

S539 Intelli-switch Auto Change-over Manifold



- Variable gas supply sources
- Ease to use
- Low Loss Technology
- Digital pressure readout
- High flow capacity (depending on flow capacity of source)
- Remote monitoring output signals

The S539 Intelli-switch auto change-over manifold is new generation microprocessor gas control system. The Intelli-switch can be supplied with gas from liquid vessels or high pressure cylinders or any combinations of the two. It is ideal for situation where the user wishes to change to gas supply source, eg for universities where normal day-to-day low flow usage is supplied from high pressure cylinders, and during high flow periods, such as exam times, liquid vessels can be used.

The Low Loss Principle consists of two features, the Look-Back and the Economiser. When the Intelli-switch electronics sense that the “in-use” supply bank pressure is low, it automatically switches to the “reserve” supply bank. After a period of time, the system looks back at the depleted supply bank to sense if it has rebuilt pressure. If it has, the system switches back and continues to draw gas from this supply bank, eliminating false switchovers and reducing residual returns in liquid vessels.

The electronic economiser has selectable settings for 230, 350 & 500 PSI liquid vessels. The Intelli-switch continuously monitors measures the pressure in the reserve supply bank. When the pressure goes above the economiser setting, the Intelli-switch will draw gas from the headspace of the reserve supply, preventing vent loss (boil off).

Specifications:

Max. Inlet Pressure:	20,000 kPa @ 15°C
Outlet Pressures:	up to 1400 kPa
Flow Capacity:	Cv of 1.0
Outlet Connection:	½” NPT female
Inlet Connections:	3/8” BSP RH
Supply Voltage:	240v AC
Weight:	31 kg

Materials:

Body:	Chrome plated brass bar stock
Fittings:	Brass and chrome plate brass
Tubing:	Copper
Filters:	Cupro Nickel

ORDERING INFORMATION S539 - XXX - XXX - XxX

Model	Outlet Pressure Range	Gas #1	Supply Source	Options
S539	50 50 PSI (350kPa) 100 100 PSI (700kPa) 150 150 PSI (1050kPa) 200 200 PSI (1400kPa)	AIR (Air) AR (Argon) CO2 (Carbon Dioxide) He (Helium) N2 (Nitrogen) OXY (Oxygen)	1x1 1 cylinder x 1 cylinder 2x2 2 cylinders x 2 cylinders 3x3 3 cylinders x 3 cylinders 4x4 4 cylinders x 4 cylinders 5x5 5 cylinders x 5 cylinders 1Px1P 1 manpack x 1 manpack	04 Inlet purge valve 08 Line pressure relief valve 11 Auxiliary inlet supply 12 Emergency shut-off solenoid valve 15 Cylinder Restraints 16 Gas Heaters

#1 – not for use with flammable gases

Ordering examples

S539-100-N2 2PLC x 2