

# REGAL<sup>TM</sup> AUTOMATIC SWITCHOVER

## GAS CHLORINATORS and SULPHONATORS



### STAND-BY CHLORINATION:

The safest, most reliable, most economical systems to use when service *must not be* interrupted but *cannot be* monitored at all times.

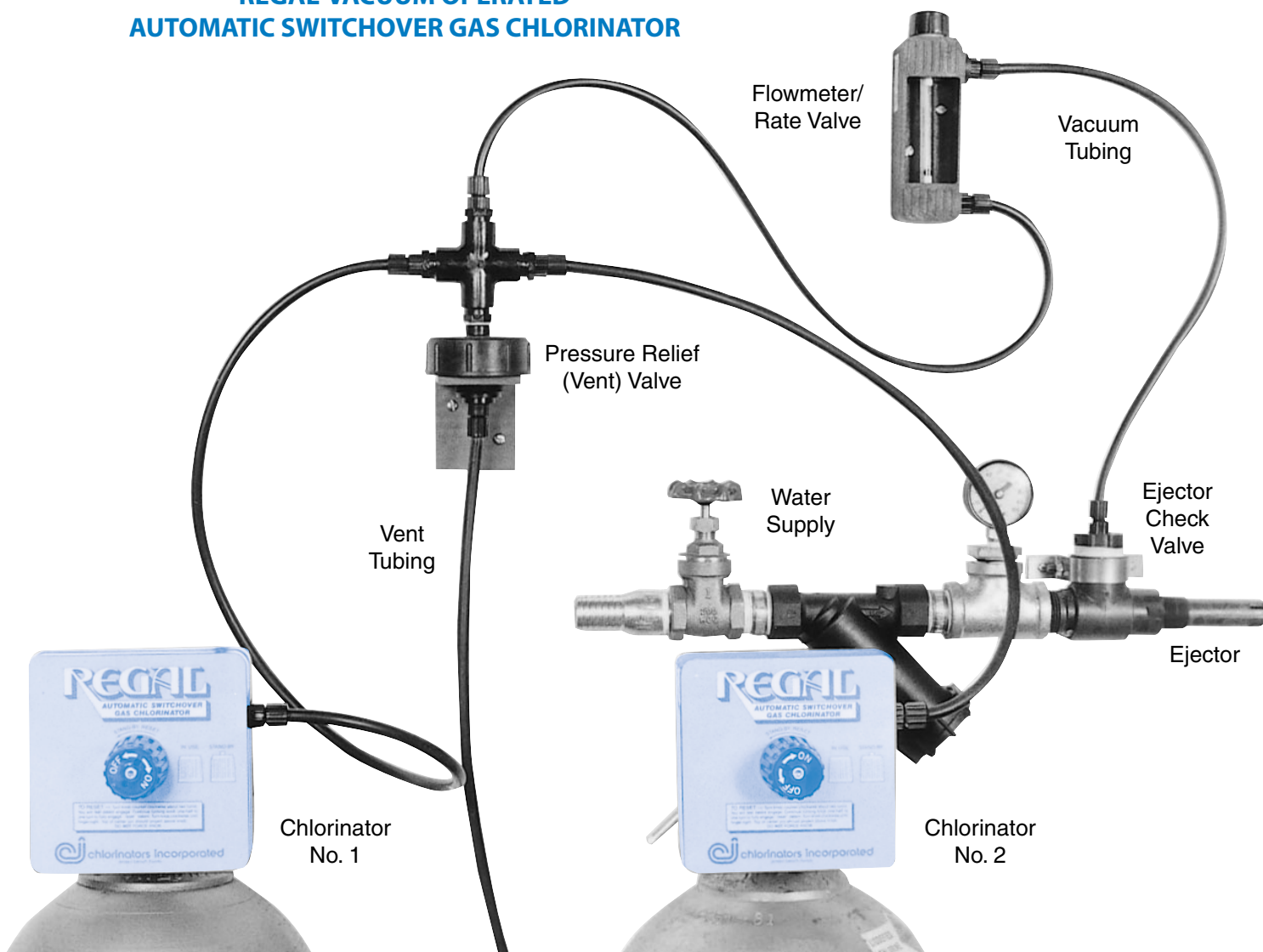
# SAFEST

## BECAUSE THEY'RE REGAL™

**REGAL™ Chlorinators and Sulphonators are known worldwide as the safest on the market. Here's why:**

- They clamp directly onto the cylinder valve with the strongest, most corrosion-resistant yoke in the industry.
- In the chlorinator or sulphonator system, the gas is never under pressure. Chlorine or sulfur dioxide is drawn from the cylinder by a vacuum created by the flow of water through the ejector. If any part of the system is damaged, the gas shuts off immediately and automatically.
- The REGAL ejector nozzle (venturi) – the component that creates the vacuum which draws the gas from the cylinder – is a single, precisely manufactured piece, made of strong, corrosion-resistant plastic.
- The REGAL single-piece *high pressure* check valve is made of a special, chlorine-and-sulfur-dioxide-resistant material. The REGAL *low pressure* check valve uses a very strong closing spring and a large-area diaphragm, to minimize friction loss or pressure drop across the check valve area.

### REGAL VACUUM OPERATED AUTOMATIC SWITCHOVER GAS CHLORINATOR



---

# MOST RELIABLE

## BECAUSE THEY'RE REGAL™ DOUBLED – AND SPECIALLY DESIGNED FOR THE JOB

Unlike competitive systems that simply place two of their standard chlorinators on two cylinders and use a separate module to handle the switching function, REGAL gives you chlorinators and sulphonators that have been *specifically designed for switchover service* – and do the switching over themselves.

REGAL Switchover Chlorinators and Sulphonators have all the reliability factors that standard REGAL units are noted for: the same simple, efficient design and the same bigger, more corrosion-resistant vital parts than competitive units have.

The basic difference between the standard and switchover REGALs is that *the latter have built-in corrosion-proof and permanently adjusted switchover latches and reset knobs\** – which like everything else bearing the REGAL name, are designed with simplicity in mind.

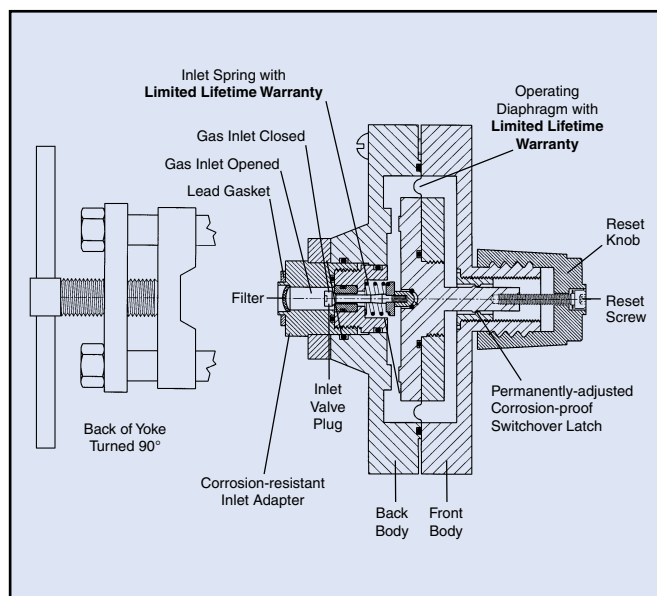
By contrast, the wall-mounted, vacuum/differential-pressure regulators required by competitive systems are relatively complex. A failure of any component in these competitive external regulators means a total loss of disinfection – a serious matter.

Each unit is complete...you can be sure to have a full supply of gas no matter what.

In normal operation, one unit supplies gas until its cylinder approaches empty – at which point the other unit starts opening up, keeping the gas supply steady.

\* Other differences are: in the switchover units, the flowmeter/rate valve and the pressure relief valve are separate, wall-mounted units – as they must be, because they serve whichever chlorinator or sulphonator is operating at the moment. Also the gas supply indicator has been replaced with an indicator that shows which unit is in use and which is the stand-by.

Should something happen to the operating unit, the other is available to provide continuous operation of the gas supply.



Cross section of REGAL Chlorinator or Sulphonator showing switchover latch, which responds to changes in vacuum level through the action of the large-area operating diaphragm.

---

# MOST ECONOMICAL

## BECAUSE THEY'RE REGAL™

**REGAL Chlorinators and Sulphonators are the most economical for these basic reasons:**

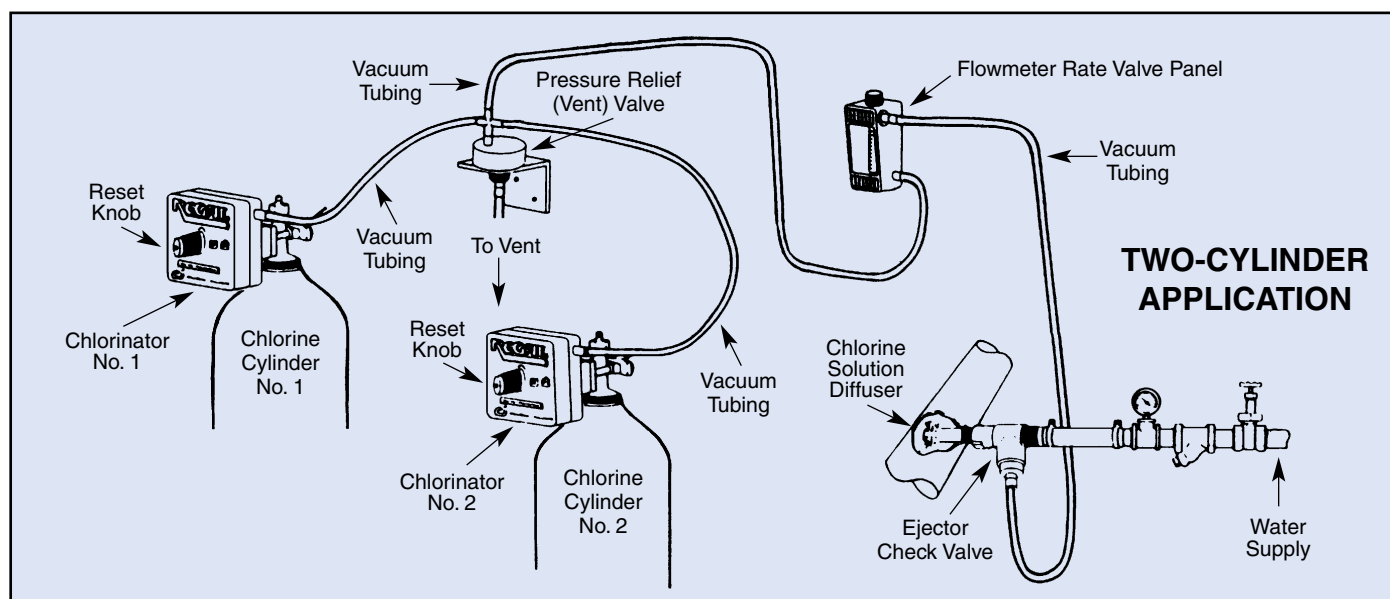
1. They are so rugged, so reliable, and so corrosion-resistant that they hardly ever need servicing.
2. If they ever *do* need servicing or if they are seriously damaged or impurities ever get into them – you can take them completely apart and reassemble them in minutes, using only a screwdriver and a pair of pliers.

And if you need a new part, we'll send it out as soon as you call us.

3. The switchover latching devices in the REGAL units are *permanently* adjusted, unlike the separate, external switchover units of competitive systems, which must be adjusted frequently.

# REGAL™

## AUTOMATIC SWITCHOVER CHLORINATORS AND SULPHONATORS IN ACTION



As soon as the two units are mounted on their cylinders and attached as in the drawing above, they're ready to go. No adjusting is necessary.

All the operator has to do is turn *one* vacuum regulator to "stand-by" (and a prominent indicator on the face of the unit tells him at a glance which is which). Then, as soon as water starts flowing through the ejector:

- A. a vacuum is created in the body of the operating regulator...
- B. which pulls back the diaphragm.  
This in turn,
- C. opens the operating regulator's inlet valve, and...
- D. draws gas from the cylinder under vacuum and...
- E. feeds it to the system.

Automatic switchover capability is provided by two vacuum regulators fitted with mechanical detents. One vacuum regulator feeds gas until the supply to which it is connected becomes empty. When this happens, the resulting rise of vacuum to higher than normal operating levels, provides sufficient force to unlatch the stand-by vacuum regulator, which then takes over the gas supply function and allows the operator ample time to change out the exhausted chlorine supply source.

**DISTRIBUTED BY**

### MAXIMUM FEED RATE CAPACITY

Model	lb/24 hrs	Gms/hr (Kg/hr)
216	4, 10, 25, 50, 100	75, 200, 500, 900, 2000
226	250	(5)
256	500	(10)

REGAL Gas Chlorinators and Sulphonators are adjustable to 1/20th of their maximums. On Model 216, the maximum capacity can be changed by exchanging the metering tube for any size up to 100 PPD. The same rate is used for all. Special low-feed rate metering tubes, rate valves and seats are available upon request.

 **chlorinators incorporated**

1044 SE Dixie Cutoff Road, Stuart, Florida 34994 USA

Tel: 772-288-4854 • Fax: 772-287-3238

www.regalchlorinators.com • Email: chlorinc@aol.com