ASCO™ Series 158 and 159
Motorized Gas Safety Shut-off Valve and Actuator

Applications
- Boilers/Burners
- Ovens/Furnaces/Kilns
- Thermal Oxidizers/Incinerators
- HVAC Equipment
- Gas Generators

Features & Benefits
Meeting stringent approvals
- Meets UL 429, CSA 6.5 C/I, and FM 7400 RoHS, and EN161 Class A

High flow rates & low pressure drop
- Highest flow/heat output ratings in the industry
- Reduced pressure drop across all valve sizes

Increased reliability
- Integral valve strainer decreases downtime by 20%
- High close-off pressure of 75 psi (5 bar) mitigates damage to fuel train and field instrumentation
- Watertight optional enclosure allows safety and reliability even in outdoors installations

Low ambient operating temperature range
- New valves can be installed in frigid environments (as low as -40 °F/°C locations)

Compact footprint and modular design
- Compact valve design and monoblock option significantly reduces fuel train length—this will reduce the spatial footprint and make it suitable for space restrictive and retrofit applications
- Modular design allows customers the flexibility to configure gas trains to fit their exact needs
- Various options are available (visual indication, proof of closure, seal type, enclosure integrity and others)
- Flexible field mounting—multipoise design allows customers to install our valves in many orientations
- Offered with NPT/ISO vent port and testing pipe taps

Reduce cost of ownership—installation time and effort
- Customers can utilize flange adapters to simplify mounting (no pipe unions required)
- End connections simplify valve removal
- Increase labor savings by 50% - only 1 person is needed to install
- Up to 25% less weight than competitors

Specifications

<table>
<thead>
<tr>
<th>Product Family</th>
<th>Pipe Sizes (in mm)</th>
<th>Flow Factor Cv (Kv)</th>
<th>Heating Capacity Million BTU/hr (kW/hr)</th>
<th>Maximum Operating Pressure Differential psi (bar)</th>
<th>Ambient Temp. °F (°C)</th>
<th>Voltage (Volts/Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>158 Single Valve with 159 On-Off or High/Low/Off Actuators*</td>
<td>⅜” - 3” (20mm - 80mm)</td>
<td>18.2-145.8 (15.7-126.1)</td>
<td>1.0 to 7.8 (285 to 2,292)</td>
<td>20 (1.4)</td>
<td>-40 to 150 (-40 to 66)</td>
<td>120/60, 110/50</td>
</tr>
<tr>
<td>158 Monoblock with 159 On-Off or High/Low/Off Actuators*</td>
<td>⅜” - 3” (20mm - 80mm)</td>
<td>17.4-112.9 (15.0-97.6)</td>
<td>0.9 to 6.1 (273 to 1,775)</td>
<td>20 (1.4)</td>
<td>-40 to 150 (-40 to 66)</td>
<td>120/60, 110/50</td>
</tr>
</tbody>
</table>

*The High/Low/Off Actuator shall be used with a Series V710B or 158 with linear trim, therefore flow rate is slightly different if a High/Low/Off Actuator is used.

Enclosure
- Type 1 & IP20, Type 4 & IP65

Agency Approvals
- UL 429
- CSA C22.2 No 139
- ANSI Z21.21/ CSA 6.5 C/I
- FM 7400
- EN161 Class A

Other
- RoHS

For more information:
Emerson.com/Combustion