

Johnson   
Controls

**2019**  
**CATALOGS**  
**PRODUCT**



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Blok C-35

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**“Continually exceed  
our customers  
increasing expectations”**

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## ABOUT JOHNSON CONTROLS



The future is being built today, and Johnson Controls is making that future more productive, more secure and more sustainable. We create intelligent buildings, efficient energy solutions and integrated infrastructure that work seamlessly together to deliver on the promise of smart cities and communities. At its core, that promise is about delivering innovation that make people's lives-and the world- better.

Johnson Controls is a global diversified technology and multi industrial leader serving a wide range of customers in more than 150 countries. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat. We are comitted to helping our customers win everywhere, every day, and creating greater value for all of our stakeholders through our strategic focus on buildings.

Explore our site to learn how our innovative solutions are driving the future of urban efficiency



# THERMOSTATS



## T-5000

### FEATURES :

- Industrial Standard Graphic Symbol to eliminate native language interface
- Easy-to-use Interface Keys allow for easy commissioning and adjustment
- Quick replacement to reduce to downtime of service maintenance
- Attractively-Style Twin-Ring Streamline ABS plastic cover and base



## T-2000EAC

### FEATURES :

- Provides steady, consistent control without large temperature swings
- Saves time, reduce commissioning costs
- Break all circuits with one switch
- Allow easy installation



## T-6000

### FEATURES :

- All-in-one location function keys allow for easy commissioning and adjustment
- Features with unoccupied function
- All-in-one location function keys, simplified user to change the setpoint and parameter
- Quick replacement to reduce to downtime of service maintenance



## T-2000HHC

### FEATURES :

- Avoid leveling and vibration problems
- Allow unit to be calibrated, sets adjustment limits to extreme range
- Provides durability in commercial environment
- Ensures repeatability



## T-7000

### FEATURES :

- LCD is larger than 40% in front area, provide real-time status of the environment with intuitive and clear user interface
- New method without opening T7200 cover during installation, avoids the risk of components damage by screwdriver
- User can change working mode, temperature set point and fan speed via push buttons, easy for operation



## T-8000

### FEATURES :

- Capacitance touch screen enhances the fluency on operation
- Requires no batteries; EEPROM retains the last events and parameter settings after a loss of power
- Offer Easy-to-read Real-time control status of the environment, graphical messages with constant backlight that brightens during user interaction

# FCU VALVES & ACTUATORS



## VG-4000

### FEATURES :

- Forged brass body and stainless steel stem and spring
- Easy, field-replaceable packing
- EPT rubber plug for bubble-tight shutoff
- Ideal for zone, VAV reheat coil, Fan Coil and Baseboard Radiation applications
- Actuator can be field installed after piping
- Built-in return spring for VA-7010 series electric actuator



## VA-7482

### FEATURES :

- Low and line voltage
- Floating and proportional control
- Voltage and current analog input
- Different actuator speed
- Double color LED
- Removable cable
- Different cable length available as separate kit
- Auto Stroke Detection



## VLC-2000

### FEATURES :

- Valve & actuator integrated
- DN15-25, 2-way/3-way
- Forged brass body and stainless steel stem and spring
- Spring return from actuator
- Pipe connect ISO7/1 (Female BSPP)



## VP-140

### FEATURES :

- Availability of both axial (globe) and rotary (ball) valve styles
- No Cv calculation
- Automatic system balancing
- Combined control and balancing valve
- Close-off pressure rating - axial valve 100psi (700Kpa) and rotary valve 200psi (1400Kpa)
- Wide range of operating differential pressure rating
- Availability of factory-mounted Electric Actuators

# AHU VALVES



## VG-7000

### FEATURES :

- Direct couple - no linkage required
- Magnetic clutch - protects gearing
- Control - hot water, chilled water, glycol solutions and steam
- Meets requirements of ASME B16.15 class 250
- Long life replaceable ring packing provide highest reliability and longest life
- Fluid temperature range -35 to 284 degree Fahrenheit (2 to 140 degree Celcius)
- Maximum steam pressure -38 psig saturated steam



## VGA-8000

### FEATURES :

- Dn15 to Dn250 available
- Kvs 0.63 to 700 m3/h
- High-grade ductile iron QT450-10 for valve body
- Standard flange connection of ISO7005-2
- Fitted with VAP-B, VAF series actuator with various  $\Delta P$  available for different application



## VF-6000

### FEATURES :

- Reliable sealing, less torque, long service life
- Broadside and arc design, suitable for various types of flanges
- Automatic switching, more convenient and reliable
- Prevention of lower shaft disengaging from body due to frequent vibration
- Over-torque protection, anti-condensation heater (VA300)
- High trasmission torque, self-locking (VA300)



## ACTUATOR

### FEATURES :

- Modulating control models (VAP-B) and floating control models (VAF-B)
- Rated force of 500N/1000N/1800N/3000N
- Operating voltage for VAP-B is 24VAC  
VAF-B is either 24VAC or 220 VAC
- Direct mounting on valve body
- Position feedback signal of 0 (2) V~10VDC or 0 (4)~20mA (VAP-B only)
- Self adapting function, automatic detection of max. stroke (VAP-B only)
- CE certified actuator



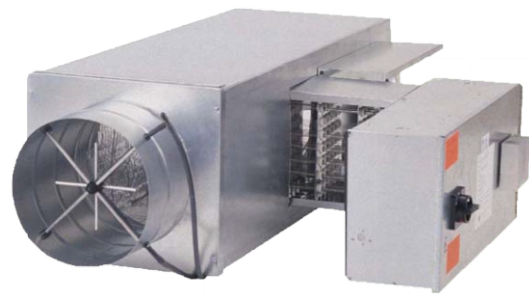
# VAV BOX & DDC CONTROLLERS



## SINGLE DUCT TSL

### FEATURES :

- Rectangular inlet collar
- Low leakage damper incorporates closed cell foam gasket
- Fiberglass insulation complying with Bs476 Standard
- Slip and drive discharge collar for quick field installation
- Mechanically fastened insulation for added security
- Mechanical lock construction ensures lowest possible casing leakage



## SINGLE DUCT TSS

### FEATURES :

- Solid composite damper shaft prevents condensation and breakage
- Self-lubricating bearing to reduce friction and air leakage
- Convenience installation
- Insulation edge covered by metal-no raw edges of insulation exposed to airstream
- Roll formed inlet collar with integral stiffening ribs adds strength and rigidity



## CONTROLLER

### FEATURES :

- Bluetooth Wireless Commissioning interface- Provides an easy- to-use connection to the configuration and commissioning tool
- Optional local user interface display - allows convenient monitoring and adjusting capabilities the local device
- 32-bit microprocessor ensures optimum performance and meets industry specifications.
- Pluggable communications bus and supply power terminal blocks expedite installation and troubleshooting
- Integral End-of-Line (EOL) switch enables field controller as a terminating device on the communication bus



## SENSOR

### FEATURES :

- Modulating control models (VAP-B) and floating control models (VAF-B)
- Rated force of 500N/1000N/1800N/3000N
- Operating voltage for VAP-B is 24VAC  
VAF-B is either 24VAC or 220 VAC
- Direct mounting on valve body
- Position feedback signal of 0 (2) V~10VDC or 0 (4)~20mA (VAP-B only)
- Self adapting function, automatic detection of max. stroke (VAP-B only)
- CE certified actuator

# FIELD DEVICES



## P-233-AC

### FEATURES :

- One switch to measure relative pressure, vacuum or differential pressure
- Various accessories available
- Compact and durable construction
- Easy mounting and wiring, various mounting possibilities
- Standard PG11 nipple and optional DIN 43650 connector
- Accurate and stable switch point



## GDP 1000

### FEATURES :

- Adjustable duct probe depth
- Support for DCV
- Single-beam dual-wave length NDIR Co2 sensor
- Models include Co2 and Co2 + temperature outputs
- 0 to 10 V or passive temperature outputs
- Factory calibration certificate



## TM-3100

### FEATURES :

- Modern and attractive cover which snaps onto a plug-in mounting base
- Terminals located on mounting base
- All models available



## FS-80-C

### FEATURES :

- Permits use in a wide range of pressure flow conditions
- Allows from 1 in. to 6 in. pipe application
- Allows user select the setting according the needs of system
- Allows use in indoor or outdoor applications



## F62 (FLOW SWITCH)

### FEATURES :

- Polycarbonate IP43 enclosure
- Range screw easily accessible
- Large wiring space



## TE-6300

### FEATURES :

- Allow you to lock the sensor holder into the conduit box
- Supports all your temperature sensing needs from a single supplier, wall-mount, outdoor-air, duct-averaging, strap-mount, well-insertion, and flange-mount duct-probe
- Increase sensor connection strength, which eliminates the need for a special adaptor

# DAMPER ACTUATORS



M-9220

## FEATURES :

- Reversible mounting design-simplifies installation and enables the actuator to spring return in either direction
- Electronic stall detection throughout entire rotation range
- Removable Coupler-adapts to a shorter damper shaft
- Integral 48 in. (1.2 m) Halogen-Free cables with colored and numbered conductors
- Integral Auxiliary Switches (xxC Models)
- Accurate and stable switch point
- Easy-to-use locking manual override with auto release and crank storage
- Integral connectors for 3/8 in. Flexible Metal Conduit



M-9100

## FEATURES :

- Simple direct coupling reduces installation and commissioning time while improving reliability by eliminating damper linkages
- Four control inputs meet the needs of most applications
- Output position feedback provides simple closed-loop control with accurate position sensing
- Master/slave operation allows synchronized control for two actuators
- Jumper-selectable rotation direction and manual gear release simplify installation, setup, and field adjustments
- Manual gear release simplifies damper/valve setup and commissioning
- NPT threaded housing provides easy connection for electrical fittings
- Zero and span adjustment (-Hgx models) allows sequential operation of dampers from a single input signal of DC 0(2) to 10 V, DC 0(4) to 20 V, or DC 0(4) to 20 mA



M-9310

## FEATURES :

- Automatic signal input detection model; ON/OFF; floating and proportional
- High speed actuator model
- Optional auxiliary switch and potentiometer feedback
- 8, 10, 20 and 35 Nm rated torque
- Self-calibrating to adjust stroke
- Electronic stall detection
- Microprocessor-controlled brushless DC motor