SCC Inc.

Installation Instructions

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AGA92.4

Product Description

AGA92.4 is an overtravel kit that can be added to any VKG... butterfly valve to allow the crank arm to continue rotating after the VKG... valve has reached the provided mechanical stops.

Components Supplied

Figure 1 shows the components supplied with the AGA92.4 overtravel kit:

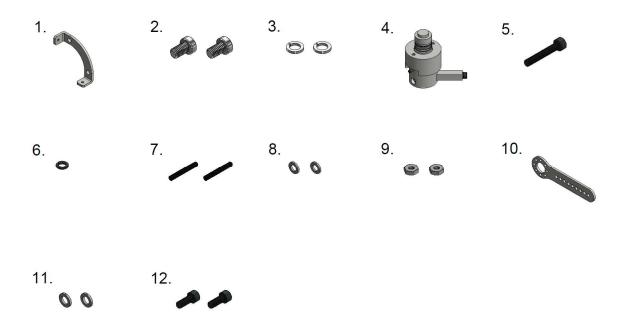


Figure 1: Pieces Supplied with the AGA92.4 Overtravel Kit

- 1. Mechanical stop bracket
- 2. (2) M6 x 10mm socket head cap screws
- 3. (2) M6 split lock washers
- 4. Overtravel mechanism
- 5. M4 x 25mm socket head cap screw
- 6. M4 split lock washer

- 7. (2) #8-32 x 1-1/4" socket set screws
- 8. (2) #8 split lock washers
- 9. (2) #8-32 hex nuts
- 10. Crank arm
- 11. (2) #10 split lock washers
- 12. (2) #10-24 x 1/2" socket head cap screws

Recommended Installation Tools

The following tools are recommended for installing the AGA92.4 overtravel kit:

- 4mm hex key or T-handle key
- 3mm hex key or T-handle key
- 11/32" open end wrench (or crescent wrench)
- 5/64" hex key or T-handle key
- 5/32" hex key or T-handle key

Installation Procedure

Place the mechanical stop bracket on top of the blue VKG... valve dial so that the two unthreaded holes in the mechanical stop bracket align with the two threaded holes in the VKG... valve dial that are illustrated below in Figure 2. Using the 4mm hex key, the (2) M6 x 10mm socket head cap screws, and the (2) M6 split lock washers, fasten the mechanical stop bracket to the VKG... valve.



Figure 2: Mechanical Stop Bracket Installation

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2. Slide the overtravel mechanism over the VKG... valve shaft and align the threaded hole in the VKG... valve shaft with the clearance hole in the overtravel mechanism. Using the 3mm hex key, the M4 x 25mm socket head cap screw, and the M4 split lock washer, fasten the overtravel mechanism to the VKG... valve as shown below in Figure 3.



Figure 3: Overtravel Mechanism Installation

3. Using a 5/64" hex key, thread the (2) #8-32 x 1-1/4" socket set screws into the two threaded holes in the mechanical stop bracket. Rotate the VKG... valve shaft by hand and continue to thread the (2) #8-32 x 1-1/4" socket set screws into the mechanical stop bracket until the desired minimum and maximum valve stroke have been achieved. Then, using the 11/32" open end wrench, the (2) #8 split lock washers, and the (2) #8-32 hex nuts, secure the mechanical stops as shown in Figure 4.



Figure 4: Mechanical Stop Installation

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4. Slide the crank arm over the top of the overtravel mechanism and align two of the holes in the crank arm with the two threaded holes in the overtravel mechanism. Note that the crank arm can be mounted in any of eight positions depending on which mounting holes are used. Using the 5/32" hex key, the (2) #10-24 x 1/2" socket head cap screws, and the (2) #10 split lock washers, fasten the crank arm to the overtravel mechanism as shown in Figure 5. Critical dimensions for the crank arm are shown below in Figure 6.



Figure 5: Crank Arm Installation

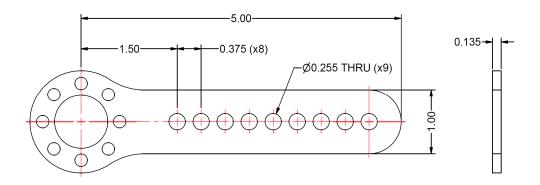


Figure 6: Crank Arm Dimensions

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