Tubular Gage Glass

**STANDARD – 4SPS**
(Saw Cut)
Economical, low pressure applications, long service life.

- LOW PRESSURE BOILERS
- RESTAURANT EQUIPMENT
- CLOSED TANKS
- LIQUID LEVEL GAGES
- SIGHT FLOW
- FILM ROLLS HYDRAULIC EQUIPMENT

**HEAVY WALL - 4SHW**
(Carborundum Saw Cut)
Permit stable and reliable operation while viewing oil, water or gas flow rates.

- CRUDE OIL
- WATER OR GAS FLOWMETER
- LOW PRESSURE BOILERS
- SIZE RANGE 5/8” OD to 1” OD

**HIGH PRESSURE - 4SHP**
(Saw Cut and Fire-polished)
Visual indication of liquid flow, contamination or discoloration of liquid, metering a constant rate of flow through a fixed port.

- SIGHT & FLOW INDICATORS
- SIZE RANGE 1/2” OD to 1-1/2” OD

**Established Distributor at work for you**
Providing the preferred product of a variety of industrial and commercial applications.

Duran tubular gage glass is offered as Red Line, Standard, Heavy Wall, High Pressure, and Heavy Wall Red Line. Diameters range from 1/2” OD to 1-1/2” OD. End finishes may be cut, ground, or fire polished depending on application. Pressure ratings range from 90 psi to 600 psi depending on end finish, diameter, and length required.

The Duran product line is an outstanding product for chemical services. Certain limitations, however, must be recognized regarding corrosives. The below graph illustrates how the rate of corrosion increases with temperature and concentration. Alkaline solutions attack glass very slowly but as temperature is increased over 100°F, the corrosion rate rises rapidly.

![Graph showing corrosion rate vs. temperature and concentration]

<table>
<thead>
<tr>
<th>Temperature °F</th>
<th>Rate of Corrosion (in.)/Year</th>
</tr>
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<tbody>
<tr>
<td>70</td>
<td>0.10</td>
</tr>
<tr>
<td>90</td>
<td>0.75</td>
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<tr>
<td>110</td>
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<td>410</td>
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</table>

*Calculated from weight loss over a 24 hour period

**Red Line - 4SRL**
(Fire Polish)
The red line shaded with white lines make it easier to read the liquid level.

- TANKS
- RESERVOIRS
- LOW PRESSURE BOILERS
- SIZE RANGE 1/2” OD to 1” OD

**HEAVY WALL RED LINE - 4SHWR**
(CARBORUNDUM SAW CUT)
Permit stable and reliable operation with better viewing of oil, water or gas flow rates. The red line shaded with white lines make it easier to read the liquid level.

- CRUDE OIL, WATER OR GAS FLOWMETER
- SIZE RANGE 5/8” OD to 3/4” OD

Information regarding maximum working pressure, psi; Temperatures with no corrosion and for Maximum working pressure, psi; Steam Boiler Service contact APG for more information.
Heavy Wall Tubing 4CHW237

Corning Pyrex brand glass tubing is a low expansion borosilicate glass composition with high chemical resistance, making it the most popular type of glass in the world for scientific laboratory use. Corning Pyrex glass tubing meets all U.S. pharmocopeia specifications for Type 1A glass.

3/4” OD to 6-1/2” OD available.

3/4” Annular Edge Sight Glasses

Plain (Annealed) 4CP69
High Pressure (Tempered) 4CT69

Diameters range from 4” to 8-3/8”. The thickness gives boiler operators extra safety for their application. Providing Optical clarity and greater thermal shock resistance.

Flat Gage Glass

APG offers Broscilicate Gage Glass in standard, high pressure, and reflex. The flat gage glass is widely and commonly used for viewing liquid levels. Size 1-9 available in Type A Plain, Type A High Pressure and Type B Reflex.

Type A (4MPL) Plain Gage Glass—designed to use in armored-type liquid level gages, Type-A plain Gage Glass provides a high-strength tempered borosilicate glass with a high degree of visibility. Type A Plain Gage Glass is designed for moderate-pressure steam boiler and for liquid level indicators.

Type A High (4MHP) Pressure Gage Glass—designed to use in armored-type liquid level gages, Type-A High pressure Gage Glass provides a high strength tempered borosilicate glass with a high degree of visibility. Type A High Pressure Gage Glass will take non-steam pressure up to 5000 psi.

Type B (4MRF) Reflex Gage Glass—designed to use in armored-type liquid level gages, Type-B Reflex Gage Glass is made for extra ease in locating liquid levels the gage glass has vertical prisms extending the full viewing length of the glass. The prism side faces the liquid. The sections of the prisms not covered with the liquid reflect light spectacularly. Therefore, the liquid level stands out very clearly from a long distance away.

*Glass Gaskets are designed for a variety of standard purposes. They work well in mild acids, hot water, inert gases, and alkalines. They also can be used in a number of high pressure and high temperature applications such as petrochemical, refinery and power plants. Please verify gasket material needed for applications.
Related Glass Products

Rigid Plastic Tubing - 4PT
Outside diameters 1/2”, 5/8”, 3/4” and 1”. Length ranges from 1” to 72”

Brass Guard Rods - 4BR
Maximum length of 144” in diameters of 3/16” or 1/4”

Gage Glass Cutters

14H13520
Griffin Glass Cutter

14W79014
Wheeler Chain Type

14W7914
Wheeler Replacement Chain

Conbraco Water Gauges
Available in multiple series
Rough Brass 3C20-100; 3C20-200;
Equipped with ball checks 3C20-150; 3C20-250; 3C20-350
Polished Brass 3C25-500

Specialized Fabrication

Tubing Sizing - Edge Grinding
Precision Hole Patterns - Specialty Sizing Cuts

Traditional craftsmanship to state of the art technology available for cutting glass. Providing skilled and intricate work along with fast cutting speeds with high precision for flat glass and tubing fabrication. Allowing quick turn-around on orders.

33” x 45” sheet glass available for customized cuts. A minimum of 1” allowance on the length and width.

“America’s Most Responsive Warehouse”

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