

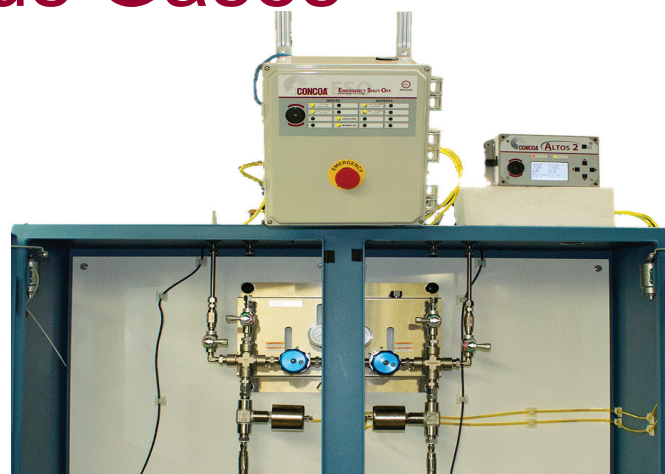


# Fully Automatic Switchovers

# 588 SERIES

## Fully Automatic Switchover System for Hazardous Gases

The 588 Series is a fully automatic switchover system that provides a continuous supply from either liquid or vapor phase. Designed to be the industry's safest fully automatic switchover method, this system utilizes either scale or transducer inputs to achieve up to 99% cylinder utilization of flammable, toxic, or corrosive gases. Utilizing the technologies of our Emergency Shut Off Controller and Altos 2™ Alarm, the 588 Series Automatic Switchover System enables the user to match the appropriate degree of safety to the classification of gas.

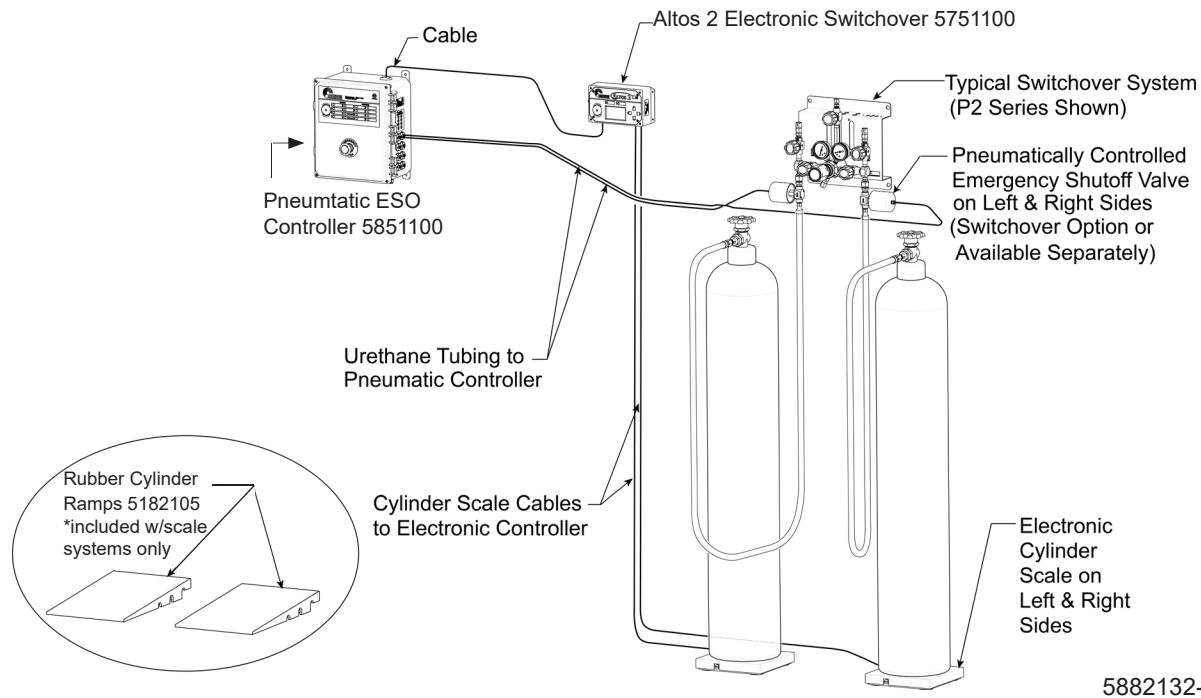


Typical Applications	Features	System Components
<p><b>Chromatography &amp; Extraction Applications</b>            Supercritical fluid chromatography            Supercritical fluid extraction</p> <p><b>Instrumentation Applications</b>            Flame ionization detector            Electron capture detector            Atomic absorption</p> <p><b>Liquid &amp; Vapor Hydrocarbon Applications</b>            Calibration of laboratory trace impurity analyzers            Calibration of process analyzers            Ingredients in the production of catalysts            QA/QC analysis of final product</p>	<p><b>High Purity Design</b>            Metal diaphragms and metal-to-metal seals in all valves and regulators</p> <p><b>Highly Extensible System</b>            Allows for application growth to reduce long term costs and decrease downtime</p> <p><b>Fully Automatic Switchover System</b>            Allows for uninterrupted supply</p> <p><b>Emergency Shut Off Controller (ESO) Valves</b>            Fail-safe operation for peace of mind</p> <p><b>4-20mA Transducer, Scale, or User Signals</b>            Provides flexibility for specific applications</p> <p><b>Suitable for High Purity Gases</b>            Up to grade 6.0</p> <p><b>Field Programmable and Configurable</b>            scalable from pilot to production facilities</p>	<p><b>Every System Includes:</b></p> <ul style="list-style-type: none"> <li>• Pneumatic ESO controller</li> <li>• Altos 2 electronic switchover</li> <li>• Rubber cylinder ramps (*Scale systems only)</li> </ul> <p><b>Options Include:</b></p> <ul style="list-style-type: none"> <li>• 2 cylinder cabinet</li> <li>• 2 cylinder XL cabinet</li> <li>• 4 cylinder cabinet</li> <li>• 4 cylinder XL cabinet</li> <li>• Scale (Liquid phase)</li> <li>• Transducer inputs (Vapor phase)</li> <li>• Panel cabinet (Standard flow)</li> <li>• Panel cabinet (High flow)</li> </ul> <p><b>Sold Separately:</b></p> <ul style="list-style-type: none"> <li>• Gas Cabinet Globe Vent 5183000</li> <li>• Emergency Pushbutton Wall Box 5852001</li> <li>• Oxygen Deficiency Alarm 5803004</li> <li>• Toxic Gas Monitor 5803030</li> <li>• Flammable Gas LEL Detectors 5803012-5803019</li> <li>• Ventilation Detector 5805001</li> </ul>

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## Typical Diagram



5882132-01-350 shown

## Ordering Information

588	A	B	C	D	-CON
Series 588	Cylinders/Side	Control Mechanism	Pressure Control and Purge	Gas Service	Hose
	1 = One cylinder (No cabinet)	1 = Cylinder scales	0 = Standard flow - no pressure control / no purge	1 = Ammonia	Please specify inlet connection (if applicable)  CGA, DIN 477, BS 341, and others available
	2 = Two cylinders (No cabinet)	2 = Pressure transducers	1 = Standard flow - no pressure control / process purge	2 = Butane	
	3 = Three cylinders (No cabinet)	3 = User supplied 4-20mA	2 = Standard flow - no pressure control / external purge	3 = Hydrogen	
	4 = Four cylinders (No cabinet)	A = Cylinder scales with heating blankets	3 = Standard flow - pressure control / no purge	4 = Methane	
	5 = Five cylinders (No cabinet)	B = Pressure transducers with heating blankets	4 = Standard flow - pressure control / process purge	5 = Carbon Monoxide	
	6 = Six cylinders (No cabinet)	C = User supplied 4-20mA with heating blankets	5 = Standard flow - pressure control / external purge	6 = Carbon Dioxide Liquid Siphon	
	7 = Seven cylinders (No cabinet)		Z = High flow - no pressure control / no purge	7 = Chlorine	
	8 = Eight cylinders (No cabinet)		A = High flow - no pressure control / process purge	8 = Ethane	
	A = One cylinder (Two cylinder cabinet)		B = High flow - no pressure control / external purge	9 = Ethylene	
	B = Two cylinders (Four cylinder cabinet)		C = High flow - pressure control / no purge	A = Hydrogen Chloride	
	C = One cylinder (Two cylinder XL cabinet)		D = High flow - pressure control / process purge	B = Hydrogen Sulfide	
	D = One cylinder per side (Four cylinder XL cabinet)		E = High flow - pressure control / external purge	C = Nitrogen Dioxide	
	E = Two cylinders per side (Four cylinder XL cabinet)			D = Propane or Propylene	
				E = Sulfur Hexafluoride	
				F = Sulfur Dioxide	