

Vane Motors



Multi-Torque Vane Motors

MHT 380 and 440 Series

| Model | Shaft | Snap Ring | Key | Bearing | Plug | Ring |
|-------------------|--------|-----------|--------|---------|------|--------|
| MHT-380-*1-30-S20 | 377512 | 354386 | 332265 | 310539 | 7074 | 364468 |
| MHT-440-*1-30-S20 | | | | | | 375223 |

227402 Screw (4 req'd)

Nameplate

425464 Body (2 req'd)

425464 Body (Inlet)

▲ 154108 O-Ring (4 req'd) grease pack at ass'y.

418966 Retainer (4 req'd)

396438 Spring (144 req'd)

171255 Grease Fitting

424384 Vane (36 req'd)

382716 Spring Guide (144 req'd)

399326 Rotor (2 req'd)

425464 Body (Outlet)

▲ 429293 Quad Seal (4 req'd) grease pack at ass'y.

■ Shaft (See table)

CAUTION
Shaft must have Slip Fit into Rotor Spline with minimum backlash. Do not force at assembly.

■ Key (See table)

■ Bearing (See table)(2 req'd)
Pack Bearings and Shaft Spline Cavity with fibrous type wheel bearing grease. Assemble Bearings with shield on outside.

▲ 271822 Back-Up Ring (4 req'd) grease pack at ass'y. Install as shown toward outer sides of bodies.

■ Omit for N1 models

STD/F3 Seal Kit cross reference

| | |
|--------------|-----------|
| ▲ STD 919885 | F3 919886 |
|--------------|-----------|

181792 Plug

▲ 154130 O-Ring

▲ 154011 O-Ring (4 req'd)

▲ 154128 O-Ring

181728 Drain Plug

281623 Square Cut Seal (4 req'd)

332267 Screw (12 req'd) Torque to 180 ±5 lb. ft. oiled

Drain

Sleeves must be 0.002 below face 0.006 of body.

419356 Pin (2 req'd)

■ Snap Ring (2 req'd) (See table)

■ Plug (See table)

347255 Sleeve (2 req'd)

Ring (See table)(2 req'd)

426397 Spacer

CAUTION
Assemble both rings and spacer with Case Drain located as shown (not rotated with hole at top).

WARNING
Wear safety glasses to prevent eye injury.

CAUTION
When assembling cartridge, insert vanes in rotor slots at the minor diameter of cam ring. Rotate cartridge one complete revolution by hand prior to assembly with bodies to prevent misalignment of springs and guides. Make sure the marked tooth of each cartridge is in line before installation of shaft.

Model Code

(F3) - MHT - *** - * 1 - 30 - S20

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1 2 3 4 5 6 7

1 Seal Material

F3- Special seals for synthetic fire resistant fluids (omit for petroleum, oil, and water glycol fluids)

2 Model Series

MHT - High torque, low speed, vane motor

3 Theoretical Torque

Combinations of theoretical output torque - lbs. ft. per 100 p.s.i.

380
440

4 Shaft

N - No shaft
R - Solid shaft

5 Keyed Shaft

When provided

6 Design

7 Special Feature