

SCC Inc.



[www.scccombustion.com](http://www.scccombustion.com)

# Siemens Combustion Control Solutions

Combustion Controls



*World-class system,  
support and  
performance*

Siemens, the worldwide leader in combustion controls, delivers globally approved products specifically designed to optimize process performance, minimize costs, simplify installation, and above all ensure safe operation. From stand-alone controls and end devices to total combustion control solutions, depend on the Siemens reputation for safety, quality, and performance.

#### **Exceeding expectations to ensure satisfaction**

Questions need answers immediately. At SCC, the dedicated technical support team responds quickly and thoroughly. World-class support extends beyond the initial sale, beyond installation and beyond commissioning. Complete satisfaction is the objective.

Email: [techsupport@scccombustion.com](mailto:techsupport@scccombustion.com)  
Phone: 877-891-1605



#### **Why choose Siemens combustion controls?**

- Global product portfolio
- Worldwide safety approvals
- Inventory for immediate delivery
- Applications expertise
- World-class technical support

Siemens SKP actuators combine with Siemens VG valve bodies to provide gas safety shutoff, pressure regulation and air/gas ratio control. Easy to assemble and install, Siemens gas valves offer outstanding performance in a compact package.

**SKP15 Actuator**

- Safety shutoff operation
- Proof-of-Closure (POC) switch to ensure safety
- Modular design and quick connect wire terminals
- Extremely low 13.5 VA power consumption
- Power on indication LED
- Visual position indication (VPI)



**SKP25 Actuator**

- All of the SKP15 features plus...
- Pressure regulation to 20 PSI
- Accurate pressure control with zero droop
- Applicable as a 1:1 ratio regulator or zero governor



**SKP55 Actuator**

- On/off/ratio control
- Double diaphragm ratio regulator
- Compensates for variance in combustion chamber pressure
- Ideal for applications with preheated combustion air



**VG Valve Bodies**

- 1/2" – 3" threaded single valves
- 1" – 3" threaded double valves
- 2 1/2" – 6" flanged double valves
- 1 1/2" – 6" bio gas double valves



*Faster installation,  
safer operation and  
proven reliability*

From the ultra-precise, linear flow control found in the VKP proportional control valve to the extremely repeatable, cost effective VKG/ VKF butterfly valves; VK... valves provide the control required in combustion applications.

### VKF Wafer Butterfly Valve

- 1 1/4" – 8" sizes
- Full and reduced port
- Compatible with ANSI or DN flanges



### VKP Linear Control Valve

- Profiled cylinder provides linear change in flow across angular rotation
- 1/2" – 2" sizes
- Separate NPT flanges allow mounting flexibility
- Direct connection to a VGD20 shut-off valve
- SQM33/40/45 actuator mounts directly to valve



*Improved process control performance thanks to extreme accuracy and repeatability.*

### VKG/VRG Butterfly Valve

- Full, medium and reduced port versions
- 1/2" – 4" NPT; UL approved
- 1/2" – 3" Rp; CE approved
- Up to 25 psi pressure ratings
- Cycle tested and certified from -40 to 160°F
- Manual adjustment versions
- Clear position indication
- Limiting orifice valve models
- VRG... for bio gas applications



Siemens SQM actuators deliver precise control and multiple user-friendly features. Available as stand-alone actuators or assembled to control valves; SQM actuators are the best solution for precise flow control applications.

#### SQM5 Actuator

- 24, 110 or 220 Vac
- 4-20mA, 2-10Vdc, 0-135Ω input signals
- 90 – 400 in-lbs
- Auto/Manual toggle switch
- Six adjustable position switches
- Zero & span adjustment



#### VA Valve-Actuator assemblies

- Factory assembled
- Zero hysteresis
- No linkage to slip or break
- Positive shaft connections
- Visual position indication
- Precise flow control



#### SQM4 Synchro Actuator

- 110 or 220 Vac versions available
- 4-20mA, 2-10Vdc, 0-135Ω options
- 45 – 160 in-lbs.
- NEMA 4 enclosure
- High resolution
- Up to three adjustable switches
- Zero & span adjustment



*The only thing more exceptional than the control & capability is the value!*

Siemens offers the most complete, globally approved portfolio of burner controllers. From the LME7 programmable flame safeguard to the LMV3 and LMV5 parallel-positioning burner controls, Siemens covers a broad range of applications.

### LME7 Burner Control

- Global approvals
- UV and flame rod inputs
- Self-check UV scanner optional
- Programmable purge, safety, and pilot operation timing
- Integral display with optional remote display
- Proof of closure (POC) switch monitoring
- Gas valve leak test on startup, shutdown, both or neither
- PC software available for configuring, trending and troubleshooting
- Modbus communications

### LMV3 Linkageless Burner Management System

- Single and dual fuel versions
- Simplified commissioning, programming and installation
- Independent positions for purge, ignition & post-purge
- Programmable stops to pause the startup sequence in pre-purge, pre-ignition, and post-purge
- Adjustable purge timing up to 60 minutes
- Proof of closure (POC) switch monitoring
- Gas valve leak test on startup, shutdown, both or neither
- PWM and VFD blower speed control



*Safe, simple & efficient.  
Increase system performance.  
Decrease troubleshooting.*

### LMV5 Linkageless Burner Management System

- Integrated linkageless control, burner flame safeguard and modulation PID control
- Single and dual fuel applications
- Integrated PID Temperature/Pressure Controller
- Up to 15 programmable points for each fuel-air ratio curve
- 900 highly repeatable actuator positions for precise control
- VFD and O2 trim options
- Actuators available from 27 to 550 in.-lbs.



*From a total combustion control system to individual components, Siemens Combustion Controls has you covered!*

### QP pressure switches

- Manual or automatic reset versions
- NEMA 3R option
- Low hysteresis of switching point
- Surge protected to 15 psi



### Factory assembled gas trains

- Factory leak tested
- Pre-wire to junction box optional



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