Discontinued <td< th=""><th colspan="4">erts Sheet 1800-4005_01</th></td<>										erts Sheet 1800-4005_01			
100° Rota	100° Rotation, Dual Vane												
					ITEM 1 2 3 4 5 6 7 8 9	18251128 FL/ 1825-1125 SH 1825-1106 BE 1825-1107 BA 1825-9035 HE 1825-9036 HE 1825-9037 HE 1001-1131 O- 1825-9053 STJ 1825-9053 STJ 1825-9052 RO 1825-9052 RO 1825-9061 RO	ESCRIPTION AT HEAD CAP SCRI OULDER NUT ARING COVER LL BEARING AD KIT, Dual Vane AD KIT, Single Vane RING RING ATOR TOR, Dual Vane, Di TOR, Dual Vane, Si TOR, Single Vane,	e e ual Shaft ngle Shaft Dual Shaft	**************************************		286 2100-5281 8 8 2 2 - 1 1 2 2 - 1 1 2 2 - 1 - 1 - - - - - - - - - - - - -	2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1	
MODEL NUMBER R	OTATION	VANE / Stator	SHAFTS Available	OPTION	10 11	1825-1145 TU	TOR, Single Vane, BE ROD	Single Shaft	- 1 4	- 1 4	- 1 4	1 1 4	
1825-0113	280°	Single	Single				~						
1825-0112 1825-0111	280° 100°	Single Dual	Dual Single					<i>(</i> 2)					
1825-0110	100°	Dual	Dual										
1825-0115	280°	Single	Single	Adjustable Stops))) ()					
1825-0114 280° Rota	100° tion, \$	Dual	Vane	Adjustable Stops	lo 0. (lo Extern		lubric weight oil. I Loading: He ot recommend and does not of not use intern bined weight a s (0.08 Newto een the shaft a nal stops are	eavy end thrus ded. Use an i distribute it to al stops to st and speed do n-meters) of l and load shoul recommended	ould be mum pne non-dete t loading solating the actua op rotati not gene kinetic er d be avo I for high	oper euma erger of th coup ator sl on ex erate nergy ided.	rated atic se nt SAI ne acti ling w haft. xcept more v. Back	with rvice E 30 uator vhich with than klash oads	
1 3					to	machine frame	work.						

Tolomatic • URL: http://www.tolomatic.com • Email: help@tolomatic.com • Fax: (763) 478-8080 • Toll Free: 1-800-328-2174

9

(7)

Assembly No.: 1825-9030

DESCRIPTION

1001-1153 SOCKET HEAD CAP SCREW

6

PART NO.

1825-1035 CAP

1825-1032 LABEL

1825-1027 OUTSIDE PLATE

1825-1030 STOP RINGS

1825-1033 SQUARE KEY

1825-1034 SET SCREW

1825-1028 INSIDE PLATE

1825-1011 BRONZE BUSHING

1825-1026 PADDLE

(5

ITEM

1

2

3

4

5

6

7

8

Q

10

DISASSEMBLY NOTE:

VRX Ball Bearings (#4) are installed using retaining compound. Additional force may be required to separate the Ball Bearings (#4) during disassembly. Also note that the Ball Bearing (#4) may stay attached to the Rotor (#9) or to the Head (#5).

ASSEMBLY INSTRUCTIONS – 100° ACTUATOR

- 1. Use Teflon®-additive grease when lubrication is required.
- 2. Lubricate and install small O-Ring (#6) into groove in center bore of each Head (#5).
- 3. Lubricate and install large O-Ring (#7) into groove on face of each Head (#5).
- 4. Lubricate rubber surfaces and insert two [2] Stators (#8) into one Head (#5) by aligning the dowel pins with the holes in the Head (#5).
- 5. Lubricate rubber surfaces and insert Rotor (#9) between the two [2] Stators (#8) and into the center bore of the Head (#5).
- 6. Lightly lubricate the inside diameter of the Tube (#10) and slide over the two [2] Stators (#8) and Rotor (#9) until engaging the Head (#5).
- Align and install the other Head (#5) onto the dowel pins of the two [2] Stators (#8) and the shaft of the Rotor (#9) through the center bore. NOTE: Assemble with the ports on the same side of both Heads (#5).
- 8. Thread four [4] Shoulder Nuts (#2) half way onto each of the four [4] Tie Rods (#11) then insert each Tie Rod (#11) through the holes in both Heads (#5).
- 9. Thread the remaining four [4] Shoulder Nuts (#2) onto the four [4] Tie Rods (#11). Shoulder Nuts (#2) must be inserted into Head (#5) then threaded onto the Tie Rod (#11).
- 10. Use a criss-cross pattern to evenly tighten each of the Shoulder Nuts (#2). Torque Shoulder Nuts (#2) to 60 in-lbs (6.8 N-m).

Adjustable Stop Assembly

3

11. Use retaining compound on the outside and inside diameter of each of the two [2] Ball Bearings (#4) then slide Ball Bearing (#4) over and into the bore of each Head (#5). NOTE: The Ball Bearing (#4) will bottom out on the Rotor (#9) shaft not the bore in the Head (#5).

12. Install Bearing Cover (#3) onto each of the Heads (#5) using Flat Head Screws (#1).

ASSEMBLY INSTRUCTIONS – 280° ACTUATOR

- 1. Use Teflon®-additive grease when lubrication is required.
- 2. Lubricate and install small O-Ring (#6) into groove in center bore of each Head (#5).
- 3. Lubricate and install large O-Ring (#7) into groove on face of each Head (#5).
- 4. Lubricate rubber surfaces and insert Stator (#8) into Head (#5) by aligning the dowel pins with the holes in the Head (#5).
- 5. Lubricate rubber surfaces and insert Rotor (#9) next to the Stator (#8) and through the center bore of the Head (#5). Rotate Rotor (#9) so vane is across from the Stator (#8).
- 6. Lightly lubricate the inside diameter of the Tube (#10) and slide over the Stator (#8) and Rotor (#9) until engaging the Head (#5).
- Align and install the other Head (#5) onto the dowel pins of the Stator (#8) and the shaft of the Rotor (#9) through the center bore. NOTE: Assemble with the ports on the same side of both Heads (#5).
- 8. Thread four [4] Shoulder Nuts (#2) half way onto each the four [4] Tie Rods (#11) then insert each Tie Rod (#11) through the holes in both Heads (#5).
 - 9. Thread the remaining four [4] Shoulder Nuts (#2) onto the four [4] Tie Rods (#11). Shoulder Nuts (#2) must be inserted into Head (#5) then threaded onto Tie Rod (#11).
 - Use a criss-cross pattern to evenly tighten each of the Shoulder Nuts (#2). Torque Shoulder Nuts (#2) to 60 in-lbs (6.8 N-m).
 - 11. Use retaining compound on the outside and inside diameter of the two [2] Ball Bearings (#4) then slide Ball Bearing (#4) over and into the bore of each Head (#5). NOTE: The Ball Bearing (#4) will bottom out on the Rotor (#9) shaft not the bore in the Head (#5).
 - 12. Install Bearing Cover (#3) onto each of the Heads (#5) using Flat Head Screws (#1).

Teflon® is a registered trademark of the E.I.DuPont de Nemours Co., www.dupont.com





QTY.

1

4

1

1

2

1

2

1

1

1

Information furnished is believed to be accurate and reliable. However, Tolomatic assumes no responsibility for its use or for any errors that may appear in this document. Tolomatic reserves the right to change the design or operation of the equipment described herein and any associated motion products without notice. Information in this document is subject to change without notice.