

ENGINEERING
TOMORROW



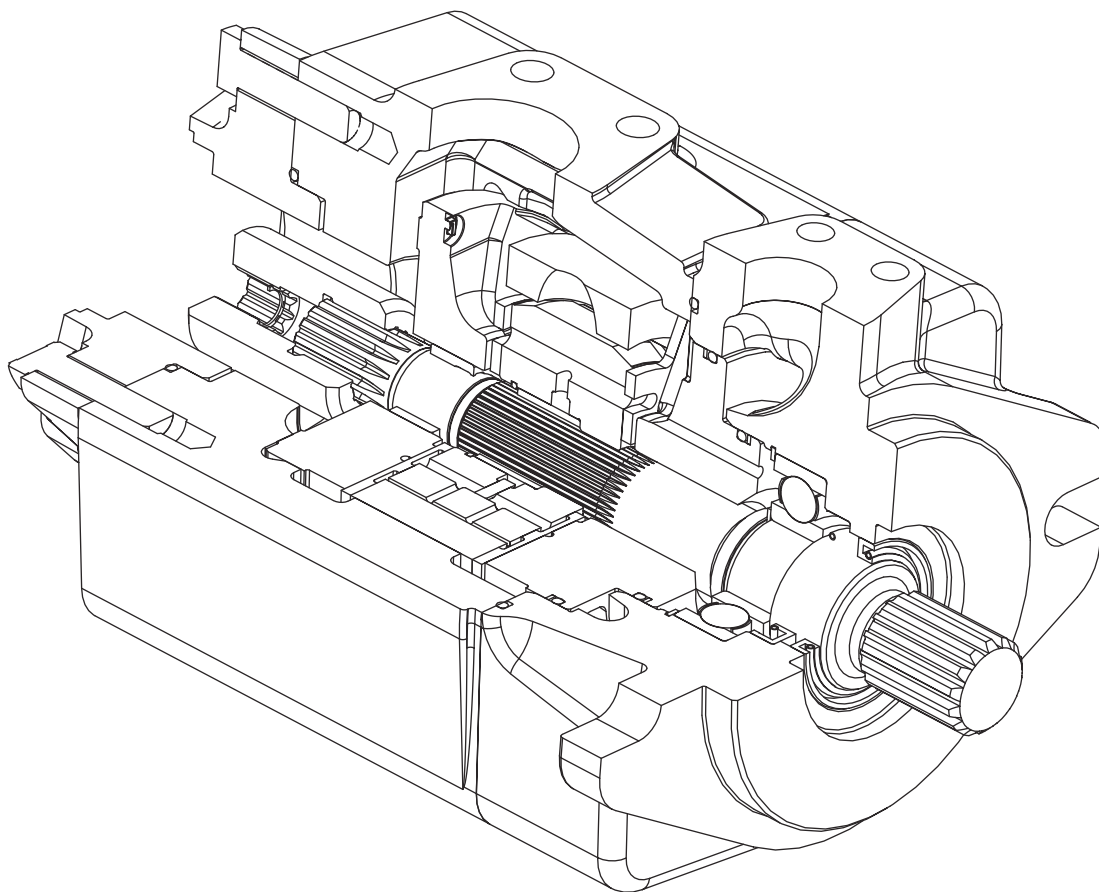
Vickers® by Danfoss

**High Pressure, High Performance
Vane Pumps**

Parts and Service Manual

AX438783120878en-000101

VMQ125T Series
– 32 Design



VICKERS®

Note Lubricate all parts and seals with a thin coat of oil at assembly.

- Included in Cartridge Kit (see table 1)
- ▲ Included in single STD Seal Kit 02-334696 or Viton® Seal Kit 02-334697.
- △ Included in double STD Seal Kit 02-334698 or Viton® Seal Kit 02-334699.
- * See Table X1 and X2 for Kit Rotation Information

998895 'A' SAE Housing
998896 'B' ISO Housing

134249 Screw, 4 Req'd -
Torque dry = 153 +/- 16 Nm
(113 +/- 11 ft*lb);
Torque oiled = 115 +/- 12 Nm
(85 +/- 9 ft*lb)

▲ △ • 579373 Hub O-ring Buna-N
579388 Hub O-ring Viton

▲ △ • 998888 Hub Back Up Ring

▲ △ • 998891 OD Back Up Ring

Cartridge Kit
(see table 1)

Thru Drive Coupling
(see table 2)

▲ △ • 587288 OD O-Ring Buna-N
587289 OD O-ring Viton

△ 429281 Shaft Seal — Viton
(double shaft seal only)

▲ △ Adapter/Housing O-Ring (see table 2)

Adapter (see table 2)

▲ △ Mounting pad O-Ring (see table 2)

Key (see table 3)

38441 Bearing

119982 External Snap Ring

193144 Internal Spiralox

Outlet Body
(see table 4)

▲ △ 394973 Shaft Seal Buna-N
429284 Shaft Seal Viton

▲ △ 294660 O-ring Buna-N
335660 O-ring Viton

Shaft (see table 3)

TABLE X1

Cartridge Kit Rotation for Right Hand Rotation Pump

R= Right Hand Rotation		L=Left Hand Rotation	
PUMP ROTATION	SHAFT END KIT ROTATION	CENTER KIT ROTATION	COVER END KIT ROTATION
Single & Thru (R)	(R)	-	-

*Notes: - A right hand rotation pump has the shaft turning clockwise when viewed from the input shaft end
- When ordering a right hand rotation kit, the part number will not have a suffix

TABLE X2

Cartridge Kit Rotation for Left Hand Rotation Pump

R= Right Hand Rotation		L=Left Hand Rotation	
PUMP ROTATION	SHAFT END KIT ROTATION	CENTER KIT ROTATION	COVER END KIT ROTATION
Single & Thru (L)	(L)	-	-

*Notes: - A left hand rotation pump has the shaft turning counterclockwise when viewed from the input shaft end
- When ordering a left hand rotation kit, the part number will have a suffix of 'L'

TABLE 1

MODEL CODE	• • CARTRIDGE KIT (BUNA-N)	• • CARTRIDGE KIT (VITON)
VMQ125*010	02-347013	02-347014
VMQ125*016	02-347011	02-347012
VMQ125*020	02-347009	02-347010
VMQ125*025	02-347007	02-347008
VMQ125*032	02-347005	02-347006
VMQ125*040	02-347003	02-347004
VMQ125*045	02-347001	02-347002
VMQ125*050	02-346999	02-347000
VMQ125*063	02-346997	02-346998
VMQ125*071	02-346995	02-346996
VMQ125*080	02-346993	02-346994
VMQ125*090	02-347102	02-347103

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TABLE 2

MODEL CODE	OUTLET	MOUNTING	ADAPTER	ADAPTER/HOUSING	MOUNTING PAD	COUPLING		
THRU DRIVE COMPONENTS	SPLINE	PAD SIZE		O-RING	O-RING		ASSEMBLY	
		SIZE			BUNA N	VITON	BUNA N	VITON
VMQ125T-*.***-*.**_-16	SAE A	SAE A	937081	200159	262418	353409	576601	02-315064
VMQ125T-*.***-*.**_-22	SAE B	SAE B	998588	200159	262418	375422	401525	02-315063
VMQ125T-*.***-*.**_-25	SAE B-B	SAE B	998588	200159	262418	375422	401525	02-315061

TABLE 3

MODEL CODE	SHAFT	KEY
VMQ125T-***-**-01	937084	928540
VMQ125T-***-**-02	937085	—
VMQ125T-***-**-03	937086	928545
VMQ125T-***-**-04	937087	928563
VMQ125T-***-**-05	937088	928541
VMQ125T-***-**-06	937089	—
VMQ125T-***-**-07	937090	928546
VMQ125T-***-**-08	937091	928564

TABLE 4

OUTLET BODY

Flange Mounting Style	Single Shaft Seal Inch Port Threads	Single Shaft Seal Metric Port Threads	Double Shaft Seal Inch Port Threads	Double Shaft Seal Metric Port Threads
SAE B	998600	998602	998601	998603
ISO 100	—	998604	—	998605

```
VMQ1  ** * *** * * ** ** * * * * * 00 * 0 32
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27 28 **Design code**

32 – 32 design

Installation dimensions remain unchanged for design numbers 30 to 39 inclusive.

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- Electric converters
- Electric machines
- Electric motors
- Gear motors
- Gear pumps
- Hydraulic integrated circuits (HICs)
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- Hydrostatic pumps
- Orbital motors
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- Telematics

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