

'GAS SAMPLERS'

GSS-1, GSS- 4 & GSS-4PM

Applications:

The **GSS-1 Gas Bypass Sampler** is used mainly on HIOS pipeline system and when proportional-to-flow sample collection is required.

The **GSS-4PM Probe Mounted Gas Sampler** completely purges the system prior to collection of the sample and is completely effective in wet, dirty, and high BTU gas.

The **GSS-4 Vanishing Chamber Sampler** features Welker's unique collection head. Its design allows Welker gas samplers to PUMP the product into the collection cylinder, regardless of pipeline pressure.

OPTIONAL: Welker offers the following style of inline relief for the GSS-4. EXTERNALLY ADJUSTABLE INLINE RELIEF - serves the same purpose as the standard inline relief, but may be adjusted if needed while the sampler is in operation.

The GSS-1, GSS-4 and the GSS-4PM Samplers set new standards in versatility and accuracy. Welker samplers perform.

Features and Benefits

- Stainless or carbon steel construction
- Easy routine maintenance - only two dynamic o-rings
- Purges...
- Samples at full pipeline pressure- no inlet check valve to restrict the flow of gas to the sampler

Manufactured under one or more of the following U.S. Patents:

4,172,670	4,177,676	4,387,592
4,403,518	4,403,519	4,440,032
4,463,603	4,470,773	4,525,127
4,557,151	4,628,750	4,631,967
4,829,835	4,841,785	4,928,536
4,942,772	5,213,586	

Other patents pending.



GSS-4PM



GSS-4



Welker® 'Gas Samplers'

Specifications*

Pressure Rating

2160 psi w.p. at -20 ° to +100 °
High pressure models available

Instrument Pressure

GSS-1 Min/Max: 65/100 psi
GSS-4 Min/Max: 20/85 psi
GSS-4PM Min/Max: 50/100 psi

Materials

316 stainless steel construction
Soft goods: PTFE/Viton - other materials available.

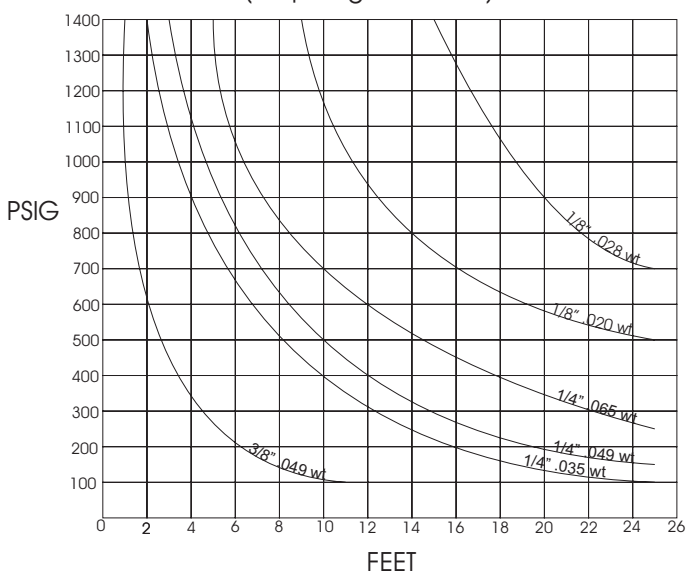
Connections

1/4" NPT Inlet
1/4" NPT Outlet

Options available:

Higher Working Pressure Design
Pressure Trend Recorder
Instrument Supply Filter Dryer
Constant Pressure Cylinder
Cylinder Holder
Liquid Eliminator Stainless Steel Knock Out
Drip Pot
Enclosures

Maximum Tubing Lengths Between Line and Sampler
(Diaphragm models)



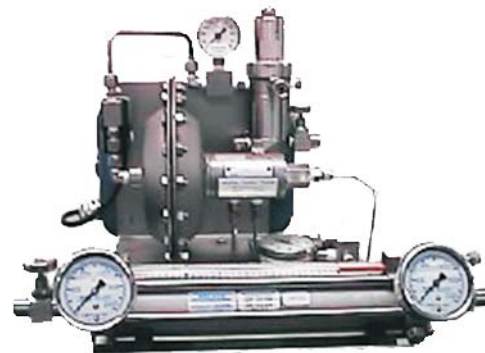
GSS-4

The heart of the Welker Gas Sampling System is the GSS-4 Vanishing Chamber Pump. With its unique collection head design, the GSS-4 is the best sampler pump available.

With each actuation of the sampler, the collection head is compressed. This causes the chamber in the collection head to vanish, thereby totally voiding itself of product.

Complete voiding of the collection chamber is an important part of collecting a representative sample. It insures that each new "bite" will be representative of what is flowing through the line at that instant.

Welker Gas Sampling systems can be supplied with a variety of elastomer choices, regulators, reliefs, filters, timing systems, mountings, enclosures (heated available) and materials of construction to meet specific applications.



GSS-1



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*Specifications subject to change without notice.
Drawings/Photos may be shown with optional equipment.

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