SEAL REPAIR KITS AND SEAL OPTIONS

PART NUMBERS FOR SEAL REPAIR KITS

ROD **PISTON**

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RACK

					!	
SRK - X3 -	— [F] –	$ \square$ $-$	- V	T	1/4	- AorK
SERIES	FLOW	CUSHIONS	FKM	PRETENSIONED	PORT SIZE	HEAVY
	CONTROL			TYPE SEALS	!	DUTY

EXAMPLES:

torque

applied t

motion k

cam but ģ

and

gear

SEAL KIT FOR X3-90-CW-S75-3C2-3RL-1/4-1 = SRK-X3-C SEAL KIT FOR X3-180-CCW-S10-2F1-1/4 = SRK-X3-F

SEAL KIT FOR SPECIAL, SUCH AS X3-B004 = SRK-X3-B004 IF PART NUMBER IS NOT KNOWN, PROVIDE UNIT SERIAL NUMBER FROM LABEL

OR STAMPED INTO BODY UNDER LABEL.

cam lifts pawl and non-return clutch. not shaft. At end of stroke,

to next index. flow control of exhausting (left) cylinder. S SHUT DOWN IN LOCKED POSITION by for

I cam, shaft and ratche we speed and impact by E CONTROL LOGIC T

shown), shaft is locked against forward motion by pawl in ratchet and against rear is work operation, apply pressure to rocatificity, with pressure applied in drive direction, to peration, apply pressure to reset (left), cylinder. Rack moves to right, driving grocycle to complete reset motion before initiating drive.

est impact. Flow control or cushion effective; do not slow beyond cycle time limit.

move shaft in forward direction; use brake if required. to opposite (right) port. Rack moves to left, diving gear and can disloadge work pieces or even break shaft. Regulate drive A LOAD WITHOUT SPEED (FLOW) CONTROL. ARRANGE (A LOAD WITHOUT SPEED (FLOW) applicable not FATION AT STARTUP. but will not retard inertia load. Bumper

ACTUATOR PARTS LOCATION SOCKET HEAD SHOULDER SCREW BREATHER X3 INDEXING BALL BEARING SNAP RING (2) SET SCREW direction. Allows in reset direction RATCHET

RATCHET

SNAP RING

END CAP BEARING PLATE END CAP SHAFT SEAL MIHS 500 SIDE VIEW ΚĒ RACK BEARING BALL BEARING BODY SHAFT SEAL SHAFT SHIM 010

NON-RETURN CLUTCH Locks shaft to body in reverse direction, as in Allows shaft to rotate freely in drive direction.

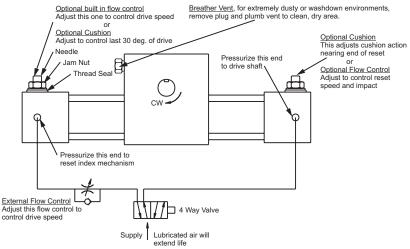
ORDER PARTS BY PART NAME AND COMPLETE PART NUMBER OR SERIAL NUMBER.

REAR VIEW
BEARING PLATE & BALL BEARING REMOVED
CCW INDEXING ACTUARD SHOWN AT END OF DRIVE STROKE WITH SHAFT LOCKED
CW INDEXING ACTUATOR IS MIRROR INAGE

(R)OTOMATION :

11 Sunshine Blvd. Ormond Beach, Fl. 32174 Phone: 386/676-6377 Fax: 386/676-6379 Email: sales@rotomation.com Website: www.rotomation.com

X3 INDEXING ACTUATOR INSTALLATION AND SETUP



CW INDEXING ACTUATOR SHOWN-CCW UNIT IS MIRROR IMAGE. REVERSE OPTION LOCATIONS AND OPERATIONS FOR CCW INDEXING ACTUATOR.

ADJUST IN FOLLOWING ORDER:

Skip options which your actuator does not have.

Speed adjustment is made with flow controls, built in ("F" option) or external (not supplied by Rotomation).

To adjust built in controls:

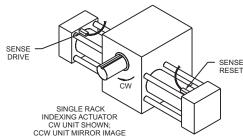
To adjust drive speed (shaft rotation speed) or speed of reset.

- 1 Loosen jam nut
- 2. Tighten needle to reduce speed, loosen to increase speed. Make small adjustments.
- 3. Tighten iam nut while holding needle steady.
- To adjust cushion ("C" option) on reset or drive:
- 1. Loosen jam nut.
- 2. Tighten needle to increase stiffness of cushion, loosen to decrease. Do not close needle.
- 3. Tighten jam nut while holding needle steady.

To adjust magnetic switch "G", "R" or "S" option.

- 1. DISABLE AUTOMATIC CONTROL. KEEP CLEAR OF SHAFT AND SHAFT MOUNTED PARTS!
- 2. Apply voltage to switch only; place switch at end of cylinder sensing drive as shown.
- 3. Manually valve system to drive unit to rotate shaft to index point
- 4. With clamp loose, move switch sensing drive toward body until LED glows, clamp.
- 5. Valve system to drive unit to reset.
- 6. With clamp loose, move switch sensing reset toward body until LED glows, clamp.
- 7. Cycle to check operating points, adjust as required.

INDEXING ACTUATOR SWITCH PLACEMENT



Villumer win in reset, external torque con that in reset, external torque con did dive to next index, apply pressure to opporndex stop is abrupt-metal to metal. It can dis DO NOT OPERATE WITH AN INERTIA LOA TO AVOID UNCONTROLLED ROTATION AI Chichion reduces drive last 30 deg. but will in

DRIVE CLUTCH BEARING Locks gear to shaft in drive of gear and cam to spin freely

tive work drive op

to all position sensitive oreset for the next drive low time in operating commer will reduce rese

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SWITCH LEADS

OPTION LEAD

Standard Lead GL, RL, SL 9', end stripped

Connection option GC, RC, SC 6" pigtail with male connector

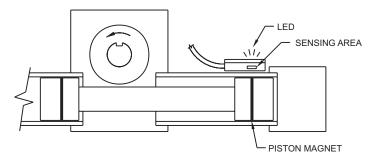
EXTENSION CABLES (PURCHASE SEPARATELY)

PART NUMBER DESCRIPTION

CC2 2 m cable, female connector one end, stripped other end.
CC5 5 m cable, female connector one end, stripped other end.

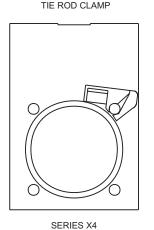
- KEEP MAGNETIC MATERIAL AWAY -

SENSING



APPROACHING PISTON MAGNET ACTIVATES SENSOR, OPERATES SWITCH AND LED. PLACE SWITCH AS CLOSE AS POSSIBLE TO END CAP FOR CORRECT OPERATING POSITION.

SWITCH MOUNTING



STRAP CLAMP

TIGHTEN STRAP CLAMP TO HOLD SWITCH STABLE. DO NOT DISTORT SWITCH CASE.

SERIES X3

ROTOMATION REED SWITCH - OPTION G

DESCRIPTION AND RATING Reed switch with LED & Surge Protection, normally open Switching voltage 5-120 VAC/VDC Switching current .5 a. max.. .005 min. Switching power 10 w. max. Voltage drop 3.5 V Temperature range -30 to +80C Environment Resistant to moisture, dust, oil **OBSERVE POLARITY** BRN Sinking AND MAXIMUM RATINGS or BRN Pin 1 120 V Max. (May be in AC OR DC

T AND CANNOT REPLACE THEREAFTER PERFORMANCE BY ROTOMATION, INC.

REPORT SHIPMENT GUARANTEE OF COMPATIBLE P

ROTOMATION TESTS ALL SWITCHES FOR PROPER SWITCHES OF OTHER MANUFACTURE HAVE NO G

837-XXX-104

837-XXX-133

ROTOMATION SINKING (NPN) SWITCH - OPTION R

DESCRIPTION AND RATING

NO, sinking (NPN), LED

Switching voltage 6 to 24 VDC

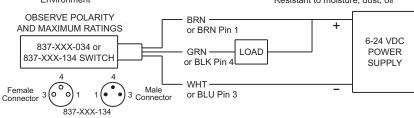
Switching current .5 a, max.

Switching power 12 w, max.

Voltage drop .5 V

Temperature range -30 to +80C

Environment Resistant to moisture, dust, oil



ROTOMATION SOURCING (PNP) SWITCH - OPTION S

