SERIES 'HF' **HORZIONTAL PUMP**

P-208A





HIGH FLOW, HIGH TDH **ANSI DIMENSIONAL** HIGH EFFICIENCY /LOW ENERGY USAGE

- Flows to 400 U.S. GPM or 170 ft. TDH @ 60 Hz (1250 L/min or 42 m @ 50 Hz)
- Non-metallic solution contact High-temperature polypropylene or CPVC (Refer to a chemical resistance chart)
- Centrifugal quiet, vibration free
- Choice of single or double mechanical seal with EPDM or Viton® elastomers
- Choice of long or close-coupled
- Chemical Duty motor standard Sealed oversized bearings, cast iron end bells,

corrosion resistant two-part epoxy coating, stainless steel nameplate

ANSI dimensional — with optional flanged connections

The Series 'HF' Horizontal Pump represents the next generation of molded pumps from SERFILCO. The 'HF' retains a robust design and non-metallic solution contact to meet the most demanding applications while providing the choice of materials of construction and economy found in all of our molded pumps.

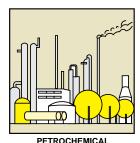
The 'HF' is offered in a choice of SERFILCO exclusive high-temperature polypropylene or CPVC construction and is ANSI dimensional with the optional flanged connections.

The totally enclosed impeller is molded to close tolerances

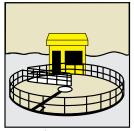
which allows peak horsepower efficiency across a broad range of operational flow and head requirements.

The external mechanical seal and impeller sleeve design isolates metal components to provide non-metallic solution contact with the pumped liquid. The standard (M8) seal assembly has silicon carbide seal faces and is the most durable and longest lasting mechanical seal available. Double mechanical seal models require water lubrication of the seal faces and allow the pump to be used for solutions containing abrasives, high salt concentrations and for electroless plating solutions.

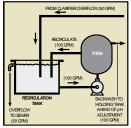
TYPICAL APPLICATIONS



- FUME SCRUBBING - COOLING TOWER



- WASTE TREATMENT - PROCESS WATER

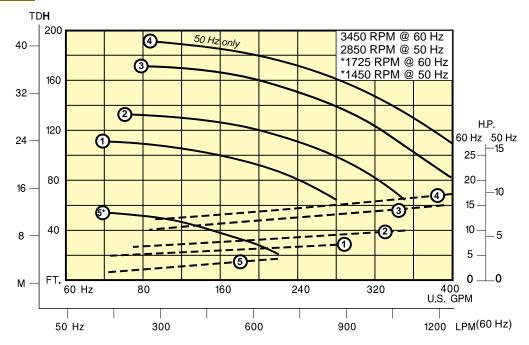


FILTER SYSTEM

–(50 Hz)–

SERFILCO

SERIES 'HF' Specifications And Performance Curves



9 1/4" 2 3/4" 8 1/4" 3' FNPT 6 1/4" Ø 13"

DIMENSIONS

MOTOR	HP		DIMENSIONS in. (mm)				
FRAME	пР	A*	В*	С	D	E*	F
184TC	5.0	14.0(356)	8.7(221)	5.5(140)	2.8(71)	4.5(114)	7.5(191)
213TC 215TC	7.5 10.0	15.5 (394) 15.4(390)	10.4(263)	5.5(140) 7.0(178)	3.5(89) 4.4(111)	5.3(135) 5.5(140)	8.5(216)
215TC	15.0	15.4(390)	10.4(263)	7.0(178)	4.4(111)	5.5(140)	8.5(216)

^{*} Motor dimensions will very with motor manufacturer

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SERIES 'HF' Specifications and Ordering Information

Pumps are molded of SERFILCO exclusive hightemperature polypropylene or CPVC and have sleeved stainless steel shafts for non-metallic solution contact. All models have an enclosed impeller and externally mounted Type 21 mechanical seal with silicon carbide seal faces. ANSI 150 lb. flange connections are optional. Standard O-rings are EPDM (ethylene propylene). External hardware not in liquid contact is stainless steel. Motor is coated with two-part epoxy.

A double mechanical seal is recommended for solutions containing abrasives, high temperature and other critical service.

TO ORDER use Price Code Number

FOR STANDARD PUMP-MOTOR COMBINATION, SELECT MODEL FROM TABLE I. FOR CUSTOM PUMP-MOTOR COMBINATION, SELECT FROM TABLE II ON PAGE 4

TABLE I

STANDARD MODELS

60 Hz MODELS				
FLOW MODEL NUMBER		PRICE	MODEL NUMBER	PRICE CODE
CURVE	CPVC	CODE NO.	PPP- POLYPROPYLENE	NO.
1	HF3x2CM1L(M8)-D7.5	47-5011A	HF3x2PM1L(M8)-D7.5	47-5111A
2	HF3x2CM2L(M8)-D10.0	47-5021B	HF3x2PM2L(M8)-D10.00	47-5121B
3	HF3x2CM3L(M8)-D15.0	47-5031C	HF3x2PM3L(M8)-D15.0	47-5131C
5	HF3x2CM5L(M8)-H5.0	47-5051D	HF3x2PM5L(M8)-H5.0	47-5151D

50 Hz MODELS				
FLOW	FLOW MODEL NUMBER		MODEL NUMBER	PRICE CODE
CURVE	CPVC	CODE NO.	PPP- POLYPROPYLENE	NO.
1	HF3X2CM1L(M8)-D7.5-50	47-5011E	HF3X2PM1L(M8)-D7.5-50	47-5111E
2	HF3X2CM2L(M8)-D7.5-50	47-5021E	HF3X2PM2L(M8)-D7.5-50	47-5121E
3	HF3X2CM3L(M8)-D10.0-50	47-5031F	HF3X2PM3L(M8)-D10.0-50	47-5131F
4	HF3X2CM4L(M8)-D10.0-50	47-5041F	HF3X2PM4L(M8)-D10.0-50	47-5141F
5	HF3X2CM4L(M8)-H5.0-50	47-5051G	HF3X2PM5L(M8)-H5.0-50	47-5151G

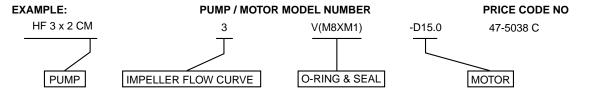
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TABLE II

CUSTOM MODELS

To determine pump model for a specified gpm, TDH, material and specific gravity (SG), 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 SG Select pump, O-ring, mechanical seal, and motor to construct Model and Price Code No.





PUMP	PRICE CODE NO.
CPVC HF 3x2CM	47-50
HIGH - TEMP PP HF 3x2PM	47-51

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

'O'-RING & MECHANICAL	ADD TO		
SEAL MATERIAL (SOLUTION CONTACT)	MODEL NUMBER	PRICE CODE NO.	
SINGLE MECHANICAL SEAL			
EPDM SILICON CARBIDE	L(M8)	1	
VITON SILICON CARBIDE	V(M8)	7	
DOUBLE MECHANICAL SEAL ¹			
EPDM SILICON CARBIDE	L(M8xM1)	4	
VITON SILICON CARBIDE	V(M8xM1)	8	

DRI-STOP 2R is recommended when a double mechanical seal is used. DRI-STOP switch prevents damage to pump due to dry operation. Consult Bulletin A-105

	NEMA MOTORS ²		
Hz	ADD TO		
RPM	HP MODEL NUMBER	PRICE CODE NUMBER	
60 Hz 3450	-D.7.5 -D10.0 -D15.0	A B C	
60 Hz 1725	-H5.0	D	
50 Hz 2850	-D7.5-50 -D10.0-50	E F	
50 Hz 1450	-H5.0-50	G	

OPTIONS

DESCRIPTION	ADD TO MODEL	PRICE CODE NO.
Trimmed impeller to meet specified flow	_	47-0084
Flange connections ANSI dimensional	-F	Х

LONG COUPLING KIT ³			
FOR MODEL	FOR MOTOR FRAME	PRICE CODE NO.	
HF 3 X 2	182/184T	42-0501	
ПГЗХ2	213/215T	42-0502	
Motor mounting	42-0504		

³ LONG COUPLING KIT INCLUDES CAST IRON BEARING PEDESTAL FRAME, FRP CHANNEL, FLEXIBLE COUPLING, GUARD

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² 60 Hz= 208-230/460/3/60 50 Hz=190-208/380-415/3/50