

Superior Pressure Control in CO₂ Extraction

Emerson Products Ensure Greater Extract Yields

SOLUTION



Emerson offers solutions that deliver superior temperature and pressure control during the CO₂ extraction process.

Field Results

- Emerson custom designed systems reduced required servicing and simplified maintenance
- Improved customer extract quality with precise pressure control on CO₂ flash-off
- Increased oil extraction yields
- Enhanced extraction purity through superior pressure control

Applications

- Fish oil extract
- Decaffeinated coffee
- Essential oils
- Hemp

TESCOM™


EMERSON™

CONSIDER IT SOLVED™

Looking for high-precision pressure solutions to improve the oil extraction process, optimize yields, and increase machine uptime?

Emerson offers a complete solution with superior pressure control and maximal extract yields through our full array of product offerings.

Product Selection



AVENTICS Series G3 and 580

- The modular design of the valve systems and high-performance valves help to reduce overall footprint and equipment costs
- Simplified commissioning, installation, and integration
- Analog and digital I/O capabilities



TESCOM VA/VG Series Valve

- For gas and liquid applications, available in normally-open and normally-closed configurations
- Operating pressures of 6,000, 10,000 and 15,000 psig (414-1034 bar)
- High cycle life reliability
- Optional integrated solenoid valve



ASCO Series 210 and 262

- General service direct acting solenoid valves
- Wide range of pressure ratings, sizes and resilient materials provide long life and low internal leakage
- High flow valves for liquid, corrosive, and air/inert gas service



TESCOM 26-1700 Series Regulator

- Backpressure regulator that controls pressures up to 15,000 psig / 1034 bar
- Accuracy within $\pm 1\%$ of central pressure range
- Flow ranges available from $C_v = 0.02$ to $C_v = 0.60$
- Suitable for gas or liquid applications



TESCOM ER5000 Electropneumatic Controller

- Microprocessor based closed-loop PID controller
- Fully automates any TESCOM backpressure or pressure reducing regulator
- Delivers 0.1% accuracy with 25 ms response time, data acquisition, and remote control capabilities
- Programmable for custom pressure profiles with multiple pressures and variable ramp rates



AVENTICS Series 651, 652 and 653

- Modular design
- Reduced footprint
- Low profile gauges
- Key lockable and tamper-proof options
- Easy installation mounting brackets

Emerson's portfolio of instrumentation and controls allow even more full process control.

PRESSURE	LEVEL	TEMPERATURE	FLOW	MACHINE CONTROL
Transmitters & Remote Seals	Continuous & Point	Transmitters & Sensors	Coriolis & Magnetic	PLCs & Edge Controllers

TESCOM™ For more information:
www.Emerson.com/TESCOM

