

ENGINEERING
TOMORROW

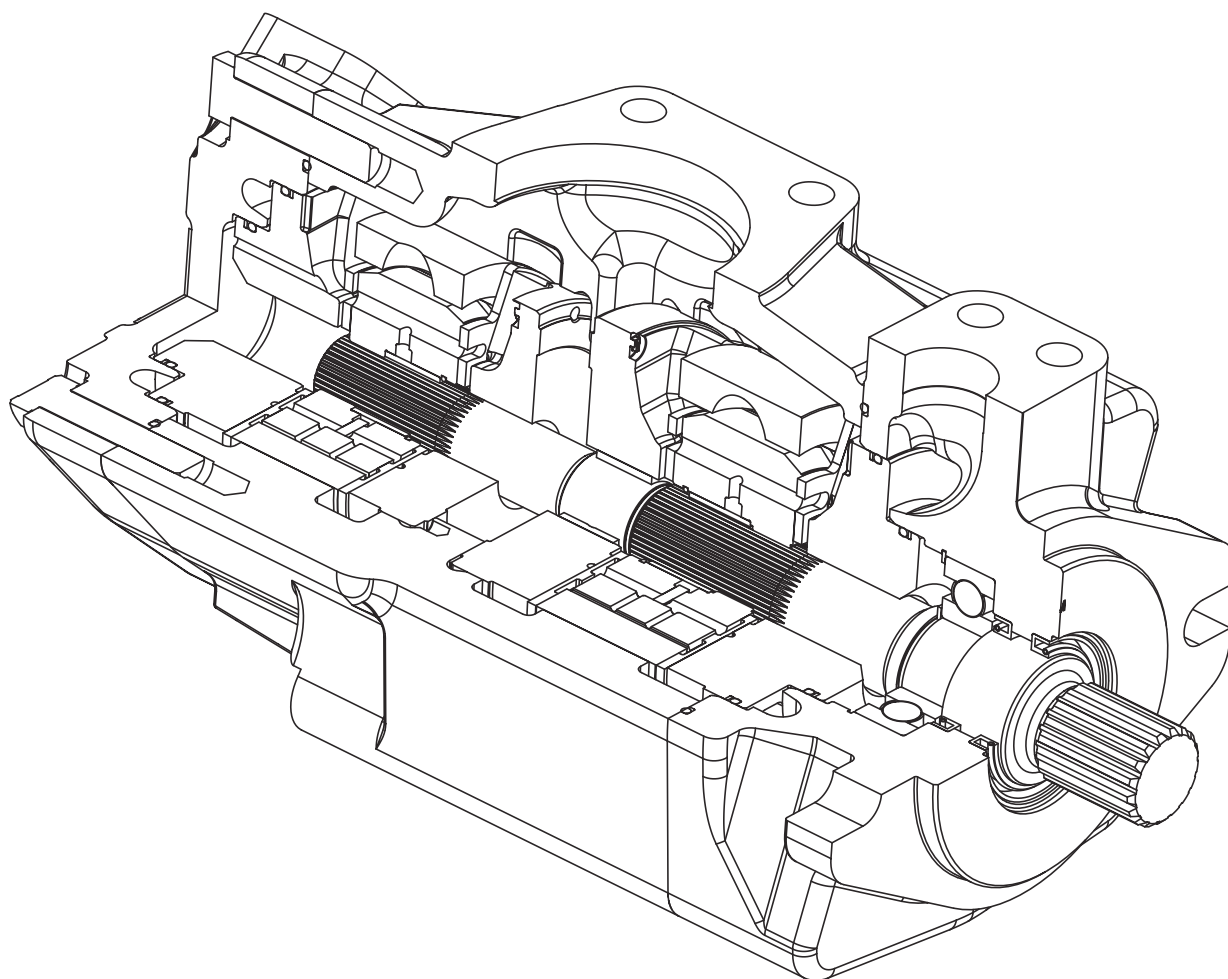


Vickers® by Danfoss

**High Pressure, High Performance
Double Vane Pumps**

Parts and Service Manual
AX438767869866en-000101

VMQ23525S Series
– 32 Design



VICKERS®

High Pressure,
High Performance
Double Vane Pump
VMQ23525S Series
— 32 Design

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

- Included in Cartridge Kit (see table)
- ▲ Included in 02-334556 STD Seal Kit, Single Shaft Seal or 02-334557 VitonSeal Kit, Single Shaft Seal.
- △ Included in 02-334639 STD Seal Kit, Double Shaft Seal or 02-334640 Viton Seal Kit, Double Shaft Seal.
- * With double and triple pumps, the orientation of the kits is such that the kit rotation is a reverse of the pump rotation. See tables X1 and X2 for the correct kit rotation relative to the pump rotation.

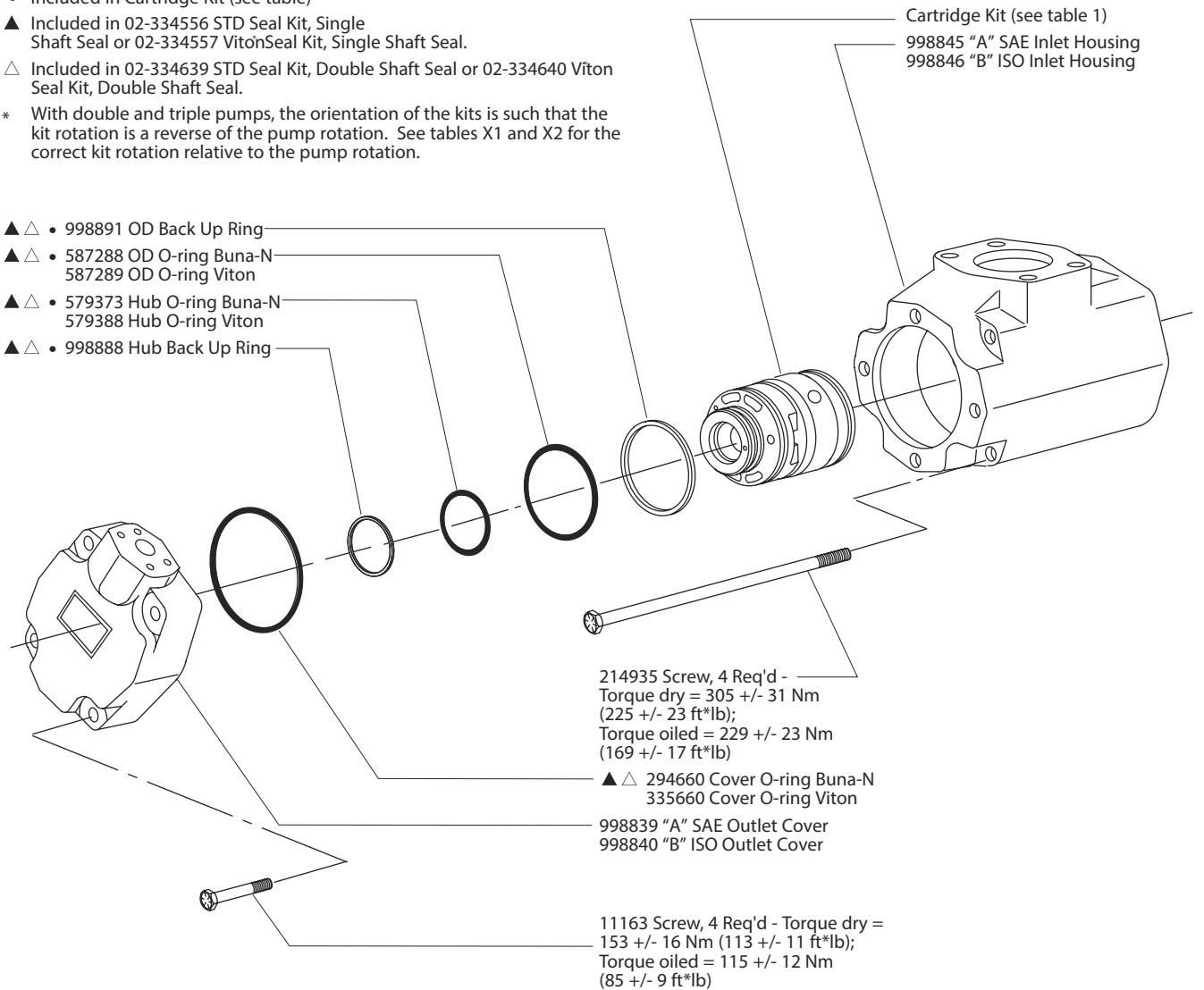


TABLE X1

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
Double (R)	(R)	-	(L)

*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
Double (L)	(L)	-	(R)

*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'

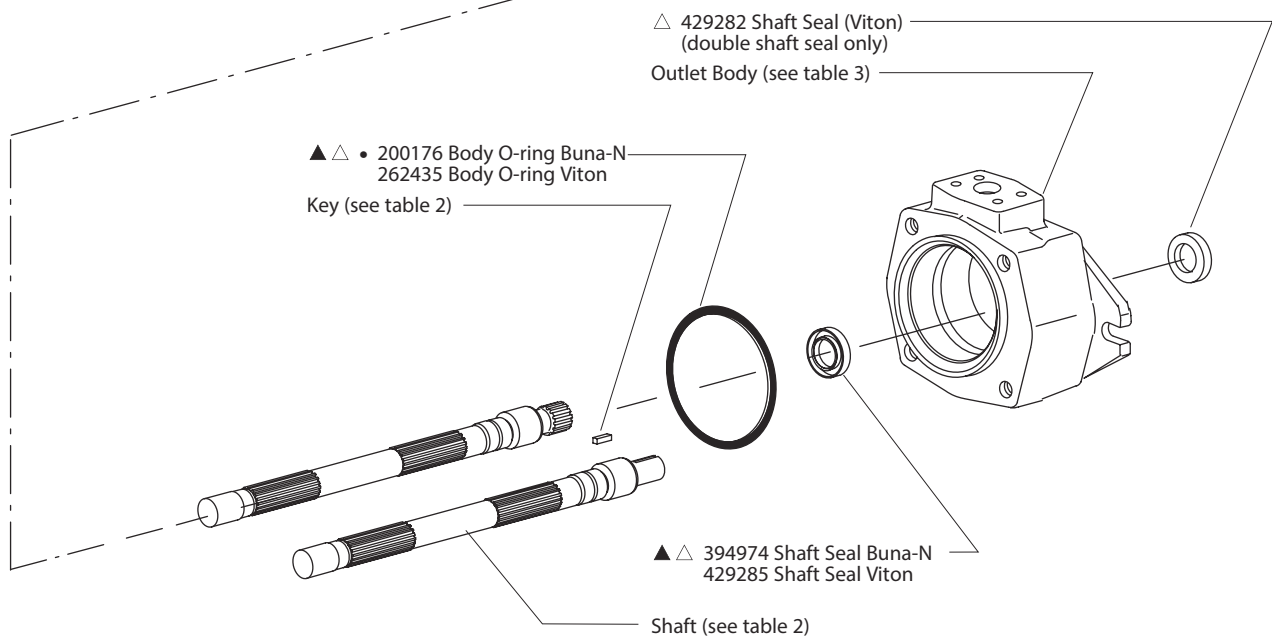
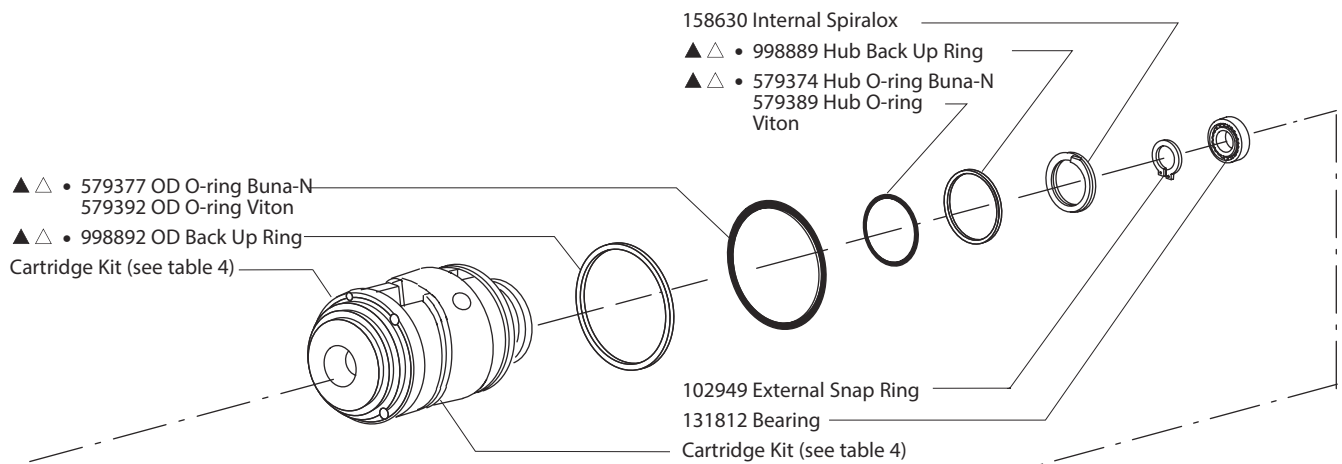


TABLE 1

MODEL CODE COVER END	* • CARTRIDGE KIT (BUNA-N)	* • CARTRIDGE KIT (VITON [®])
VMQ23525S***010	02-465574	02-465569
VMQ23525S***016	02-465575	02-465570
VMQ23525S***020	02-465576	02-465571
VMQ23525S***025	02-465578	02-465572
VMQ23525S***032	02-465577	02-465573
VMQ23525S***040	02-348974	02-348981
VMQ23525S***045	02-348975	02-348982
VMQ23525S***050	02-348976	02-348983
VMQ23525S***063	02-348977	02-348984
VMQ23525S***071	02-348978	02-348985
VMQ23525S***080	02-348979	02-348986
VMQ23525S***090	02-348980	02-348987

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TABLE 2

MODEL CODE	SHAFT	KEY
VMQ23525S-***-***-**-01	934075	928541
VMQ23525S-***-***-**-02	934076	—
VMQ23525S-***-***-**-03	934077	928546
VMQ23525S-***-***-**-04	934078	928564
VMQ23525S-***-***-**-05	934079	928542
VMQ23525S-***-***-**-06	934080	—
VMQ23525S-***-***-**-07	934081	928547
VMQ23525S-***-***-**-08	934082	928565

TABLE 3

OUTLET BODY				
Flange Mounting Style	Single Shaft Seal Inch Port Threads	Metric Port Threads	Double Shaft Seal Inch Port Threads	Metric Port Threads
SAE B	998732	998734	998733	998735
ISO 100	—	998736	—	998737

TABLE 4

MODEL CODE SHAFT END	* • CARTRIDGE KIT (BUNA-N)	* • CARTRIDGE KIT (VITON [®])
VMQ23525S090***	02-346986	02-346987
VMQ23525S100***	02-346984	02-346985
VMQ23525S112***	02-346982	02-346983
VMQ23525S125***	02-346980	02-346981
VMQ23525S135***	02-346978	02-346979
VMQ23525S140***	02-348374	02-348376
VMQ23525S158***	02-348181	02-348180

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VMO2 ** ** S *** *** * 0 ** 00 * * * * * * * 00 * 0 32

1234	Series designation	16	Front flange mounting style	2021	Output shaft coupling	28	Seal Type
VMQ2	Vane pump double series	B	SAE C 2-bolt 127,00 (5.000) x 12,4 (0.49) pilot 17,6 (0.69) slots on 181,0 (7.13) bolt circle	00	None (standard double pump)	N	Buna-N
56	Frame size (front section)	D	ISO 3019/2 125A2HW 2-bolt 125,00 (4.921) x 9,2 (0.36) pilot 18,1 (0.71) slots on 180,0 (7.09) bolt circle	22	Inlet port type	V	Viton
35	90-158 cm³/r (5.49-9.64 in³/r)			A	SAE J518 4-split flange	W	Buna-N with Viton shaft seal(s)
78	Frame size (rear section)			B	ISO 6162 4-bolt flange		
25	10-90 cm³/r (0.62-5.49 in³/r)			23	Front outlet port type		
9	Pump type			A	SAE J518 4-bolt flange		
S	Standard	17	Adapter flange	B	ISO 6162 4-bolt flange		
101112	Displacement (front section)	0	None (standard double pump)	24	Rear outlet port type	3031	Special features
Frame size 35		1819	Input shaft type*	A	SAE J518 4-bolt flange	00	None
090	90 cm³/r (5.49 in³/r)	01	SAE J744 keyed Frame size 35: 31,75 (1.250)	25	Front outlet port position Viewed from cover end of pump	32	Paint
100	100 cm³/r (6.10 in³/r)	02	SAE J744 splined Frame size 35: C	A	Opposite inlet port	O	None
112	112 cm³/r (6.83 in³/r)	03	ISO 3019/2 keyed Frame size 35: 32,00 (1.260)	B	90° CCW to inlet port	A	Blue
125	125 cm³/r (7.63 in³/r)	05	SAE J744 keyed Frame size 35: 38,10 (1.500)	C	In-Line with front inlet port	33	Customer identification
135	135 cm³/r (8.24 in³/r)	06	SAE J744 splined Frame size 35: C-C	D	90° CW to inlet port	O	None
140	140 cm³/r (8.54 in³/r)	07	ISO 3019/2 keyed Frame size 35: 40,00 (1.575)	26	Rear outlet port position Viewed from cover end of pump	3435	Design code
158	158 cm³/r (9.64 in³/r)			A	135° CCW to inlet port	32	32 design Installation dimensions remain unchanged for design numbers 30 to 39 inclusive.
131415	Displacement (rear section)			B	45° CCW to inlet port		
Frame size 25				C	45° CW to inlet port		
010	10 cm³/r (0.62 in³/r)			D	135° CW to inlet port		
016	16 cm³/r (0.98 in³/r)			27	Shaft Seal		
020	20 cm³/r (1.23 in³/r)			A	Single, primary		
025	25 cm³/r (1.58 in³/r)			B	Double, secondary (spring side out) Recommended for wet mount applications		
032	32 cm³/r (1.96 in³/r)						
040	40 cm³/r (2.44 in³/r)						
045	45 cm³/r (2.75 in³/r)						
050	50 cm³/r (3.05 in³/r)						
063	63 cm³/r (3.84 in³/r)						
071	71 cm³/r (4.33 in³/r)						
080	80 cm³/r (4.88 in³/r)						
090	90 cm³/r (5.49 in³/r)						

Products we offer:

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- Electric converters
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- Gear pumps
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- PLUS+1® software services, support and training
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