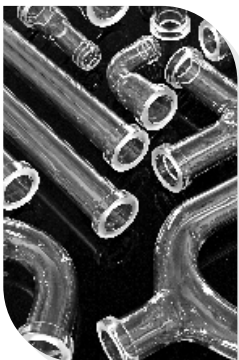


Glass Components



PIPE LINE COMPONENTS



ablaze borosilicate glass 3.3 pipelines is widely used in the chemical, pharmaceutical and allied industries together with other applications such as food and drink production, dye works and electroplating. This is because of the special properties of borosilicate glass 3.3 and PTFE (gaskets) plus the fact that borosilicate glass 3.3 is an approved and proven material of construction for highly corrosive chemicals.

Reference should also be made in this context to the extreme reliability of the improved, strong and Heavy duty coupling system used for all components. This is achieved throughout the whole range of nominal sizes by the use of the safety buttress end which has been designed specifically by taking into account the properties of the material combined with a reliable flange system.

ablaze valves can be relied upon to require minimum maintenance and to provide maximum reliability in service.

Ablaze provides Borosilicate Glass valves for different duties like On-off valves with Regulating Plugs, Vent Valves, On Line Sampling Valves, Spring Loaded Safety Valves, Hand Control valves. Flush Bottom Valves for the reactor. Beauty of this valves is universal corrosion resistance against Chemicals (Wetted Parts are Glass And PTFE).

In the areas of Automation Intrinsically safe Control Valves are Available.

VALVES



VESSELS

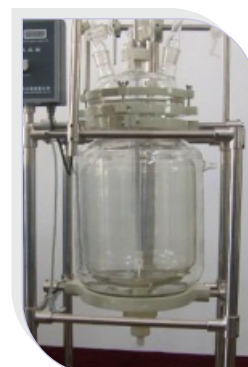


ablaze vessels & stirrers provide best solution for all requirements encountered in production processes because of wide range of vessels available. Vessels are essential components of many units & plants. The vessels can be combined with various components as stirrers, stirrer drive, vessel covers & heat exchangers to construct wide variety of stirred units & reaction systems. These vessels find universal application as reactors, receivers, reboilers, Cyclone separators, Liquid extractors in chemical industry. Borosilicate glass vessels are available for major Unit Operation and Unit processes. Customised Solutions are also Available. Please ask our Glass Process engineer for Fixing exact suitable glass equipment. Please find different configuration and options available in Pilot Plant Flyer.

Considering Geometrical Similarity Concept and various options such as Efficient Mixing, Various Agitator Configurations, Cylindrical Vessels Are quite popular for Pilot plant and Scale up. For heating and cooling purpose, Jacketed Glass vessels are available. Glass jackets are available up to 100 Liter.

Glass Jackets of Larger size has Pressure Limitation so *ablaze* has designed Metal Jackets. It not only withstands higher pressures but also available with required Thermal Insulation and for CGMP, SS Mirror Finished Jackets are available. Glass Cylindrical vessels are available upto 300 Liter. It is Economical option to Glass Lined Reactor for negative pressures as cheaper and having faster delivery schedule to cut down production loss and scale up time for new Pharmaceutical Molecule.

JACKETED GLASS VESSELS



Glass Components



HEAT EXCHANGER



ablaze heat exchangers provide the optimum solution for every requirement encountered in practice because of the wide range of types available. Due to its very smooth Surface ,it has comparable heat transfer Performance with other MOC.

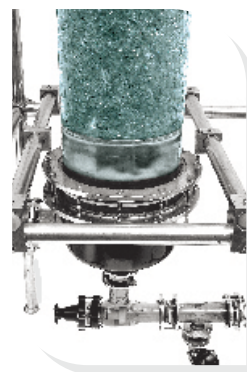
These items are widely used in the chemical, pharmaceutical and allied industries together with other applications such as food and drink production, dye works and Electroplating. Glass Heat exchangers are available in major two types Shell and Coil and Shell and Tube Heat .Both the Heat exchangers are used in Condensation, Heating Cooling ,Evaporation and as reboilers. They are also used as Falling Film Evaporators and Reactors Glass Shell and Tube are available up to 50 Mt2 .It is available with Different Shell and Bonnet MOC Considering Process side Allocation and Pressure. Glass Shell and Tube heat exchanger can work Up to 3 Kg/Cm2 (g)Operating Pressure on Process side.(Either Shell or Tube)It is better Option to Glass Lined Double wall Heat Exchanger.

ablaze column components provide the optimum solution for every requirement encountered in practice for operations such as distillation, rectification, absorption, reaction and extraction because of the wide range of different components available.

This applies not only to the various types of column and pipe sections available (plain and jacketed and with or without internals) but also to the wide selection of internals and random and structured packing that can be supplied. Various type of Feed Distributor, Liquid Distributor, Packings for Packed Column. Bubble Cap and Sieve tray columns are available for Best distillation Performance.

Glass Column and Components are Available up to 600DN Diameter.

COLUMN COMPONENT



COUPLING & GASKETS



ablaze couplings are a strong and high-duty system providing maximum reliability with the minimum of maintenance. This is achieved throughout the whole range of nominal sizes by the use of the safety buttress end, which has been designed specifically to take into account the properties of the material, coupled with corrosion resistant, easy-to-install gaskets plus the carefully dimensioned individual parts of the actual coupling.

The materials are selected to consider both the type of products being handled in the plant and equipment and also the possibility that they may be located in a corrosive atmosphere.

The particular properties of borosilicate glass 3.3 and the fact that it is an approved and proven material of construction for pressure vessels are of prime importance in this connection. This is one of the reasons that borosilicate glass 3.3 is so widely used in the chemical, pharmaceutical and allied industries together with other applications such as food and drink production, dye works and electroplating.



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