

Vane Motors



High Torque, Low Speed Vane Motors

MHT SERIES 500-*1-30-S30

**WARNING**

Always wear safety glasses to prevent eye injury.

171255 Fitting

630921 Body (2 req'd)

227402 Screw (4 req'd)

Nameplate

▲ 154108 "O" Ring (4 req'd)
Pack with grease at assembly.

**CAUTION**

Shaft must have slip fit into rotor spline with minimum backlash. Do not force at assembly.

■ 332265 Key

■ 377512 Shaft

■ 310539 Bearing. Pack bearings and shaft spline cavity with fibrous type wheel bearing grease. Assemble bearing with shields toward the outside.

▲ 271822 Back-up Ring (4 req'd) Pack with grease at assembly. Install toward outer sides of bodies.

▲ 154130 "O" Ring

181792 Drain Plug

▲ 154011 "O" Ring (4 req'd)

▲ 154128 "O" Ring

181728 Drain Plug

630920 Spacer

343826 Ring (2 req'd)

Std/F3 Seal Kit
Cross Reference

▲ Std 919885	F3 919886
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■ Omit for
N1 Models

**CAUTION**

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

418966 Retainer (2 req'd)

630922 Vane (36 req'd)

309621 Spring (144 req'd)

382716 Guide (144 req'd)

630919 Rotor (2 req'd)

▲ 429293 Quad Seal (4 req'd)
Pack with grease at assembly.

■ 354386 Snap Ring (2 req'd)

419356 Pin (2 req'd)

■ 7074 Plug

332267 Screw (12 req'd)
(Torque 175-185 lb. ft.)

■ 347255 Sleeve (2 req'd)
Install sleeves below face of body .002/.006 inch.

Drain

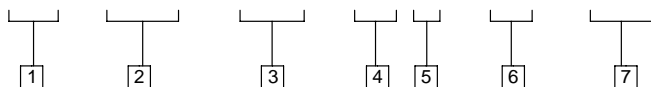
▲ 281623 Square Cut Seal (4 req'd)

**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. Make sure the marked rotor tooth of each cartridge is in line before installation of shaft.

Model Code

F3 - MHT - 500 - (*) 1 - 30 - S30



1 Seals

Multi-fluid capability, Viton seals

2 Model Series

High torque, low speed vane motor

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

4 Shaft

N - No shaft & bearings

R - Solid shaft

5 Shaft Options

Keyed shaft when provided

6 Design

7 Features

Quiet feature, low pulsation levels

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.