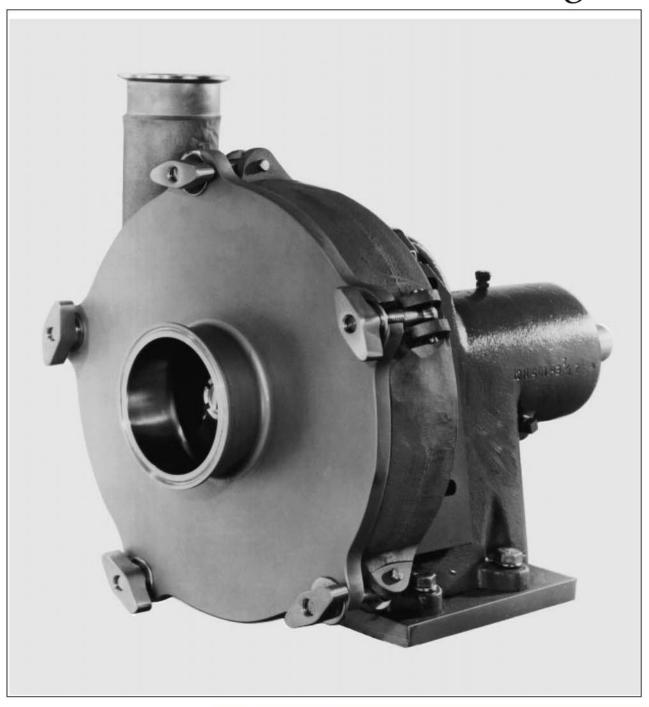
ZMT 3EH and 4EH EH Series Centrifugal





Pumps you can depend on to meet your special pumping requirements.

These high capacity, low shear pumps are available in three models with five different seals, and your choice of Tri-Clamp®, Bevel Seat or Flanged Connections.

The ZMT EH Series base-mounted centrifugal pumps have been designed and built to give years of trouble-free, dependable service. All wetted parts are cast type 316L SS which provides maximum corrosion resistance. EH casing and front cover are furnished with polished ID finish providing a sanitary environment, and glass beaded OD as standard. In addition, the casing cover is held on by heavy duty bolts. This enables the pump to withstand stresses from misalignment or shock pressures in your system.

Our one-piece "bow-tie" impeller design is ideal for delicate products including latex, whole vegetables, protein slurries and enzymes. The impeller gently scoops your product through the pump instead of beating it. This means less foaming and no compromises with product integrity.

The impeller is securely attached to the threaded shaft by means of a lock nut / cotter pin retainer design. However, when necessary, the impeller can be easily removed without the use of special tools, making any cleaning almost effortless.

Seal Selection

Your choice of five different seal types to meet your application.

Seal #D - Carbon Rotary

The Type D seal utilizes the hydraulic pressure developed by the pump to achieve the sealing action. This process or product pressure is evenly exerted against an "O" ring contained in a groove in the seal ring. The pressure forces the "O" ring against the face of the collar, providing a static seal, eliminating product leakage along the shaft.

Typical applications include: dairy products, cream style corn, tomatoes, beverages, etc. Also applicable for acid cleaning solutions and detergents.

Seal #E - Water Cooled Rotary

The Type E seal is fully contained within a stuffing box. Its double end design permits the sealant to be controlled to the drain. This seal uses the same hydraulic balance as the Type D seal described above.

Ideal for slurries, heavy duty vacuum applications (to 28" Hg), tacky products or products at temperatures up to and exceeding 212°F.



Seal #A - Packing Gland

This is a compressed type seal, utilizing a stuffing box, split gland and rings of square cross-section packing. Sealing is accomplished by axially compressing the packing rings in the stuffing box through use of the split gland. Compression is achieved by tightening the two hex nuts that hold the gland to the stuffing box. When tightened, the nuts force the gland into the stuffing box, and compress the packing. As the packing is compressed, the packing rings flow outward to seal against the bore of the stuffing box, and inward to seal against the pump shaft.

This seal is recommended for chemical processing applications of nonabrasive and nonabrasive / non-congealing products.

Seal #C - Packing Gland With Water

The Type C seal is similar to the Type A in many ways. The basic difference is that a lantern ring and flush passage are incorporated into the packing and stuffing box allowing the contact area between the pump shaft and packing rings to be flushed.

It can be applied in vacuum installations over 20" Hg and in systems pumping hot liquids over 212°F, or tacky products.

Seal #B - Latex

The Type B seal is similar to the Type C except the lantern ring is located further from the pump casing. In other words, the Type B has a greater number of packing rings between the lantern ring and the casing than does the Type C.

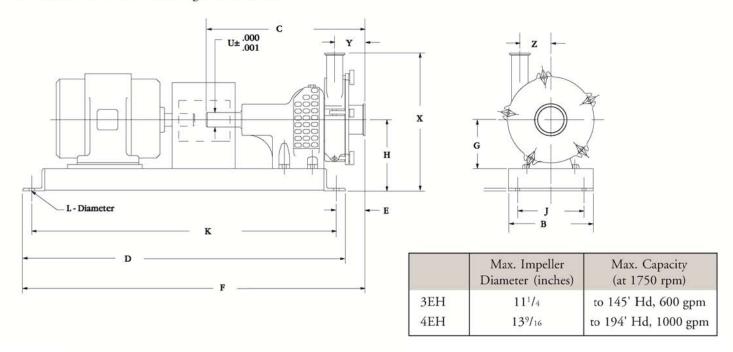
This seal is ideal for latex and similar products where a reduction of flush fluid leakage into the product being pumped is important to minimize product dilution.



Dimensions

Dimensions are approximate and for guidance only. On applications where exact dimensions are required, request a certified print from ZMt, Inc. Keyslot Information: Model 3EH - "B" Woodruff Key 5/16" wide. Model 4EH - "C" Woodruff Key 3/8" wide.

- Tri-Clamp® Connections
 Threaded Bevel Seat Connections
- A.S.A. 150# Raised Face Flanged Connections.



		3E	EH		4EH				
	254T 256T	213T 215T	254T 256T	284T 286T	324T	254T 256T	284T 286T	324T 326T	364T
E•	27/8	35/32	317/32	317/32	311/32	43/8	$4^{3}/_{8}$	$4^{3}/_{8}$	43/8
E.	27/8	35/32	$3^{17}/_{32}$	$3^{17}/_{32}$	311/32	45/16	45/16	45/16	45/16
E.	313/16	$4^{3}/_{32}$	$4^{15}/_{32}$	$4^{15}/_{32}$	49/32	$4^{1}/_{4}$	41/4	41/4	$4^{1}/_{4}$
Fo	435/8	$41^{29}/_{32}$	469/32	469/32	529/32	505/16	545/16	545/16	645/16
Fo	435/8	$41^{29}/_{32}$	469/32	469/32	529/32	501/4	541/4	541/4	641/4
Fo	449/16	$42^{27}/_{32}$	477/32	477/32	537/32	$50^{3}/_{16}$	543/16	543/16	643/16
Н	91/4	$9^{1}/8$	$10^{1}/_{4}$	10	12	14	14	14	13
J	121/2	$11^{1/2}$	14	13	15	14	18	18	20
K	391/2	371/2	411/2	$41^{1/2}$	477/8	447/8	$48^{7}/_{8}$	$48^{7}/8$	587/8
L	3/4	3/4	11/16	3/4	7/8	7/8	7/8	7/8	7/8
В	151/4	$15^{1}/_{4}$	$16^{3}/_{4}$	$16^{1/4}$	173/4	$16^{3}/_{4}$	$20^{3}/_{4}$	$20^{3}/_{4}$	$23^{3}/_{4}$
D	42	40	44	44	50	47	51	51	61
G	61/4	61/8	61/4	7	8	9	9	9	9

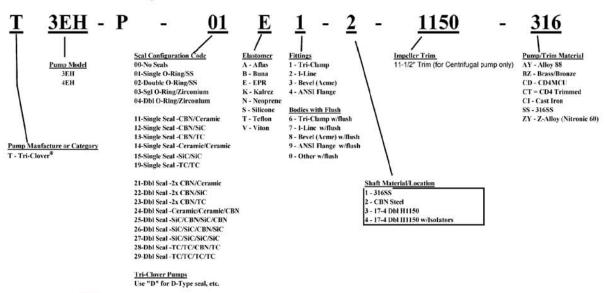
	Inlet	Outlet	Co	C ₆	Co	γ•	Υ Θ	Υø	Χo	Χø	Χø	Z	U
3EH	4	3	2011/32	2011/32	217/32	$3^{27}/_{32}$	$3^{27}/_{32}$	$4^{23}/_{32}$	91/4	91/4	$10^{3}/_{16}$	$4^{17}/_{32}$	$1^{3}/8$
4EH	6	4	2511/32	259/32	$25^{7}/_{32}$	$4^{29}/_{32}$	$4^{27}/_{32}$	$4^{25}/_{32}$	$10^{7}/8$	$10^{13}/_{32}$	$10^{3}/_{4}$	51/4	$1^{11}/_{16}$

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Ordering Information

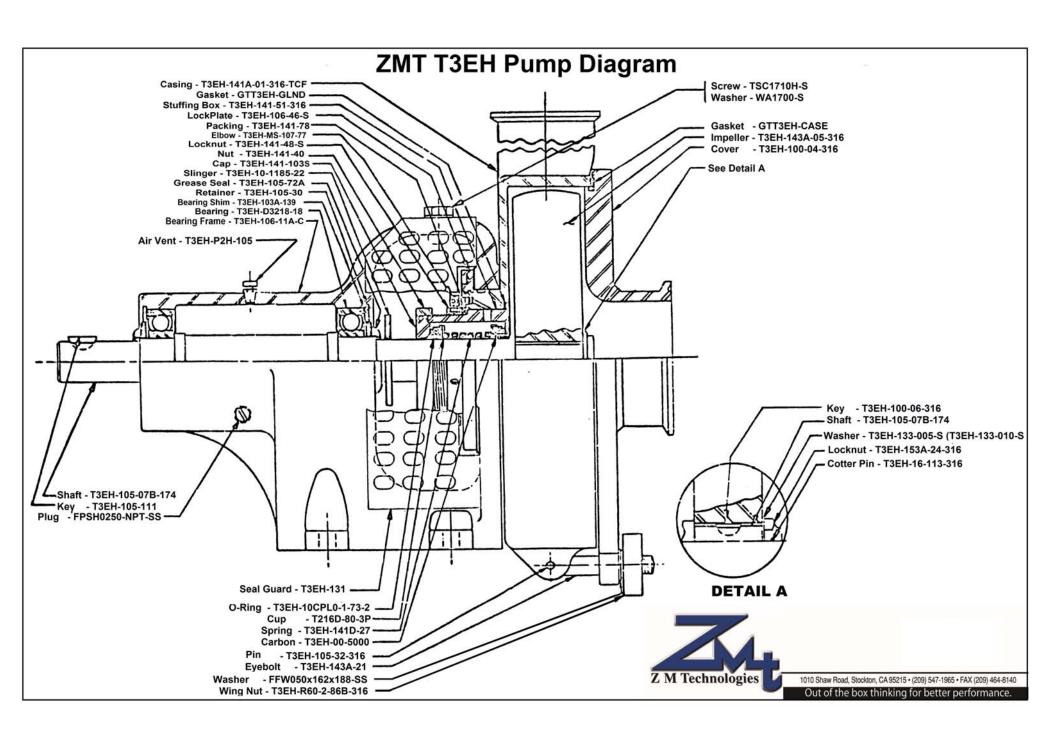
A sample part number for a ZMT EH Centrifugal Pump is shown below. The model descirbes the pump only. The base, motor, coupling and coupling guard, etc. must be specified separately.

New Pumps - PART NUMBER SYSTEM





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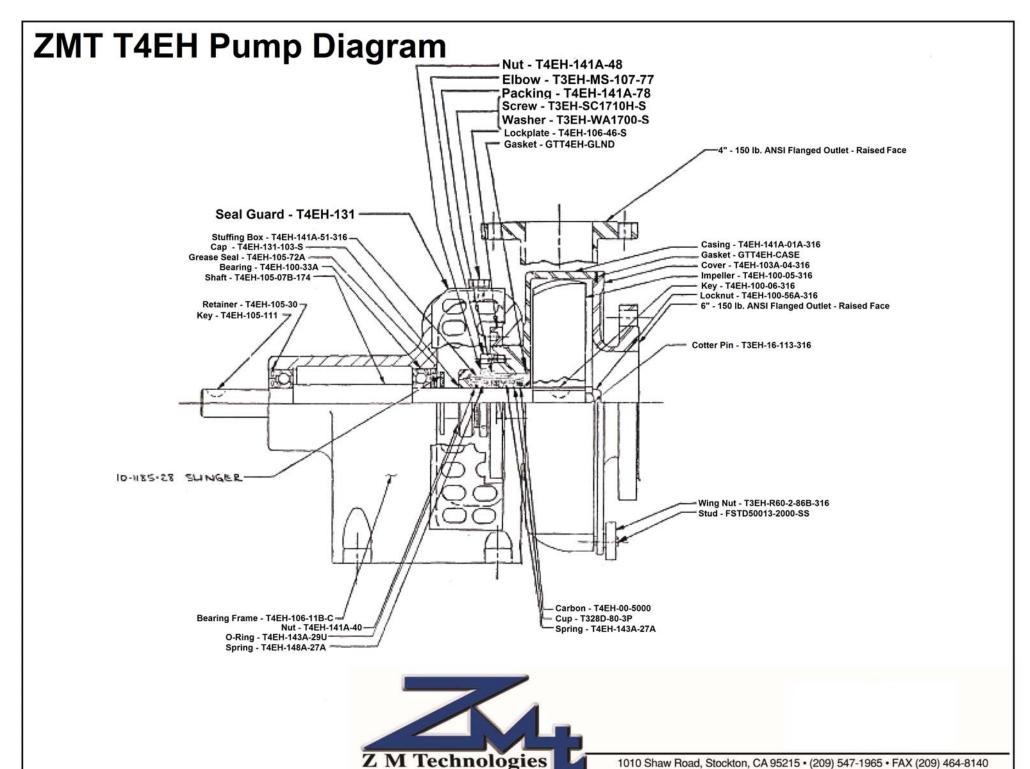




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Pump Parts List - Tri-Clover® 3EH-Series Centrifugal Pump						
DESCRIPTION	Material	Reference Part No.	ZMT PART NUMBER			
Complete 3EH Pump w/Flanges	C.I./316SS		T3EH-P-21E1-1-1125SS			
Complete 3EH Pump w/Tri-Clamp	C.I./316SS		T3EH-P-21E4-1-1125SS			
Impeller	316SS	3EH-100-05-316	T3EH-100-05-316			
Casing	316SS	3EHM-141A-01-316	T3EH-141A-01-316			
Shaft	17-4 PH	2-1/2EH-105-07B-316	T3EH-105-07B-316			
Stuffing Box	316SS	2-1/2EH-141-51-316	T3EH-141-51-316			
Bearing Seal Complete	Buna/316SS	2-1/2EH-105-72A	T3EH-105-72A			
Bearing Oil Seal Only	Buna		T3EH-105-72OS			
Locknut-Impeller	316SS	2-1/2EH-153A-24-316	T3EH-153A-24-316			
Locknut-Stuffing Box	316SS	2-1/2EH-141-48-S	T3EH-141-48-S			
Cap Seal	316SS	2-1/2EH-141-103-S	T3EH-141-103-S			
Locknut-Casing	316SS	2-1/2EH-106-46-S	T3EH-106-46-S			
Retainer	316SS	2-1/2EH-106-30	T3EH-106-30			
Case Gasket	EPDM	3EH-100-20	T3EH-100-20			
Stuffing Box Gasket	C.N.A.	2-1/2EH-141-79	T3EH-141-79			
Packing – EPR	EPDM	2-1/2EH-141-78	T3EH-141-78			
Bearing Shim005	316SS	2-1/2EH-143A-139-005	T3EH-143A-139-005			
Bearing Shim010	316SS	2-1/2EH-143A-139-010	T3EH-143A-139-010			
Impeller Shim005	316SS	SP328-133-005	T3EH-133-005-S			
Impeller Shim010	316SS	SP328-133-010	T3EH-133-010-S			
Pin	304SS	2EJ105-52-S	T3EH-2EJ105-52-S			
Eye Bolt	304SS	2-1/2EH-143-A21-S	T3EH-143-A21-S			
Nut-Casing	316SS	R60-2-86B-S	T3EH-R60-2-86B-S			
Key - Impeller	304SS	2BEH-100-06-316	T3EH-100-06-316			

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Part

Pump Parts List - Tri-Clover [®] 4EH-Series Centrifugal Pump							
DESCRIPTION	Material	Reference Part No.	ZMT PART NUMBER				
Complete 4EH Pump w/Flanges	C.I./316SS		T4EH-P-21E1-1-1356SS				
Complete 4EH Pump w/Tri-Clamp	C.I./316SS		T4EH-P-21E4-1-1356SS				
Impeller	316SS	4EH-100-05A-316	T4EH-100-05A-316				
Casing	316SS	4EH-141A-01-316SS	T4EH-141A-01-316				
Shaft	17-4 PH	4EH-105-07B-316L	T4EH-105-07B-316L				
Stuffing Box	316SS	4EH-141-51A-316L	T4EH-141A-51-316				
Bearing Seal Complete	Buna/316SS	4EH-105-72A	T4EH-105-72A				
Bearing Oil Seal Only	Buna		T4EH-105-72OS				
Locknut-Impeller	316SS	4EH-100-56A-316	T4EH-100-56A-316				
Locknut-Stuffing Box	316SS	4EH-141-48-S	T4EH-141-48-S				
Cap Seal	316SS	4EH-141-103-S	T4EH-141-103-S				
Locknut-Casing	316SS	4EH-106-46-S	T4EH-106-46-S				
Retainer	316SS	4EH-105-30	T4EH-105-30				
Case Gasket	EPDM	4EH-100-20	T4EH-100-20				
Stuffing Box Gasket	C.N.A.	4EH-106-79	T4EH-106-79				
Packing – EPR	EPDM	4EH-141-78	T4EH-141-78				
Bearing Shim005	316SS	4EH-143A-139-005	T4EH-143A-139-005				
Bearing Shim010	316SS	4EH-143A-139-010	T4EH-143A-139-010				
Impeller Shim005	316SS	4EH-133-005	T4EH-133-005-S				
Impeller Shim010	316SS	4EH-133-010	T4EH-133-010-S				

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