

VAREC BIOGAS Insulating Jackets COLD WEATHER PROTECTION

The Varec Biogas Insulating Jackets provide additional cold weather protection for Varec Biogas safety equipment installed outdoors.

Introduction

The Varec Biogas Insulating Jackets provide a cost-effective method to additional cold weather protection for Varec Biogas safety equipment installed outdoors. Digester gas has saturated vapor that is susceptible to freezing when exposed to extreme cold. This can affect the overall plant operation. It can also inhibit the equipment's primary safety function. Varec Biogas can provide tailor-made insulating jackets for safety equipment we manufacture.

Construction

The insulating jacket is constructed with a silicone impregnated woven glass cloth lining with a 1" thick, 6-lb density fiber glass insulating material. Through-cover quilting pins provide firm support for the insulation. The pins keep the insulation from shifting inside the liner and jacket. This provides dimensional stability and uniform heat retention. The silicone lining has inside seams and folded closing seams with two parallel rows of stitching.

Technical Data

- Tailor Made for many Varec Biogas Products
- Uniform Heat Retention
- Temperatures up to 500° F (Standard)
- Little or No Maintenance



Installation

The insulating jacket supplied with the Varec Biogas equipment is fastened and removed using a combination of Velcro and cinch belts. This allows for easy access to the equipment. The following Varec Biogas equipment is typically specified with tailor-made insulating jackets because these items are frequently installed outdoors.

Model 440 - PRESSURE REGULATOR & FLAME TRAP ASSEMBLY

This unit is typically installed on the gas line header to the waste gas burner. The deflagration flame arrester that comes with this unit is recommended for installation at no more than 15 feet from the potential flame source.

The waste gas burner is installed outdoors, at least 50 feet from any digester or buildings that house gas control equipment. In order to meet the 15 feet recommended installation for the flame arrester, the Model 440 is installed outdoors and requires protection from cold weather conditions.

Model 5810B/ 5820B & 5811B/ 5821B - PRESSURE & VACUUM RELIEF VALVE WITH FLAME ARRESTER

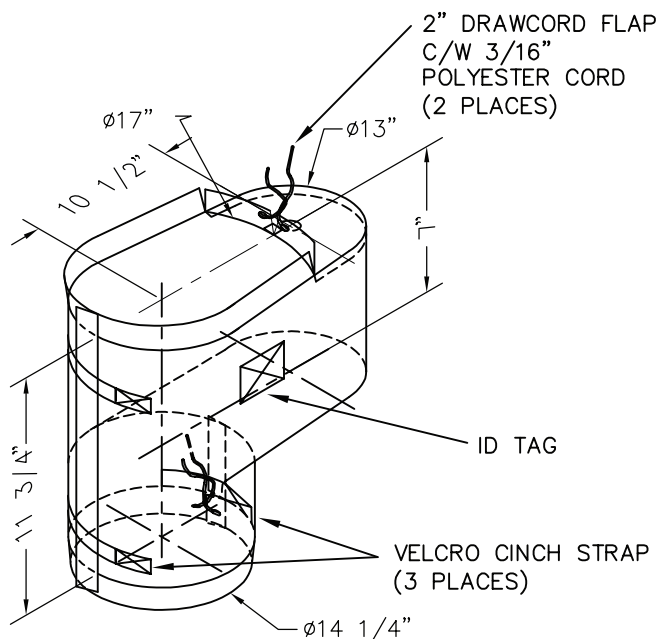
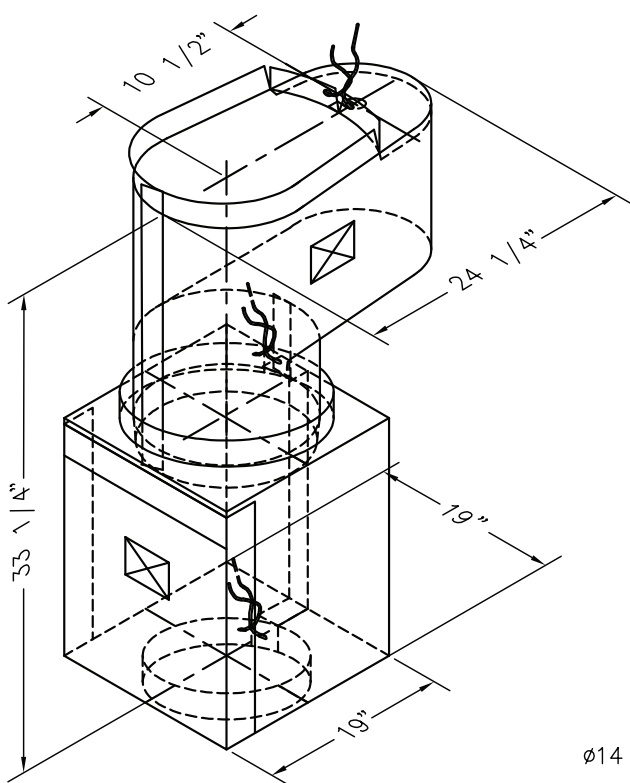
This unit is installed on top of digesters to provide for emergency pressure and vacuum relief. The end-of-line flame arrester prevents any potential flame flashbacks.

Specifications

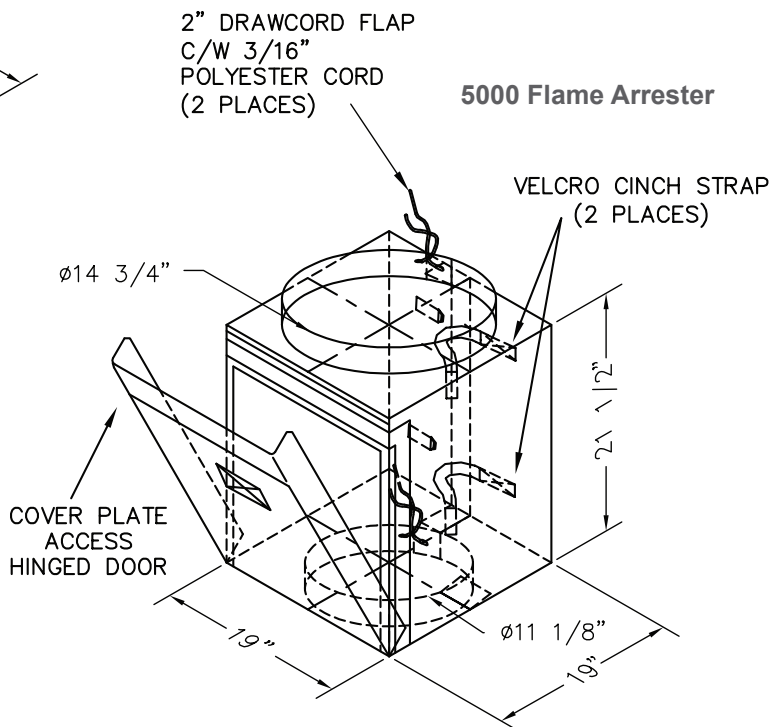
Dimensions are approximate and are shown in inches. Installation, mounting arrangement and dimensions are preliminary general information that is not to be used for construction.

Certified drawings are available for specified equipment.

5810B/ 5820B/ 5811B/ 5821B
Pressure Relief Valve & Flame Arrester



2010B/ 2020B/ 2011B/ 2021B
Pressure Relief Valve

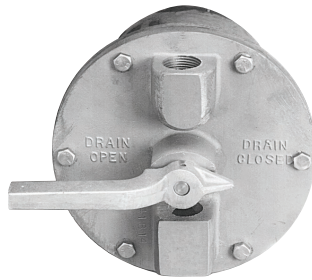


Consult factory for insulating jacket dimension drawings for other equipment shown in equipment availability guideline.

Equipment Availability Guideline



MODEL 245
Automatic Drip Trap



MODEL 246
Low Pressure Manual Drip Trap



MODEL 247
High Pressure Manual Drip Trap
MODEL 247AT, Electric Actuated Version
(Not Shown) can also be provided



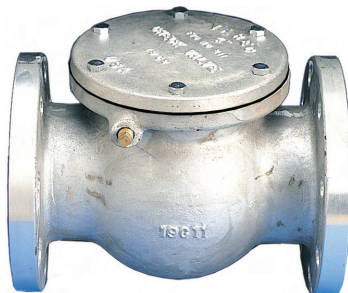
MODEL 386
Back Pressure Regulator



MODEL 246AT
Low Pressure Electric Actuated Drip Trap



(SSV)
Safety Selector Valve



MODEL 211
Low Pressure Check Valve



MODEL 233
Condensate and Sediment Trap

Equipment Availability Guideline

Ordering Information

Please consult the factory for Insulating Jacket availability for Varec Biogas Equipment not pictured in this guideline.
Consult your local sales representative or the factory for ordering information.



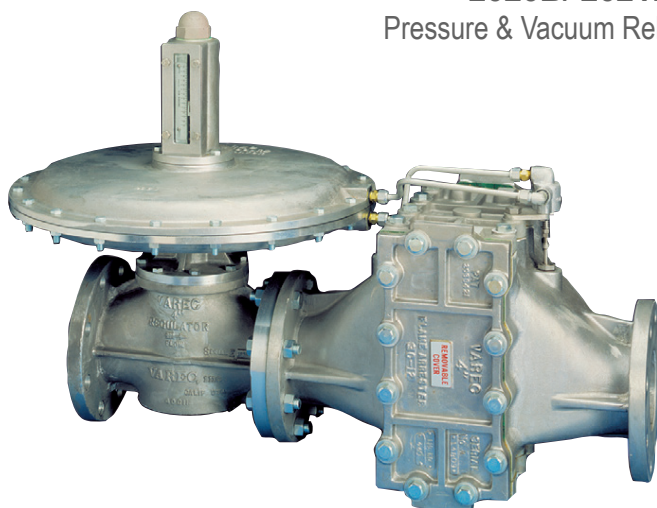
MODEL 7100B/ 7101B
Pressure (Explosion) Relief Valve



**MODEL 2010B/ 2011B
2020B/ 2021B**
Pressure & Vacuum Relief Valve



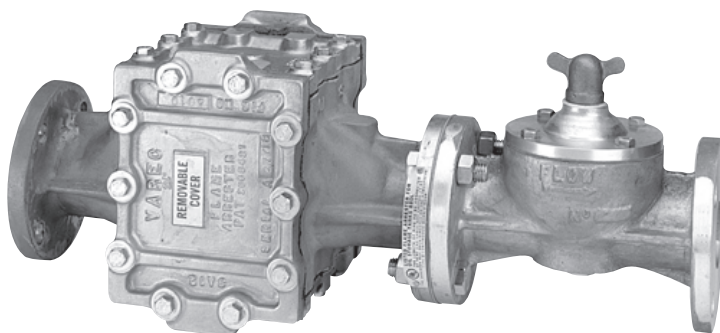
MODEL 5000/ 5010
Flame Arrester
The Insulating Jacket provides access to the removable cover.



MODEL 440
Pressure Relief and Flame Trap Assembly



MODEL 5810B/ 5811B
Relief Valve and Flame Arrester



MODEL 450
Flame Trap Assembly