

IntelliSwitch® Cryogenic or High Pressure Switchover System Microprocessor Controlled

Description: The Airgas® 539 Series IntelliSwitch® Fully Automatic Switchover System provides a continuous supply of high purity, non-corrosive gas, non-flammable gas from either cryogenic liquid or high pressure cylinder sources. Microprocessor control lowers the yearly gas cost by eliminating liquid cylinder vent loss and excess residual return when using cryogenic liquid cylinders as a gas source. Electronic source controls allow change from high pressure to any pressure liquid cylinders at the push of a button. Low loss and electronic economizer functions ensure trouble free use and real gas consumption savings with fully automatic switchover controls. NEMA 12 enclosure standard, NEMA 4 optional enclosures provide LED displays of inlet and outlet pressures as well as complete system functions. Field adjustable switchover pressure and keypad lockout are some of the many unique functions standard with this system. The pigtails are flexible stainless steel for easy cylinder connection; the CGA's have integral check valves.

This unit is specifically designed for high flow applications and is ideal for laser service as well.

Specifications	
Maximum Rated Inlet Pressure	3000 PSIG
Maximum Outlet Pressure	0-100, 0-150, 0-200 PSIG
Flow Capacity	Cv = 1.0
Ambient Operating Temperature	0°F to 140°F (-17°C to 60°C)
Designed Leak Rate	1 x 10 ⁻⁸ scc/sec
Weight	67 lbs.
Power requirements	110 or 220 VAC versions
Inlet	1/2" FNPT
Outlet	1/2" FNPT
Gauge	digital
Weight	67 lbs.

539 Series

SWITCHOVER REGULATORS



Design Features

Microprocessor Control

Fully automatic priority system

316L stainless steel diaphragm

No possibility of gas contamination

Field Adjustable parameters

Enable process and source flexibility

Onsite source selection

Liquid or high pressure cylinders at the push of a button

RS 232 or RS 485 communication

Low loss technology

Reduces residual return and vent loss from liquid cylinders

Check valves in CGA nipples

Prevents contamination and back flow

Balanced Stem regulator

Assures stable line pressure regardless of inlet pressure

Materials

Body	Brass barstock
Valve Stems	316L Stainless Steel
Valve Seat	PCTFE Kel-F®
Diaphragm	316L Stainless Steel
Gauges	Brass, 316L Stainless Steel
Filter	40 micron 316L Stainless Steel Mesh
Seals	PTFE PCTFE-Kel-F Viton

SWITCHOVER REGULATORS

539 Series

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Ordering Information

Product Number	Numb. of Cylinders	Material	Max Inlet Press. (psig)	Delivery Press. Range (psig)	Capacity (scfh @ Max Del. Press.)	Inlet Display Range (psig)
Y11-MSP120C	2	Brass	3000	10-100	2000	0-5000
Y11-MSP140C	4	Brass	3000	10-100	2000	0-5000
Y11-MSP160C	6	Brass	3000	10-100	2000	0-5000
Y11-MSP180C	8	Brass	3000	10-100	2000	0-5000
Y11-MSP120D	2	Brass	3000	10-150	2000	0-5000
Y11-MSP140D	4	Brass	3000	10-150	2000	0-5000
Y11-MSP160D	6	Brass	3000	10-150	2000	0-5000
Y11-MSP180D	8	Brass	3000	10-150	2000	0-5000
Y11-MSP120E	2	Brass	3000	10-200	2000	0-5000
Y11-MSP140E	4	Brass	3000	10-200	2000	0-5000
Y11-MSP160E	6	Brass	3000	10-200	2000	0-5000
Y11-MSP180E	8	Brass	3000	10-200	2000	0-5000

Other configurations available upon request.

Available Options

Product Number	Description
Y15-4P72K2C	6 foot pigtail upgrade option, 2 cylinders
Y15-4P72K4C	6 foot pigtail upgrade option, 4 cylinders
Y15-4P72K6C	6 foot pigtail upgrade option, 6 cylinders
Y99-4CYLRACK	4 Cylinder Rack
Y78-5752ALPK	Advantium 2 Remote Alarm