SERFILCO® INTERNATIONAL

SERIES 'HE' HORIZONTAL PUMP

Energy saving centrifugal pumps for:

Wastes / Acids / Plating Chemicals / Photographic Etching, scrubbing & Cleaning solutions

- Flows to 580 LPM or 31m @ 50 Hz, 185
 U.S GPM or 145 FT. TDH @ 60 Hz
- Non-metallic solution contact

 -PPP high temperature polypropylene construction, CPVC, PVDF or ECTFE-T
- Single or Double Mechanical Seals with water flush
- Pump Casing indexes to six directions of discharge
- Chemical duty motor (1.0 5 kW)
- Centrifugal quiet, vibration-free
- NPT or BSP connections



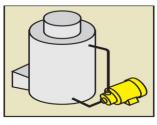
Available with "DRI-STOP" protection, to prevent damage from dry operation

Here is a pump capable of "total" chemical resistance, both internally and externally with its non-metallic construction of all wetted components, choice of seal assembly and elastomer materials. Engineering type plastics (see chemical resistance table) provide application to a variety of chemicals which would be corrosive to other materials of construction.

The totally enclosed impeller is moulded to the close tolerances of industrial standards which allows this pump to operate at peak horsepower efficiency across a broad range of operational flow/head requirements.

The external mechanical seal and impeller sleeve assembly eliminates any metal in contact with the solution pumped. Unique design of carbon/ceramic mechanical seal isolates metal components from solution contact. Double mechanical seal model requires water lubrication of seal faces and allows the pump to be used for solutions containing abrasives, high salt concentration and electroless plating solutions. The (M3) seal component is silica-free ceramic which allows the pump to be used for solutions which contain fluorides.

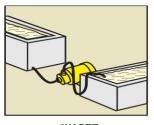
The (M8) seal assembly is Silicone carbide and designed for slurries and abrasive solutions.



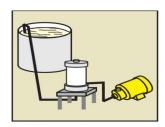
PRESSURE SPRAYING



FILTER



TREATMENT



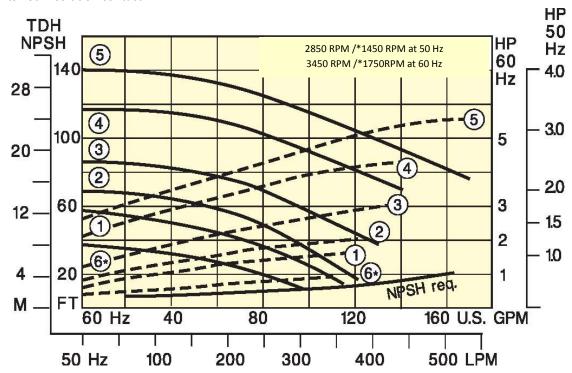
SOLUTION TRANSFER W/PRIMING CHAMBER

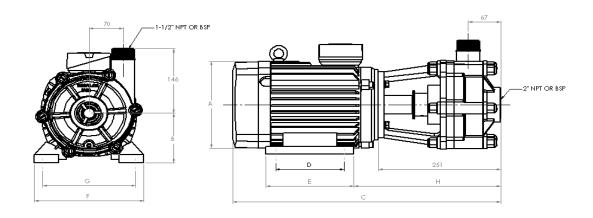


SERIES 'HE' Specifications

Standard models constructed of CPVC, polypropylene or PVDF with threaded connections. Motor shaft is protected by impeller sleeve assembly, elastomers are EPDM or Viton. Impellers are enclosed. Mechanical seal is type 21, externally mounted with stainless steel components not in solution contact.

Double mechanical seal is recommended for solutions containing abrasives, high temperature, or other critical service. Close coupled motors are Metric IP55. The motors can operate on 50 or 60 Hz at full rated horsepower. PP and CPVC pumps are available with BSP or NPT threads.





MOTOR	DTOR DIMENSIONS (mm)							
kW	Α	В	C	D	E	F	G	Н
1.5	157	9	476	100	130	178	140	292
2.2	157	9	476	100	130	178	140	292
3	177	100	522	140	175	192	160	297
4	196	112	549	140	180	224	190	301



TO ORDER FROM TABLE I

From the performance graph select the required flow curve by checking the required flow vs the discharge pressure required then select CPVC/VITON, Polypropylene/EPDM, or PVDF/VITON pumpmotor model with either single or double seal. (See Chemical resistant chart)

	50HZ MODELS WITH METRIC MOTORS AND SINGLE MECHANICAL SEAL (SILICON CARBIDE)					
CPVC / VITON			PP / EPDM			
Flow Curve	MODEL NUMBER	Price Code	Flow Curve	MODEL NUMBER	Price Code	
2	H2X11/2CE2V(M8)-DM2.0-B	42-0128-BMB	2	H2X11/2PE2L(M8)-DM2.0-B	42-0420-BMB	
3	H2X11/2CE3V(M8)-DM2.0-B	42-0138-BMB	3	H2X11/2PE3L(M8)-DM2.0-B	42-0430-BMB	
4	H2X11/2CE4V(M8)-DM3.0-B	42-0148-CMB	4	H2X11/2PE4L(M8)-DM3.0-B	42-0440-CMB	
5	H2X11/2CE5V(M8)-DM4.0-B	42-0158-DMB	5	H2X11/2PE5L(M8)-DM4.0-B	42-0450-DMB	

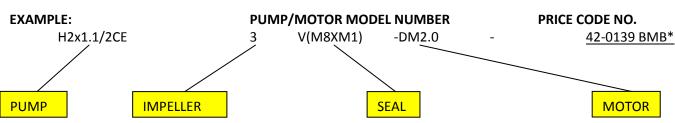
	50HZ MODELS WITH METRIC MOTORS AND DOUBLE MECHANICAL SEALS (SILICON CARBIDE / CERAMIC)						
CPVC / VITON			PP / EPDM				
Flow Curve MODEL NUMBER Price Flow Curve			MODEL NUMBER	Price Code			
2	H2X11/2CE2V(M8XM1)-DM2.0-B	42-0129-BMB	2	H2X11/2PE2L(M8XM1)-DM2.0-B	42-0424-BMB		
3	H2X11/2CE3V(M8XM1)-DM2.0-B	42-0139-BMB	3	H2X11/2PE3L(M8XM1)-DM2.0-B	42-0434-BMB		
4	H2X11/2CE4V(M8XM1)-DM3.0-B	42-0149-CMB	4	H2X11/2PE4L(M8XM1)-DM3.0-B	42-0444-CMB		
5	H2X11/2CE5V(M8XM1)-DM4.0-B	42-0159-DMB	5	H2X11/2PE5L(M8XM1)-DM4.0-B	42-0454-DMB		

50Hz MODELS WITH METRIC MOTOR AND (M8) SILICON CARBIDE SEAL			50Hz MODELS WITH METRIC MOTOR AND DOUBLE MECHANICAL SEAL (M8 X M1)		
PVDF / VITON			PVDF / VITON		
Flow Curve	MODEL NUMBER	Price Code	MODEL NUMBER		Price Code
2	H2X11/2KE2V(M8)-DM2.0	42-0328-BM	2	H2X11/2KE2V(M8XM1)-DM2.0	42-0329-BM
3	H2X11/2KE3V(M8)-DM2.0	42-0338-BM	3	H2X11/2KE3V(M8XM1)-DM2.0	42-0339-BM
4	H2X11/2KE4V(M8)-DM3.0	42-0348-CM	4	H2X11/2KE4V(M8XM1)-DM3.0	42-0349-CM
5	H2X11/2KE5V(M8)-DM4.0	42-0358-DM	5	H2X11/2KE5V(M8XM1)-DM4.0	42-0359-DM



TO ORDER FROM TABLE II

To determine pump-motor for a selected I/min, TDH, and/or specific gravity, select flow/pressure point on curve. Required H.P is determined by moving vertically to corresponding dotted line and then horizontally to H.P scale. Multiply indicated H.P by specific gravity. Select pump materials and mechanical seal(s) and construct Model and price code no.



PUMP	PRICE CODE NO.	
CPVC	42-01	
H2X1-1/2CE	42-01	
PVDF	42-03	
H2X1-11/2K	42-03	
POLYPROP	42-04	
H2X1-1/2PE	42-04	
ECTFE-T	42-06	
H2X1-1/2HE	42-06	

FLOW	ADD	TO
CURVE NO.	MODEL NO.	P.C.N.
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6

"O"-RING & MECHANICAL	ADD TO	
SEAL MATERIAL	MODEL	PRICE
(SOLUTION CONTACT)	NUMBER	CODE NO.
SINGLE MECHANI	ICAL SEAL	
EPDM CARBON/CERAMIC*	L(M1)	1
EPDM SILICON CARBIDE	L(M8)	0
VITON CARBON/CERAMIC	V(M2)	2
VITON SILICON CARBIDE	V(M8)	8
DOUBLE MECHANI	CAL SEAL**	
EPDM CARBON/CERAMIC	L(M1XM8)	5
EPDM SILICON CARBIDE	L(M8XM1)	4
VITON CARBON/CERAMIC	V(M2XM1)	6
VITON SILICON CARBIDE	V(M8XM1)	9

TEFC 190/380-415/3/50					
	or 208-230/460/	3/60			
	METRIC MOTORS				
	ADD 1	ГО			
RPM	HP MODEL	PRICE			
	NUMBER	CODE NO.			
	DM1.5	AM			
2850	DM2.0	BM			
or	DM3.0	CM			
3450	DM5.0	DM			
	DM7.5	EM			
1450 or	HM1.0	FM			
1725	HM1.5	GM			

*For BSP threads on CPVC and PP models add –B to Model number and suffix B to Price Code

OPTIONAL

	PRICE
DESCRIPTION	CODE NO.
FLANGE CONNECTIONS	42-0200
*ANSI 150Lbs. 2" x 1-1/2"	42-0211
(not installed)	42-0218
STAINLESS STEEL SI	42-0230

^{*}For DIN flanges 63mm x 50mm add –M to price code

LONG COUPLED KIT				
MODEL	MODEL MOTOR FRAME			
LCK-1	182T & 184T	42-0201A		
LCK-2	142T & 145T	42-0202A		
LCK-3	56	42-0203A		
LCK-4 182 & 184		42-0205A		
МО	42-0204			
8	& ALIGNMENT			

Long coupled kit includes cast iron bearing, pedestal frame, fibreglass reinforced channel, flexible coupling and guard and stainless steel shaft and fastners



SERFILCO® INTERNATIONAL

Unit 4b Broadoak Industrial Park Ashburton Road West, Trafford Park Manchester M17 1RW UK Tel: +44 161 872 1317 Fax: +44 161 873 8027

Web: www.serfilco-international.com