Vickers®

Vane Motors



Multi-Torque Vane Motors

MHT 380 thru 460 Series

Model	Shaft	Snap Ring	Key	Bearing	Plug	Ring	Ring	■ Omit on N1 Models	
MHT-380/190/190-*1-30-S20		(2 req'd)		(2 req'd)		"A" 364468	"B" 364468	141 Models	
MHT-440/250/190-*1-30-S20	377512	354386	332265	310539	7074	375223	375223		
MHT-410/220/190-N1-30-S20						375223	364468		
MHT-460/250/210-N1-30-S20						405171	405171		
Assemble Ring with .25 diameter point toward Double Ported Boo		Ring (2 red (See table		396438 (144	Spring 4 req'd)		399326 Must be marked on Rotor. Omission indicates wrong rotor.		
425465 Double		426397 Sp	oacer—	382716	6 Guide		424	1384 Vane (36 req'd)	
Ported Body (Outlet)		171255 Fi	tting	(144	4 req'd)		347	255 Sleeve (2 req'd)	
Nameplate	A	B		39932	6 Rotor	//		Sleeves must be 0.002 below face	
227402 Screw (4 req'd)								0.006 of body.	
▲ 429293	1	\setminus]						- 425464 Body Inlet	
Quad Seal (4 req'd) grease pack at assembly								108 O-Ring (2 req'd) se pack at assembly	
▲ 408967			1				— ■ s	nap Ring (See table)	
O-Ring (3 req'd) grease pack at assembly									
■ Plug (See table)					h			■ Key	
419356 Pin (2 req'd)								(See table)	
▲ 271772 Back-up Ring									
■ Bearing (See table)						₩	74000 D		
Pack Bearings and Shaft	U				$\exists \setminus \bigcirc$		1822 Ba Insta	ack-up Ring (2 req'd)	
Spline Cavity with fibrous		/						sides of both bodies	
type wheel bearing grease. Assemble Bearings with						6	— ▲ 3322	267 Screw (12 reg'd)	
shield on outside.					\ <u>\</u>	8		que to 180 ± 5 lb. ft.	
380649 Plug S/A (3 req'd)		181728 PI					1623 Squa	re Cut Seal (4 req'd)	
▲ 154131 O-Ring 326976 Plug	// ،	181792 PI	\				_ ▲ 154	011 O-Ring (4 req'd)	
■ Shaft (See table	e) //	// ▲ 154128 O-Ring —					\overline{R}	ing (See Table)	
CAUTION	/	/						CAUTION	
Shaft must have Slip Fit into Rotor Spline) <u>/</u>	418966 Retainer (4 req'd)					Assemble both rings and spacer with Case Drain		
with minimum backlash. Do n	ot	Included in	າ	▲ Include	ed in	locate		n (not rotated with	
force at assembly.		F3 Seal Ki	it 919888	Seal Kit	919887	hole a		`	
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 rotor tooth of each cartdridge is in line before installation of shaft.



WARNING

Wear safety glasses to prevent eye injury.

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Model Code



1 Seal Material

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

2 Model Series

MHT - Vane motor, high torque, low speed

3 Theoretical Torque

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

Differential pressure

380/190/190

410/220/190

440/250/190

460/250/210

4 Shaft

N - No shaftR - Standard solid shaft

5 Keyed Shaft

When provided

6 Design

7 Special Feature