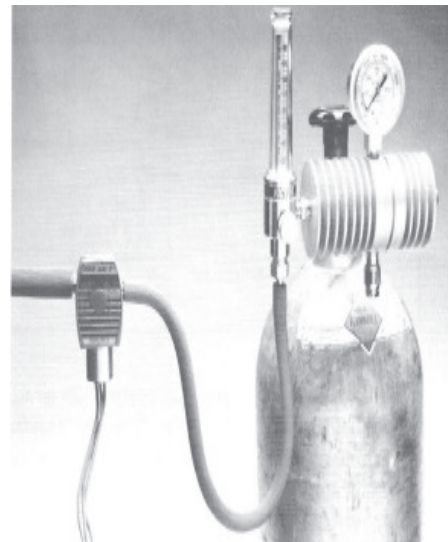


Chemtrol®

CO₂ pH Control

**FOR SAFER
pH CONTROL
in POOLS AND SPAS**



Carbon Dioxide CO₂ is a natural non-corrosive gas that can be used as a substitute for other acids (such as Muriatic acid HCl) in chemical treatment of pools and spas.

CO₂ is available in standard pressurized gas cylinders. When dissolved in water, it forms carbonic acid H₂CO₃, a weak acid which can be used to lower the pH of water. and neutralize liquid chlorine.

ADVANTAGES

- ✓ No **handling** of corrosive acid containers,
- ✓ No **corrosion** of equipment and facilities from acid fumes,
- ✓ No dangerous **chemical reactions** with chlorine,
- ✓ Less danger of **excessive low pH** in water. Because carbonic acid is a weak acid, the lowest pH value that can be reached is 6.8, even under accidental runaway conditions,
- ✓ Optional **AUTOMATIC SWITCHOVER** assures continued control of pH.

CAUTION

- ✓ CO₂ **increases the alkalinity** of water and is therefore not recommended for applications where high alkalinity is a problem. Total Alkalinity (TA) should be maintained between 80 and 125 ppm.
- ✓ High alkalinity **increases acid demand**, makes it difficult to lower the pH and may result in the formation of bicarbonate scale,
- ✓ High **alkalinity may be reduced** with muriatic acid HCl or dry acid.

EXTENDED TECHNICAL SUPPORT

Technical support from **CHEMTROL®** is based on our experience with over 30,000 installations worldwide. It is also available by toll-free phone, by fax or by e-mail.

Visit our Web Site at www.sbcontrol.com or call today for a free demo CD.



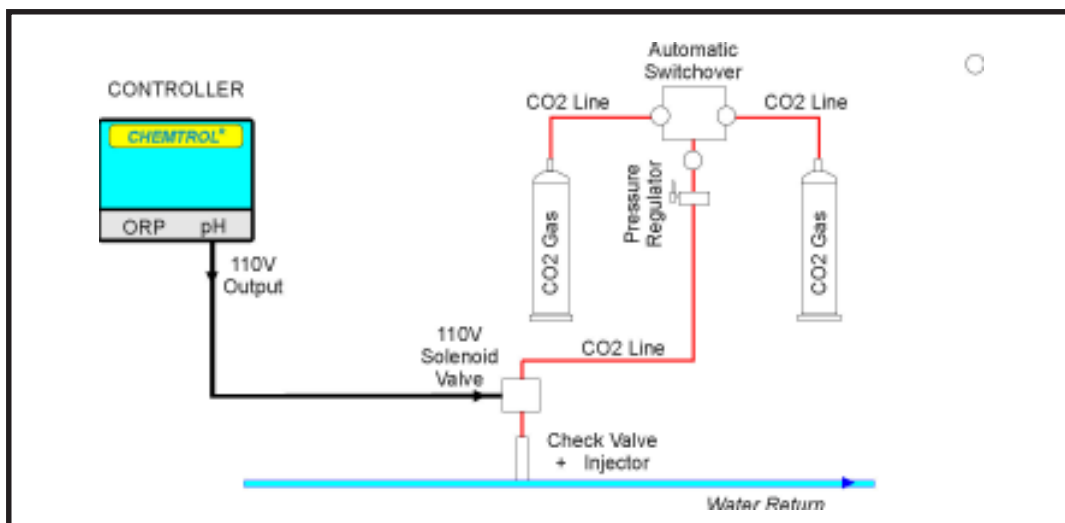
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Leading in Automated Water Treatment Since 1976

INSTALLATION



The schematic shows the principle of installation with an Automatic Swichover System which is recommended to assure continuous pH control. Control of gas injection is done by connecting the 110V pH control output of the **CHEMTROL**[®] controller to the solenoid valve on the CO₂ injection line. One or more CO₂ gas cylinders can be manifolded together on each line, depending on the feed rate required to maintain proper pH. Select the proper pressure regulator as indicated below according to pool size.

SPECIFICATIONS

ASCO SOLENOID VALVE, brass body, 750 psi rating, 1/8" FPT, 110V, 500r 60Hz. For connection to pH output relay of the **CHEMTROL**[®] controller.

PVC CHECK VALVE/INJECTOR, 3/8" MPT.

FLOWMETER, 0-40 cfh.

FEED TUBE, 15 ft.

VICTOR SR 311 PRESSURE REGULATOR, factory set at 80 psi outlet pressure, 0-100 scfh flowmeter. Recommended for pools up to 500,000 ga.

OPTION

AUTOMATIC CO₂ SWITCHOVER SYSTEM, designed for 2 or more cylinders on the same feed line, one being kept on standby until the first one is empty. The swichover automatically switches to the second cylinder when the pressure gets low. Additionally, more than one cylinder can be manifolded on each side of the swichover to further increase the CO₂ supply.

Chemtrol[®]
QUALIFIED DEALER

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