



# SERFILCO®

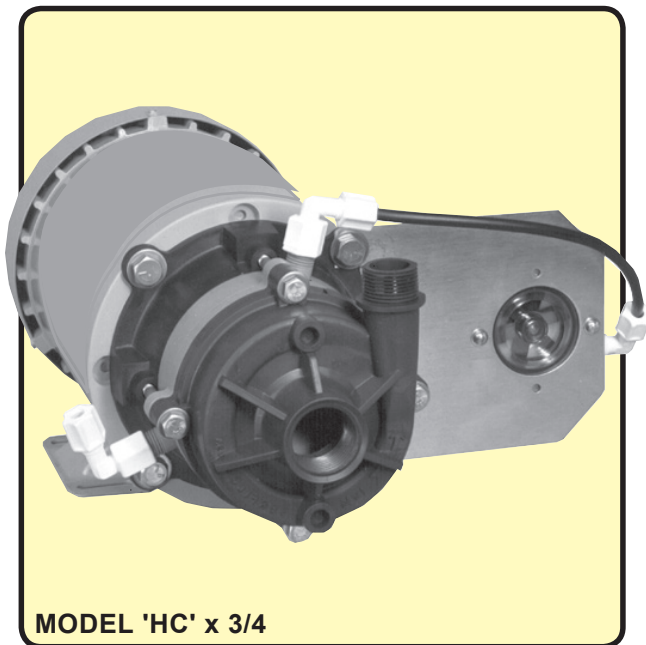
Chemical resistant pumps & filters engineered for industry

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P-204\_A  
10/17/2023  
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## SERIES 'HC' | HORIZONTAL PUMPS

**High Efficiency and Low Energy usage for:**

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



**MODEL 'HC' x 3/4**

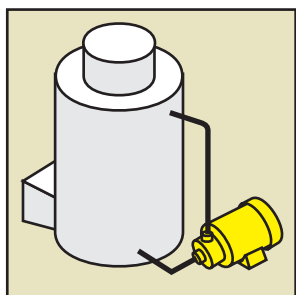
*Shown with double mechanical water-flush seal and available DRI-STOP 2R*

- **Flows to 35 U.S. GPM or 48 FT. TDH @ 60 Hz**  
(110 LPM or 10m @ 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 3/4 HP motor**  
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

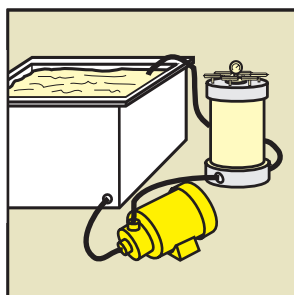
**Series 'HC' Horizontal Pumps** feature "total" chemical resistance with non-metallic construction of all wetted components. The molded, semi-enclosed impellers are designed to provide maximum pumping efficiency. These pumps feature external single seal or double water-flushed mechanical seal with choice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

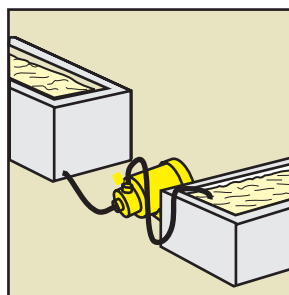
Pumps are ideal for transferring and recirculating industrial solutions, plating solutions, process chemicals and other fluid handling applications.



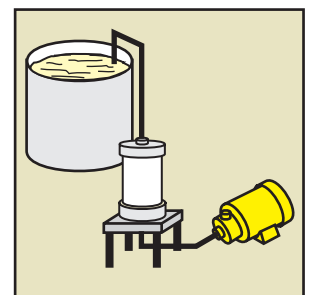
**FUME SCRUBBING**



**CLEANING & DESCALING**



**WASTE TREATMENT**



**SOLUTION TRANSFER  
w/PRIMING CHAMBER**



# SERIES 'HC' | HORIZONTAL PUMPS

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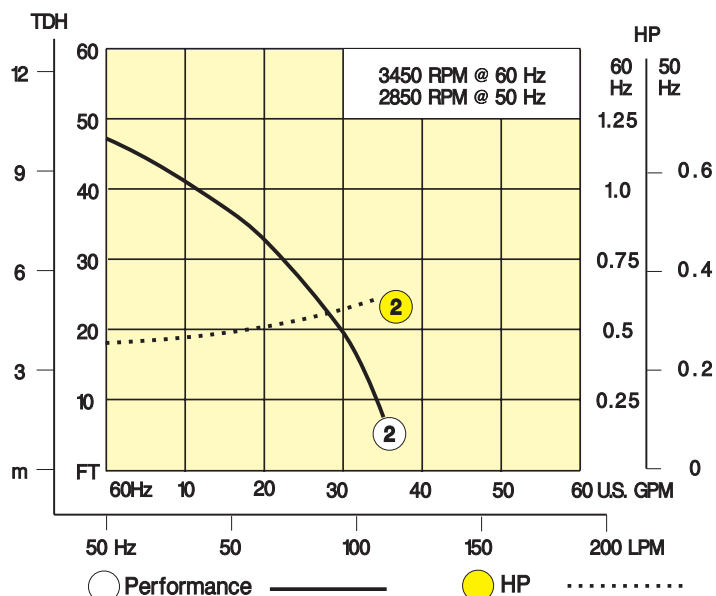
2900 MacArthur Blvd. Northbrook, IL. USA 60062 [www.serfilco.com](http://www.serfilco.com) (800) 323 - 5431

**Series 'HC' pumps** have 1" FNPT suction x  $\frac{3}{4}$ " MNPT discharge and are available in CPVC or 100% PVDF. Elastomers are FKM or EPDM.

All models utilize a molded, semi-enclosed impeller. Mechanical seal is 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.

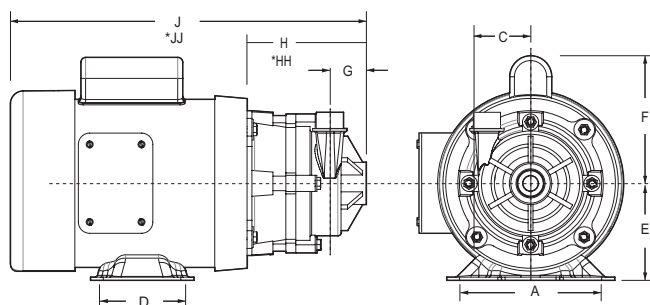
Mechanical seals are available with carbon/ceramic or all silicon carbide seal faces.

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 HC1 x 3/4



DIMENSIONS						
	A	B	C	D	E	F
Inches	4-7/8	9	1-11/16	3	3-1/2	2-3/4
(mm)	(124)	(229)	(43)	(76)	(89)	(70)

G	H	* HH	J	* JJ
1-13/32 (36)	4-5/16 (110)	5-7/32 (133)	13-1/16 (332)	14 (356)

\* 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/SF<sup>1</sup> ceramic seal, Viton elastomers, and single 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.
2	HC1 x $\frac{3}{4}$ C2V(M2) C.75	47-0622 C	HC1 x $\frac{3}{4}$ C2V(M2 X M1) C.75	47-0625 C
2	PVDF, SINGLE SEAL		PVDF, DOUBLE SEAL	
	MODEL	PRICE CODE NO.	MODEL	PRICE CODE NO.
	HC1 x $\frac{3}{4}$ K2V(M2) C.75	47-0722 C	HC1 x $\frac{3}{4}$ K2V(M2 x M1) C.75	47-0725 C

<sup>1</sup> SF= Silica-free ceramic.



## 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:**

<b>PUMP</b>	+	<b>IMPELLER</b>	+	<b>ELASTOMER &amp; MECHANICAL SEAL</b>	+	<b>MOTOR</b>	=	<b>PRICE CODE NO.</b>
HC1x3/4C	+	2	+	V(M8 x M1)	+	C.75	=	47-0628 C

PUMP		
MATERIAL	MODEL	PRICE CODE NO.
CPVC	HC1 x 3/4C	47-06
100% PVDF	HC1 x 3/4K	47-07

IMPELLER	
FLOW CURVE	ADD TO MODEL & PCN
2	2

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

MOTOR - TEFC					PUMP & MOTOR SHIP. WT.(Lbs.)
HP	I-PHASE <sup>2</sup>		3-PHASE <sup>3</sup>		
	MODEL	PCN	MODEL	PCN	
3/4	-C.75	C	-D.75	D	30

<sup>1</sup> SF= Silica-free ceramic.

<sup>2</sup> Single Phase  
115-190-230V/1/50-60

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

<sup>1</sup> SF= Silica-free ceramic.

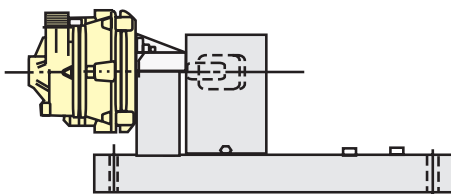
<sup>2</sup> Single Phase  
115-190-230V/1/50-60

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

## OPTIONAL

### LONG-COUPLED KIT

Long-Coupled Kit includes plastic bearing pedestal frame, fiberglass reinforced channel (23.5" x 10" x 2.75"), flexible coupling and guard, and stainless steel fasteners. To order unit assembled with motor, add 42-0204.



TO ORDER LONG COUPLED KIT	ADD TO MODEL NO.	PRICE CODE NO.
For 56 frame (HC1 x 3/4 pump)	- LCK-1	42-0210
Assembled with motor		42-0204



# PERFECT PUMPS FOR CHEMICALS

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**Proudly Made in the USA, SERFILCO Offers the Widest Range of Chemical Pumps Anywhere.**

## **'EH' Vertical Pump**

- Can Run Dry
- Extended Column to 10'
- Flows to 185 gpm, 145 ft. TDH



## **'HE' Horizontal Pump**

- Single or Double Mech. Seal
- Variety of Material Types
- Flows to 175 gpm, 140 ft. TDH



## **'ME' Magnetic Coupled Pump**

- Seal-less Magnetic Coupled
- Polypropylene or PVDF
- Flows to 95 gpm, 54 ft. TDH



## **'EF' Vertical Pump**

- Can Run Dry
- Suction Extension to 3'
- Flows to 400 gpm, 170 ft. TDH



## **'HF' Horizontal Pump**

- Single or Double Mech. Seal
- Variety of Material Types
- Flows to 400 gpm, 160 ft. TDH



## **'FE' Magnetic Coupled Pump**

- Seal-less Magnetic Coupled
- Polypropylene or PVDF
- Flows to 130 gpm, 97 ft. TDH



## **'EHM' Vertical Pump**

- Can Run Dry
- Suction Extension to 3'
- Flows to 650 gpm, 115 ft. TDH



## **'HA' Horizontal Pump**

- Single or Double Mech. Seal
- Machined from Solid CPVC
- Flows to 1200 gpm, 115 ft. TDH



## **'FES' Magnetic Coupled Pump**

- Seal-less Magnetic Coupled
- Polypropylene or PVDF
- Flows to 250 gpm, 175 ft. TDH

