

# 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	—
MHT-150-N1-30-S1	—	—	334582		
MHT-150-R1-30	356165	334231	(* 373927)	—	374542
MHT-150-R1-30-S3	354379	(* 334231)	(* 373927)	—	(* 374542)
MHT-150-N1-30-S8	—	—	—	—	—

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

**Bearing Assembly for -S1 Model**

- ▲ 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

- 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)

**CAUTION**  
Shaft (see table). Shaft must have slip fit into rotor 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

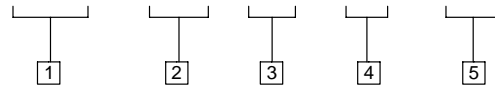
**CAUTION**  
When assembling cartridge, insert vanes in rotor slots at the minor diameter of cam ring. Rotate cartridge one complete revolution prior to assembly with bodies. This prevents misalignment of springs and guides.

**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.