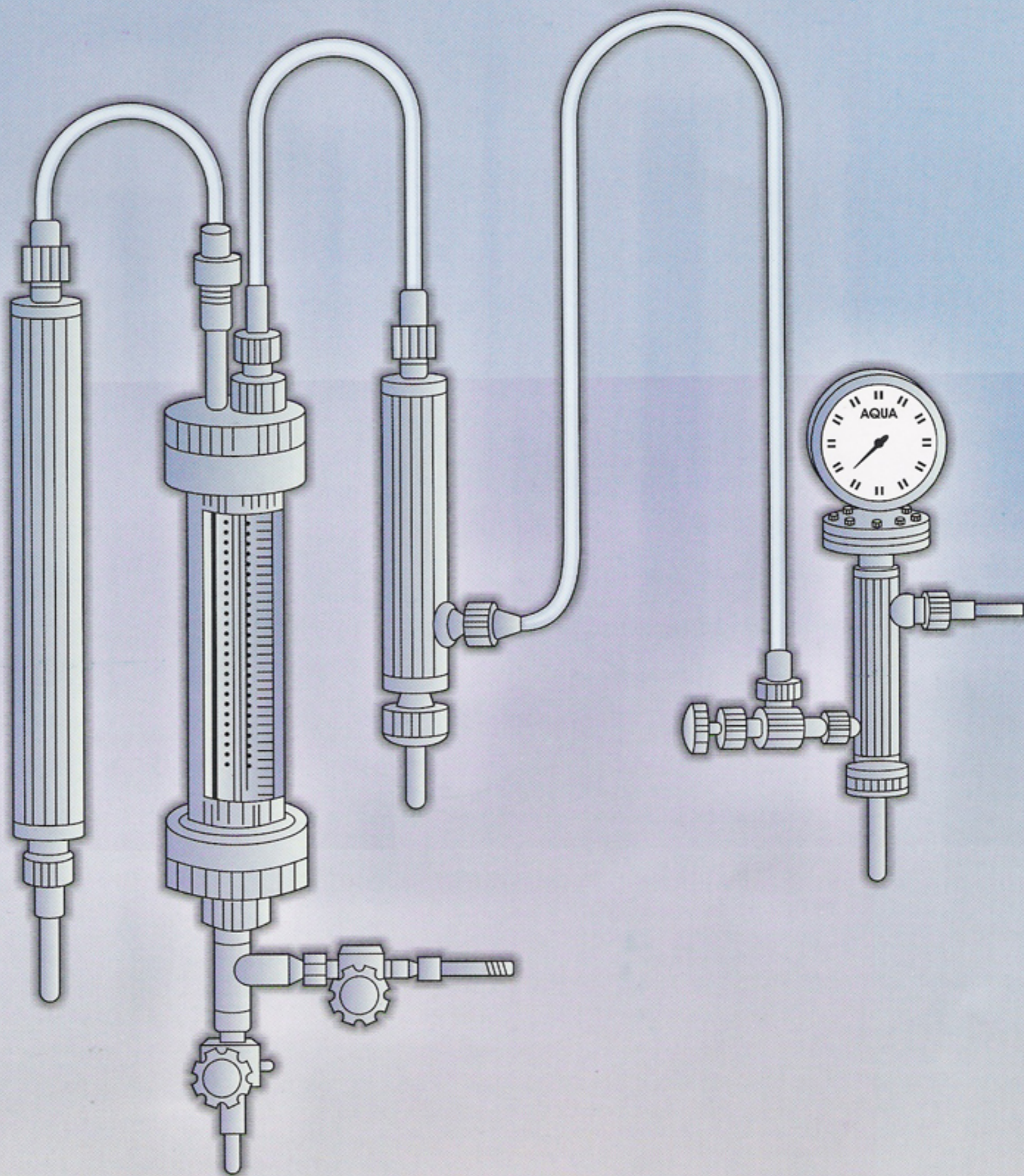




**AQUA
SERVICES**

An ISO 9001:2000 Company

Gas Chlorinator



GASEOUS CHLORINATION PLANT FOR BACTERIA FREE WATER

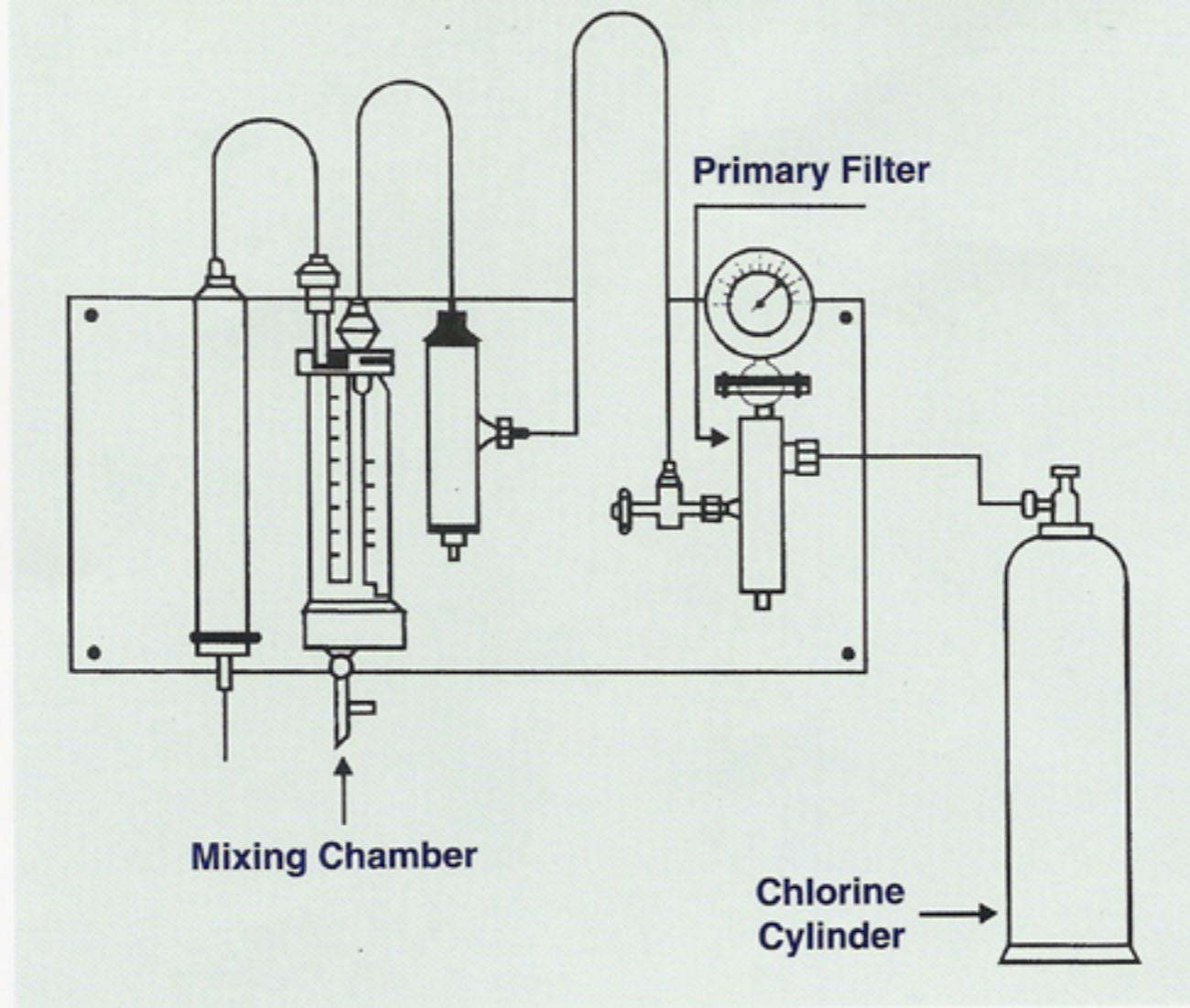
CORROSION PROOF PLASTIC TYPE GAS CHLORINATION PLANT

ADOPTABLE AT SWIMMING POOL, WATER TREATMENT PLANT

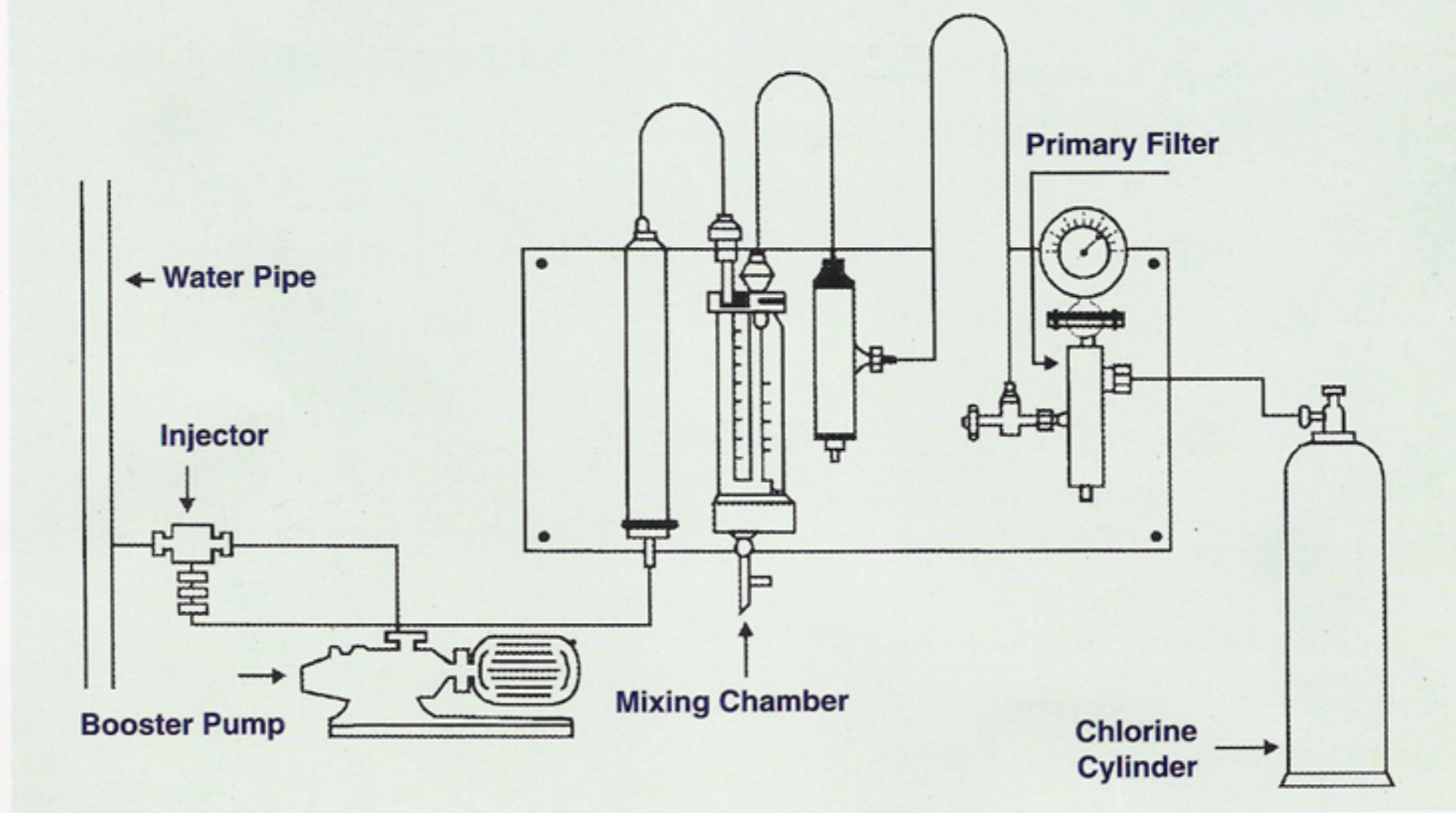
OVERHEAD & UNDER GROUND WATER TANK & COOLING WATER TOWER PLANT

APPROVED IN MILITARY, RAILWAY, MUNICIPALITY & PUBLIC HEALTH DEPT..

GRAVITY FEED TYPE CHLORINATOR PLANT



PRESSURE FEED TYPE CHLORINATOR PLANT



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SOLUTIONIZER :

Where chlorine gas & water mixed properly to form chlorine solution.

PLASTIC INJECTOR :

For Pressure Feed : injector will inject chlorine solution with the pressure of Booster Pump.

CYLINDER CONNECTIONS :

For connecting the chlorine cylinder to the primary Filter, the necessary Cylinder connecting Valve and copper pipe (both end) with suitable brass nuts are Provided.

OPERATION :

Chlorine Gas from Cylinder enters into Primary Filter through Copper connecting Pipe, where Chlorine Gas filtered by glass wool and passes through Niddle Valve, which controls the flow of Chlorine Gas. Diaphragm Pressure Gauge shows the Pressure of filled Chlorine Cylinder. Again Chlorine Gas comes through PVC Bend, Filtered in Secondary Filter because it has to pass through smallest Orifice Tube and restrict water from Mixing Chamber. Chlorine Gas and Water are mixed proportionally by Orifice Tube of mixing chamber resulting into Chlorine Solution, which flows through PVC 'U' Bend at the top into adjoining Solutionizer.

Solution is fed into an open chamber or under ground sump by Gravity Pressure. If it is to be supplied to any Pressure Pipe, a special Plastic Injector alongwith a Suitable booster pump and motor is provided.

ACCESSORIES :

Cylinder Key, spanner, Screw Driver, Bottle of Ammonia Solution, Lead and Rubber Washer, Moisture Glass Tube, PVC delivery hose pipe, Chlorine test kit to check up to 1 ppm. (As per quotation condition)

PRECAUTION :

Moisture Chlorine Gas is very corrosive. So precautions are taken to exclude moisture coming into contact with metallic parts of the Chlorinator, so all parts where gas and water come in contact are made from Rigid PVC which is immune to corrosive action of wet chlorine gas. Non-Return Valve on the top of the Secondary Filter will prevent Water coming into the filter, it will be collected in the Glass Moisture Tube at the bottom of the filter and can be removed easily when noticed by operator.

Pressure feed Chlorinator is run by Booster Pump and Motor. If electric power fails, first close Chlorine Cylinder to avoid accident Problem of Gas leakage is automatically solved by Provision of lead or Rubber Washer between large contact areas at all joints.

Permit only trained and responsible personnel to handle chlorine.

For storage : Keep container away from inflammable materials and keep in clean ventilated area.

Moisture should not enter containers.

Never force connections that do not fit. Never use hammer to open valve. Use approved equipment.

WE ALSO SUPPLY CHLORINE CYLINDER OF 50, 100 & 900 KG. CAP., CHLOROSCOPE TO DETECT CHLORINE PERCENTAGE IN WATER, SAFTY KIT FOR CHLORINE CYLINDER / TONNER, BREATHING APPERATURES, BLEACHING DOSER - MANUAL & ELECTRONIC ETC.

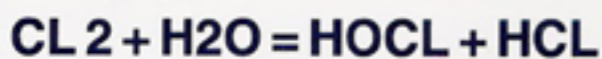
PROGRESSIVE CHANGE IN DESIGN MAY BE MADE WITHOUT NOTICE.

Normally filtered water appears perfectly clear but is mostly contaminated by Bacteria, Yeast, Virus, Mold, Spores and other germs which are dangerous to human life.

To kill such germs before allowing water for human consumption, there are several processes for disinfecting water.

The use of Chlorine for sterilising water is practised throughout the world. Chlorination is the most effective and economical way of disinfecting water which makes potable water absolutely safe from water-borne diseases.

The technique involves mixing chlorine gas and water to form Hypochlorous Acid.



This kills the harmful bacteria and viruses. Usually, 1 Ltr. of water is required for every 0.5 grams of Chlorine Gas for making solution. (10M³ water required for 0.005 mg of chlorine gas to get 0.5 ppm Cl₂ in water.)

AQUA CHLORINATOR

It is simple in design and handling, reliable because of high quality plastic components, low maintenance cost, easy operation and long life.

MATERIAL OF CONSTRUCTION

Rigid PVC Pipe, Rod, Sheet, Copper, Brass and extra heavy duty Borosilicate Glass are used in the making of the Chlorinator.

DESIGN FEATURE

AQUA CHLORINATOR has been adopted to open design. By this, it is easier to detect possible leak in time. Due to open design, it is more spacious arrangement for all parts, easily accessible for control, adjustment and replacement / repair. Above all, disturbance in

the chlorine Liquid Gas and Water feed have no effect on its functioning.

SPECIFICATION

DIAPHRAGM PRESSURE GAUGE :

For indication of cylinder Pressure and provided with isolating Diaphragm.

PRIMARY FILTER :

Made from PVC and contain Glass Wool which arrest all possible chlorine Cylinder impurities, so it does not obstruct the flow of gas through small apparatus of Niddle Valve.

NIDDLE VALVE :

Used for adjustment of flow of Chlorine Gas.

PVC BEND OR COPPER BEND :

Conveys chlorine gas from Niddle Valve to the secondary Filter and Protects the Chlorine Cylinder against Water, if functioning of Glass Non Return Valve fails.

SECONDARY FILTER :

Made from PVC and also contain glass wool and NRV where gas will be further screened to eliminate all impurities, So that impurities do not chock Orifice Tube.

PVC BEND WITH GLASS NON - RETURN VALVE :

Chlorine Gas passes through this bend to Mixing Chamber. Stop water to come into Secondary Filter by Glass Non-Return Valve (NRV).

MIXING CHAMBER :

Made from PVC and having PVC Tube, Glass Tube, Orifice Tube, PVC Water Pipe, Rubber 'O' Ring. Mixing Chamber is the place where chlorine Liquid Gas and water are mixed as per the requirement. Flow of Chlorine Gas is indicated by Mixing Chamber Orifice Tube.