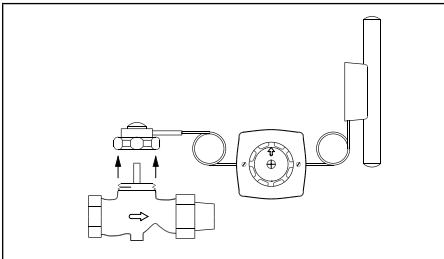


Instructions

013G8070

RA to RA2000 Operator Adapter

RA to RA 2000:



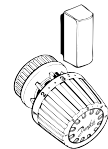

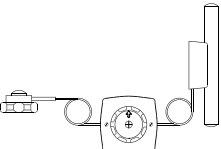
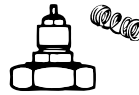
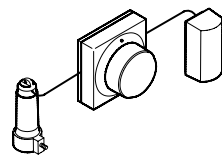
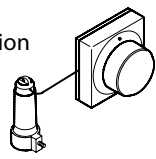


In order to use current RA 2000 operators on existing systems with Danfoss RA valves, the adapter 013G8070 must be installed to allow the new operator to fit onto the valve. The older Danfoss RA valve is distinguished by the large silver threaded nut that connects the operator to the valve.

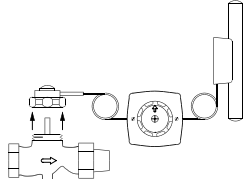
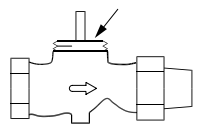
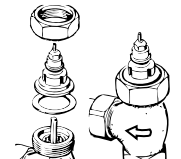
There are two versions of RA operators:

- a) Operator mounts directly on valve with remote bulb/sensor (not shown)
- b) Separate remote mounted operator and remote bulb/sensor (shown at left)

Crossover Replacement Operator Guide: RA to RA2000

| | | | | | |
|---|---|---|---|---|---|
|  | = |  | + |  |  |
| 013-7001: RA-6 013-7101: RA-6 (armored) | | 013G8070: Adapter | | 013G8252: Valve mounted dial with remote sensor | 013G2922: Tamper resistant valve mounted dial with remote sensor |
|  | = |  | + |  | Alternative option  |
| 013-7002: RA-33 013-7003: RA-36 013-7004: RA-66 | | 013G8070: Adapter & included grey spring | | 013G8564: Dual 6 ft. capillary, wall mounted dial with remote sensor | 013G8562, 013G8565, 013G8568: Single 6, 16, or 26 ft. capillary, wall mounted dial with sensor |

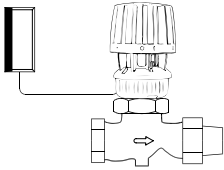
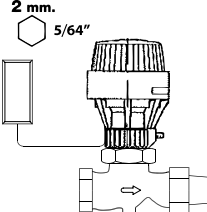
Installation:

| | |
|---|---|
|  | 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. |
|  | 2) Remove any existing gasket material from the face of the threads. |
|  | 3) Assemble the adapter (with included gasket) 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. |

013G8070 RA to RA2000 Operator Adapter

Installation Continued:

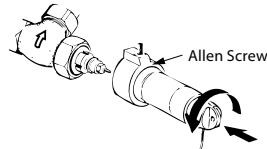
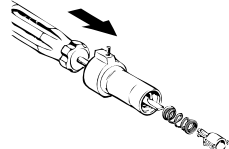

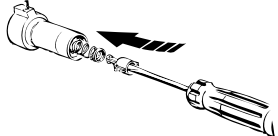
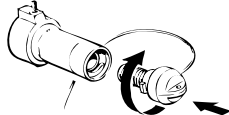
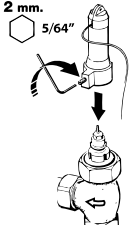
Valve Mounted Operators:

| | | | |
|---|---|---|---|
|  | <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>013G2922 For tamper resistant operators the Allen screw on the operator must be tightened to secure to the valve.</p> |
|---|---|---|---|

Installation - Wall Mount Operator:

Mounted operators 013G8564, 013G8562, 013G8565 and 013G8568 are factory configured for use with an RA 2000 valve. Included with the 013G8070 adapter kit is a loose grey spring that is required in the combination of these thermostatic operators and the RA adapter kit.

Installation of Grey Spring in Socket Body:

| | |
|---|--|
|  | <p>1) RA2000 Socket Body, 013G8564/ 013G8562/ 013G8565/ 013G8568 Remove bellows holder from RA 2000 socket body (Socket base has an Allen screw) by pushing the top in and turning counter clockwise.</p> |
|  | <p>2) With a screwdriver and pushing from the opposite side of the bellows holder, remove the spring from the RA2000 socket body. The removed black spring can be discarded.</p> |
|  | <p>3) Replace the removed black spring with the provided grey spring within the adapter kit by inserting it within the socket body. (The grey spring is stiffer than the one removed.)</p> |
|  | <p>4) Properly align the plastic holder to the socket body and with the screwdriver push in the plastic holder.</p> |
|  | <p>5) Reinstall the bellows holder by pushing all the way down and turning clockwise.</p> |
|  | <p>6) Fully seat the RA2000 socket body onto the RA adapter and tighten the socket body to the adapter with the Allen screw.</p> |

Installation Instructions:

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

Danfoss | Heating.danfoss.us | 1-888-DANFOSS (326-3677) | Choose option #3 for Heating

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.