

## SwitchPro™ Automatic Switchover Systems (523 & 524 Series)



*The SwitchPro™ Automatic Switchover System provides continuous gas delivery. (Shown with rack mounted option)*

### Introduction

Matheson's SwitchPro™ Automatic Switchover Systems are designed to provide a continuous supply of gas from a cylinder or a bank of cylinders. The SwitchPro™ System safely minimizes repetitive cylinder change out labor while offering a safe and efficient method of connecting multiple cylinders to a common gas supply line to provide centralized distribution of gas for both high and low purity delivery applications. Utilizing SwitchPro™ Systems for the distribution of gas provides greater safety in the cylinder storage area by reducing repetitive cylinder handling and also minimizes the risk of ambient contamination within the gas delivery network.

The SwitchPro™ Systems can be furnished in brass or stainless steel to provide delivery service for a broad range of gases and are rated for pressures of up to 3000 psig. All SwitchPro™ Systems are single row configurations and are provided with 3-ft. flex hoses and integral check valves.

### Applications

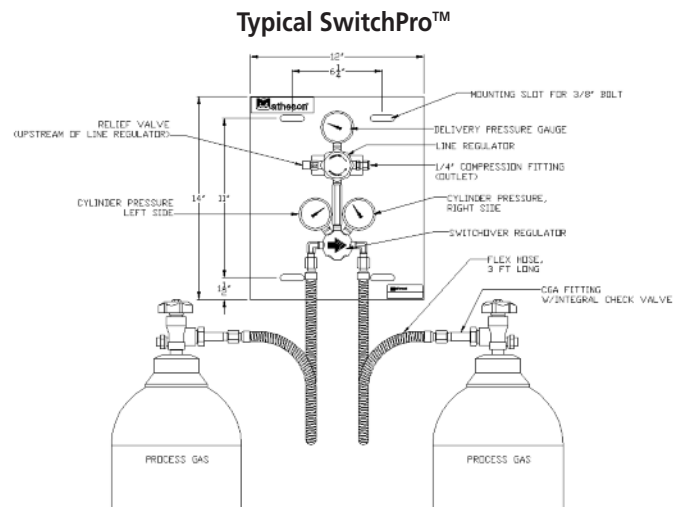
- Provide a continuous, uninterrupted supply of gas
- Control gas delivery from cylinders within a centralized distribution system providing safer and more efficient delivery of gas with the flexibility to address customized applications.

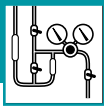
### Design Features

- Ideal for High (UHP 99.999%+) or Low Purity gas delivery – available in brass or 316 stainless steel materials.
- Available control features include: pressure regulation and indicating pressure switches.
- Provides automated switchover control and gas delivery from '2' or '4' cylinders (standard) or up to '10' cylinders (optional).
- Utilizes Matheson's single body Switchover Regulator.
- Compact design minimizes wall space consumption.
- Switchover regulator knob indicates cylinder (bank) priority.
- Maximum inlet pressure up to 3000 psig.
- Design allows convenient access to all components.
- Cost effective to implement and install.
- Optional features allow customized system design for specific gas delivery applications.

### Standard Features

- Single Body Switchover Regulator
- 3 ft. Flex Hoses
- CGA Fittings with Integral Check Valves
- Inlet Pressure Gauges
- 1/4" Compression Fitting Outlet Connection
- Painted Steel Back Plate





# 272 SwitchPro™ Automatic Switchover Systems (523 & 524 Series) (continued)

### Specifications

Panel Dimensions:	12" W x 14" H
Materials:	Brass or 316 Stainless Steel
Switchover Cv:	0.06
Maximum Flow:	3 SCFM - Nitrogen
Maximum Inlet Pressure:	3000 psig
Temperature Range:	-15° F to 140° F (-26° C to 60° C)

### Standard configuration

- 200 psig +/- 20 psi switchover pressure
- 3 foot long flex hoses
- CGA connections with integral check valves
- 1/4" compression tube outlet connection
- No NFPA label

Matheson offers a complete line of SwitchPro™ Automatic Switchover Systems. Our standard, most common options are listed below. However, if you don't see what you are looking for, contact either a Matheson customer service representative or your local sales person. They can help you configure a SwitchPro™ System that meets your specific requirements.

### Options include:

- High and Low Pressure Isolation Valves
- High Pressure Vent Valves
- Cross Purge
- Indicating Pressure Switches
- 1/8", 3/8" or 1/2" Outlet Compression Fitting
- 1/4" VCR Outlet Fitting
- NFPA Label
- Manifold Piping with Station Valves (up to ten cylinders)
- Cylinder Holders
- 6 ft Flex Hoses
- Rigid Pigtails
- Certified Leak Test
- Pneumatic Emergency Shutoff Valve (normally closed)
- Rack Mounted (two cylinder only)

### Ordering Information

Model Series	Material	Line Regulator	Number of Cylinders	Gas/CGA	Option	Option	Option	Option	Option
52	<input type="checkbox"/>	—	<input type="checkbox"/>	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**MODEL SERIES**  
52 = Switchover

**MATERIAL**  
3 = Brass  
4 = Stainless Steel

**LINE REGULATOR**  
0 = None  
A = 30 psig  
B = 100 psig  
C = 150 psig

**# OF CYLINDERS**  
2 = Two (1 x 1)  
4 = Four (2 x 2)\*  
6 = Six (3 x 3)  
8 = Eight (4 x 4)  
A = Ten (5 x 5)

**CGA**  
B = CGA 590  
F = CGA 346  
N = CGA 326  
P = CGA 540  
T = CGA 580  
V = CGA 350  
W = CGA 320

**OPTIONS**  
Valves  
7 = HPI – High Pressure Isolation  
A = HPV – High Pressure Vent  
L = LPI – Low Pressure Isolation  
X = Cross Purge  
U = Inlet Emergency Shut Off (Normally Closed)

Indicating Pressure Switches (IPS)  
D = 4000 psig  
F = 600 psig (dewars)  
J = PM-24 Annunciator Box

Four Cylinder Switchover  
N = No Manifolds  
Q = Manifolds

Outlet (1/4" comp std.)  
B = 3/8" Compression  
C = 1/2" Compression  
M = 1/8" Compression  
V = 1/4" VCR

Hose/Pigtail (3 ft. Flex Hoses – std.)  
1 = Rigid Pigtails  
3 = 6 ft. Flex Hoses

CGA Options  
2 = No Integral Check Valve  
H = Handles on CGA Fittings  
Z = Quick Coupler CGA's (not CGA 350)

Cylinder Holders  
4 = Cylinder Holder W/Strap  
5 = Cylinder Holder W/Strap & Chain

Certified Leak Tests  
6 = Inboard Leak Test  
K = Inboard & Outboard Leak Test

Other Options  
P = Rack Mounted (Two Cylinders only)  
R = NFPA Label

\* need option N or Q