

RA to RA 2000:

In order to use current RA 2000 operators on existing systems with Danfoss RA valves, the adapter 013G8070 must be installed to allow the new operator to fit onto the valve.

| | |
|--|---|
| | <p>The older Danfoss RA valve is distinguished by the large silver threaded nut that connects the operator to the valve.</p> <p>There are two versions of RA operators:</p> <p>a) Operator mounts directly on valve with remote bulb/sensor (not shown) b) Separate remote mounted operator and remote bulb/sensor (shown at left)</p> |
|--|---|

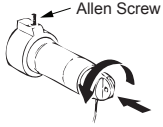
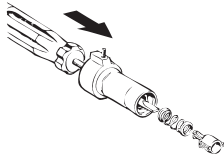
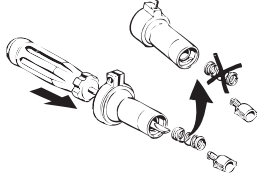
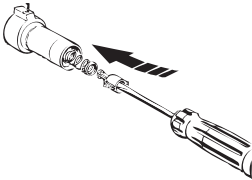
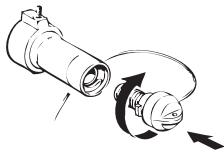
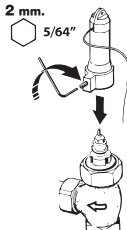
Crossover Replacement Operator Guide, RA to RA2000

| | | | | | |
|---|---|-----------------|---|--|--|
| <p>013-7001 RA-6 013-7101 RA-6</p> | = | <p>013G8070</p> | + | <p>Built-in dial and sensor 013G8252</p> | <p>Tamper resistant Built-in with remote sensor 013G2922</p> |
| <p>013-7002 RA-33 013-7003 RA-36 013-7004 RA-66</p> | = | <p>013G8070</p> | + | <p>013G8564</p> | |

Installation:

| | |
|------------------------|---|
| | <p>1) Remove the existing RA operator (RA-33 shown) from the valve by turning nut counter clockwise. Although the valve should backseat, for safety, the system should be off.</p> |
| | <p>2) Remove any existing gasket material from the face of the threads.</p> |
| | <p>3) Assemble the adapter to the valve as shown in the diagram. The gasket should be placed between the valve and the adapter. Tighten the nut sufficiently to prevent leakage.</p> |
| | <p>Valve Mounted Operators:</p> <p>013G8252 Align the base of the RA2000 operator with the notches on the adapter. Press firmly until an audible "click" is heard.</p> |
| <p>2 mm. 5/64"</p> | <p>013G2922 For tamper resistant operators the Allen screw on the operator must be tightened to secure to the valve.</p> |

Remote mounted operator 013G8564 is factory configured for use with an RA 2000 valve. Also supplied with the operator is another socket body containing a spring that is required for the operator to be used on an RA valve with this adapter. The following steps show how to remove the spring and utilize it for this application.

| | |
|---|---|
|  | <p>1) Remote Mounted Operator 013G8564 Remove bellows holder from RA 2000 socket body (Socket base has an Allen screw) by pushing in slightly and turning counter clockwise.</p> |
|  | <p>2) With a screwdriver, remove the spring from the RA2000 socket body. The removed spring can be discarded.</p> |
|  | <p>3) In a similar manner remove the spring from the extra socket body included with 013G8564 (socket base has a metal band).</p> |
|  | <p>4) Install the spring removed in Step 3 into the RA2000 socket. (This spring is stiffer than the one removed in Step 2)</p> |
|  | <p>5) Reinstall bellows holder by pushing all the way and turning clockwise.</p> |
|  | <p>6) Mount the RA2000 socket body onto the RA adapter and tighten the socket body to the adapter with the Allen screw.</p> |

Operation Instructions:

For complete details of the installation of the operator, please consult instructions enclosed with applicable operator.

Danfoss can accept no responsibility for possible errors in printed materials and reserves the right to alter its products without notice. All trademarks in this material are property of the respective companies. Danfoss and Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.



Danfoss Inc.
Heating Division
6711 Mississauga Road, Suite 410
Mississauga, ON, L5N 2W3
Tel.: 905-285-2050, Fax: 905-285-2055
www.na.heating.danfoss.com

Danfoss Inc.
Heating Division
7941 Corporate Drive
Baltimore, MD 21236 USA
Tel.: 443-512-0266, Fax: 443-512-0270
www.na.heating.danfoss.com