

Model 3E

IMO Model 3E pumps are three screw, positive displacement, rotary pumps designed and engineered for excellent suction capability over a wide range of fluid viscosities. Flow rates (1 to 100 GPM) are proportional to rotating speed when the pump is operated within the recommended pressure range. The pump has the ability to self-prime in a piping system designed to facilitate this feature.

The unique IMO design—only three moving parts—is the key to the model 3E pump performance. A precision bored housing encases the driven screw (power rotor) and intermeshing sealing screws (idler rotors). The accurately machined idler rotors conform perfectly to the threads of the power rotor and to the housing bores confining the fluid in a succession of closures or cavities. As the screws rotate, the fluid is moved axially from the inlet port to the outlet port in a continuous, uniform flow. This uniform axial flow results in a minimum of fluid pulsation and extremely quiet operation.

The rotating idler rotors generate a hydrodynamic film of fluid which supports the idlers in the housing bores and prohibits wearing contact. The strength of this film is based on fluid viscosity, pump pressure and speed. As pressure requirements increase, the hydrodynamic film can be strengthened by increasing

Applications

Model 3E pumps are designed to meet the requirements for hydraulic, lubricating, seal, distillate, residual and fuel oil applications. These units have been widely utilized in such places as power plants, refineries, fuel oil burners, petrochemical plants, mechanical transmissions, and lubricating seal oil systems—wherever high performance and reliability in a compact design are required.

Typical applications are:

Lubrication of diesel engines, steam turbine/

1-100 GPM

Up to 150 PSI



viscosity or speed. Both the flow rate and pressure capability of the IMO pump increase with speed; thus higher speeds generally result in better performance and longer life.

The symmetrical arrangement of the rotors (screws) eliminates the need for bearings to absorb radial loads. Model 3E pumps contain only one ball bearing which positions the power rotor for proper operation of the mechanical seal. This permanently grease-packed bearing is isolated from the pumpage by the mechanical seal to prevent contamination and improper lubrication.

Model 3E pumps are offered in ten rotor sizes for foot or flange mounted configurations. A variety of construction materials are available to meet operating conditions and job specifications. Complete pump/driver assemblies can be provided as required.

The simple compact design of the Model 3E pump permits fast, easy installation and low maintenance. The bearing and shaft seal are easily replaced when necessary. The pump can be positioned in 90 degree increments to accommodate piping arrangements. Periodic inspection can be made without removing the pump, and routine maintenance can be performed without distrubing system piping.

generator sets, reciprocating and centrifugal compressors, transmission gears, large centrifugal pumps, high inlet pressure refrigeration screw compressors, and other rotating machinery.

Circulation of fuel oils, hydraulic oils, transformer insulating oil and most petroleum based fluids in general.

Transfer, loading and unloading of clean lube, fuel, waste and similar type oils in refineries, factories, storage or settling tanks and lube oil reservoirs.

Model 3E Specifications and Features

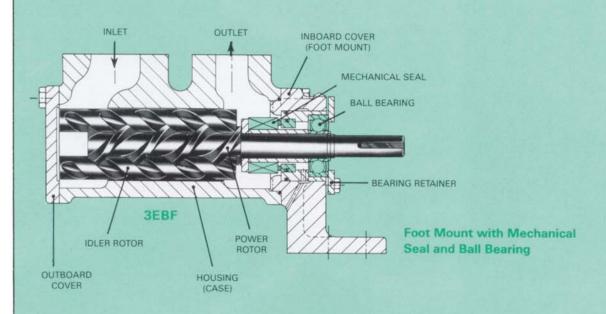
CASING	Pearlitic gray iron. Optional cast steel available in all sizes.
ROTOR HOUSING	Pearlitic gray iron. Replaceable in all cast steel models, and in 187 ± 200 size cast iron models.
POWER ROTOR	Alloy steel.
IDLER ROTORS	Pearlitic gray iron.
GASKETS	Cellulose and non-asbestos fiber.
PUMP INTERNALS	 Type B: (Sizes 87, 87P and 95) Positive drive mechanical seal, Buna-N O-rings and standard external permanently grease packed ball bearing. For all services up to 180°F and/or 25000 SSU. Type B: (Sizes 118-200) Buna-N bellows friction drive mechanical seal, Buna-N O-rings and standard external permanently grease packed ball bearing. Recommended for distillate, lube oil and most lower viscosity, clean oil services in general.
	Type H: (Sizes 118-200) Positive drive mechanical seal, viton O-rings and external high temperature deep groove ball bearing. Recommended for residual oils and all applications with fluid viscosities above 3000 SSU. Type I: (All sizes) Integral flange mounted pump with sleeve bearing in lieu of a ball bearing and no shaft seal. For applications where pump shaft is within driving machinery
	enclosure, allowing internal return-to-sump of shaft leakage. Type N: (Available in C.I. case for flange mount—118-200 sizes only) Positive drive balanced mechanical seal, neoprene O-rings, carbon on carbide sealing faces and external grease packed deep groove ball bearing. For applications requiring higher inlet and discharge pressures.
DISCHARGE PRESSURE	150 PSIG maximum (Types B, H and I) 350 PSIG maximum (Type N, providing differential pressure does not exceed 150 psi.)
INLET PRESSURE	.25 PSIG maximum (Types B, H and I) 300 PSIG maximum (Type N)
VISCOSITY	Type B and I: 33-3000 SSU (2.0-650 CST) Type H: 33-25000 SSU (2.0-5400 CST) Type N: 60-5000 SSU (10-1100 CST)
TEMPERATURE	Type B: 0-180°F Type H, I and N: 0-250°F, assuming fluid is within allowable viscosity limits.
DRIVE	Direct only.
ROTATION	Clockwise facing pump shaft. Optional countercloockwise available on all sizes, except Type N and 187M, 187Y.
MOUNTING	May be foot or flange mounted in any attitude.
CONNECTIONS	All cast iron casing pumps and size 87P, 87 and 95 steel casing pumps are NPT connections. All other steel case pumps are SAE socket weld flanged (provided with pump).
FILTRATION	. Inlet strainers are required to keep contaminants and abrasives out of pump, but they must be selected by consultation with strainer vendor to prevent pump starvation. Normally, 60 mesh for light and 1/8"-3/16" openings for heavy oils are recommended.
ACCESSORIES	. Pump/motor adapters for NEMA "C" face motors, steel bedplates and completely mounted pump/driver assemblies.

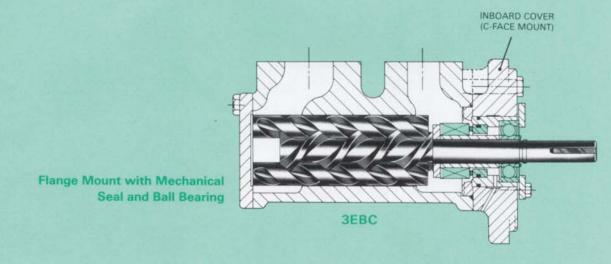
Maximum Operating Speeds (RPM)*

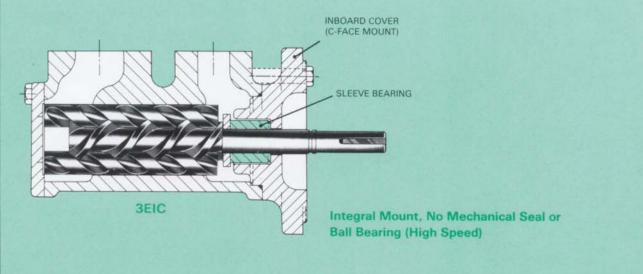
Size	87P, 87, 95	118P	118	143J	143	162	187,187Y,187M	200
Type B, H	5000	4000	4000	4000	4000	4000	4000	3800
Type N	3500	3500	3500	3500	3500	3500	3500	3500
Type I	8000	8000	6500	7000	5500	4800	4250	4000

^{*}Above values assume minimum suction conditions can be met.

Typical 3E Assembly and Mounting Options







Model 3E Performance Data

		F	otor	Size	87	P		
				3500				
Vis	cosity		Diff	ferentia	l Press	ure —	PSI	
	SSU	25	50	75	100	125	150	
	33	5.8	5.2	4.7	4.3	4.0	3.6	m
	65	6.2	5.8	5.4	5.1	4.9	4.7	Net Inlet Pressure Required (PSIA)
	100	6.4	6.0	5.8	5.6	5.4	5.2	PS
Σ	150	6.6	6.3	6.0	5.9	5.7	5.6	ed ed
GPM	650	6.9	6.8	6.7	6.6	6.5	6.4	Inle
	1000	7.0	6.9	6.8	6.7	6.6	6.6	Rec
	5000	7.1	7.1	7.0	7.0	7.0	6.9	2
	10000	7.2	7.1	7.1	7.1	7.1	7.0	
	150	0.3	0.4	0.5	0.6	0.7	0.8	4.3
	650	0.6	0.7	0.8	1.0	1.1	1.2	4.4
ВНР	1000	0.8	0.9	1.0	1.1	1.2	1.3	4.5
В	5000	2.0	2.1	2.2	2.3	2.4	2.5	5.3
	10000	3.0	3.1	3.2	3.3	3.4	3.5	6.1
	militar in the land					PHONE NAME		
			Spee	d 1750	RPM			
Mi	scosity			ferentia		sure -	PSI	
	SSU	25	50	75	100	125	150	14
	33	2.2	50	7.5	100	120	-	
	65	2.6	2.1					A)
	100	2.8	2.4	2.2	1.9			SSS SSS
Σ		2.9		2.4	2.2	2.1	1.9	Pre d (P
GPM	150		2.6		3.0	2.9	2.8	lire
0	650	3.3	3.2	3.0			-	Net Inlet Pressure Required (PSIA)
	1000	3.4	3.2	3.2	3.1	3.0	3.0	ZŒ
	5000	3.5	3.5	3.4	3.4	3.4	3.3	
	10000	3.5	3.5	3.5	3.5	3.4	3.4	27
	150	0.1	0.2	0.2	0.3	0.3	0.4	3.7
۵	650	0.2	0.2	0.3	0.3	0.4	0.5	3.8
ВНР	1000	0.2	0.3	0.3	0.4	0.4	0.5	3.9
	5000	0.5	0.6	0.6	0.7	0.7	0.8	4.0
	10000	0.8	0.8	0.9	0.9	1.0	1.0	4.2
				ed 1150	N 10 10 10 10 10 10 10 10 10 10 10 10 10	100	- House	
V	iscosity			fferent	1		PSI	
	SSU	25	50	75	100	125	150	
	33		-	-	-		-	- e -
	65	1.3		-	-	-	-	Net Inlet Pressure Required (PSIA)
	100	1.5	-		. 57	-		Net Inlet Pressur Required (PSIA
GPM	150	1.7	1.4	-	-	-	-	et l
9	650	2.0	1.9	1.8	1.7	1.6	1.6	- I
	1000	2.1	2.0	1.9	1.8	1.8	1.7	Net
	5000	2.3	2.2	2.2	2.1	2.1	2.1	
	10000	2.3	2.3	2.2	2.2	2.2	2.2	10
	150	0.1	0.1		1-		-	3.6
_	650	0.1	0.1	0.2	0.2	0.2	0.3	3.6
ВНР	1000	0.1	0.1	0.2	0.2	0.3	0.3	3.6
Ш	5000	0.2	0.3	0.3	0.3	0.4	0.4	3.7
			0.4	0.4	The state of the s	0.5	0.5	3.8

			Roto	r Siz	e 87	7		
				d 3500				
Vis	cosity		Dif	ferentia	l Press	ure — F	PSI	
	SSU	25	50	75	100	125	150	il n
	33	7.6	7.0	6.5	6.1	5.8	5.4	
	65	8.0	7.6	7.2	7.0	6.7	6.5	A
	100	8.2	7.9	7.6	7.4	7.2	7.0	(PS
2	150	8.4	8.1	7.9	7.7	7.5	7.4	Net Pressure Required (PSIA
GPM	650	8.7	8.6	8.5	8.4	8.3	8.2	quir
	1000	8.8	8.7	8.6	8.5	8.5	8.4	Rec
	5000	8.9	8.9	8.8	8.8	8.8	8.8	
	10000	9.0	8.9	8.9	8.9	8.9	8.8	
	150	0.3	0.5	0.6	0.7	0.9	1.0	4.7
	650	0.7	0.8	0.9	1.1	1.2	1.3	4.9
ВНР	1000	0.8	1.0	1.1	1.2	1.4	1.5	5.0
8	5000	2.0	2.1	2.3	2.4	2.5	2.7	6.2
	10000	3.0	3.1	3.3	3.4	3.5	3.7	7.9
	10000	3.0	3.1	0.0	0.4	0.0	0.7	7.0
			Cust	d 1750	DDM			
2.0	and the state of the state of	_		ed 1750	SOUR DE LA CONTRACTION DE LA C		nei	_
	scosity SSU	25		fferenti			PSI	-
		25	50	75	100	125	150	
	33	3.1	2.4	0.7	2.4			e c
	65	3.5	3.0	2.7	2.4	-	0.5	SSU
	100	3.7	3.3	3.1	2.8	2.6	2.5	Net Inlet Pressure Required (PSIA)
GPM	150	3.8	3.6	3.3	3.1	3.0	2.8	let irec
9	650	4.2	4.1	4.0	3.9	3.8	3.7	tln
	1000	4.3	4.1	4.1	4.0	3.9	3.9	Ne Ne
	5000	4.4	4.4	4.3	4.3	4.3	4.2	
	10000	4.4	4.4	4.4	4.4	4.3	4.3	
	150	0.1	0.2	0.3	0.3	0.4	0.5	3.9
0	650	0.2	0.3	0.3	0.4	0.5	0.5	4.0
ВНР	1000	0.2	0.3	0.4	0.4	0.5	0.6	4.1
_	5000	0.5	0.6	0.7	0.7	0.8	0.9	4.4
	10000	0.8	0.9	0.9	1.0	1.1	1.1	4.7
			Spe	ed 1150	RPM			
Vi	scosity		D	ifferent	ial Pres	sure —	PSI	
	SSU	25	50	75	100	125	150	
	33	1.5	9-1		-			
	65	1.9	1.5	_	-	-		A)
	100	2.1	1.8	1.5	-	-	-	ess
5	150	2.3	2.0	1.8	1.6	-		Pr D
GPM	650	2.6	2.5	2.4	2.3	2.2	2.2	Net Inlet Pressure Required (PSIA)
E S	1000	2.7	2.6	2.5	2.4	2.4	2.3	et l
	5000	2.9	2.8	2.8	2.7	2.7	2.7	Ž
П	10000	2.9	2.9	2.8	2.8	2.8	2.8	
	150	0.1	0.1	0.2	0.2	2.0		3.7
		0.1	0.1	0.2	0.2	0.3	0.3	3.7
4P	1000	0.1	0.1	0.2	0.2	0.3	0.3	3.8
ВНР	1000	December 1911			The second second	0.3	0.5	3.9
	5000	0.3	0.3	0.3	0.4			
	10000	0.4	0.4	0.5	0.5	0.5	0.6	4.1

lodel	3E								
			Rot	or Si	ze 9	5			
			Spe	ed 350	0 RPM				
Vis	scosity		Dif	fferenti	al Press	sure —	PSI		
	SSU	25	50	75	100	125	150		
	33	9.9	9.1	8.6	8.1	7.7	7.3	40	
	65	10.3	9.8	9.4	9.1	8.8	8.6	Net Inlet Pressure Required (PSIA)	
	100	10.6	10.2	9.9	9.6	9.4	9.1	PS	
Σ	150	10.8	10.4	10.2	10.0	9.8	9.6	ed ed	
GPM	650	11.2	11.0	10.9	10.8	10.7	10.6	Inle	
	1000	11.3	11.1	11.0	11.0	10.9	10.8	let Rec	
	5000	11.4	11.4	11.3	11.3	11.3	11.2	2	
	10000	11.5	11.4	11.4	11.4	11.4	11.3		
	150	0.4	0.6	0.8	1.0	1.1	1.3	4.8	
	650	0.8	1.0	1.2	1.4	1.5	1.7	5.0	
ВНР	1000	1.1	1.2	1.4	1.6	1.7	1.9	5.2	
B	5000	2.6	2.7	2.9	3.1	3.2	3.4	6.8	
		0.00	10000	4.2	4.4	4.5	4.7	8.8	
	10000	3.9	4.0	4.2	4.4	4.0	4.7	0.0	
			0	-1475	O DDS4				
				ed 175			DOL		
	scosity			fferenti			PSI		
	SSU	25	50	75	100	125	150		
	33	4.1	3.3	_		-		0_	
	65	4.6	4.0	3.7	3.3	3.0		sur (Ala)	
	100	4.8	4.4	4.1	3.8	3.6	3.4	res (PS	
GPM	150	5.0	4.6	4.4	4.2	4.0	3.8	Net Inlet Pressure Required (PSIA)	
GF	650	5.4	5.2	5.1	5.0	4.9	4.8	di in	
	1000	5.5	5.3	5.2	5.2	5.1	5.0	Net	
	5000	5.7	5.6	5.5	5.5	5.5	5.4	-	
	10000	5.7	5.7	5.6	5.6	5.6	5.5		
	150	0.2	0.2	0.3	0.4	0.5	0.6	4.0	
	650	0.3	0.3	0.4	0.5	0.6	0.7	4.1	
ВНР	1000	0.3	0.4	0.5	0.6	0.6	0.7	4.1	
8	5000	0.7	0.8	0.9	0.9	1.0	1.1	4.4	
	10000	1.0	1.1	1.2	1.3	1.4	1.4	4.8	
						- Anna			
E P			Sno	ed 115	O BPM	10.00			
Vi	scosity			fferent			PSI	-U ce	
* 1	SSU	25	50	75	100	125	150		
	33	2.1	30	,,,	100	123	100		
	65	2.6	2.1					- Le	
				2.1				Net Inlet Pressure Required (PSIA)	
_	100	2.8	2.4	2.1	2.2	2.0		Pre I (P	
GPM	150	3.0	2.7	2.4	2.2	2.0	-	let	
9	650	3.4	3.3	3.1	3.0	2.9	2.8	th	
	1000	3.5	3.4	3.3	3.2	3.1	3.0	Ne Re	
	5000	3.7	3.6	3.6	3.5	3.5	3.5		
BUL	10000	3.7	3.7	3.6	3.6	3.6	3.6		
	150	0.1	0.1	0.2	0.3	0.3	=	3.7	
	650	0.1	0.2	0.2	0.3	0.4	0.4	3.7	
	1000	0.2	0.2	0.3	0.3	0.4	0.4	3.8	
HP	1000				1	-	A CONTRACTOR OF THE PARTY OF TH	The second second	
ВНР	5000	0.3	0.4	0.4	0.5	0.5	0.6	3.9	

		F		r Siz		8P					
			3000	ed 3500							
	scosity			fferentia	Total Control	BIOLOGICA S	PSI				
	SSU	25	50	75	100	125	150				
	33	15.4	14.3	13.4	12.7	12.0	11.5	e_			
	65	16.2	15.4	14.8	14.2	13.8	13.4	SSUI			
	100	16.5	15.9	15.4	15.0	14.6	14.3	Net Inlet Pressure Required (PSIA)			
GPM	150	16.8	16.3	15.9	15.6	15.3	15.0	let l			
G	650	17.5	17.2	17.0	16.9	16.7	16.6	tIn			
	1000	17.6	17.4	17.2	17.1	17.0	16.9	Ne Ne			
	5000	17.9	17.8	17.7	17.7	17.6	17.6				
	10000	17.9	17.9	17.8	17.8	17.8	17.7				
	150	0.8	1.1	1.3	1.6	1.9	2.1	4.8			
а.	650	1.6	1.9	2.1	2.4	2.6	2.9	5.0			
ВНР	1000	2.0	2.3	2.5	2.8	3.1	3.3	5.2			
	5000	5.0	5.2	5.5	5.7	6.0	6.3	6.8			
	10000	7.5	7.7	8.0	8.3	8.5	8.8	8.8			
			Speed 1750 RPM								
	scosity			fferenti	al Pres	sure —	PSI				
	SSU	25	50	75	100	125	150				
	33	6.3	5.2	_	-	-	-	9_			
	65	7.1	6.3	5.7	5.2	4.7	-	Net Inlet Pressure Required (PSIA)			
	100	7.5	6.8	6.4	5.9	5.6	5.2	Pres (Ps			
GPM	150	7.8	7.3	6.8	6.5	6.2	5.9	let l			
0	650	8.4	8.2	8.0	7.8	7.7	7,6	t-In			
	1000	8.6	8.4	8.2	8.1	7.9	7.8	Ne Ne			
	5000	8.8	8.7	8.7	8.6	8.6	8.5				
	10000	8.9	8.8	8.8	8.7	8.7	8.7				
	150	0.3	0.4	0.5	0.7	0.8	0.9	4.0			
۵	650	0.5	0.6	0.7	0.9	1.0	1.1	4.1			
ВНР	1000	0.6	0.7	0.8	1.0	1.1	1.2	4.1			
	5000	1.3	1.5	1.6	1.7	1.9	2.0	4.4			
	10000	2.0	2.1	2.2	2.4	2.5	2.6	4.8			
							*				
				eed 115			1000				
٧	iscosity		D	ifferenti		1	PSI				
	SSU	25	50	75	100	125	150				
	33	3.2		_	-	-		0_			
	65	4.0	3.2	-	-	-	-	Sur			
	100	4.4	3.7	3.3		-	-	Net Inlet Pressure Required (PSIA)			
GPM	150	4.7	4.2	3.7	3.4	3.1		et F			
G	650	5.3	5.1	4.9	4.7	4.6	4.5	- In			
	1000	5.5	5.3	5.1	5.0	4.8	4.7	Net			
	5000	5.7	5.6	5.6	5.5	5.5	5.4				
	10000	5.8	5.7	5.7	5.6	5.6	5.6				
	150	0.1	0.2	0.3	0.4	0.5		3.7			
	650	0.2	0.3	0.4	0.5	0.6	0.7	3.7			
		The second second			The second second		The second second				

3.8

3.9

4.1

- For conditions between listed values, interpolate between those values. For conditions not listed or off tables, Contact IMO.
 Net Inlet Pressure Required is minimum pressure above vapor pressure at pump inlet to prevent cavitation. This assumes that the fluid is air and gas

0.3

0.6

0.9

1000 5000

10000

0.4

0.7

1.0

0.5

0.8

1.1

0.5

0.9

1.1

0.6

1.0

1.2

0.7

1.0

1.3

3. For BHP values at viscosities below 150 SSU, use values listed for 150 SSU.

Model 3E Performance Data

		-	Roto	r Siz	e 11	8					
			Spee	d 3500	RPM						
	cosity		Dif	ferentia	al Press	sure —	PSI				
5	ssu	25	50	75	100	125	150				
	33	19.9	18.8	17.9	17.2	16.6	16.0	0			
	65	20.7	19.9	19.3	18.8	18.3	17.9	sur (A)			
	100	21.1	20.4	19.9	19.5	19.1	18.8	Net Inlet Pressure Required (PSIA)			
GPM	150	21.4	20.8	20.4	20.1	19.8	19.5	et P			
9	650	22.0	21.8	21.6	21.4	21.3	21.1	III de			
	1000	22.1	21.9	21.8	21.6	21.5	21.4	Net			
	5000	22.4	22.3	22.2	22.2	22.1	22.1				
	10000	22.5	22.4	22.4	22.3	22.3	22.2				
	150	0.9	1.2	1.5	1.9	2.2	2.5	5.4			
	650	1.7	2.0	2.3	2.6	3.0	3.3	5.8			
ВНР	1000	2.1	2.4	2.7	3.1	3.4	3.7	6.0			
ш	5000	5.0	5.3	5.7	6.0	6.3	6.7	8.8			
	10000	7.5	7.9	8.2	8.5	8.8	9.2	14.7			
	Speed 1750 RPM										
Viscosity Differential Pressure — PSI											
	ssu	25	50	75	100	125	150				
	33	8.6	7.5	6.6	5.9						
	65	9.4	8.6	8.0	7.5	7.0	6.6	A)			
	100	9.8	9.1	8.6	8.2	7.8	7.5	PSI			
Σ	150	10.0	9.5	9.1	8.8	8.5	8.2	Net Inlet Pressure Required (PSIA)			
GPM	650	10.7	10.4	10.3	10.1	9.9	9.8	Inle			
	1000	10.8	10.6	10.5	10.3	10.2	10.1	let			
	5000	11.1	11.0	10.9	10.9	10.8	10.8	2-			
	10000	11.2	11.1	11.0	11.0	11.0	10.9				
	150	0.3	0.5	0.6	0.8	1.0	1.1	4.1			
	650	0.5	0.7	0.8	1.0	1.2	1.3	4.3			
ВНР	1000	0.6	0.8	0.9	1.1	1.3	1.4	4.3			
8	5000	1.4	1.5	1.7	1.9	2.0	2.2	4.9			
	10000	2.0	2.2	2.3	2.5	2.7	2.8	5.6			
			Sne	ed 115	O RPN	1	W.				
Vi	scosity		524.50	fferent	-		PSI				
	SSU	25	50	75	100	125	150				
	33	4.7		-	-						
	65	5.5	4.7	4.1	200			A)			
	100	5.9	5.2	4.7	4.3	4.0		SSSI			
5	150	6.2	5.6	5.2	4.9	4.6	4.3	Prd (F			
GPM	650	6.8	6.6	6.4	6.2	6.1	5.9	nlet			
0	1000	6.9	6.7	6.6	6.4	6.3	6.2	Net Inlet Pressure Required (PSIA)			
	5000	7.2	7.1	7.1	7.0	6.9	6.9	ZŒ			
		10000000	7.1	7.2	7.1	7.1	7.1				
	10000	7.3				0.6	0.7	3.8			
11.7		0.2	0.3	0.4	0.5	0.6	0.7	3.8			
U V	150	0.2	0.4	0.6							
Ь	650	0.3	0.4	0.5	0.6		1000000	10000000			
ВНР		0.3	0.4	0.5	0.6	0.7	0.8	3.9			

		P	otor	Size	11	2 /		\neg	
				d 3500		50			
Vis	cosity			The state of the s	and the same	sure —	PSI		
	SSU	25	50	75	100	125	150		
	33	26.9	25.5	24.5	23.6	22.9	22.2		
	65	27.8	26.8	26.1	25.5	24.9	24.4	Net Inlet Pressure Required (PSIA)	
	100	28.2	27.5	26.9	26.4	25.9	25.5	PSI	
Σ	150	28.6	27.9	27.5	27.1	26.7	26.4	t Pr	
GPM	650	29.4	29.1	28.8	28.6	28.5	28.3	Inle	
	1000	29.5	29.3	29.1	28.9	28.8	28.7	Req	
	5000	29.8	29.7	29.6	29.6	29.5	29.5	2-	
	10000	29.9	29.8	29.8	29.7	29.7	29.6		
	150	1.4	1.8	2.3	2.7	3.1	3.6	5.2	
	650	2.8	3.2	3.7	4.1	4.5	5.0	5.4	
ВНР	1000	3.5	4.0	4.4	4.8	5.3	5.7	5.7	
В	5000	8.8	9.2	9.6	10.1	10.5	11.0	7.8	
	10000	13.2	13.6	14.1	14.5	15.0	15.4	11.5	
				THE REAL PROPERTY.	The state of the s				
	+ -		Spee	d 1750	RPM				
Vis	cosity	Speed 1750 RPM Differential Pressure — PSI							
	SSU	25	50	75	100	125	150		
	33	11.8	10.5	9.4	8.6	7.8	_		
	65	12.7	11.8	11.1	10.4	9.9	9.4	A)	
	100	13.2	12.4	11.8	11.3	10.9	10.5	SSSI SSI	
<	150	13.5	12.9	12.4	12.0	11.7	11.3	Prod (F	
GPM	650	14.3	14.0	13.8	13.6	13.4	13.3	nlet	
0	1000	14.5	14.0	14.0	13.9	13.7	13.6	Net Inlet Pressure Required (PSIA)	
	5000	14.8	14.7	14.6	14.5	14.5	14.4	Z	
	10000	14.9	14.8	14.7	14.7	14.6	14.6		
	150	0.5	0.7	0.9	1.1	1.3	1.6	4.0	
	650	0.8	1.0	1.3	1.5	1.7	1.9	4.1	
무	1000	1.0	1.2	1.4	1.7	1.9	2.1	4.2	
ВНР	5000	2.3	2.6	2.8	3.0	3.2	3.4	4.6	
	10000	3.5	3.7	3.9	4.1	4.3	4.6	5.2	
	10000	0.0	0.7	0.0	1576	71.0	4.0	0.6	
			Cnor	ed 1150	DDM				
Vii	scosity		1000	fferenti	0.500	SUIFO —	PSI		
10000	SSU	25	50	75	100	125	150		
	33	6.6	5.3	7.5	100	120	,00		
	65	7.6	6.6	5.9	5.3	_		A)	
	100	8.0	7.3	6.7	6.2	5.7	5.3	SSI	
5	150	8.4	7.7	7.3	6.9	6.5	6.2	Net Inlet Pressure Required (PSIA)	
GPM	650	9.2	8.9	8.6	8.4	8.3	8.1	nlet	
0	1000	9.3	9.1	8.9	8.7	8.6	8.4	et li	
	5000	9.6	9.5	9.4	9.4	9.3	9.2	ZŒ	
	10000	9.7	9.6	9.6	9.5	9.5	9.4		
	150	0.2	0.4	0.5	0.7	0.8	1.0	3.7	
		0.2	0.4	0.5	0.7	1.0	1.1	3.8	
۵	1000	1000000	J. Commission	0.7	0.8	- 35000	1.2	3.9	
ВНР	5000	0.5	0.6	1.4	1.5	1.1	1.8	4.0	
		1.1	1.2		-	-	_		
	10000	1.6	1.7	1.9	2.0	2.1	2.3	4.2	

		1	Roto	r Siz	e 14	3				
			Spee	ed 3500	RPM	The same				
Viscosity Differential Pressure — PSI										
5	SSU	25	50	75	100	125	150			
	33	36.2	34.5	33.3	32.2	31.3	30.4	lre lre		
	65	37.3	36.1	35.2	34.5	33.8	33.2	Net Inlet Pressure		
_	100	37.9	36.9	36.2	35.6	35.0	34.5	Pre		
GPM	150	38.3	37.5	36.9	36.4	36.0	35.6	let		
0	650	39.2	38.9	38.6	38.3	38.1	37.9	et li		
	1000	39.4	39.1	38.9	38.7	38.5	38.4	ž		
	5000	39.8	39.7	39.6	39.5	39.4	39.3			
	150	1.5	2.1	2.7	3.3	3.9	4.5	6.		
д	650	2.9	3.5	4.1	4.7	5.3	5.9	6.		
ВНР	1000	3.7	4.2	4.8	5.4	6.0	6.6	7.		
	5000	8.9	9.5	10.1	10.7	11.2	11.8	13.		

			Spee	ed 1750	RPM			LVI
Viscosity Differential Pressure — PSI								
	SSU	25	50	75	100	125	150	
	33	16.1	14.5	13.2	12.1	11.2	10.3	e
	65	17.2	16.1	15.2	14.4	13.7	13.1	SIA
	100	17.8	16.8	16.1	15.5	15.0	14.5	Pressure d (PSIA)
GPM	150	18.2	17.4	16.8	16.3	15.9	15.5	Net Inlet P Required
GF	650	19.2	18.8	18.5	18.3	18.1	17.9	- Ind
	1000	19.3	19.0	18.8	18.6	18.5	18.3	Net
	5000	19.7	19.6	19.5	19.4	19.3	19.3	COR
	10000	19.8	19.7	19.7	19.6	19.6	19.5	
	150	0.5	0.8	1.1	1.4	1.7	2.0	4.3
	650	0.9	1.2	1.5	1.8	2.1	2.4	4.4
ВНР	1000	1.1	1.4	1.7	2.0	2.2	2.5	4.5
	5000	2.4	2.7	3.0	3.3	3.6	3.9	5.3
	10000	3.5	3.8	4.1	4.4	4.7	5.0	6.1

			Spe	ed 115	0 RPM					
Vis	Viscosity Differential Pressure — PSI									
	SSU	25	50	75	100	125	150			
	33	9.2	7.6		_	-	-	Φ.		
	65	10.4	9.2	8.3	7.5	6.9	_	Sur (IA)		
11 11-	100	10.9	10.0	9.2	8.6	8.1	7.6	Pressure d (PSIA)		
Σ	150	11.3	10.6	10.0	9.5	9.0	8.6	Net Inlet P Required		
GPM	650	12.3	11.9	11.6	11.4	11.2	11.0	lu d		
1113	1000	12.5	12.2	11.9	11.7	11.6	11.4	Net		
- 13	5000	12.9	12.7	12.6	12.5	12.5	12.4			
	10000	13.0	12.9	12.8	12.7	12.7	12.6			
	150	0.3	0.5	0.7	0.9	1.1	1.3	4.0		
	650	0.5	0.6	0.8	1.0	1.2	1.4	4.1		
ВНР	1000	0.5	0.7	0.9	1.1	1.3	1.5	4.1		
	5000	1.1	1.3	1.5	1.7	1.9	2.1	4.4		
	10000	1.6	1.8	2.0	2.2	2.4	2.6	4.8		

		F	Roto	r Siz	e 16	2						
		12	Spee	d 3500	RPM							
Vis	Viscosity Differential Pressure — PSI											
5	SSU 25 50 75 100 125 150											
	33	52.9	50.8	49.2	47.8	46.6	45.6	A)				
100	65	54.4	52.9	51.7	50.7	49.9	49.1	(PSIA)				
	100	55.1	53.9	52.9	52.1	51.5	50.8	0				
GPM	150	55.6	54.6	53.9	53.2	52.7	52.1	nlet				
9	650	56.8	56.4	56.0	55.7	55.4	55.2	Net Inlet F Required				
	1000	57.1	56.7	56.4	56.1	55.9	55.7	ž"				
	5000	57.6	57.4	57.3	57.1	57.1	57.0					
	150	2.2	3.1	3.9	4.8	5.6	6.4	7.0				
۵	650	4.2	5.1	5.9	6.8	7.6	8.5	7.9				
ВНР	1000	5.3	6.1	7.0	7.8	8.7	9.5	8.6				
	2000	7.7	8.5	9.4	10.2	11.1	11.9	10.9				
	5000	12.9	13.7	14.6	15.4	16.2	17.1	25.0				

			Spe	ed 1750	RPM			
Vi	scosity		D	ifferenti	al Pres	sure —	PSI	
1 1	SSU	25	50	75	100	125	150	
	33	23.9	21.8	20.2	18.8	17.6	16.6	Φ_
	65	25.4	23.9	22.7	21.8	20.9	20.1	(PSIA)
	100	26.1	24.9	23.9	23.2	22.5	21.9	Pres (PS
GPM	150	26.6	25.6	24.9	24.2	23.7	23.2	et F
g.	650	27.8	27.4	27.0	26.7	26.4	26.2	Net Inlet F Required
	1000	28.1	27.7	27.4	27.1	26.9	26.7	Net
	5000	28.6	28.4	28.3	28.2	28.1	28.0	
	10000	28.7	28.6	28.5	28.4	28.3	28.3	
	150	0.8	1.2	1.6	2.0	2.5	2.9	4.4
	650	1.3	1.7	2.1	2.6	3.0	3.4	4.6
ВНР	1000	1.6	2.0	2.4	2.8	3.2	3.7	4.7
ш.	5000	3.5	3.9	4.3	4.7	5.2	5.6	5.7
	10000	5.1	5.5	6.0	6.4	6.8	7.2	6.9

			Spec	ed 1150	RPM			1.6-1				
Vis	scosity		Differential Pressure — PSI									
1	SSU	25	50	75	100	125	150					
	33	14.0	11.9	10.3	-	-		0				
	65	15.4	13.9	12.8	11.8	11.0	10.2	sur (A)				
	100	16.1	14.9	14.0	13.2	12.5	11.9	Net Inlet Pressure Required (PSIA)				
GPM	150	16.7	15.7	14.9	14.3	13.7	13.2	et P				
GF	650	17.9	17.4	17.1	16.8	16.5	16.2	Net Inlet P Required				
	1000	18.1	17.7	17.5	17.2	17.0	16.8	Net				
	5000	18.6	18.5	18.3	18.2	18.1	18.0					
	10000	18.8	18.6	18.5	18.5	18.4	18.3					
	150	0.4	0.7	1.0	1.3	1.5	1.8	4.0				
	650	0.7	0.9	1.2	1.5	1.8	2.0	4.1				
ВНР	1000	0.8	1.0	1.3	1.6	1.9	2.2	4.2				
ш	5000	1.6	1.9	2.2	2.4	2.7	3.0	4.6				
	10000	2.3	2.6	2.9	3.2	3,4	3.7	5.2				

- For conditions between listed values, interpolate between those values. For conditions not listed or off tables, Contact IMO.
 Net Inlet Pressure Required is minimum pressure above vapor pressure at pump inlet to prevent cavitation. This assumes that the fluid is air and gas
- 3. For BHP values at viscosities below 150 SSU, use values listed for 150 SSU.

Model 3E Performance Data

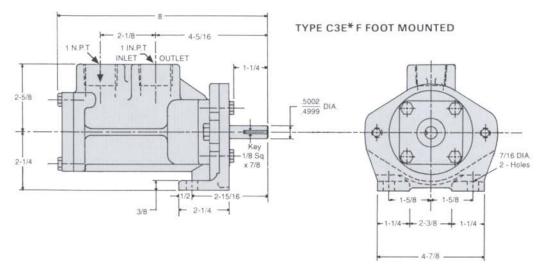
		R	otor	Size	187	7		
				3500				
Vi	scosity			fferenti		sure —	PSI	
	SSU	25	50	75	100	125	150	
	33	82.3	79.5	77.4	75.6	74.0	72.5	0_
	65	84.2	82.3	80.7	79.4	78.3	77.3	Net Inlet Pressure Required (PSIA)
	100	85.2	83.6	82.3	81.3	80.4	79.6	Pres (PS
GPM	150	85.9	84.6	83.6	82.7	82.0	81.3	et F
G	650	87.5	86.9	86.4	86.0	85.7	85.3	du in
	1000	87.8	87.3	86.9	86.6	86.3	86.1	Re
	2500	88.3	88.0	87.7	87.5	87.3	87.1	561
	150	3.4	4.7	6.0	7.3	8.6	9.9	8.5
650 6.5 7.8 9.1 10				10.4	11.7	13.0	10.5	
ВНР	1000	8.1	9.4	10.7	12.0	13.3	14.6	11.8
8	1500	10.1	8.7	12.7	14.0	15.3	16.6	14.2
	2500	13.3	14.6	15.9	17.2	18.5	19.8	21.0
		(Section 1)	- Constitution of the Cons	-				
			Speed	1750	RPM			
Vi	scosity		Di	fferenti	al Pres	sure —	PSI	
	SSU	25	50	75	100	125	150	
	33	37.8	35.0	32.8	31.0	29.4	28.0	
	65	39.7	37.7	36.2	34.9	33.8	32.7	A)
	100	40.6	39.0	37.8	36.8	35.9	35.0	PS
GPM	150	41.4	40.0	39.0	38.2	37.4	36.8	ed (
	650	43.0	42.4	41.9	41.5	41.1	40.8	dir.
	1000	43.3	42.8	42.4	42.1	41.8	41.5	Net Inlet Pressure Required (PSIA)
	5000	44.0	43.8	43.6	43.4	43.3	43.2	-
	10000	44.1	44.0	43.9	43.8	43.7	43.6	
	150	1.2	1.8	2.5	3.1	3.8	4.4	4.8
0	650	2.0	2.6	3.3	3.9	4.6	5.2	5.0
ВНР	1000	2.4	3.0	3.7	4.3	5.0	5.6	5.2
	5000	5.3	6.0	6.6	7.3	7.9	8.6	6.8
	10000	7.9	8.5	9.2	9.8	10.5	11.1	8.8
10				1150			CALLEY.	
VI	scosity SSU	0.5		fferenti			PSI	
	1	25	50	75	100	125	150	
	33	22.5	19.7	17.6	15.8	-		9-
	65	24.5	22.5	20.9	19.6	18.5	17.5	Pressur (PSIA)
_	100	25.4	23.8	22.5	21.5	20.6	19.8	Pre (P.
GPM	150	26.1	24.8	23.8	22.9	22.2	21.5	let
0	650	27.7	27.1	26.6	26.2	25.9	25.5	Net Inlet Pressure Required (PSIA)
	1000	28.0	27.5	27.1	26.8	26.5	26.3	Ne Ne
	5000	28.7	28.5	28.3	28.2	28.0	27.9	
	10000	28.9	28.7	28.6	28.5	28.4	28.3	
	150	0.7	1.1	1.5	1.9	2.4	2.8	4.1
d-	650	1.0	1.4	1.9	2.3	2.7	3.1	4.3
ВНР	1000	1.2	1.6	2.0	2.5	2.9	3.3	4.3
	5000	2.5	2.9	3.3	3.8	4.2	4.6	4.9
	10000	3.6	4.0	4.4	4.9	5.3	5.7	5.6

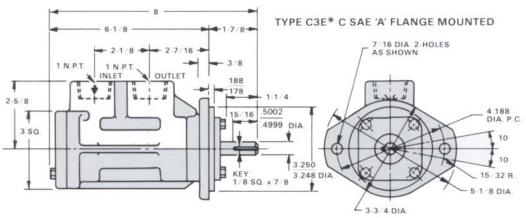
		F	Roto	r Size	e 20	0		
			Speed	3500	RPM	-174 =		
Vi	scosity		Di	fferenti	al Press	sure —	PSI	
11.2	SSU	25	50	75	100	125	150	
	33	100.4	97.2	94.8	92.7	90.9	89.3	9_
	65	102.6	100.3	98.6	97.1	95.8	94.7	Net Inlet Pressure Required (PSIA)
_	100	103.7	101.8	100.4	99.3	98.2	97.3	Pre:
GPM	150	104.5	103.0	101.8	100.9	100.0	99.3	let
0	650	106.3	105.6	105.1	104.6	104.2	103.8	t-In
	1000	106.7	106.1	105.7	105.3	105.0	104.7	Ne Ne
	1500	106.9	106.5	106.1	105.8	105.5	105.3	
	150	4.1	5.7	7.3	8.9	10.4	12.0	9.7
۵	650	7.9	9.5	11.1	12.6	14.2	15.8	12.1
ВНР	1000	9.9	11.4	13.0	14.6	16.2	17.7	14.0
	1500	12.2	13.8	15.4	17.0	18.5	20.1	18.0
								production in the same
		7 50 -	Speed	1750	DDM	-		
Vi	scosity			fferenti		curo —	PSI	
	SSU	25	50	75	100	125	150	
	33	46.4	43.2	40.7	38.7	36.9	35.2	
	65	48.6	46.3	44.6	43.1	41.8	40.6	a Fe
	100	49.6	47.8	46.4	45.2	44.2	43.2	Net Inlet Pressure Required (PSIA)
-	150	50.4	48.9	47.8	46.8	46.0	45.2	P P
GPM	650	52.3				10000000	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Own	lire
0			51.6	51.0	50.6	50.2	49.8	equ.
	1000	52.6	52.1	51.6	51.2	50.9	50.6	ž«
	10000	53.4	53.2	53.0	52.8	52.6	52.5	
-		53.6	53.4		53.2	53.1	53.0	4.0
	150	2.4	2.2	3.0	3.8	4.6	5.4	4.9
4	650		3.2	4.0	4.8	5.6	6.3	5.2
ВНР	1000	2.9	3.7	4.5	5.3	6.0	6.8	5.3
	5000	6.5	7.3	8.1	8.9	9.6	10.4	7.1
_	10000	9.5	10.3	11.1	11.9	12.7	13.5	9.6
			Speed	1150	RPM			
	scosity		Di	fferenti	al Press	sure —	PSI	91
	SSU	25	50	75	100	125	150	
	33	27.8	24.6	22.2	20.2	18.3	_	
	65	30.0	27.8	26.0	24.6	23.3	22.1	Sure IA)
	100	31.1	29.3	27.9	26.7	25.6	24.7	res (PS
GPM	150	31.9	30.4	29.3	28.3	27.5	26.7	Net Inlet Pressur Required (PSIA
O	650	33.8	33.1	32.5	32.1	31.6	31.3	필
	1000	34.1	33.5	33.1	32.7	32.4	32.1	Net Inlet Pressure Required (PSIA)
	5000	34.9	34.6	34.4	34.3	34.1	34.0	7
	10000	35.1	34.9	34.7	34.6	34.5	34.4	III.
	150	0.8	1.3	1.8	2.4	2.9	3.4	4.2
0	650	1.2	1.7	2.3	2.8	3.3	3.8	4.4
ВНР	1000	1.4	2.0	2.5	3.0	3.5	4.0	4.5
	5000	3.0	3.5	4.0	4.6	5.1	5.6	5.2
	10000	4.3	4.9	5.4	5.9	6.4	6.9	5.9

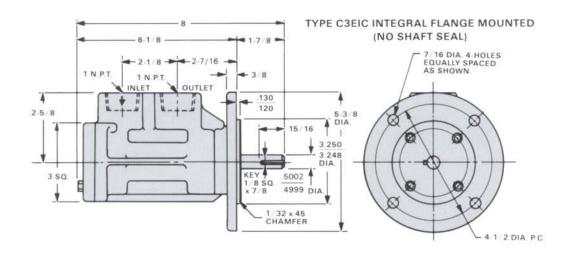
- 1 For conditions between listed values, interpolate between those values. For conditions not listed or off tables, Contact IMO
- 2 Net Inlet Pressure Required is minimum pressure above vapor pressure at pump inlet to prevent cavitation. This assumes that the fluid is air and gas free.

³ For BHP values at viscosities below 150 SSU, use values listed for 150 SSU.

Model 3E Dimensions Rotor Sizes 87P, 87 & 95



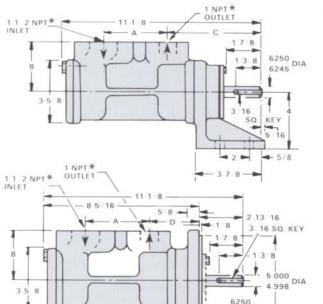




All dimensions to the nearest 1/16 inch - not to scale. Weight - 9 lbs.

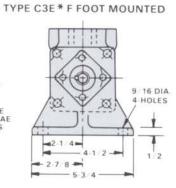
OFFICE	CE ROTATION CASE MATERIAL DIRON STEEL		CERTIFIED BY	DATE
CUSTOMER			CUSTOMER ORDER	
MODEL NO			IMO ORDER	

Model 3E Dimensions Rotor Sizes 118P & 118

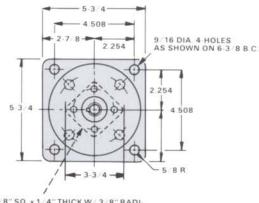


358

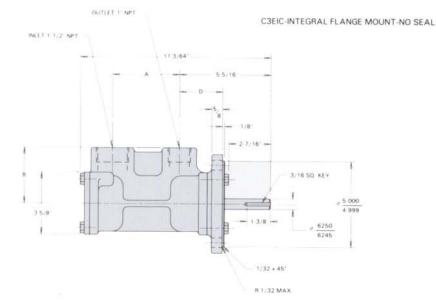
- *IRON CASED PUMPS HAVE NPT PORTS AS SHOWN.
- *STEEL CASED PUMPS HAVE SAE FLANGE PADS FOR USE WITH SAE 4 BOLT SOCKET WELD FLANGES (PROVIDED WITH PUMP) SEE PAGE 12 FOR DIMENSIONS



TYPES C3E* "C" FLANGE MOUNTED



2-7/8" SQ x 1.4"THICK W/3/8" RADI-US CORNERS, FOR MECHANICAL SEAL MODEL (3E °C) ONLY NOT PRESENT ON INTEGRAL FLANGE MOUNT (3EIC) MODELS.



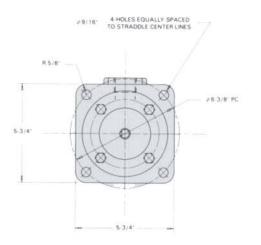
030 R MAX -

CASE MATERIAL	А	В	С	D
IRON	3-7/8	3-1/4	5-3/8	2-1/2
STEEL	3-1/2	2-3/4	5-1/4	2-3/8

6250 DIA

1 32 x 45 CHAMFER

6245



All dimensions to the nearest 1/16 inch - not to scale. Weight - 27 lbs.

OFFICE	ROTATION CW CCW(D)	CASE MATERIAL IRON STEEL	CERTIFIED BY	DATE
CUSTOMER			CUSTOMER ORDER	
MODEL NO			IMO ORDER	

Model 3E Dimensions

IRON

STEEL

5-5/8

5-1/4

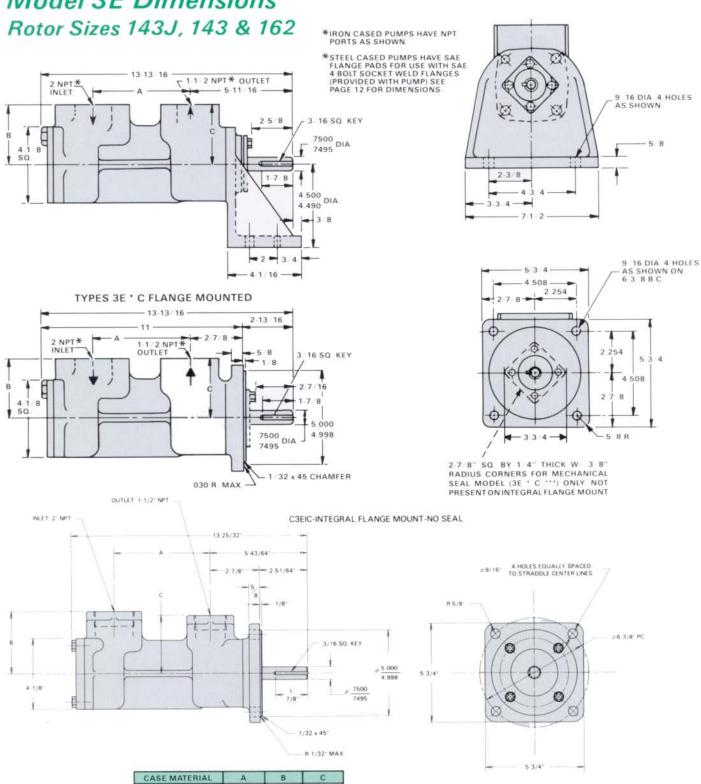
3-5/8

3-1/4

3-3/8

3-1/4

TYPE 3E * F FOOT MOUNTED

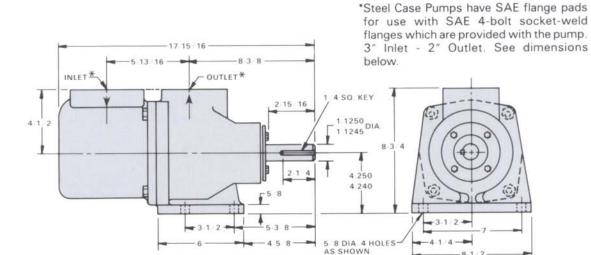


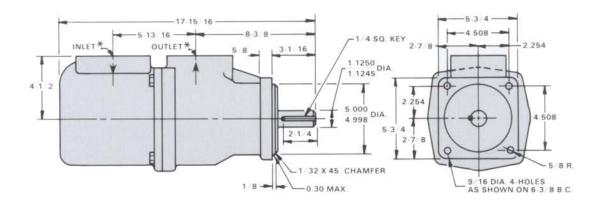
All dimensions to the nearest 1/16 inch - not to scale. Weight - 38 lbs.

OFFICE	ROTATION CW CCW(D)	CASE MATERIAL ☐ IRON ☐ STEEL	CERTIFIED BY	DATE
CUSTOMER			CUSTOMER ORDER	
MODEL NO			IMO ORDER	

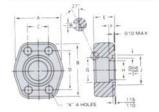
Model 3E Dimensions Rotor Sizes 187 & 200







SAE 4-bolt socket-weld flanges (for steel case pumps 118 thru 200 sizes)



Part Number	Pipe Size	Pad Size	A	В	С	D	E	F	G Dia.	H Dia.	J Dia.	K Dia.
W4-16-16	1.00	1.00	2.31	2.75	1.031	2.062	.88	.25	1.328	1.00	1.560	.406
W4-24-24	1.50	1.50	3.25	3.69	1.406	2.750	1.19	.44	1.922	1.50	2.120	.531
W4-32-32	2.00	2.00	3.81	4.00	1.688	3.062	1.38	.50	2.406	2.00	2.495	.531
W4-48-48	3.00	3.00	5.16	5.31	2.438	4.188	2.12	.88	3.547	3.00	3.620	.656

All dimensions to the nearest 1/16 inch - not to scale. Weight - 92 lbs.

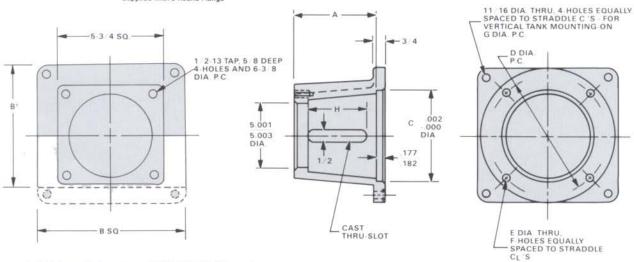
OFFICE	FICE ROTATION CASE MATERIAL IRON IN STEEL		CERTIFIED BY	DATE
CUSTOMER			CUSTOMER ORDER	
MODEL NO			IMO ORDER	

-3.7 8-Series 3E PUMP TO 'C' FACE MOTOR BRACKETS BRACKET NO. S5333DH (MAXIMUM COUPLING O.D. = 3") WEIGHT 12 TANK OPENING LBS. MATES WITH MOTOR FRAMES 56C, 143TC, 145TC. DETAIL FOR USE WITH PUMP 3E-87P, 87, 95 WITH SAE BOLT FLANGE MOUNTING # INSET 4.505 4.495 3 8 16 TAP, 3 4 DEEP 5-7 8 DIA P.C. HOLES ON 0 0 3.2505 4.501 3 2514 DIA 4.503 DIA 16 0 0 CAST THRU-SLOT 13 32 DRILL THRU 4 HOLES AS SHOWN 1 8 DIA

FOR USE WITH PUMP 3E-118P, 118, 143J, 143, 162, 187, 200 WITH SAE 4 BOLT FLANGE MOUNTING

	PUMP ROTOR SIZES	BRACKET	WHERE	EUSED	A		-								ibs.
MOTOR FRAMES			HORIZONTAL	TANK TOP			87	С	D	E	F	α	н	Ja	
56C-145C 118 to 200 553	553330L		×	6-3/16	9	-	4.501	5-7/8	7/16	4	11-1/4	3-1/2	8-1/4	23	
The state of the s	118 to 200	55333DLX1	X		6-3/16	9	7-15/16	4.501	5-7/8	7/16	4	-	3-1/2	-	22
182TC-184TC	118 to 162	\$5333DP	×	-	0	8-7/8**	_	8.501	7-1/4	9/16	4	-	3-7/8	_	19
182TC-256TC	118 to 200	S5333DJ		×	7-7/16	9	-	8.501	7-1/4	9/16	4	11-1/4	4	8-3/8	22
213TC-256TC	187 to 200		×		7-7/18	9	-	8.501	7-1/4	9/16	4	11-1/4	4	_	22
84TSC-365TSC	118 to 200	55333DK	×	X	7-5/16	14	-	12.501	11	11/16	8	16	4	13	37

^{*284}TSC and 286TSC motors must have large (12-1/2') 'AK' diam **Supplied with a Round Flange



All brackets except S5333DLX1 and S5333DP, are suitable for vertical tank mount arrangement. Hole diameter in tank cover to mount bracket should be "J".

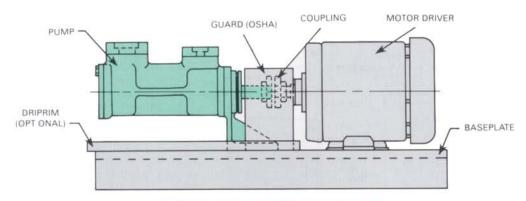
MATERIAL: ASTM A48, CL.40B CAST IRON, DIMENSIONS IN INCHES NOT TO SCALE.

MAXIMUM COUPLING O.D. 4-3/4". SELECT FLEXIBLE COUPLING TO ACCOMMODATE: MAXIMUM COUPLING O.D., MOTOR TORQUE, SHAFT TO SHAFT GAP AND PUMP AND MOTOR SHAFT DIAMETERS.

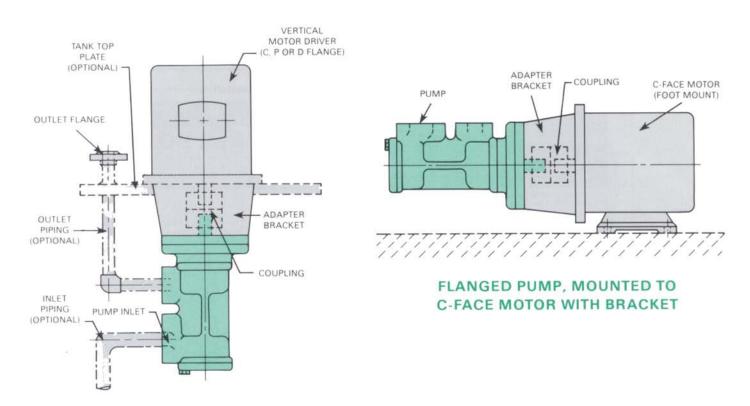
[#] This bracket is suitable for vertical tank mount arrangement.

Drill 4 corner holes 7/16 dia. similar to brackets below. See inset of tank cover hole size.

Typical 3E Pump/Motor Arrangements



HORIZONTAL FOOT MOUNTED

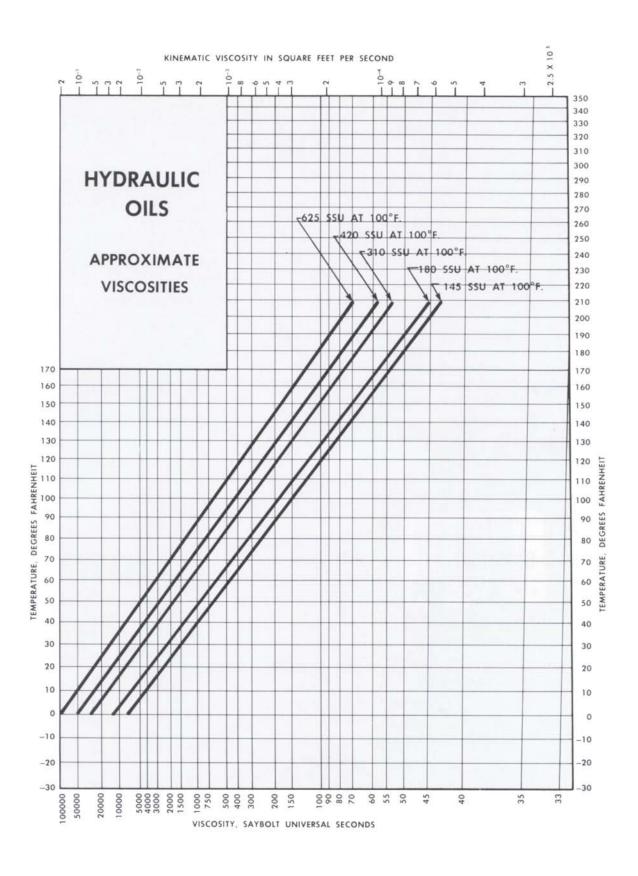


VERTICALLY IN-TANK MOUNTED WITH OPTIONAL DISCHARGE PIPING AND TANKPLATE

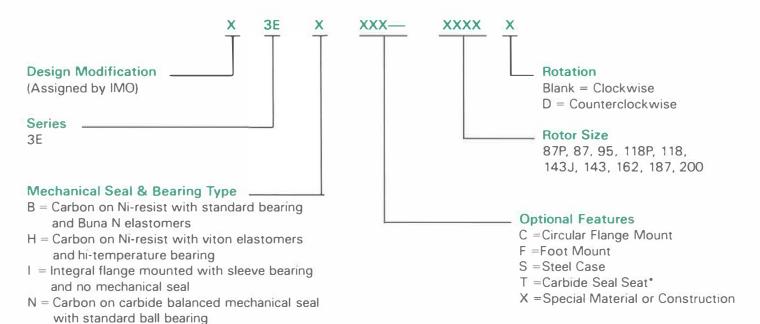
NOTES:

- 1. Pump/motor assemblies with OSHA type coupling guard and shaft coupling, factory mounted on a steel baseplate (with or without driprim) are available upon request.
- 2. Factory mounted pump/motor assemblies, complete with bracket, shaft coupling plus optional mounting plate, inlet (suction) and outlet (discharge) piping are available upon request.
- 3. For arrangements or variations not shown, consult IMO.

Effect of Temperature on Hydraulic Oil Viscosity



Typical 3E Nomenclature



Examples:

C3EBC-187 C3EHFS-143 Model 3E with standard seal and bearing, flange mounted, cast iron casing with 187 rotor size. Model 3E with positive drive mechanical seal (standard faces), high temperature bearing, foot mounted, steel casing with 143 rotor size.



Quality Management System











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^{*}Consult IMO for optional mechanical seal materials.