

INSTALLATION INSTRUCTIONS CONTINUED

Anti-Rotation Pins

В

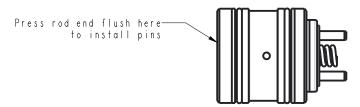
-Anti-Rotation Pins are only to resist normal rotational force from cylinder actuation. The pins are not intended to resist torque from other applications.

- -The use of anti-rotation pins are not required, but may be used to prevent plunger rotation.
- -Anti-Rotation Pins (included with each device) are sized to have sufficient length to fully engage in plunger as well as have engagement in the fixture greater than the total plunger stroke.
- Replacement anti-rotation pin part numbers are below for each size of cylinder.

MODEL NO.	PIN NO.
2 - 4 0 6 - X X	90-1999-70
2 - 4 0 9 - X X	23-5200-03
2 - 4 - X X	23-5200-04
2 - 4 3 - X X	23-5200-04
2 - 4 6 - X X	23-5200-05
21-4121-00	23-5200-05

Installation of Anti-Rotation Pins

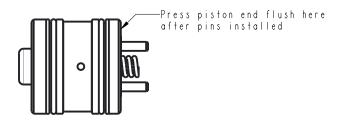
T. Press rod end of plunger flush with the end of the cylinder body. See view below. Care must be taken not to push the rod out of the rod seal. Piston seal may be exposed in certain cylinder models.



2. Press in the pins provided. Ensure pins start straight and are fully seated in the plunger. (An increase in resistance will be felt when pin is fully seated.)

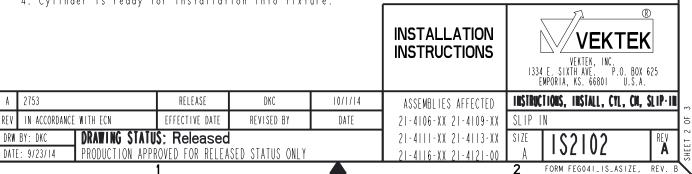
NOTE: If piston seal was exposed during anti-rotation pin installation. Lubricate seal with non-silicone grease or clean hydraulic oil prior to reinstallation.

With both pins installed, carefully press piston end of the plunger even with end of body. See view below.



В

4. Cylinder is ready for installation into fixture.



2

INSTALLATION INSTRUCTIONS CONTINUED

Installation Notes

-It is recommended that all cavities be prepared using a ball hone such as a *Flex-HoneTM.
This will deburr and round sharp edges to prevent seal damage and prepare cavity for cylinder installation.

-All seals should be lubricated with a non-silicone grease (recommended) or clean hydraulic oil prior to installation.

Installation

2753

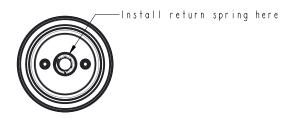
REV IN ACCORDANCE WITH ECN

В

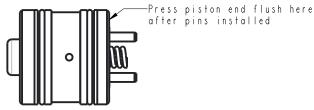
T. Lubricate all seals with non-silicone grease (recommended) or clean hydraulic oil.

2. Install return spring in plunger cavity with a small amount of grease to hold it in place during installation. See view below. A table of return spring part numbers is included below.

Cylinder P/N	Return Spring P/N
21-4106-XX	23-3550-11
21-4109-XX	23-3550-12
2 - 4 - X X	23-3550-12
2 - 4 3 - X X	23-3550-14
21-4116-XX	23-3550-15
21-4121-00	23-3550-16



3. If using anti-rotate pins install a bolt and jam nut in plunger to help align pins. Press the piston end of the plunger even with end of body. See view below.



- a. Press cylinder into cavity until plunger begins to extend ensuring cylinder goes in evenly to prevent cavity or seal damage.
- b. Using the bolt gently turn the plunger while applying slight downward force until plunger begins to retract. This ensures alignment of the anti-rotation pins.
- c. Remove bolt and jam nut. Visually inspect spring through threaded hole in plunger to verify return spring is properly positioned.
- 4. Press cylinder body until flush with the start of the cavity. Stop if an increase in resistance is felt. a. If using the optional retention ring, see chart below for proper torque.

MODEL NO.	RETAINER NO.	BOLT SIZE	TORQUE
21-4106-XX	64-0140-80	8-32 UNC	29 IN-LBS
21-4109-XX	64-0141-10	8-32 UNC	29 IN-LBS
2 - 4 - X X	64-0141-30	1/4-20 UNC	63 IN-LBS
2 - 4 3 - X X	64-0141-70	5/16-18 UNC	20 FT-LBS
2 - 4 6 - X X	64-0142-10	3/8-16 UNC	24 FT-LBS
21-4121-00	64-0142-80	1/2-13 UNC	62 FT-LBS

RELEASE

EFFECTIVE DATE

INSTRUCTIONS	VI 1334 E. SIXTI EMPORIA, I
ASSEMBLIES AFFECTED	INSTRUCTIONS, I
21-4106-XX 21-4109-XX	SLIP IN
2 -4 -XX 2 -4 3-XX 2 -4 6-XX 2 -4 2 -00	SIZE ISZ

INICTALLATION



В

DRW BY: DKC
DATE: 9/23/14

DRAVING STATUS: Released
PRODUCTION APPROVED FOR RELEASED STATUS ONLY

1

21-4111-XX 21-4113-XX SIZE 1
21-4116-XX 21-4121-00 A
2 FOR

DKC

REVISED BY

10/1/14

DATE