have enclosed impeller. Type 21 mechanical seal with silicon carbide faces is externally mounted with stainless steel components not in solution contact. Double mechanical seal is recommended for solutions containing abrasives, high temperatures or other critical service applications. Motor is painted with two-part epoxy paint. Pump Model No. indicates suction (FNPT) x discharge (MNPT) x impeller diameter (measurements in inches). All pumps are wet tested for flow and pressure certification.

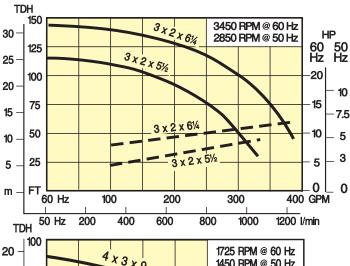
* 6" x 4" pumps not available with sleeved shafts. These pumps feature standard titanium or optional Hastelloy C shafts. These pumps also include ANSI 150 lb. flange connections, suction and discharge. They are mounted on 36" x 15" steel bases.

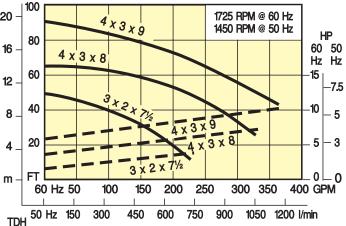
Determine the size of the Series 'H' pump required by using the flow curves to the right and the dimensional information on this page. Select the various elements necessary to order the proper pump from the tables on the next page. Note that the performance curves reflect pump operations at either 1750 RPM or 3450 RPM @ 60 Hz (1450 RPM or 2850 RPM @ 50 Hz).

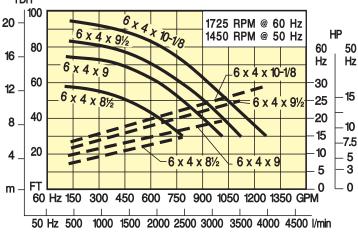
FLOW CURVES MOTOR HP



NOTE: Flange connections are standard on 6" x 4" models.







	MOTOR														
MODEL	FRAME	HP	Α	В	С	D	E	F	G	Н	J	K	L	M	Р
3 x 2 x 5 ¹ / ₂	213TC 215TC	7.5 10.0	10.8 (274)	4.6 (117)	4.6 (117)	7.6 (193)	3.6 (91)	12.0 (305)	14.6 (371)	10.3 (262)	8.5 (216)	5.5 (140) 7.0 (178)	3.5 (89)	5.3 (135)	12 (305)
3 x 2 x 6 ¹ / ₄	215TC	10.0 15.0	10.8 (274)	4.6 (117)	4.6 (117)	7.6 (193)	3.6 (91)	12.0 (305)	14.6 (371) 15.7 (399)	10.3 (262)	8.5 (216)	7.0 (178)	3.5 (89)	5.3 (135)	12 (305)
3 x 2 x 7 ¹ / ₂	182TC 184TC	3.0 5.0	10.8 (274)	4.6 (117)	4.6 (117)	7.6 (193)	3.6 (91)	12.0 (305)	12.3 (312) 14.0 (356)	8.7 (221)	7.5 (191)	4.5 (114) 5.5 (140)	2.8 (71)	4.5 (114)	12 (305)
4 x 3 x 8	213TC 215TC	7.5 10.0	12.4 (315)	6.0 (152)	6.0 (152)	8.8 (224)	3.2 (81)	12.1 (307)	14.6 (371) 15.7 (399)	10.3 (262) 10.3 (262)	8.5 (216) 8.5 (216)	5.5 (140) 7.0 (178)	3.5 (89) 3.5 (89)	5.3 (135) 5.3 (135)	12.13 (308)
4 x 3 x 9	215TC 254TC	10.0 15.0	12.4 (315)	6.0 (152)	6.0 (152)	9.3 (236)	3.7 (94)	13.1 (333)		10.3 (262) 12.9 (328)	8.5 (216) 10.0 (254)	7.0 (178) 8.3 (211)	3.5 (89) 4.3 (109)	5.3 (135) 6.3 (160)	13.13 (334)
6 x 4	256TC 284TC 286TC	20 25 30	** 14.5 (368)	** 6.8 (173)	8 (203)	** 12 (305)	5.2 (132)	14.8 (376)	19.2 (488) 23.1 (587) 23.1 (587)	12.9 (328) 14.6 (371) 14.6 (371)	10 (254) 11 (279) 11 (279)	10 (254) 9.5 (241) 11 (279)	4.3 (109) 4.75 (121) 4.75 (121)	6.25 (159) 7.0 (178) 7.0 (178)	15.13 (384)

^{**} Dimension to flange face on 6" x 4" pump

TO ORDER, use Price Code Number

TABLE I

STANDARD MODELS

To order standard pump-motor combination, select model from Table I.

MODEL (with CPVC sleeved shaft, Viton elastomers, single mechanical seal.)	MAXIMUM FLOW RATE	MAXIMUM TDH (Ft.)	PRICE CODE NO. 60 Hz
3 x 2 x 5 ¹ / ₂ CV(M8) -D10.0	325	120	47-1417 P
3 x 2 x 6 ¹ / ₄ CV(M8) -D15.0	380	149	47-1517 L
3 x 2 x 7 ¹ / ₂ CV(M8) -H5.0	230	50	47-1617 F
4 x 3 x 8 CV(M8) -H7.5	300	65	47-0417 G
4 x 3 x 9 CV(M8) -H10.0	380	90	47-1717 H
6 x 4F x 8 ¹ / ₂ CTV(M8) -H15.0	800	60	47-3127 S
6 x 4F x 9 CTV(M8) -H20.0	950	75	47-3227 V
6 x 4F x 9 ¹ / ₂ CTV(M8) -H25.0	1100	84	47-3327 W
6 x 4F x 10 CTV(M8) -H30.0	1250	95	47-3427 X

TABLE II

OTHER MODELS

To determine pump model for a specified GPM, TDH, material and specific gravity, select performance point on curve. Determine required HP by moving vertically to corresponding number dotted line. Read the required HP at right ordinate and multiply by S.G. Select pump, "O"-ring and seal, and motor to complete Model Number. Add corresponding number designations together to create Price Code Number.

EXAMPLE:	"O"-RING &						
	PUMP	+	MECHANICAL SEAL	+	MOTOR	=	PRICE CODE NUMBER
	3 x 2 x 71/2C	+	V(M8)	+	-H5.0	=	47-1617 F

PUMP "O"-RING & MECHANICAL SEAL (TYPE 21)

MOTOR, TEFC "C" FACE

MODEL	PRICE	"O"-RING & MECHANICAL	ADD TO	
MODEL	NO.	SEAL MATERIAL (SOLUTION CONTACT)	MODEL	PRICE
3 x 2 x 5 ¹ / ₂ C 3 x 2 x 6 ¹ / ₄ C	47-141 47-151		NUMBER	NO.
3 x 2 x 7 ¹ / ₂ C 4 x 3 x 8C	47-161 47-041	SINGLE MECHANICAL SEAL	L(M8)	1
4 x 3 x 9C	47-171	EPDM, silicon carbide	V(M8)	7
6 x 4F x 8 ¹ / ₂ CT	47-312	Viton, silicon carbide		
6 x 4F x 9CT 6 x 4F x 9 ¹ / ₂ CT	47-322 47-332	DOUBLE MECHANICAL SEAL ¹		4
6 x 4F x 10CT	47-342	EPDM, silicon carbide Viton, silicon carbide	V(M8XM1)	8

EPDM, silicon carbide Viton, silicon carbide	V (IVIOXIVI I)
¹ DRI-STOP 2R is recommended when a mechanical seal is used. DRI-STOP swit damage to pump due to dry operation. C Bulletin A-105.	tch prevents

			ADDT	PUMP-		
RPM	VOLTAGE	HP	MODEL NUMBER	PRICE CODE NO.	MOTOR SHIP. WT.	
		3.0	-H3.0	K	130	
		5.0	-H5.0	F	155	
1450		7.5	-H7.5	G	190	
	000 000 400/0/50 00	10.0	-H10.0	Н	200	
or 1725	208-230-460/3/50-60	15.0	-H15.0	S	300	
1725		20.0	-H20.0	V	400	
	(190-380-415/3/50)	25.0	-H25.0	W	480	
	(190-380-415/3/50)	30.0	-H30.0	Χ	500	
		5.0	-D5.0	J	155	
2850		7.5	-D7.5	Т	175	
or		10.0	-D10.0	Р	195	
3450		15.0	-D15.0	L	210	
		20.0	-D20.0	М	335	

OPTIONS

DESCRIP	TION	PRICE CODE NO.	² Long Coupling Kit includes cast		
Trimmed impel specified		47-0084	iron bearing pedestal frame, FRP channel, flexible coupling, guard. (Order pump separately)		
Flange connections	For models	47-0061			
(ANSI 150 lbs)	3 x 2	47-0001			
(ANSI 150 lbs)	4 x 3	47-0073			
Hastelloy C shaft 6 x 4		Change T to H ir change 5th digit	n Model No. & from 2 to 3 in Price Code No.		

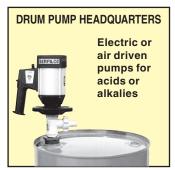
LONG COUPLING KITS ²						
FOR MODELS	FOR MOTOR FRAME	PRICE CODE NO.				
	143/145T	42-0500				
3 x 2 x 71/2 4 x 3 x 8	182/184T	42-0501				
	213/215T	42-0502				
Motor mounting (For motors 10 h	42-0504					

For explosion-proof motors, motor starters, dolly mounting, etc., consult Application Engineering Department.



PUMPS SERFILCO; LTD.

.. for transferring, recirculating, spraying, cleaning or filtering







... some horizontal, vertical or self-priming centrifugal... some magnetic seal-less





SERIES 'B' & 'HB' **DEEP SUMP PUMPS** Available in a wide variety of lengths and horsepower ratings

... others metering, diaphragm or hand operated —

THERE'S A RIGHT SERFILCO PUMP FOR YOU!





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