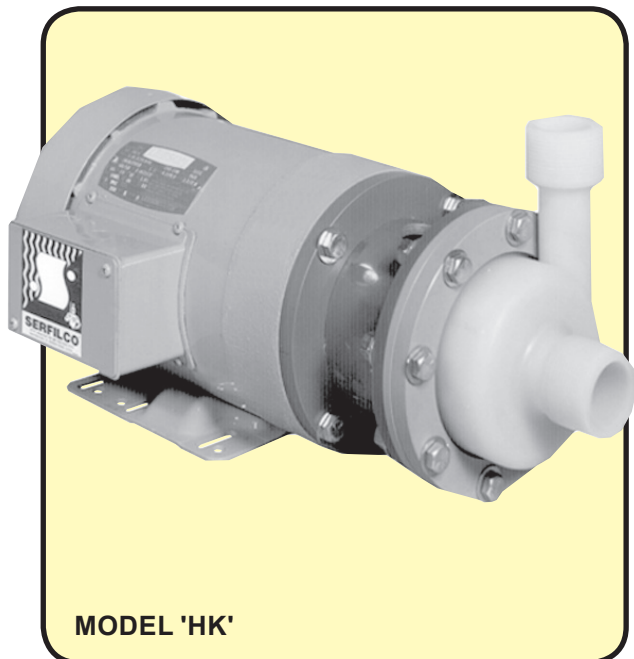


**SERFILCO®****SERIES 'HK' | HORIZONTAL PUMPS**2900 MacArthur Blvd. Northbrook, IL. USA 60062 www.serfilco.com (800) 323 - 5431BULLETIN
P-303_X
NOV 2010**High Efficiency and Low Energy Usage for:**

Wastes | Acids | Plating | Chemicals | Photographic | Etching | Scrubbing

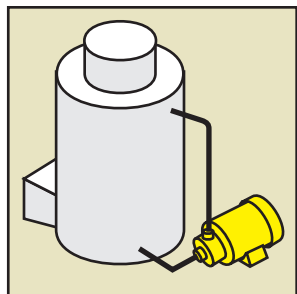
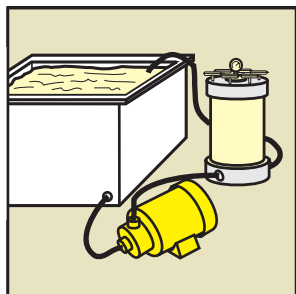
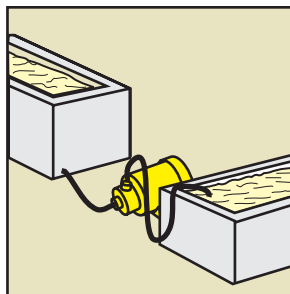
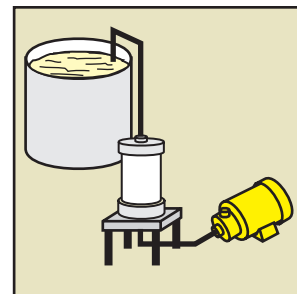


- **Flows to 78 U.S. GPM or 53 FT. TDH @ 60 Hz**
(246 LPM or 11m @ 50 Hz)
- **Non-metallic solution contact**
- CPVC or 100% PVDF
(See a chemical resistance chart)
- **Single or double mechanical seal**
Carbon/ceramic or silicon carbide
EPDM or Viton® elastomers
- **Centrifugal — quiet, vibration-free**
- **Standard models provide non-overloading full flow with liquids to 1.2 S.G.**
- **Chemical duty motor (1 - 1 1/2 HP)**
Sealed oversized bearings, cast iron end bells
Corrosion resistant two-part epoxy enamel finish,
stainless steel name plate
1.15 service factor at 50 and 60 Hz

Series 'HK' Horizontal Pumps feature "total" chemical resistance with non-metallic construction of all wetted components. The molded, semi-enclosed impellers are designed to provide maximum pumping efficiency. These pumps feature external single seal or double water-flushed mechanical seal with choice of EPDM or Viton elastomer materials.

Available close-coupled to minimize size or long-coupled with bearing pedestal base plate and motor. All close-coupled pumps are driven by chemical duty motors suitable for continuous duty in corrosive environments.

Pumps are ideal for transferring and recirculating industrial solutions, plating solutions, process chemicals and other fluid handling applications.

**FUME SCRUBBING****CLEANING & DESCALING****WASTE TREATMENT****SOLUTION TRANSFER
w/PRIMING CHAMBER**



SERIES 'HK' | HORIZONTAL PUMPS

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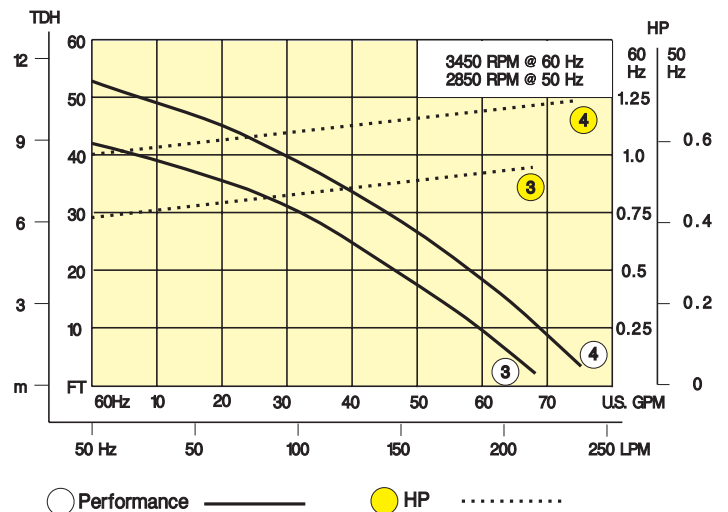
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Series 'HK' Pumps have 1½" MNPT suction x 1½" MNPT discharge and are available in CPVC with PVDF suction casing or 100% PVDF. Elastomers are Viton, or EPDM.

All models utilize a molded, semi-enclosed impeller. Mechanical seal is Type 21, externally mounted and not in solution contact. Double water flushed mechanical seal is recommended for applications where abrasives or salts are present, or for conditions where metal deposition will occur. In addition, double water flush sealed pumps will permit dry run operation.

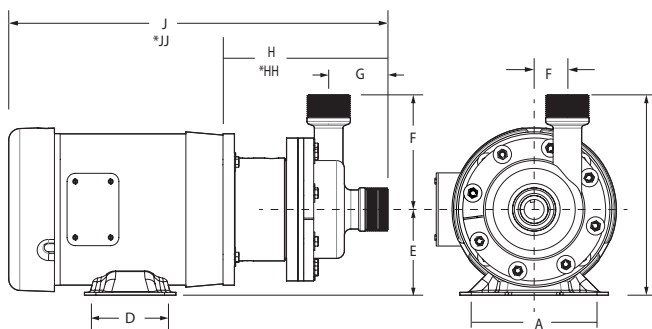
Mechanical seals are available with carbon/ceramic or all silicon carbide seal faces.

Motors are chemical duty with sealed oversize bearings, cast iron end bells, two-part epoxy finish, and stainless steel tag. Motors are rated with 1.15 service factor at 50 or 60 Hz.



DIMENSIONS

MODEL HK1-1/2x1-1/2



DIMENSIONS						
	A	B	C	D	E	F
Inches	5-1/2	9	1-1/2	4	3-1/2	5
(mm)	(140)	(229)	(38)	(102)	(89)	(127)

G	H	* HH	J	* JJ
2-9/16 (65)	7-1/4 (184)	7-1/4 (184)	18-1/4 (464)	18-1/4 (464)

* HH and JJ are double seal dimensions.

ORDERING INFORMATION

TABLE I

Select flow curve with desired performance. Select CPVC or PVDF. All models have carbon/SF¹ ceramic seal, Viton elastomers, and three phase motor. Motor HP is non-overloading for full flow at 1.2 S.G.

CURVE	CPVC SINGLE SEAL		CPVC DOUBLE SEAL	
	MODEL	PRICE CODE NO.	MODEL	PRICE CODE NO.
3	HK1½ x 1½CK3V(M2) D1.0	47-0832 F	HK1½ x 1½CK3V(M2 X M1) D1.0	47-0835 F
4	HK1½ x 1½CK4V(M2) D1.5	47-0842 H	HK1½ x 1½CK4V(M2 x M1) D1.5	47-0845 H
	PVDF SINGLE SEAL		PVDF DOUBLE SEAL	
	MODEL	PRICE CODE NO.	MODEL	PRICE CODE NO.
3	HK1½ x 1½K3V(M2) D1.0	47-0932 F	HK1½ x 1½K3V(M2 x M1) D1.0	47-0935 F
4	HK1½ x 1½K4V(M2) D1.5	47-0942 H	HK1½ x 1½K4V(M2 x M1) D1.5	47-0945 H

¹ SF= Silica-free ceramic.



SERIES 'HK' | HORIZONTAL PUMPS

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ORDERING INFORMATION Con't

TABLE II

To construct model/price code number for pump with EPDM elastomers, SiC seal, three phase motor or increased horsepower, see chart below. Use price code number to order.

EXAMPLE:

PUMP + IMPELLER + ELASTOMER & MECHANICAL SEAL + MOTOR = PRICE CODE NO.
HK1½ x 1½K + 3 + V(M8 x M1) + D1.5 = 47-0938 H

PUMP		
MATERIAL	MODEL	PRICE CODE NO.
CPVC / PVDF	HK1-1/2 x 1-1/2CK	47-08
100% PVDF	HK1-1/2 x 1-1/2K	47-09

IMPELLER	
FLOW CURVE	ADD TO MODEL & PCN
3	3
4	4

"O"-RING MECHANICAL SEAL		
MATERIAL (SOLUTION CONTACT)	ADD TO . .	
	MODEL	PCN
<u>SINGLE SEAL</u>		
EPDM, carbon SF ¹ ceramic	L(M1)	1
EPDM, silicon, carbide	L(M8)	0
Viton, carbon SF ¹ ceramic	V(M2)	2
Viton, silicon carbide	V(M8)	7
<u>DOUBLE SEAL</u>		
EPDM, carbon SF ¹ ceramic	L(M1xM1)	4
EPDM, silicon, carbide	L(M8xM1)	9
Viton, carbon SF ¹ ceramic	V(M2xM1)	5
Viton, silicon carbide	V(M8xM1)	8

MOTOR - TEFC					PUMP & MOTOR SHIP. WT. (Lbs.)
HP	I-PHASE ²		3-PHASE ³		
	MODEL	PCN	MODEL	PCN	
1	-C1.0	E	-D.1	F	35
1-1/2	-C1.5	G	-D1.5	H	40

¹ SF= Silica-free ceramic.

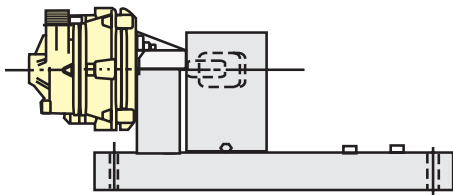
² Single Phase
115-190-230V/1/50-60

³ Three Phase
230-460V/3/50-60 or 380-415V/3/50

OPTIONAL

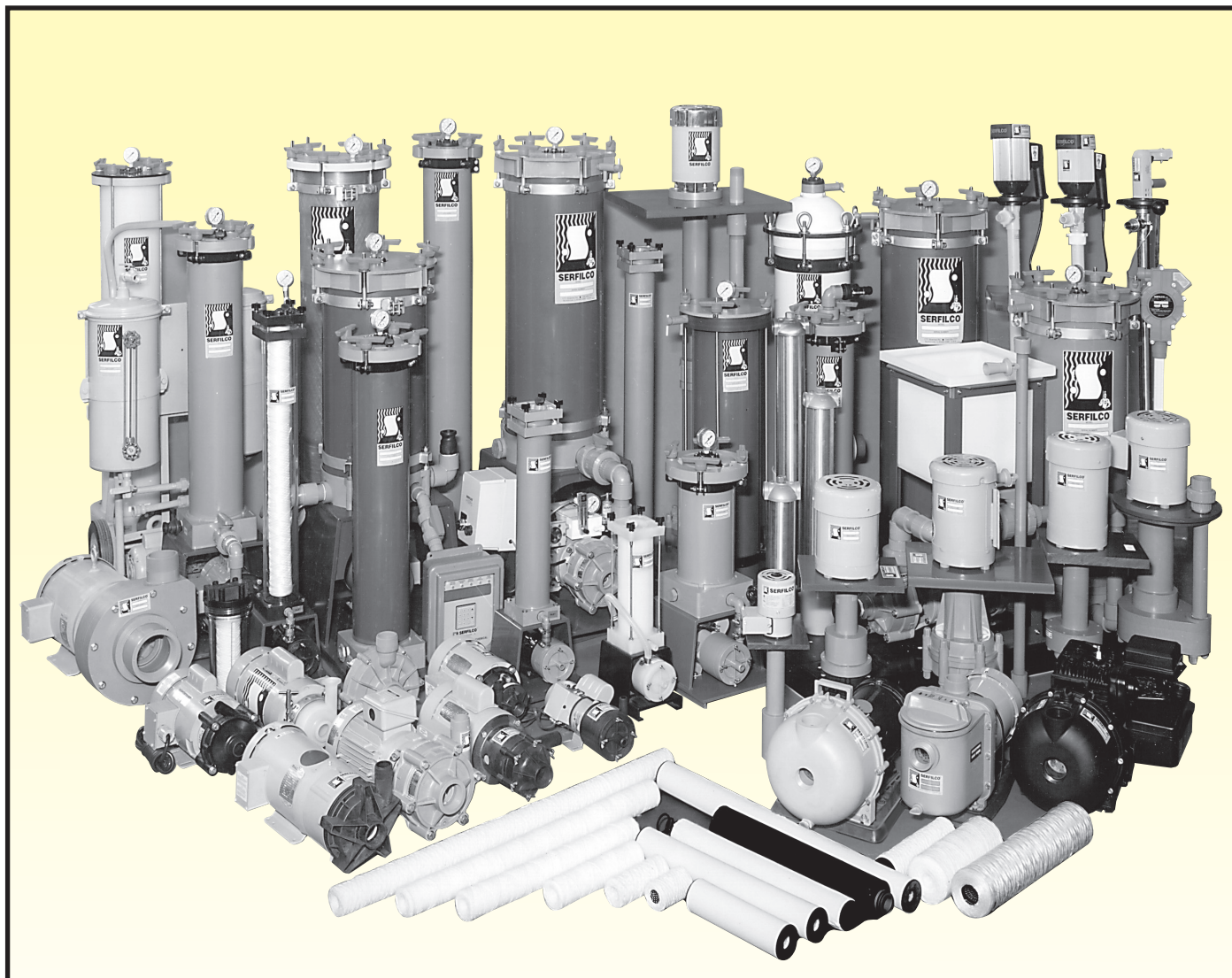
LONG-COUPLED KIT

Long-Coupled Kit includes cast iron bearing pedestal frame, fiberglass reinforced channel, flexible coupling and guard. To order unit assembled with motor, add 42-0204.



TO ORDER LONG COUPLED KIT	ADD TO MODEL NO.	PRICE CODE NO.
For 143T & 145T frame (HK1-1/2 x 1-1/2 pump)	- LCK-2	42-0217A
Assembled with motor		42-0204

Also available from SERFILCO:



Your one-stop source for pumping, filtration and purification needs!

SERFILCO can help you realize the economic value of clarification and purification of your process solutions and waste streams. Our wide range of pumps, filters, packaged systems, accessories and related control instruments make it possible for you to take advantage of one-stop shopping for all of your liquid handling needs. With modern filtration technology at work in your facility, you can reduce waste, lower your manufacturing costs, and enhance product integrity.

We've been serving industry worldwide for 50 years. We're ready to serve you, too!