

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

Product Family	Pipe Sizes in (mm)	Flow Factor Cv (Kv)	Heating Capacity Million BTU/hr (kW/hr)	Maximum Operating Pressure Differential psi (bar)	Ambient Temp. °F (°C)	Voltage (Volts/Hz)
158 Single Valve with 159 On-Off or High/Low/Off Actuators*	¾" - 3" (20mm - 80mm)	18.2-145.8 (15.7-126.1)	1.0 to 7.8 (285 to 2,292)	20 (1.4)	-40 to 150 (-40 to 66)	120/60, 110/50 240/60, 230/50
158 Monoblock with 159 On-Off or High/Low/Off Actuators*	¾" - 3" (20mm - 80mm)	17.4-112.9 (15.0-97.6)	0.9 to 6.1 (273 to 1,775)	20 (1.4)	-40 to 150 (-40 to 66)	120/60, 110/50 240/60, 230/50

*The High/Low/Off Actuator shall be used with a Series V7108 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

ASCO™