V9055A,D Modulating Fluid Power Gas Valve Actuator

APPLICATION
The V9055 Gas Valve Actuator in combination with a V5055, VE5000a or V5097 Gas Valve provides modulating control of the gas supply to commercial and industrial burners.
aVE5000 is a European manufactured and approved valve for European use only.

FEATURES
- Actuator opens the valve to the low-fire position when energized. Actuator then modulates to meet firing rate controller (Series 90) demand.
- Actuator is equipped with an integral shaft that may be used to drive a combustion air damper in unison with the gas valve.
- The V5055 or V5097 Gas Valve includes a yellow SHUT indicator. The actuator includes a red OPEN indicator. The indicators provide constant visual indication of valve position.
- Actuator can be used with all VE5000a, V5055 or V5097 Valve models; however, the V5055B or V5097B with characterized guide is recommended for optimum control and low-fire repeatability.
- Ambient temperature range for 60 Hz models is -40°F to 125°F (-40°C to 53°C). Ambient temperature range for 50 Hz and 50/60 Hz models is -10°F to 125°F (-23°C to 52°C).
- Auxiliary 1/2 hp rated switch is available for field installation.
- Integral damper shaft provides a maximum of 20 lb (9 kg) of force.
- Valve and actuator may be mounted in any position.
- Model is available with NEMA 4 (IP54) weatherproof enclosure.
- V9055D/V5055C,E and V9055D/V5097C,E combinations available with proof-of-closure switch and two valve seals (valve seal overtravel interlock) to meet specific code/standard/insurer requirements.
- Field addable adapter available for 4-20 dc mA control of actuator.
- When replacing a V9034 Actuator with a V9055, the V5034 Valve body must also be replaced with a V5055 or V5097 Gas Valve.

NOTICE: Per Industry Standards, the actuator is required a conduit seal or a cable type that is sealed be installed in a device that can result in a flammable liquid flow through a conduit or cable to an electrical ignition source in the event of a seal leakage or diaphragm failure.
SPECIFICATIONS

Models:
V9055A: Modulating Fluid Power Gas Valve Actuator.
V9055D: Modulating Fluid Power Gas Valve Actuator with proof-of-closure switch.

Low-Fire Adjustment: 0.14 inch to 0.65 inch (with respect to V5055/V5097B Valve) valve stem travel. Refer to form 70-8311 for valve flow (capacity) curves.

Table 1. Pressure Ratings of Actuator-Valve Combinations.

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Size</th>
<th>STANDARD PRESSURE ACTUATORS V9055A, D</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3/4” to 1-1/2”c</td>
<td>5 PSI</td>
</tr>
<tr>
<td></td>
<td>2” to 3”d</td>
<td>5 PSI</td>
</tr>
<tr>
<td></td>
<td>4” flangeda</td>
<td>3 PSI</td>
</tr>
<tr>
<td>HIGH PRESSURE VALVES V5055D, E, V5097D, E</td>
<td></td>
<td>5 PSI</td>
</tr>
<tr>
<td></td>
<td>3/4” to 1-1/2”c</td>
<td>5 PSI</td>
</tr>
<tr>
<td></td>
<td>2” to 3”d</td>
<td>5 PSI</td>
</tr>
</tbody>
</table>

a Max Operating Pressure Differential (UL) or Max Operating Pressure (CSA); maximum allowable pressure drop from inlet to outlet for proper operation.

b Max rated pressure (UL) or Max Close-off Pressure (CSA); maximum pressure that the valve can be exposed to without leakage or damage to the valve.

c Applies for small-body V5097 valves 3/4” up to 2” pipe size.
d Applies for large-body V5097 valves 2” up to 3” pipe size.
ea V5055A, B, C only.

Table 2. Electrical Ratings.

<table>
<thead>
<tr>
<th>Voltage/ Frequency</th>
<th>Opening</th>
<th>Holding</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Watts</td>
<td>VA</td>
</tr>
<tr>
<td>120/60</td>
<td>60</td>
<td>122</td>
</tr>
<tr>
<td>100-50/60</td>
<td>57/46</td>
<td>100/81</td>
</tr>
<tr>
<td>220/50</td>
<td>68</td>
<td>141</td>
</tr>
<tr>
<td>240/50</td>
<td>88</td>
<td>194</td>
</tr>
</tbody>
</table>

Table 3. Auxiliary and Proof-of-Closure Switch Ratings: 1/2 hpa.

<table>
<thead>
<tr>
<th>Switch Ratings</th>
<th>120V</th>
<th>240V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Load</td>
<td>9.8A</td>
<td>4.9A</td>
</tr>
<tr>
<td>Locked Rotor</td>
<td>58.8A</td>
<td>29.4A</td>
</tr>
</tbody>
</table>

a Maximum total connected power to both switches (if used) is 1800 VA.

Opening Time:
50 Hz models: 32 seconds (nominal).
60 Hz models: 26 seconds (nominal).

Closing Time: 1 second (maximum)

ORDERING INFORMATION

When purchasing replacement and modernization products from your TRADELINE® wholesaler or distributor, refer to the TRADELINE® Catalog or price sheets for complete ordering number. If you have additional questions, need further information, or would like to comment on our products or services, please write or phone:

1. Your local Honeywell Environmental and Combustion Controls Sales Office (check white pages of your phone directory).
2. Honeywell Customer Care
   1885 Douglas Drive North
   Minneapolis, Minnesota 55422-4386

International Sales and Service Offices in all principal cities of the world. Manufacturing in Belgium, Canada, China, Czech Republic, Germany, Hungary, Italy, Mexico, Netherlands, United Kingdom, and United States.
Damper Arm Rating (damper drives one direction only):
Standard Models: 20 lb. maximum at 2-11/16 in. radius at 20°F to 125°F and 5 lb at -40°F to 20°F (9 kg maximum at 68 mm radius at -7°C to 66°C and 2.3 kg at -40°C to -7°C).
Model with Damper Shaft Return Spring: 10 lb maximum at 2-11/16 in. radius at 20°F to 125°F and 5 lb at -40°F to 20°F (4.5 kg at 68 mm radius at -7°C to 66°C and 2.3 kg at -40°C to -7°C).

Damper Shaft: Shaft is 3/8 in. (9.5 mm) for use with 7616BR Damper Arm. Models available with damper shaft return spring.

Ambient Temperature Rating:
-40°F to 125°F (-40°C to 52°C) for 60 Hz models, and -10°F to 125°F (-23°C to 52°C) for 50 Hz and 50/60 Hz models.

Mounting Means: Actuator attaches directly to valve with two setscrews. Valve and actuator can be mounted in any position.

Installation Dimensions: See Fig. 1.

Fig. 1. V9055/V5055 dimensions in inches. (mm).

NEMA 4 Enclosure: Model available.

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### V9055/A,D MODULATING FLUID POWER GAS VALVE ACTUATOR

<table>
<thead>
<tr>
<th>VALVE SIZE</th>
<th>DIM A (IN)</th>
<th>DIM B (IN)</th>
<th>DIM C (IN)</th>
<th>DIM D (IN)</th>
<th>DIM E (IN)</th>
<th>DIM F (IN)</th>
<th>DIM G OCTAGON</th>
</tr>
</thead>
<tbody>
<tr>
<td>INCH</td>
<td>MM</td>
<td>MM</td>
<td>MM</td>
<td>MM</td>
<td>MM</td>
<td>MM</td>
<td>INCH</td>
</tr>
<tr>
<td>3/4</td>
<td>282.6</td>
<td>2-3/4</td>
<td>69.9</td>
<td>8-3/16</td>
<td>208.0</td>
<td>5-3/4</td>
<td>146.1</td>
</tr>
<tr>
<td>1</td>
<td>282.6</td>
<td>2-3/4</td>
<td>69.9</td>
<td>8-3/16</td>
<td>208.0</td>
<td>5-3/4</td>
<td>146.1</td>
</tr>
<tr>
<td>1-1/4</td>
<td>282.6</td>
<td>2-3/4</td>
<td>69.9</td>
<td>8-3/16</td>
<td>208.0</td>
<td>5-3/4</td>
<td>146.1</td>
</tr>
<tr>
<td>1-1/2</td>
<td>282.6</td>
<td>2-3/4</td>
<td>69.9</td>
<td>8-3/16</td>
<td>208.0</td>
<td>5-3/4</td>
<td>146.1</td>
</tr>
<tr>
<td>2</td>
<td>285.8</td>
<td>2-7/8</td>
<td>75.0</td>
<td>8-5/16</td>
<td>211.1</td>
<td>8-3/8</td>
<td>212.7</td>
</tr>
<tr>
<td>2-1/2</td>
<td>298.5</td>
<td>3-3/8</td>
<td>85.7</td>
<td>8-13/16</td>
<td>223.8</td>
<td>9-1/4</td>
<td>235.0</td>
</tr>
<tr>
<td>3</td>
<td>299.5</td>
<td>3-3/8</td>
<td>85.7</td>
<td>8-13/16</td>
<td>223.8</td>
<td>9-1/4</td>
<td>235.0</td>
</tr>
<tr>
<td>4</td>
<td>308.8</td>
<td>5-13/16</td>
<td>147.6</td>
<td>11-7/32</td>
<td>285.0</td>
<td>12-1/2</td>
<td>317.5</td>
</tr>
</tbody>
</table>

NEMA 4 Enclosure: Model available.
**V9055A, D MODULATING FLUID POWER GAS VALVE ACTUATOR**

**Table 4. V9055/V5097 dimensions in inches. (mm)**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>mm</td>
</tr>
<tr>
<td>Small Body 3/4</td>
<td>11-1/8</td>
<td>282.6</td>
<td>2-3/4</td>
<td>69.9</td>
<td>8-3/16</td>
<td>208.0</td>
<td>5-5/8</td>
</tr>
<tr>
<td>1</td>
<td>11-1/8</td>
<td>282.6</td>
<td>2-3/4</td>
<td>69.9</td>
<td>8-3/16</td>
<td>208.0</td>
<td>5-5/8</td>
</tr>
<tr>
<td>1-1/4</td>
<td>11-1/8</td>
<td>282.6</td>
<td>2-3/4</td>
<td>69.9</td>
<td>8-3/16</td>
<td>208.0</td>
<td>5-5/8</td>
</tr>
<tr>
<td>1-1/2</td>
<td>11-1/8</td>
<td>282.6</td>
<td>2-3/4</td>
<td>69.9</td>
<td>8-3/16</td>
<td>208.0</td>
<td>5-5/8</td>
</tr>
<tr>
<td>2</td>
<td>11-1/8</td>
<td>282.6</td>
<td>2-7/8</td>
<td>73.0</td>
<td>8-3/16</td>
<td>208.0</td>
<td>5-5/8</td>
</tr>
<tr>
<td>Large Body</td>
<td>2</td>
<td>11-3/4</td>
<td>298.5</td>
<td>3-3/8</td>
<td>85.7</td>
<td>8-3/8</td>
<td>212.7</td>
</tr>
<tr>
<td>2-1/2</td>
<td>11-3/4</td>
<td>298.5</td>
<td>3-3/8</td>
<td>85.7</td>
<td>8-3/8</td>
<td>212.7</td>
<td>9-7/16</td>
</tr>
<tr>
<td>3</td>
<td>11-3/4</td>
<td>298.5</td>
<td>3-3/8</td>
<td>85.7</td>
<td>8-3/8</td>
<td>212.7</td>
<td>9-7/16</td>
</tr>
</tbody>
</table>

<sup>a</sup> Valve size using accessory pipe adapter fitting.

<sup>b</sup> Without flanges.

**Approvals:**
Underwriters Laboratories Inc. Listed: File No. MH1639, Guide No. YI0Z.
Factory Mutual Listed: Report Nos. 20835 and 24061
Canadian Standards Association certified: General Listed file numbers 158158 Class 3371
For U.S.A. and Canada: certified 60 Hz models only.
Swiss Re (Formerly GeGap/IRI) Acceptable.

**Accessories:**
- 133568 Auxiliary Switch.
- 7616BR Crank Arm.
- 133569 Proof-of-closure Switch Bag Assembly. Must be used with V5055C or E.
- 203422C Adapter Board—Used to control V9055 Actuator with 4-20 dc mA input.

**INSTALLATION**

**WARNING**

Electrical Shock Hazard.

Can cause serious injury, death or equipment damage.
1. Disconnect power before connecting wiring.
2. Assure that wiring complies with applicable electrical codes and ordinances.
3. Be sure that power supply is the same as that stamped on the nameplate of the device.
4. Be sure only a trained, experienced, flame safeguard control serviceman installs or services this device.
5. Assure that loads connected to the auxiliary switch, if used, do not exceed the ratings given in the Specifications section.

**NOTICE:** Per Industry Standards, the actuator is required a conduit seal or a cable type that is sealed be installed in a device that can result in a flammable liquid flow through a conduit or cable to an electrical ignition source in the event of a seal leakage or diaphragm failure.

**IMPORTANT:**

1. Do not attempt to use the V9055 with one of the adapters that connects the V4055 Actuator to the older V5034 Valves. The V9055 cannot be used with a V5034 Valve. When replacing a V9034 Actuator with a V9055, the V5034 Valve must be replaced with a V5055/V5097 Gas Valve.
2. Connect terminals R, W, and B only to Series 90 proportioning controller. Do not apply any voltage to these terminals.
3. Avoid mounting actuator upside down if water is likely to drip on it. In this position, water can become trapped in the electronics compartment.

**When Installing This Product...**

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instruction and on the product to make sure the product is suitable for your application.
3. Installer must be a trained, experienced service technician.
4. After installation is complete check product operation as provided in these instructions.

**Valve Installation**

The actuator is mounted directly on the V5055/V5097 Valve after the valve is installed in the gas supply line. Refer to the instructions packed with the V5055/V5097 Valve for details of installation. When installing the valve, be sure that:

1. Sufficient clearance is left for installation and service of the actuator.
2. Ambient temperatures at the valve location will remain within the rated ambient range.
3. The position of the valve permits hookup to the damper if one is controlled.

**IMPORTANT:**

When a damper crank arm is used with a NEMA 4 actuator that is exposed to ice or sleet, a suitable shield must be installed to prevent ice or sleet buildup.
Install Accessory Switches (If Needed)

An spdt switch may be installed to operate an auxiliary load of up to 1/2 hp. The switch may be adjusted to operate at any point in the valve stroke. A proof-of-closure switch may also be installed. The proof-of-closure switch must be used with the V5055 C,E/V5097C,E (two seals) Valve to provide valve seal overtravel interlock.

The spdt proof-of-closure switch is installed to make or break a circuit when the valve is in the closed position. The switch is not adjustable.

**NOTE:** Mark the actuator or valve to indicate any changes made.

To install the switches, proceed as follows:

1. Remove the actuator faceplate (two screws).
2. Remove the silver-colored barrier to expose the actuator stem.
3. Insert the auxiliary switch in the position indicated in Fig. 3. Fasten with two screws through the actuator base.
4. Insert the proof-of-closure switch in the position shown in Fig. 3. The proof-of-closure switch mounts against the side of the actuator housing. The mounting holes are spaced to mount the switch only in the correct position. Fasten with two screws through the actuator base.
5. If only one switch is used, install the narrow barrier included with the switch in the unused space.
6. Mount the actuator before making wiring connections and adjustments to the switch.

Mount and Adjust Damper Crank Arm

**IMPORTANT:** When a damper crank arm is used with a NEMA 4 actuator that is exposed to ice or sleet, a suitable shield must be installed to prevent ice or sleet buildup.

The crank arm provides a maximum travel of 2-5/16 in. (59 mm). For complete installation information, refer to the instructions packed with the 7616BR Crank Arm.

**WARNING**

Electrical Shock Hazard. Can cause serious injury, death or equipment damage. To prevent electrical shock or equipment damage disconnect power supply before wiring.

All wiring must agree with applicable electrical codes and ordinances.

Connect power supply to terminals 1 and 2 on the terminal strip. Do not make any connections to the unmarked terminals shown in Fig. 3.

**NOTE:** When replacing a V9034, remove the 24 volt transformer because V9055 has a built-in transformer. When replacing a V9034 Actuator with a V9055, replace the V5034 Gas Valve with a V5055/V5097 Valve shown in Fig. 3.

**NOTICE:** Per Industry Standards, the actuator is required a conduit seal or a cable type that is sealed be installed in a device that can result in a flammable liquid flow through a conduit or cable to an electrical ignition source in the event of a seal leakage or diaphragm failure.
V9055A,D MODULATING FLUID POWER GAS VALVE ACTUATOR

Fig. 4. Wiring for V9055 Modulating Gas Valve Actuator.

Fig. 5. Hookup of V9055 for firing rate control with a 4-20 mA input.

203422C—V9055 Adapter (For 4-20 mA Input) Installation

The 203422C Adapter Board allows the V9055 Modulating Fluid Power Gas Valve Actuator to be controlled with a 4-20 dc mA input. The adapter mounts in the wiring compartment and provides screw terminals for field wiring.

1. Remove the screws from terminals R,B and W on the V9055 Actuator.
2. Position the adapter board to the R, B and W terminals and install and tighten three screws (four screws provided in bag assembly) to the R, B, and W terminals.
3. Connect field wiring from 4-20 mA controller to the + and - terminals on the 203422C adapter board. Be sure to observe polarity.

CAUTION
Equipment Damage Hazard.
Incorrect wiring can damage the controller or adapter board. Be sure to observe polarity from the controller to the 203422C Adapter Board.

Adjust the Auxiliary Switch (if used)

The auxiliary switch is adjustable throughout the stroke of the actuator. With the switch installed in the actuator, turn the adjusting screw (Fig. 3) clockwise (→) to cause the switch to operate earlier in the stroke and counterclockwise (←) to operate later in the stroke.
OPERATION

To function as intended, the V9055 must be connected to a properly sized valve. The proper sized V5055/V5097B Gas Valve with characterized guide is recommended for optimum control and low-fire repeatability. Too large of a valve will not properly modulate the gas flow. When the actuator is energized, it will drive at least to the adjusted low-fire position. The distance it will open beyond this low-fire position depends on the demands of the modulating controller.

When the controller calls for no heat, the actuator will modulate the valve to the low-fire position. When power to the actuator is interrupted, the valve will completely close.

Fig. 6 shows the V9055 in a typical flame safeguard control system.

CHECKOUT AND SERVICE

Checkout

**IMPORTANT**

Only a trained, experienced flame safeguard control technician should service or repair this control.

After the valve installation is complete, cycle the valve a few times with the manual fuel shutoff cock closed before testing the system in actual operation.

Service

The actuator is not field repairable except for replacing the auxiliary switch. See Install Accessory Switches section for the procedure.

Do not disassemble the valve actuator. Perform the following checks before removing and replacing the V9055 Gas Valve Actuator.

1. With manual gas valve closed, energize the V9055 and check for voltage on terminals 1 and 2. Actuator should modulate to the low-fire position.

**CAUTION**

Equipment Damage Hazard.
Improper wiring can damage the equipment and cause injury to personnel.
Label all wires prior to disconnection when servicing valves. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

2. Disconnect the leads from the modulating controller (terminals W, R, and B). Connect a manual potentiometer, color-to-color, to terminals W, R, and B on the actuator. With the valve energized, use the potentiometer to open and close the actuator. It should run from the low-fire position and to the fully open position.

If the actuator fails to operate properly, replace it:

1. Turn off the gas supply at the manual shutoff valve located upstream from the valve(s) being serviced.
2. Shut off all electrical power to the valve actuator(s).
3. Mark and disconnect the wires from the actuator terminals. Remove conduit and disengage the damper linkage assembly (if applicable).
4. Loosen the two set screws from the valve to lift off the actuator.
5. If the actuator is to be replaced and it did not leak hydraulic fluid, skip to Step 11.

**NOTE:** It is good practice to inspect the inside of the valve whenever the actuator is replaced. To do so, remove the bonnet assembly, inspect the valve and bonnet. If all is well, proceed to Step 7.

6. If the actuator leaked hydraulic fluid onto the valve (the fluid is red), it must be cleaned off from the valve and bonnet assembly.
   a. Wipe off the outer valve body.
   b. Remove the valve bonnet bolts and lift off the bonnet.

**NOTE:** V5055/V5097C and E Valves have additional internal springs that will push the bonnet up as the bolts are loosened.

   c. Inspect the inside of the valve.

**IMPORTANT**

If fluid is present on the inside surfaces of the valve body or bonnet surfaces, the bonnet assembly or entire valve must be replaced. See Table 5 below for the bonnet assembly part number.

   d. If the inside surfaces are clear of hydraulic fluid, clean the bonnet assembly and be sure to remove all hydraulic fluid from the inside and outside of the actuator mounting curb. This is the “cup-like” area around the valve stem. Avoid using a cleaning solution as it may damage the rubber seals used in the valve.
7. If the valve bonnet assembly is in good condition and is not replaced, replace the bonnet seal. Do not reuse the old bonnet seal. See Table 6 below for the seal number.

8. Coat seals with grease provided and position in valve body/bonnet assembly.

9. Carefully seat the bonnet assembly on the valve body. Be sure the seals are in their proper position. On those valves with a spring below the disc, be sure the spring is centered in the indentation on the inside of the valve body.

10. After positioning the bonnet assembly, replace the screws removed earlier.

NOTE: When replacing the bonnet assembly on the 4-inch valve, draw it evenly into the valve body. Finger-tighten the eight bolts. Draw the bonnet assembly into the valve by tightening, in order, bolts 1, 5, 7 and 3 (two turns each). Repeat until the bonnet assembly is seated. Tighten the remaining bolts. Torque the bolts as follows:

<table>
<thead>
<tr>
<th>Valve Size</th>
<th>Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4 in. (19 mm) to 1-1/2 in. (38 mm)</td>
<td>55 in.-lb.</td>
</tr>
<tr>
<td>2 in. (51 mm) to 4 in. (102 mm)</td>
<td>75 in.-lb.</td>
</tr>
</tbody>
</table>

11. Remount the actuator on the bonnet assembly. Tighten the two set screws (50-60 inch pounds).

12. Replace the damper crank arm assembly.

13. Re-attach the wires removed from the actuator terminals and turn on the electrical power.

14. With the gas still off, cycle the actuator to check for proper mechanical operation.

**CAUTION**

Be sure to perform a bonnet seal and seat leak check after installation.

Be sure to read and follow all instructions that come with the actuators, valves, seal and bonnet kits.

### Table 5. Replacement Bonnets for V5055/V5097 Gas Valves.

<table>
<thead>
<tr>
<th>Replacement Bonnet**</th>
<th>Valve</th>
<th>Valve Size (in inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>133398AA V5055A</td>
<td>V5097A</td>
<td>3/4, 1, 1-1/4, 1-1/2</td>
</tr>
<tr>
<td>133417AA</td>
<td>(On-Off)</td>
<td>2, 2-1/2, 3</td>
</tr>
<tr>
<td>Not Available</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>133398BA V5055B</td>
<td>V5097B</td>
<td>3/4, 1, 1-1/4, 1-1/2</td>
</tr>
<tr>
<td>133417BA</td>
<td></td>
<td>2, 2-1/2, 3</td>
</tr>
<tr>
<td>Not Available</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>133398CA V5055C</td>
<td>V5097C</td>
<td>3/4, 1, 1-1/4, 1-1/2</td>
</tr>
<tr>
<td>133417CA</td>
<td></td>
<td>2, 2-1/2, 3</td>
</tr>
<tr>
<td>136911CA (Proof of Closure)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Not Available V5055D</td>
<td>V5097D</td>
<td>3/4, 1, 1-1/4, 1-1/2</td>
</tr>
<tr>
<td>Not Available</td>
<td></td>
<td>2, 2-1/2, 3</td>
</tr>
<tr>
<td>136308BA V5055E</td>
<td>V5097E</td>
<td>3/4, 1, 1-1/4, 1-1/2</td>
</tr>
<tr>
<td>Not Available</td>
<td></td>
<td>2, 2-1/2, 3</td>
</tr>
</tbody>
</table>

**Each replacement assembly contains the bonnet assembly, two rubber seals, and a tube of grease. It must be used only on the type of valve indicated above.

### Table 6. Gas Valve Replacement Seals.

<table>
<thead>
<tr>
<th>Replacement Seal Assy #</th>
<th>Valve Size (in inches.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>133393A</td>
<td>3/4, 1, 1-1/4, 1-1/2</td>
</tr>
<tr>
<td>133392A</td>
<td>2, 2-1/2, 3</td>
</tr>
<tr>
<td>137253A</td>
<td>4</td>
</tr>
</tbody>
</table>