

KINECHEKS[®]

CONSTANT SPEED CONTROL FOR MOVING DEVICES

Bulletin S-74a
7/22/04

INSTRUCTION SHEET

(For Type 1000 Slimline, 3000 Mini K & 5000 Super K Models)

Congratulations, you are in possession of a Kinechek (Kin-a-check) speed regulator, the hydraulic speed/feed control that has set the industry standard for precise velocity control. Please take a few moments to read the following instructions before using your Kinechek.

All Kinechek models are leak proof and built to operate for millions of constant, trouble free cycles. Following our recommendations and precautions will insure you obtain a full service life.

Please determine if the item selected is suitable for the purpose for which it is intended since conditions of use are beyond our control.

**KINECHEKS ARE NOT INTENDED TO BE USED AS IMPACT ABSORBERS.
IF IMPACT ABORPTION IS REQUIRED, SEE CUSHIONEER BULLETIN S64.**

Remember to always provide adequate guards and whatever precautions are necessary to protect personnel and equipment at all times. Do not use this unit where a malfunction could result in human injury.

GUARANTEE AND LIMITATION OF LIABILITY

Every hydraulic unit is fully guaranteed against defects in workmanship or material. Within one year from the date of shipment to the original purchaser, any unit which has proven defective will be repaired without charge, F.O.B factory, when unit is shipped prepaid to factory. The Company is not responsible for any damage resulting from tampering, abuse, or incorrect application.

The Company's liability on any claim of any kind including negligence, for any loss or

damage arising out of, connected with, or resulting from, the design, manufacture, sale, delivery, resale, installation or installation advice, inspection, repair, operation, or use, of any equipment described herein, shall in no case exceed the price allocable to the equipment which gives rise to the claim, and shall terminate four years after the date of original shipment. The purchaser, by acceptance of any of the Company's products described herein, assumes all liability of the consequence of the use of those products.

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INSTALLATION

For maximum service life, align unit accurately with direction of moving load. Absorb thrust by using snap ring (furnished) installed in groove. Moving load should strike plunger squarely as in Fig. 1.

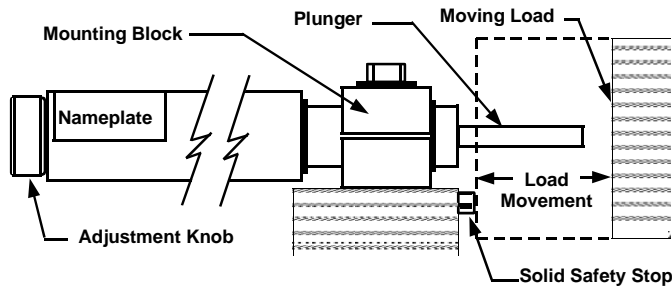


Fig. 1

For quick plunger return after a working stroke, and also to protect equipment, provide solid safety stop to stop moving load approximately 1/32" before Kinechek plunger reaches bottom of its own stroke. Never place anything (finger & hand included) between end of plunger rod & moving load.

Do not twist plunger rod within the body or allow load to slide across end of plunger causing plunger to twist during its stroke, otherwise plunger seal and bushing life will be shortened.

Slimline models may be operated with swinging levers for moderate service if roller A10131 or A10331 is mounted on lever as in Fig 2, but rollers must contact flat end of plunger squarely during entire stroke of plunger. Plunger may butt directly against swinging lever as in Fig 3. if service requirement is very light.

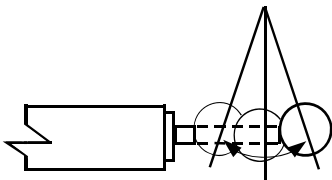


Fig. 2

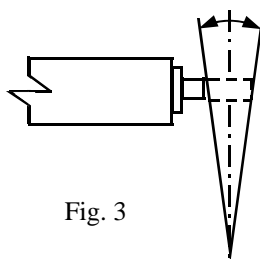


Fig. 3

Operation with swinging levers is not recommended for Super K or Mini K models unless load is very light. Contact factory if assistance is required.

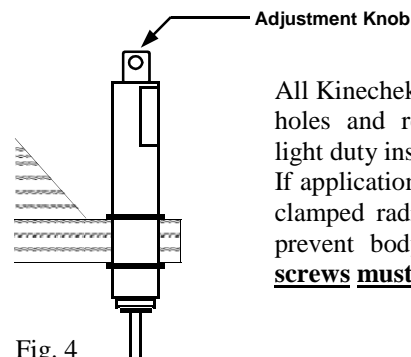


Fig. 4

All Kinecheks can be mounted in round holes and retained by snap rings in light duty installations. If application is severe, body should be clamped radially by split mounting to prevent body working in hole. **Set screws must not be used.**

OPERATION

AFTER INSTALLATION, ADJUST AS FOLLOWS:

Adjust Slimline models by inserting a rod in hole and rotating adjustment knob. Mini K & Super K models may be adjusted by turning knurled knob with fingers. Turning adjustment knob full circle, will not harm the unit but do not adjust while under load. Adjustment is at its fastest setting when indicator slot is at #0 on scale line and at its slowest setting at #30 on scale line. The no scale area between #30 and #0 is a null area with no adjustment. If necessary, readjust after Kinechek has reached its highest operating temperature. Maximum recommended operating temperature is 135° F. Not recommended for operation in ambient temperature below +40° F or above +120° F.

Kinecheks are designed to operate without external lubrication. Plunger bushing and seal are permanently lubricated with a special lubricant and protected by a rod wiper. Additional lubrication of plunger is not recommended because ordinary oil will displace the special lubricant and may shorten the long wearing life of the unit.

CAUTION

Slimline and Super K models are rated for a maximum load of 1200 lbs. Mini K models are rated for a maximum load of 400 lbs. Maximum loads include any impact force when load strikes plunger. Do not overload.

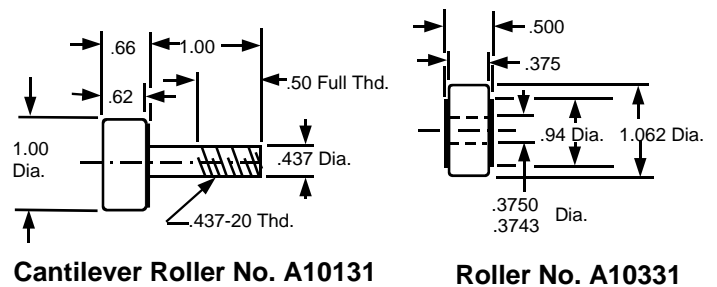
SERVICE

Remove Kinechek from service immediately if the plunger hesitates or fails to travel all the way out on its return stroke.

Keep a spare unit on hand if a breakdown would be costly. Life expectancy is millions of cycles but any hydraulic unit will eventually wear out.

When repair service is required the unit may be returned to factory for fast, expert work at reasonable rates Kinecheks are light in weight and inexpensive to ship.

ROLLER (ACCESSORIES)



Cantilever Roller No. A10131

Roller No. A10331

Fig. 5