## RECORD DOCUMENT TRANSMITTAL



To: BASF Agriculture From: Kelsey Sahinen-Pedroso

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Attn: Pfaudler Order #: 0052002319

Customer PO #: 4956556146

The following drawing(s) and Order Specification Data Sheet(s) have been released for fabrication:

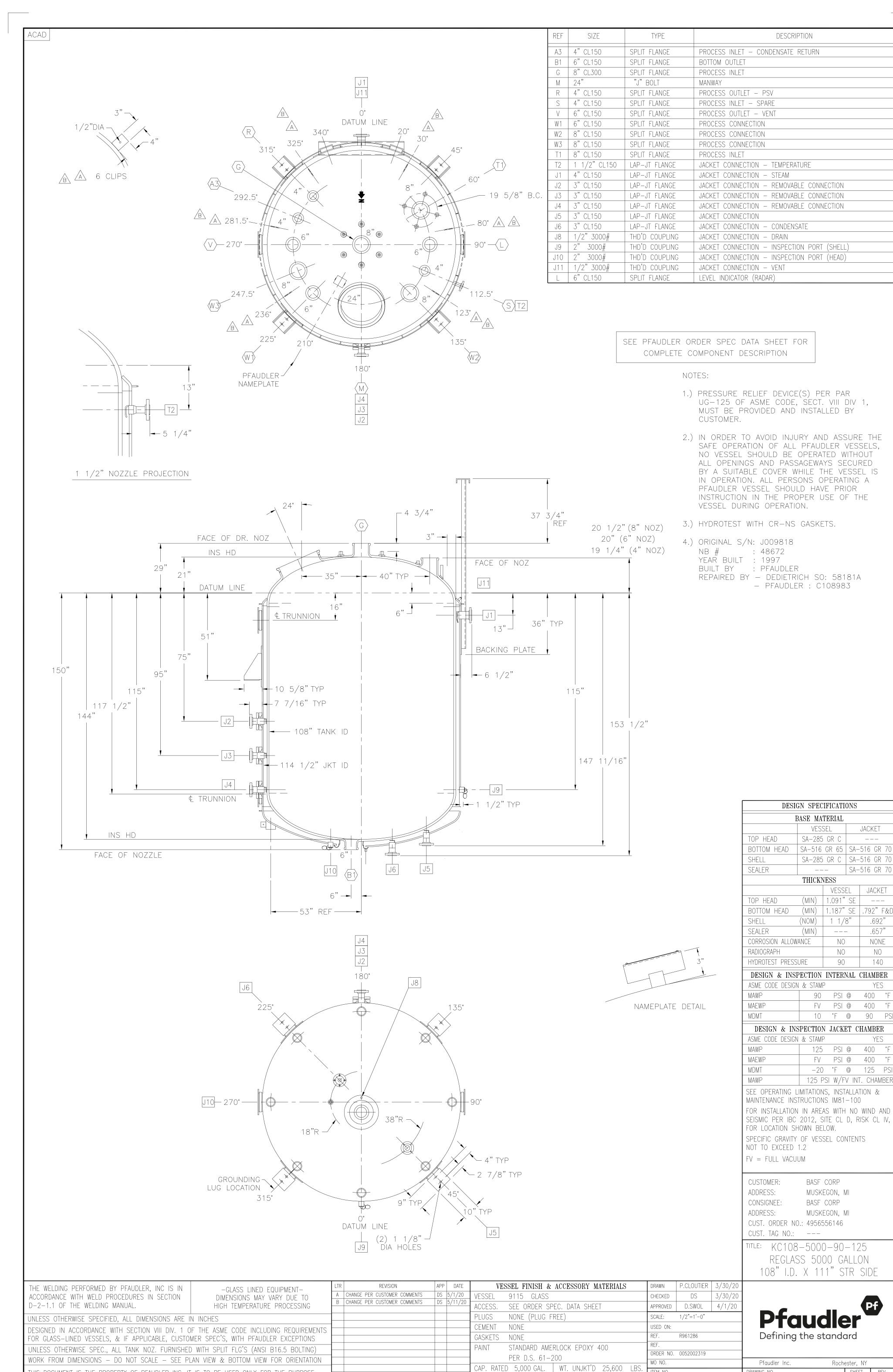
Document	Rev	Date Sent	<u>Description</u>
V161094 approval drawing	В	5/11/20	5000-gallon reactor approval drawing
0052002319 OSDS	1	5/11/20	0052002319 order specification data sheet

You are responsible for verifying the drawing(s) and Order Specification Data Sheet(s) listed above for compliance with your Purchase Order and notifying Pfaudler immediately of any apparent discrepancies.

Revisions after your approval will incur a minimum fee of \$500.00.



W: www.pfaudler.com



CAP. FULL 5,830 GAL.

WT. JKT'D

WT./ACC'S.

39,350 LBS.

161094

DRAWING NO.

V161094

SHEET

REV

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Pfaudler, Inc. 1000 West Ave, PO Box 23600 Rochester, NY 14692-3600 T: 585-235-1000

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# ORDER Specification Data Sheet

# 1) Reconditioned RS-108-5000-90-125 Glass-lined Carbon Steel RS-Series Reactor

# **Equipment**

Reconditioned 5,000 gallon capacity, one piece reactor. Refer to DS81-500-D.

108" I.D. x 111" straight side.

Original Serial Number: J010979

Original Drawing Number: R971029

# Design Conditions [rev 1, 5/1/20]

Internal: 90 psig or full vacuum at -20 degrees Fahrenheit to +400 degrees Fahrenheit with or without full jacket vacuum.

Jacket: 125 psig or full vacuum at -20 degrees Fahrenheit to +400 degrees Fahrenheit with or without full internal vacuum.

## **Openings**

#### Top Head:

Cover 1 – 24" manhole opening.

- 1 8" nozzle drive nozzle
- 3 8" nozzles, nozzle at 60° with baffle bosses.
- 3 6" nozzle
- 3 4" nozzles

#### **Bottom Head:**

1 – 6" nozzle.

#### Capacity

Nominal capacity	5,000-gallons
Capacity full	5,830-gallons
Jacket volume	630-gallons
Total heat transfer area	356 sq. ft

Order #: 0052002319, rev. 1 PO #: 4956556146 Page 1 of 3
Customer: BASF Agriculture Item #: V161094 Print Date: 5/1/20



#### Code

Built and stamped in accordance with the ASME Code, Section VIII, Division 1.

# **Glass Lining**

## Vessel Lining

9115 dark blue Glasteel, World Wide Glass (WWG), offering superior resistance to acid and alkali corrosion. Factory tested at 15,000 volts. This vessel will be supplied PLUG FREE. Refer to SB95-910.

# **Exterior Coating**

Amerlock 400 high solids, amine modified polyamide epoxy, horizon blue, per data sheet DS61-200, standard system. Refer to DS61-200.

#### **Jacket**

Conventional, one chamber jacket assembly.

One set of Cl. 150 flanged lap joint jacket connections consisting of:

- 1 4" overflow connection,
- 3-3" flanged jacket shell connections with pad mounted jacket connections,
- 1 3" head connections,
- 1 3" head drain connections,
- 1 each 1/2" sealer vent and diaphragm drain 3000# threaded couplings.

# Supports

Four – side supports designed for S.G. = 1.2, designed for seismic loads per vessel destination (IBC 2012), no wind load. Site class = D, risk class = IV.

#### **Documentation**

Manufacturer's Data Report, National Board registration, certified drawings, and Installation and Maintenance manuals.

# Inspection

Customer in-process or hold point inspections are not included at this time. These can be provided, however, please note that these may result in longer lead times and/or additional costs. If these are required, please notify Pfaudler prior to placing an order and Pfaudler will review for potential schedule or cost impact. Pfaudler will provide 2 weeks' notice for mutually agreed-upon hold points.

As part of our standard practices, Pfaudler completes a thorough inspection of all equipment per our internal quality procedures. The inspections and tests depend on the type of equipment and include, but are not limited to, visual inspection, spark test (glass-lined equipment only), hydrotest, agitator run tests (agitated vessels only), etc. The results can be made available prior to shipment, upon request, or provided with the equipment documentation package.

Order #: 0052002319, rev. 1 PO #: 4956556146 Page 2 of 3
Customer: BASF Agriculture Item #: V161094 Print Date: 5/1/20



#### Other Items Included

Ladder Tabs – Include 6 ladder tabs on the top head. [rev 1, 5/1/20]

#### **Notes**

- These commodities, technology or software are subject to the laws of their country
  of export and may also be subject to the laws of their country of origin. Re-export
  or diversion contrary to applicable law may be prohibited, especially with respect to
  commodities, technology, or software exported from the U.S.
- 2. Our goal is to provide a competitive price and the best delivery. As such, this vessel may be fabricated at our facility in Rochester, Brazil or Germany.

#### **Customer Specifications**

Applicable customer specifications and exceptions that pertain to this order: None.

Order #: 0052002319, rev. 1 PO #: 4956556146 Page 3 of 3
Customer: BASF Agriculture Item #: V161094 Print Date: 5/1/20