

Advanced Sulfur Reduction (ASR) Sampling Probe

Superior Benefits

- ▶ Prevents sulfur plugging
- ▶ Reduces installation costs
- ▶ Reduces maintenance
- ▶ “Double block” option

Application

- ▶ Sulfur Recovery Units

The Need

Continuous, on-line analysis of tail gas is a requirement for efficient operation of an SRU. There are conditions, however, which prevent efficient operation from occurring. If the analyzer is not operating because the sample system is plugged, there is a loss of control and a loss of efficiency.

The problem is sulfur. It freezes, it condenses and it interferes with the analysis of the tail gas. The need is to reliably heat all parts of the sample system to prevent freezing and condensation. The problem is the steam used to heat traditional sample systems; it's unreliable and difficult to control. The need is to remove the majority of the sulfur from the sample stream before it becomes a problem in the rest of the sample system.

The need is to solve sampling problems.

The Solution

AMETEK's ASR 900 Sampling Probe.

This unique design removes the sulfur at sample point. The probe incorporates a condenser, coalescer, aspirator and sample line connections all in a temperature-controlled body.

The ASR 900 probe is controlled at precisely the correct temperature to reduce sulfur and prevent plugging by an integrated electrical heater approved for hazardous areas.

The ASR 900 probe reduces installation costs. Sulfur reduction at the sample point allows freedom in locating the analyzer system below the sample point. Only one process connection is required.

The integrated shut-off valves allow servicing without removing the probe from the process. Safety during maintenance is ensured because the probe body and the sulfur knockout can be dismantled without exposure to process gas. For additional safety integrity, the ASR has an option of double block valves.

AMETEK Process Instrument's ASR probe is an integral component of the 900 Air Demand Analyzer. Whatever the requirement at the sample point, AMETEK Process Instruments can supply a trouble-free engineered solution.



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Performance Specifications

Ambient Temperature: -50 °C to 70 °C (-58 °F to 158 °F)

Utility Requirements

120/240V, 50/60 Hz, 150W

Less than 1.0 SCFM instrument air (from analyzer)

Process Connection: 1 1/2 in. M-NPT. Various ANSI flange adaptors available (ex: 1 1/2" to 3" at 150 lb or 300 lb.)

Ingress Protection

NEMA Type 4

Meets IP55

Dimensions (H x D): 127 x 267 mm (5 x 10.5 in.)
(requires 51 mm [2 in.] on either side for installation purposes)

Weight: 11.5 kg (25 lbs.)

Approvals and Certifications

CSA certification to CSA and UL Standards for General Safety Requirements

CSA certification to CSA and UL Standards for Class I, Division 1, Groups B, C and D

Ex d IIB + H₂ T3 (Class I, Zone 1, Group IIB + H₂)

ATEX Directive; II 2 G Ex d IIB + H₂ T3

Complies with all relevant European Directives

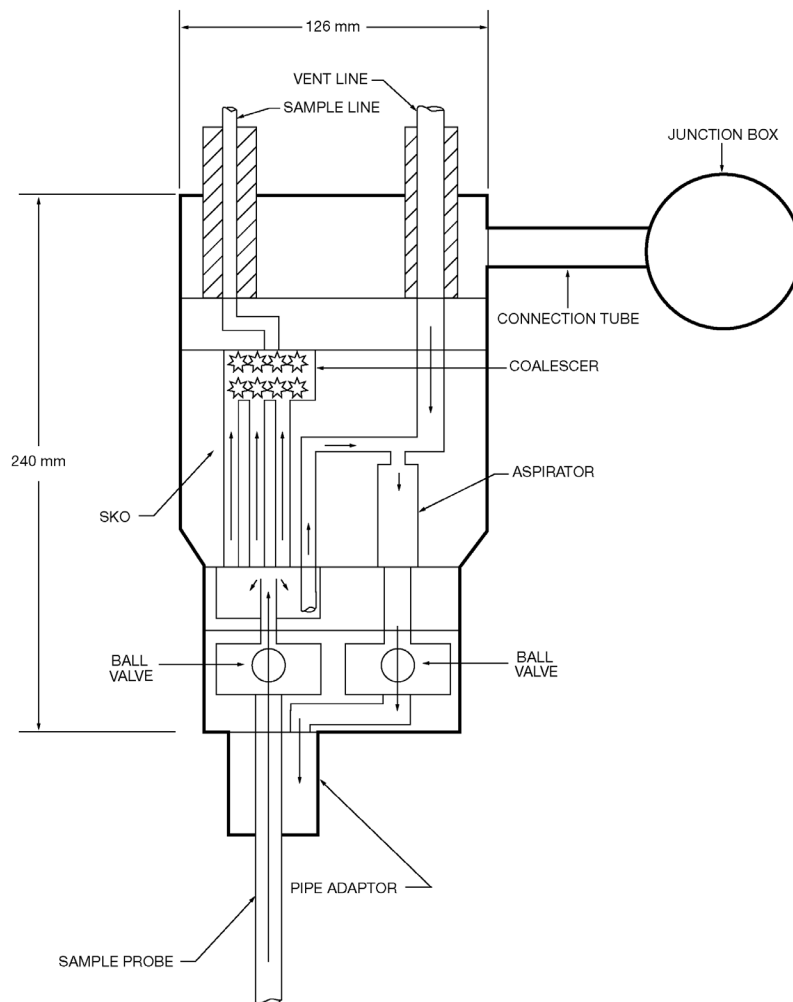
Russian Gostandart Ex Proof Certification; 1ExdIIBT3

Pressure Equipment Directive

Canadian Registration Number 0H05289.235R1^{1, 2}

1. High temp version

2. ASME Boiler and Pressure Vessel Code 1998, Section VIII Division 1



AMETEK[®]
PROCESS INSTRUMENTS

2876 Sunridge Way N.E., Calgary, AB T1Y 7H9
Ph. +1-403-235-8400, Fax +1-403-248-3550
www.ametekpi.com



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One of a family of innovative process analyzer solutions from AMETEK Process Instruments.
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SALES, SERVICE AND MANUFACTURING:

USA - Pennsylvania

150 Freeport Road, Pittsburgh PA 15238 • Tel: +1-412-828-9040, Fax: +1-412-826-0399

USA - Delaware

455 Corporate Blvd., Newark DE 19702 • Tel: +1-302-456-4400, Fax: +1-302-456-4444

Canada - Alberta

2876 Sunridge Way N.E., Calgary AB T1Y 7H2 • Tel: +1-403-235-8400, Fax: +1-403-248-3550

WORLDWIDE SALES AND SERVICE LOCATIONS:

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BRAZIL

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Chengdu / Tel: +86 28 8675 8111, Fax: +86 28-8675 8141
Shanghai / Tel: +86 21 6426 8111, Fax: +86 21 6426 7818

USA - Austin, Texas

Tel: +1-512-252-2440, Fax: +515-252-2430

FRANCE

Tel: +33 1 30 68 89 20, Fax: +33 1 30 68 89 99

GERMANY

Tel: +49 21 59 91 36 0, Fax: +49 21 59 91 3639

INDIA

Tel: +91 80 6782 3200, Fax: +91 80 6782 3232

SINGAPORE

Tel: +65 6484 2388, Fax: +65 6481 6588

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