**WELKER®**ISO-9001
CERTIFIED
SINCE 1992

Welker® Probe Style Instrument Regulator

Style IRD-4SS

The IRD-4SS is a Welker® Original Product designed to improve the profitability of your company. Welker® probe regulators collect product from the center one-third of the flowing stream where the most representative sample is found.

General Description

The Welker® Probe Regulators are designed to provide your chromatograph, H₂S analyzer, thermotitrator, moisture analyzer, gravitometer, calorimeter, or other on-line gas analyzer with a properly conditioned sample stream. These regulators are designed with the point of regulation near the tip of the probe in the flowing stream. The natural temperature drop that occurs at the point of regulation (Joule-Thomson effect) is offset by the thermal fins on the probe tip. IRD probe style regulators can only be installed with a depressurization of the pipeline. (Welker offers the IRA series which can be inserted under full line pressure.)

Features

- Probe design inhibits creation of free liquids into instrument supply system.
- Diaphragm design for increased low pressure sensitivity.
- Range springs for 0 - 25 psi (0 - 1.7 Bar), 0 - 50 psi (0 - 3.4 Bar), or 20 - 100 psi (1.4 - 6.9 Bar). Higher ranges available.
- Thermal fins on probe off-set temperature change at point of regulation.
- 316 stainless steel construction.

**Welker®... When Excellence Counts!**

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Specifications*

• Application

The IRD-4SS can be used with all products that are compatible with the materials of construction and seal material. High capacity downstream relief is recommended.

• Pressure Rating

3,000 psi (207 Bar) maximum inlet pressure.
Higher pressure ratings available.

• Temperature Rating

From -20 to +400°F (-29 to 204°C).

• Probe Length

3.5" (89 mm) standard length.

• Flow Data

C_v - .138

• Inlet Filter

30 -35 Micron.

• Materials

316 stainless steel construction with Viton® seals and Teflon seat.

• Connections

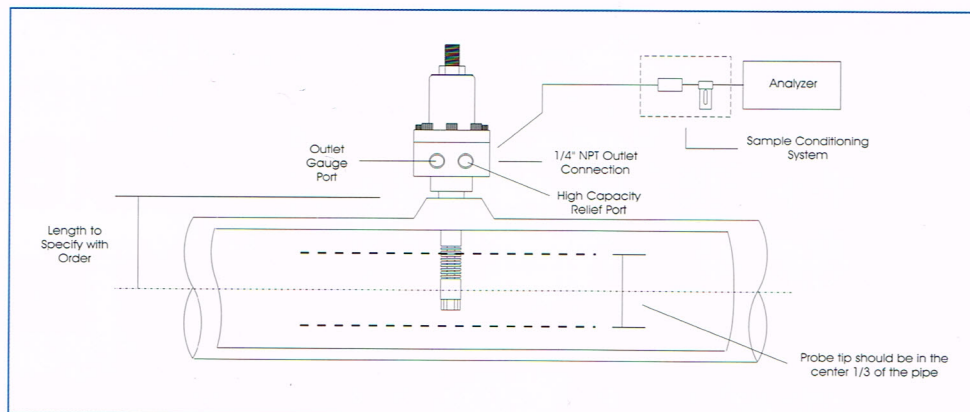
Pipeline connections are 1/2" NPT, 3/4" NPT, 1" NPT, standard (other sizes are available). Outlet, gauge and relief valve connections are 1/4" NPT.

• Weight

4 lbs. (1.8 kg).

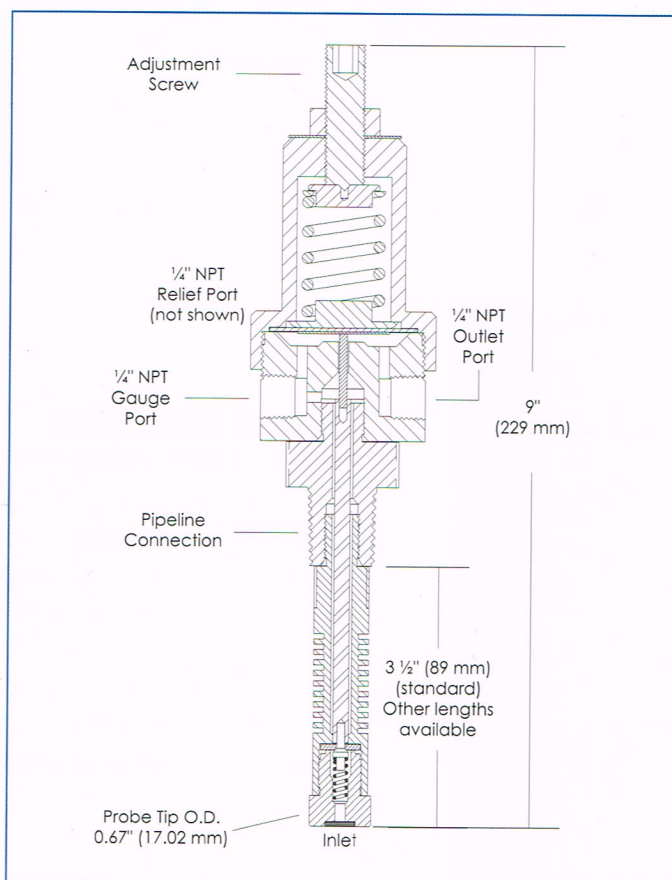
Non-standard designs available upon request

**Specifications subject to change without notice.*



Typical Installation Schematic

(Drawings/Photos may be shown with optional equipments.)



Model IRD-4SS

Options Available

- Other materials available
- 5000 psi (345 Bar) working pressure
- 1", 2", 3", 4" flanged connections in pressure ranges from 150 ANSI to 1500 ANSI, RF/RTJ

Other Welker Products

- Analyzer Liquid Shut-Off
- Vent Check Valves
- Liquid Eliminators
- Filters
- Sampling Systems
- Chemical Injection Systems
- Control Valves



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