

## Vane Motors



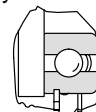
## High Torque, Low Speed Vane Motors

MHT SERIES 110/130/150

Model	Shaft	Key (*2 req'd)	Bearing (*2 req'd)	Ring	Adapter (*2 req'd)
MHT-110-N1-30	—	—	—	—	—
MHT-110-R1-30	345769	334231	(*) 373927	401263	
MHT-130-N1-30	—	—	—	—	
MHT-130-R1-30	345769	—	(*) 373927	375221	
MHT-150-N1-30	—	—	—	356176	374542
MHT-150-N1-30-S1	—	—	334582		
MHT-150-R1-30	356165	334231	(*) 373927		
MHT-150-R1-30-S3	354379	(*) 334231	(*) 373927		
MHT-150-N1-30-S8	—	—	—	—	—

## ■ NOTE

Install sleeves below face of body .002/.006 inch.



**Bearing Assembly  
for -S1 Model**

423211 Body - Shaft End

401974 Body - Shaft End  
(MHT-150-N1-30-S8 Only)

▲ 271814 Back-up Ring  
(4 req'd)

Install as shown toward  
outer side of body.

▲ 154100 "O" Ring (4 req'd)  
Grease pack at assembly.

Adapter (See table)

Key (See table)

▲ 331867 Square  
Cut Seal (2 req'd)

227402 Screw  
(4 req'd)

Nameplate

381362 Vane  
(18 req'd)

381363 Spring  
(72 req'd)

381364 Guide  
(72 req'd)

373434 Snap Ring  
(2 req'd)  
(Omit for  
"N" Models)

192347 Plug  
(Omit for  
"N" models.)

19100 Pin

423211 Body  
Head End

359944 Sleeve  
(2 req'd)

▲ 423205 Quad Seal  
Retainer (2 req'd)

382107 Rotor

▲ 154009 "O" Ring  
(2 req'd)

▲ 154128 "O" Ring

181728 Drain Plug



## CAUTION

Shaft (see table). Shaft  
must have slip fit into ro-  
tor spline with minimum  
backlash. Do not force at assembly.

Bearing (2 req'd) (see table). Pack  
bearings and shaft spline cavity  
with fibrous type wheel bearing  
grease. Assemble bearing with  
shields toward the outside.

42023 Screw (12 req'd)  
(Torque to 125± 5 lb. ft.)

▲ 429292 Quad Seal (2 req'd)  
Pack with grease at assembly.

Std/F3 Seal Kit  
Cross Reference

▲ Std  
919530

F3  
919872



## CAUTION

When assembling cartridge,  
insert vanes in rotor slots at  
the minor diameter of cam  
ring. Rotate cartridge one complete  
revolution prior to assembly with bodies.  
This prevents misalignment of springs  
and guides.

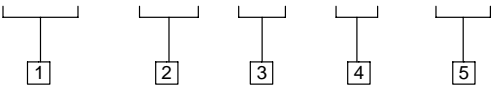


## CAUTION

Assemble both rings and  
spacer with case drain  
located as shown. Not  
rotated with hole at top.

Model Code

MHT - 1\*0 - \*1 - 30 - (S\*)



1 Model Series

High torque, low speed vane motor

3 Shaft

- N1 - No shaft
- R1 - Solid shaft with square key

4 Design

5 Special Shaft

2 Theoretical Torque in Lb. Ft. per 100 PSI Differential Pressure

110/130/150

For satisfactory service life of these components, use full flow filtration to provide fluid which meets ISO cleanliness code 18/15 or cleaner. Selections from pressure, return, and in-line filter series are recommended.