

Life Science Switchover Regulator Series

Life Science

CHANGEOVER MANIFOLDS

Description: The Airgas® Life Science Series System is a automatic switchover system designed to supply a continuous supply of high purity, non-corrosive gas. This series is designed for the life science market and the gases used in this market, it does extremely well in CO₂ service. Due to the pressure differential considerations, an integral line regulator is used to maintain constant downstream pressure. The pigtails are flexible stainless steel for easy cylinder connection; the CGA's have integral check valves.

The 6 and 8 cylinder models use our block manifold header as standard.

Note: There are no shut off or purge valves in this system. They may be added as an option, or refer to our High Purity Changeover Panels.



Design Features

Metal-to-metal diaphragm seal

No possibility of gas contamination

User-friendly priority valve

One knob switches cylinder priority

Check valves in CGA nipples

Prevents contamination and back flow

Line regulator

Assures stable line pressure during changeover

Materials

Body	Brass barstock, 316 Stainless Steel
Seat	PTFE
Diaphragm	316L Stainless Steel
Gauges	Brass, 316L Stainless Steel
Filter	10 micron Sintered Bronze or 316L Stainless Steel Mesh
Seals	PTFE (PCTFE for 4500 psig option)

Specifications

Maximum Rated Inlet Pressure	3000 PSIG (4500 PSIG Optional)
Maximum Outlet Pressure	0-50, 0-150, 0-250 PSIG
Flow Capacity	Cv=0.1
Ambient Operating Temperature	-40°F to 140°F (-38°C to 60°C)
Designed Leak Rate	1 x 10 ⁻⁸ scc/sec
Weight	9 lbs.
Ports	1/4" FNPT
Inlet	1/4" FNPT
Outlet	1/4" FNPT
Gauge	2" diameter

Ordering Information

Product Number	Numb. of Cylinders	Material	Max Inlet Pressure (psig)	Delivery Press. Range (psig)	Capacity (scfh @ Max Del. Press.)	Inlet Gauge Range (psig)
Y11-CP602B(CGA)	2	Brass	3000	10-50	450	0-4000
Y11-CP604B(CGA)	4	Brass	3000	10-50	450	0-4000
Y11-CP606B(CGA)	6	Brass	3000	10-50	450	0-4000
Y11-CP608B(CGA)	8	Brass	3000	10-50	450	0-4000
Y11-CP642B(CGA)	2	316 Stainless Steel	3000	10-50	450	0-4000
Y11-CP644B(CGA)	4	316 Stainless Steel	3000	10-50	450	0-4000
Y11-CP646B(CGA)	6	316 Stainless Steel	3000	10-50	450	0-4000
Y11-CP648B(CGA)	8	316 Stainless Steel	3000	10-50	450	0-4000
Y11-CP602D(CGA)	2	Brass	3000	10-150	875	0-4000
Y11-CP604D(CGA)	4	Brass	3000	10-150	875	0-4000
Y11-CP606D(CGA)	6	Brass	3000	10-150	875	0-4000

Specialty Gas Equipment

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Life Science Switchover Regulator Series Cont.

Ordering Information

Product Number	Numb. of Cylinders	Material	Max Inlet Press. (psig)	Delivery Press. Range (psig)	Capacity (scfh @ Max Del. Press.)	Inlet Gauge Range (psig)
Y11-CP608D(CGA)	8	Brass	3000	10-150	875	0-4000
Y11-CP642D(CGA)	2	316 Stainless Steel	3000	10-150	875	0-4000
Y11-CP644D(CGA)	4	316 Stainless Steel	3000	10-150	875	0-4000
Y11-CP646D(CGA)	6	316 Stainless Steel	3000	10-150	875	0-4000
Y11-CP648D(CGA)	8	316 Stainless Steel	3000	10-150	875	0-4000
Y11-CP602E(CGA)	2	Brass	3000	10-250	1,100	0-4000
Y11-CP604E(CGA)	4	Brass	3000	10-250	1,100	0-4000
Y11-CP606E(CGA)	6	Brass	3000	10-250	1,100	0-4000
Y11-CP608E(CGA)	8	Brass	3000	10-250	1,100	0-4000
Y11-CP642E(CGA)	2	316 Stainless Steel	3000	10-250	1,100	0-4000
Y11-CP644E(CGA)	4	316 Stainless Steel	3000	10-250	1,100	0-4000
Y11-CP646E(CGA)	6	316 Stainless Steel	3000	10-250	1,100	0-4000
Y11-CP648E(CGA)	8	316 Stainless Steel	3000	10-250	1,100	0-4000
Y11-CP602G(CGA)	2	Brass	3000	10-400		0-4000

Available Options

Product Number	Description
Y99-4CYLRACK	4 Cylinder Rack
Y78-820ALPK*	Non-Flammable Alarm Package

Remote Alarm Capability: Must be ordered at time of original order

Flammable Gas Service Provided with Intrinsic Safety Barriers to ensure safe operation

*Integrated Alarm Systems (pressure switch gauges) available, call 1-800-939-5711.