ChangeOver System

Continuous Gas Management

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

Optimize Cylinder Gas Usage; Minimize Downtime using Veriflo ChangeOver System

The ChangeOver System (COSE) is a compact turnkey module that assists the operator with their total gas management. The COSE maintains a continuous gas delivery from two separate sources allowing for maximum cylinder gas usage from one source before automatically switching to the second source. The COSE lowers specialty gas costs by maximizing the consumption of gas from each cylinder. In addition, the gas cylinder bank(s) can be monitored remotely utilizing the optional pressure switches reducing the need for visual inspection by the operator.

Contact Information:

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Product Features:

- Fully enclosed to protect internal components
- Removable side panels for field maintenance
- Allows change out of depleted cylinder(s) while maintaining gas flow
- Especially suited for continuous on-stream analyzers
- Alarm sensor port for systems integration allowing user to monitor gas consumption
- Cleaned for Oxygen service
- Regulator design integrates positive upward and downward stops which increases cycle life by preventing over stroking of the diaphragm

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Specifications

Materials of Construction	
Regulator Wetted	
Body	316L Stainless Steel, Nickel Plated Brass
Diaphragm	Hastelloy C-22®
Poppet	Hastelloy C-22®, Phosphor Bronze
Poppet Spring	Inconel®
Seat	PCTFE
Retainer	Inconel®
Carrier	316L Stainless Steel
Back Up Washer	316L Stainless Steel, Phosphor Bronze
Back Up O-Ring	Fluorocarbon
Tubing	316L Stainless Steel, Brass
Fittings	316L Stainless Steel, Brass
Regulator Non-Wetted	
Nut	316 Stainless Steel, Nickel Plated Brass
Cap	Nickel Plated Brass
Knob (Black)	ABS Plastic
Valve Wetted	
Body	316L Stainless Steel, Nickel Plated Brass
Diaphragm	Elgiloy® or equivalent
Seat	PCTFE
Valve Non-Wetted	
Nut	316 Stainless Steel
Knob (Black)	ABS Plastic

Operating Conditions	
Maximum Inlet Pressure	3,000 psig (207 barg)
Outlet Pressure	up to 250 psig (17 barg) max
Temperature:	-40°F to 150°F (-40°C to 66°C)
Functional Performance	
Design	
Burst Pressure	9,000 psig (620 barg)
Proof Pressure	4,500 psig (310 barg)
Flow Capacity	C_V = 0.06
	SEMI Flow Coefficient Test #F32-0998
Supply Pressure Effect	0.4 psig/100psig (.03/7 barg)
	without Outlet Regulator option
Leakage	
External seal	Bubble Tight
Internal seat	Bubble Tight
Standard Configuration	
	1/4" NPT Female
Approx. Weight	21 lbs. (9.5 kg)

Applications

Specialty Gases

All Specialty Gases used for Process and Purging Applications

Industrial/Analyzer

- Refineries
- Test Cells
- Emission Analysis
- Laboratories
- Laser Gas Systems
- Research and Development
- Gas and Liquid Chromatography
- High Volume Gas Manufacturing Facilities

ChangeOver System Flow Rates

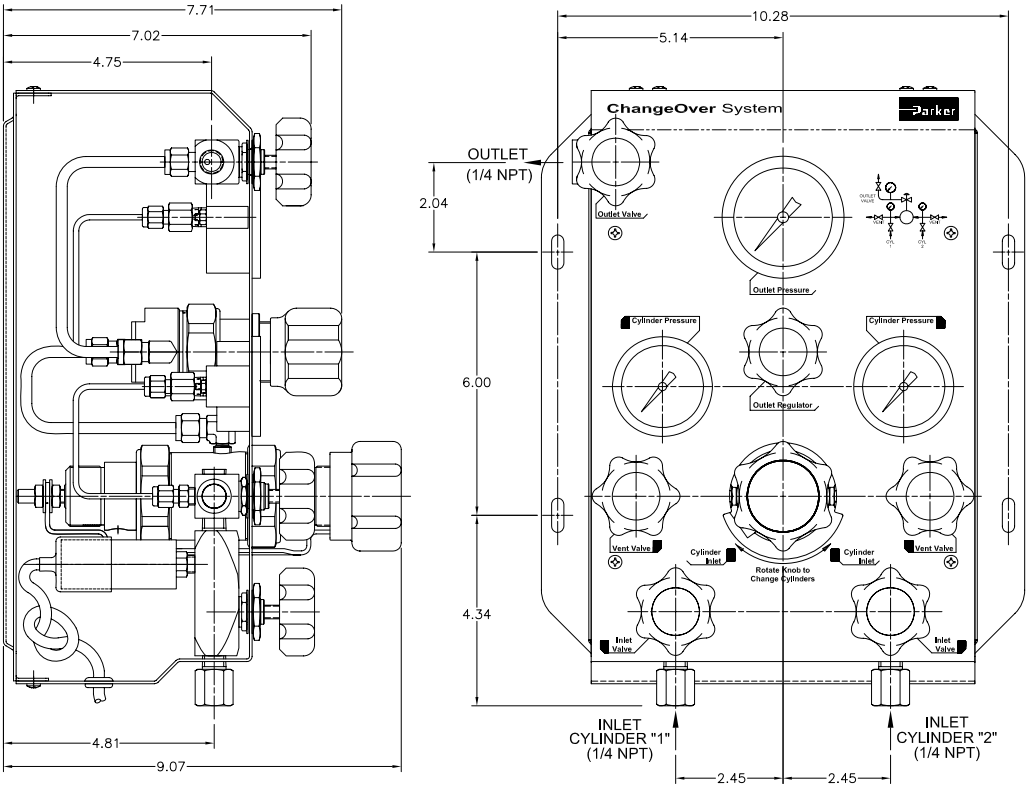
(Based on 400 psig Cylinder Change)

COS Model	Maximum Recommended Flow
COS 200	70 slpm N_2
COS 250	70 slpm N_2
COS 150	70 slpm N_2
COS 100	100 slpm N_2
COS XXX OR*	70 slpm N_2

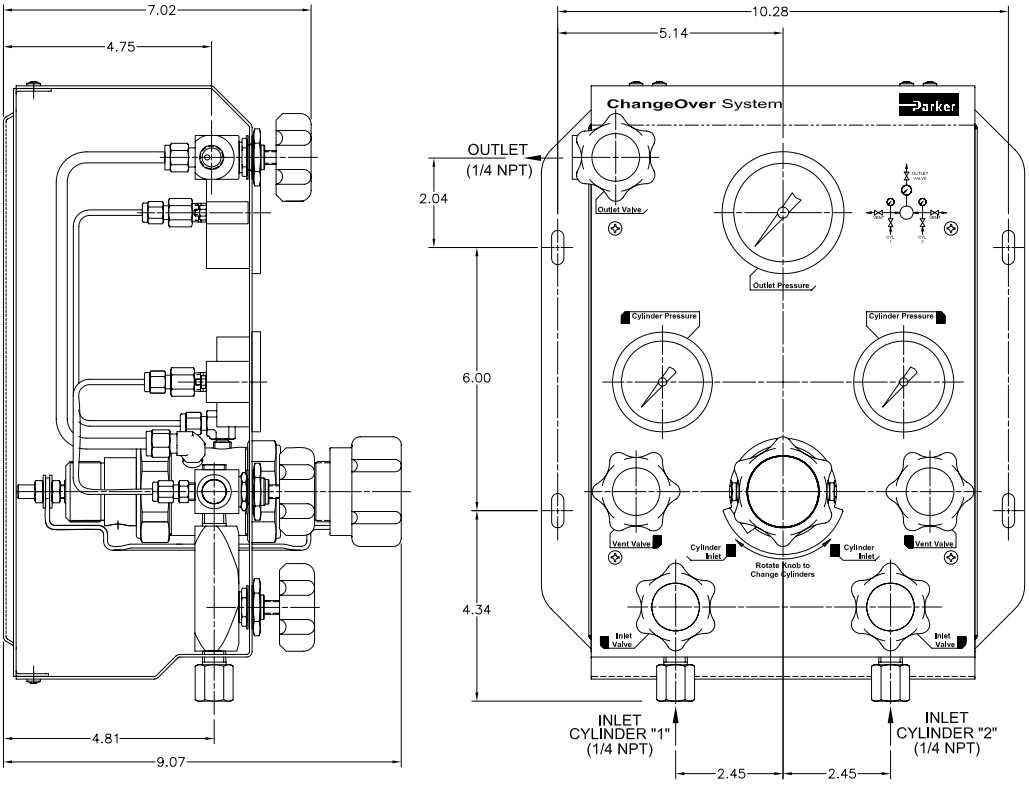
*** ChangeOver System with optional outlet regulators**

Dimensional Drawings

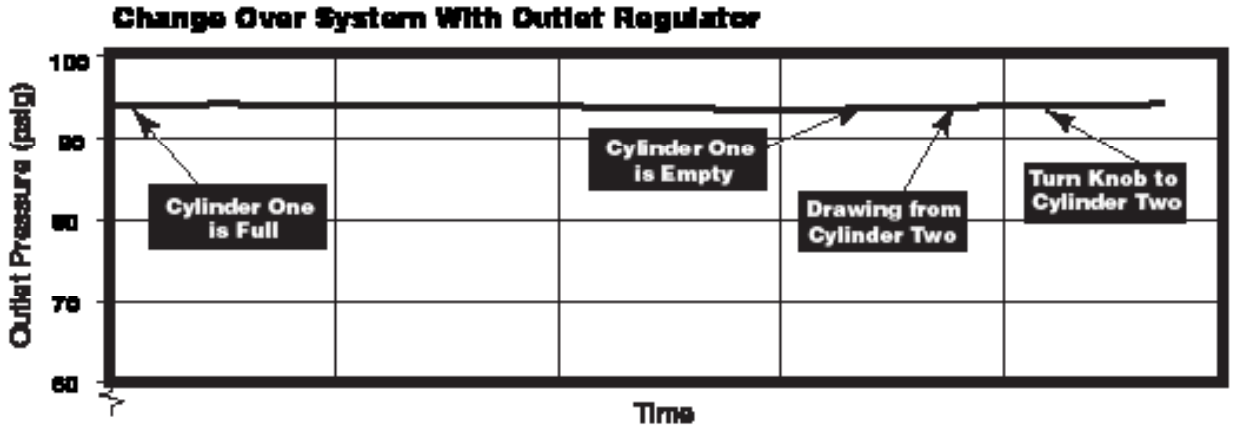
With Outlet Regulator

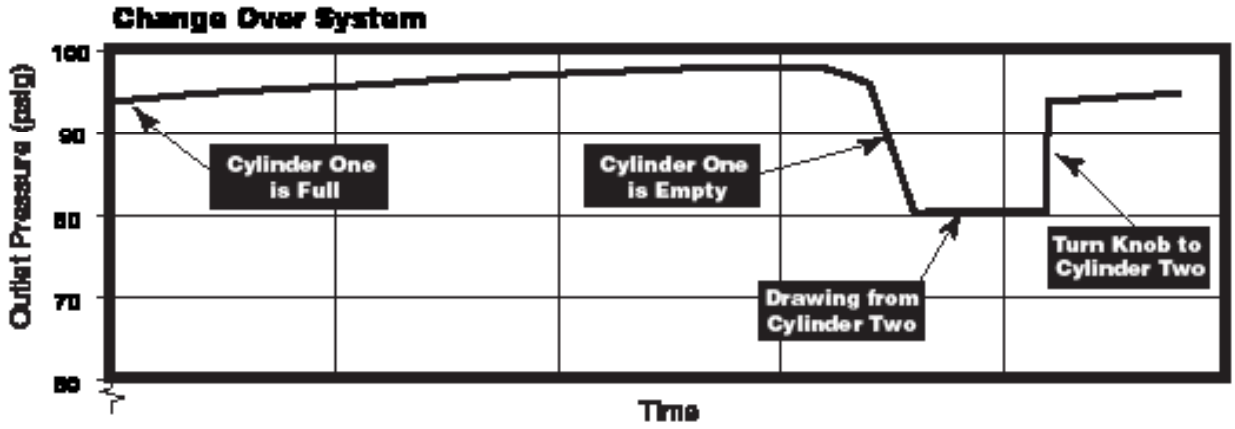


Without Outlet Regulator



Pressure Drop





Ordering Information

COSE | **100** | **S** | **OR**

Basic Series
COSE

Pressure Setting

100	*= 100 psig*
150	= 150 psig
200	*= 200 psig*
250	= 250 psig

Materials

S	=	*316L Stainless Steel*
B	=	*Brass*

Options

A1	=	*Pressure Switches*
Includes 2 pressure switches		
OR	=	*Outlet Regulator*
Omit	=	No Outlet Regulator

Notes:
ESP COSE's include outlet regulator as standard
Configurations without outlet regulator are available at standard lead times.
Inlet valves and gauges are standard on all units.
For audio/visual annunciator details, see COS Annunciator literature sheet.
Annunciator ordering part number: 54017373

The Express Service Program is the next generation of customer service to provide customers with an array of standard products in a 5 day delivery window. The ESP program offers a standard lead time of 5 working days from receipt of order to the ship date. Using the Ordering Information shown, you can identify the product configurations offered in the program by the ***Blue Italic Print***. If the configuration you select is in black print, the product will be ready to ship in the standard lead time. Please contact your local Parker Hannifin Distributor or the factory for any questions regarding the scope of the Express Service Program.

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