

Vane Motors



Multi-Torque Vane Motors

MHT Series -190, 220 & 250

Model	Shaft	Snap Ring (2 req'd)	Ring	Plug
MHT-190/95/95-*1-30	345769	354386	364468	7074
MHT-220/125/95-*1-30			375223	
MHT-250/125/125-*1-30			343826	

Std/F3 Seal Kit Cross Reference	
▲ Std 919769	F3 919880

■ Omit for N1 Models

When assembling a MHT-220/125/95, this .25 diameter hole in one side of ring 375223 must face the double port body 397231.

▲ 281623 Square Cut Seal (2 req'd)

397231 Double Port Body
Name Plate

227402 Screw (4 req'd)

418966 Retainer (2 req'd)

▲ 429293 Quad Seal (2 req'd)
(Grease pack at assembly.)

▲ 408967 Quad Seal (3 req'd)
(Grease pack at assembly.)

■ 306439 Key
(MHT-***-R1-30)

Ring (See table)

396438 Spring (72 req'd)

382715 Vane (18 req'd)

382716 Guide (72 req'd)

423209 Body

382709 Rotor

347255 Sleeve
(2 req'd)

▲ 154108 "O" Ring
(2 req'd)
(Grease pack at assembly.)

■ Snap Ring
(See table)

Plug (See table)

378149 Pin (2 req'd)

▲ 271822 Back-up
Ring (2 req'd) Install
as shown toward outer
side of body.

▲ 154011 "O" Ring
(2 req'd)

237138 Screw
(12 req'd)
(Torque to
150 ± 5 lb. ft.)

CAUTION
■ Shaft (see table). Shaft must have slip fit into rotor spline with minimum backlash. Do not force at assembly.

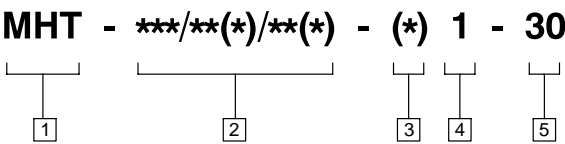
■ Bearing (2 req'd) (see table). Pack bearings and shaft spline cavity with fibrous type wheel bearing grease. Assemble bearing with shields toward the outside.

380649 Plug S/A (3 req'd)
▲ 154131 "O" Ring
326976 Plug
(Must be below surface)

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

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.

Model Code



<div>1</div> <div>Model Series</div> <div>High torque, low speed vane motor</div>	<div>3</div> <div>Shaft</div> <div>N - No shaft and bearings</div> <div>R - Solid shaft</div>	<div>5</div> <div>Design</div>
<div>2</div> <div>Combination of Theoretical Torque in Lb.-Ft. per 100 P.S.I. Differential Pressure</div> <div>190/95/95</div> <div>220/125/95</div> <div>250/125/125</div>	<div>4</div> <div>Keyed Shaft</div> <div>(When provided)</div>	

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.