

3" Bolted Metallic Hazardous Service Ball Valve

AirVantage™ Energy Saving Technology

RE3

RE3 Metallic Pumps

- Aluminum
- Stainless Steel
- Hastelloy C

CE
0518

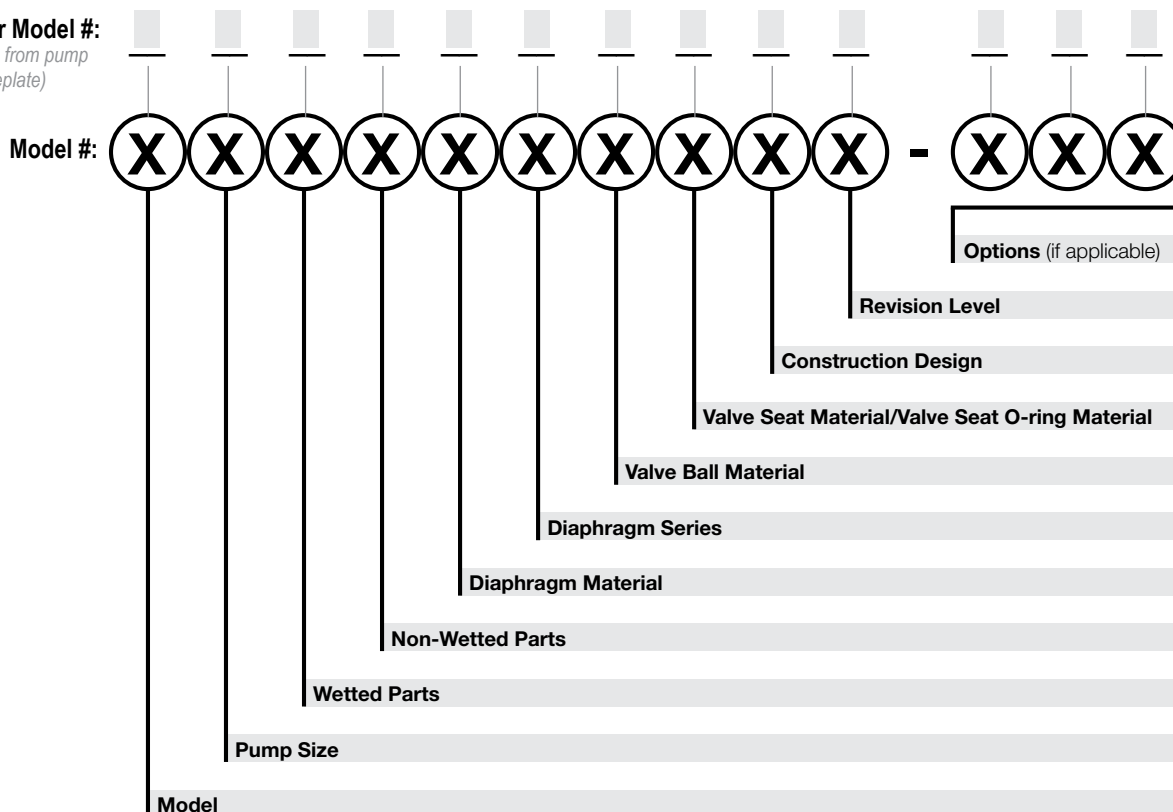



VERSA-MATIC®

Explanation of Pump Nomenclature

Your Serial #: (fill in from pump nameplate) _____

Your Model #:
(fill in from pump
nameplate)



Model

E Elima-Matic
U Ultra-Matic
V V-Series
RE AirVantage

Pump Size

6 1/4"
8 3/8"
5 1/2"
7 3/4"
1 1"
4 1-1/4" or 1-1/2"
2 2"
3 3"

Wetted Parts

A Aluminum
C Cast Iron
S Stainless Steel
H Alloy C
P Polypropylene
K Kynar
G Groundable Acetal
B Aluminum (screen mount)

Non-Wetted Parts

A Aluminum
S Stainless Steel
P Polypropylene
G Groundable Acetal
Z PTFE-coated Aluminum
J Nickel-plated Aluminum
C Cast Iron
Q Epoxy-Coated Aluminum

Diaphragm Material

1 Neoprene
2 Nitrile (Nitrile)
3 FKM (Fluorocarbon)
4 EPDM
5 PTFE
6 Santoprene XL
7 Hytrel
9 Geolast

Diaphragm Series

R Rugged
D Dome
X Thermo-Matic
T Tef-Matic (2-piece)
B Versa-Tuff (1-piece)
F FUSION (one-piece integrated plate)

Valve Ball Material Valve

1 Neoprene
2 Nitrile
3 (FKM) Fluorocarbon
4 EPDM
5 PTFE
6 Santoprene XL
7 Hytrel
8 Polyurethane
9 Geolast
A Acetal
S Stainless Steel

Seat/Valve Seat O-ring Material

1 Neoprene
2 Nitrile
3 (FKM) Fluorocarbon
4 EPDM
5 PTFE
6 Santoprene XL
7 Hytrel
8 Polyurethane
9 Geolast
A Aluminum w/ PTFE O-rings
S Stainless Steel w/ PTFE O-rings
C Carbon Steel w/ PTFE O-rings
H Alloy C w/ PTFE O-rings
T PTFE Encapsulated Silicone O-rings

Construction Design

9 Bolted
0 Clamped

Materials

Material Profile:	Operating Temperatures:	
	Max.	Min.
CAUTION! Operating temperature limitations are as follows:		
Conductive Acetal: Tough, impact resistant, ductile. Good abrasion resistance and low friction surface. Generally inert, with good chemical resistance except for strong acids and oxidizing agents.	190°F 88°C	-20°F -29°C
EPDM: Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair in ketones and alcohols.	280°F 138°C	-40°F -40°C
FKM: (Fluorocarbon) Shows good resistance to a wide range of oils and solvents; especially all aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils. Hot water or hot aqueous solutions (over 70°F) will attack FKM.	350°F 177°C	-40°F -40°C
Hytrel®: Good on acids, bases, amines and glycols at room temperatures only.	220°F 104°C	-20°F -29°C
Neoprene: All purpose. Resistance to vegetable oils. Generally not affected by moderate chemicals, fats, greases and many oils and solvents. Generally attacked by strong oxidizing acids, ketones, esters and nitro hydrocarbons and chlorinated aromatic hydrocarbons.	200°F 93°C	-10°F -23°C
Nitrile: General purpose, oil-resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	190°F 88°C	-10°F -23°C
Nylon: 6/6 High strength and toughness over a wide temperature range. Moderate to good resistance to fuels, oils and chemicals.	180°F 82°C	32°F 0°C

Polypropylene: A thermoplastic polymer. Moderate tensile and flex strength. Resists strong acids and alkali. Attacked by chlorine, fuming nitric acid and other strong oxidizing agents.	180°F 82°C	32°F 0°C
PVDF: (Polyvinylidene Fluoride) A durable fluoroplastic with excellent chemical resistance. Excellent for UV applications. High tensile strength and impact resistance.	250°F 121°C	0°F -18°C
Santoprene®: Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	275°F 135°C	-40°F -40°C
UHMW PE: A thermoplastic that is highly resistant to a broad range of chemicals. Exhibits outstanding abrasion and impact resistance, along with environmental stress-cracking resistance.	180°F 82°C	-35°F -37°C
Urethane: Shows good resistance to abrasives. Has poor resistance to most solvents and oils.	150°F 66°C	32°F 0°C
Virgin PTFE: (PFA/TFE) Chemically inert, virtually impervious. Very few chemicals are known to chemically react with PTFE; molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.	220°F 104°C	-35°F -37°C
<i>Maximum and Minimum Temperatures are the limits for which these materials can be operated. Temperatures coupled with pressure affect the longevity of diaphragm pump components. Maximum life should not be expected at the extreme limits of the temperature ranges.</i>		
Metals:		
Alloy C: Equal to ASTM494 CW-12M-1 specification for nickel and nickel alloy.		
Stainless Steel: Equal to or exceeding ASTM specification A743 CF-8M for corrosion resistant iron chromium, iron chromium nickel and nickel based alloy castings for general applications. Commonly referred to as 316 Stainless Steel in the pump industry.		

For specific applications, always consult the Chemical Resistance Chart.

AFTERMARKET PARTS

RIGHT PART, RIGHT NOW

Pumper Parts is your single source for parts that fit Air-Operated Double Diaphragm (AODD) pumps

- Wilden®
- ARO®
- Yamada®

Designed to perform equal to or greater than original equipment manufacture.



Phone: (419) 526-7296
info@pumperparts.com
www.pumperparts.com

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Performance

RE3 Bolted

Flow Rate

Adjustable to 0-245 gpm (927 lpm)

Port Size

Suction 3" ANSI 150# / DIN 80 Compatible Flange

Discharge . . 3" ANSI 150# / DIN 80 Compatible Flange

Air Inlet 1" NPT

Air Exhaust 1" NPT

Suction Lift

Dry 20' (6.10 m)

Wet 25' (7.62 m)

Suction Lift (PTFE)

Dry 10' (3.05 m)

Wet 20' (6.10 m)

Max Solid Size (Diameter)

. 0.75" (19.1 mm)

Max Noise Level

. 92 dB(A)

Shipping Weights

Aluminum 161 lbs (73.2 kg)

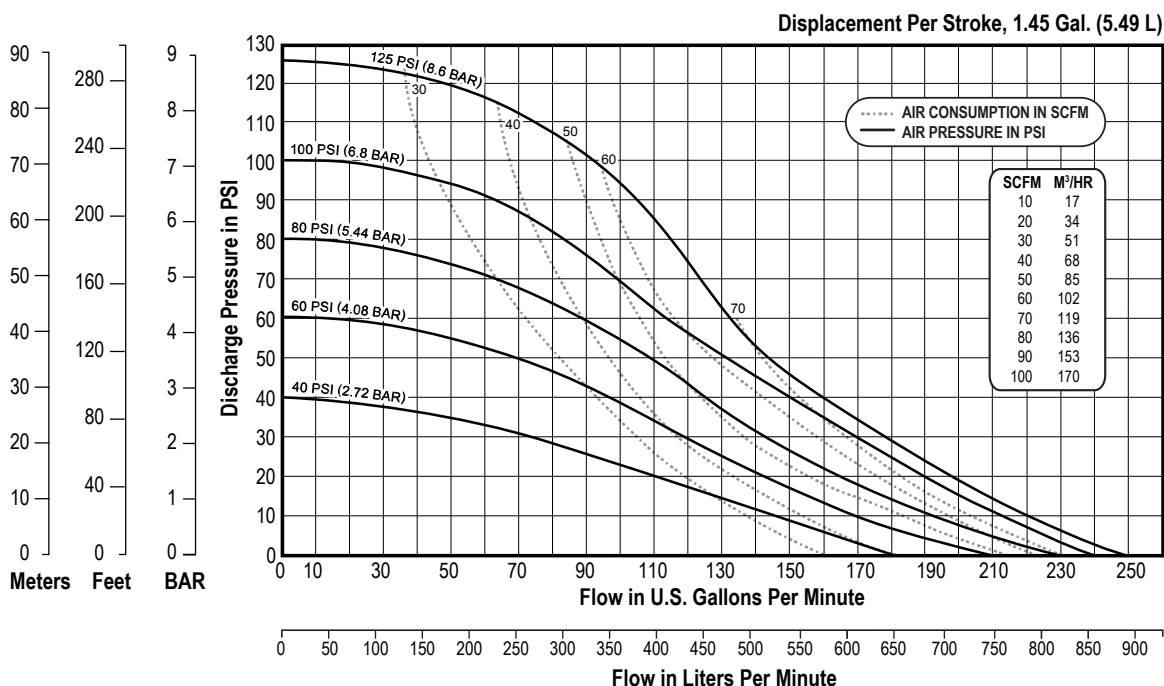
Stainless Steel 261 lbs (118.6 kg)

Hastelloy C 286 lbs (130 kg)



CAUTION: Do not exceed 125 psig (8.5 bar) air supply or liquid pressure.

NOTE: For RE3AA pumps fitted with PTFE diaphragms. Suction lift is reduced to 10' (3.05m) dry and 20' (6.10m) wet.

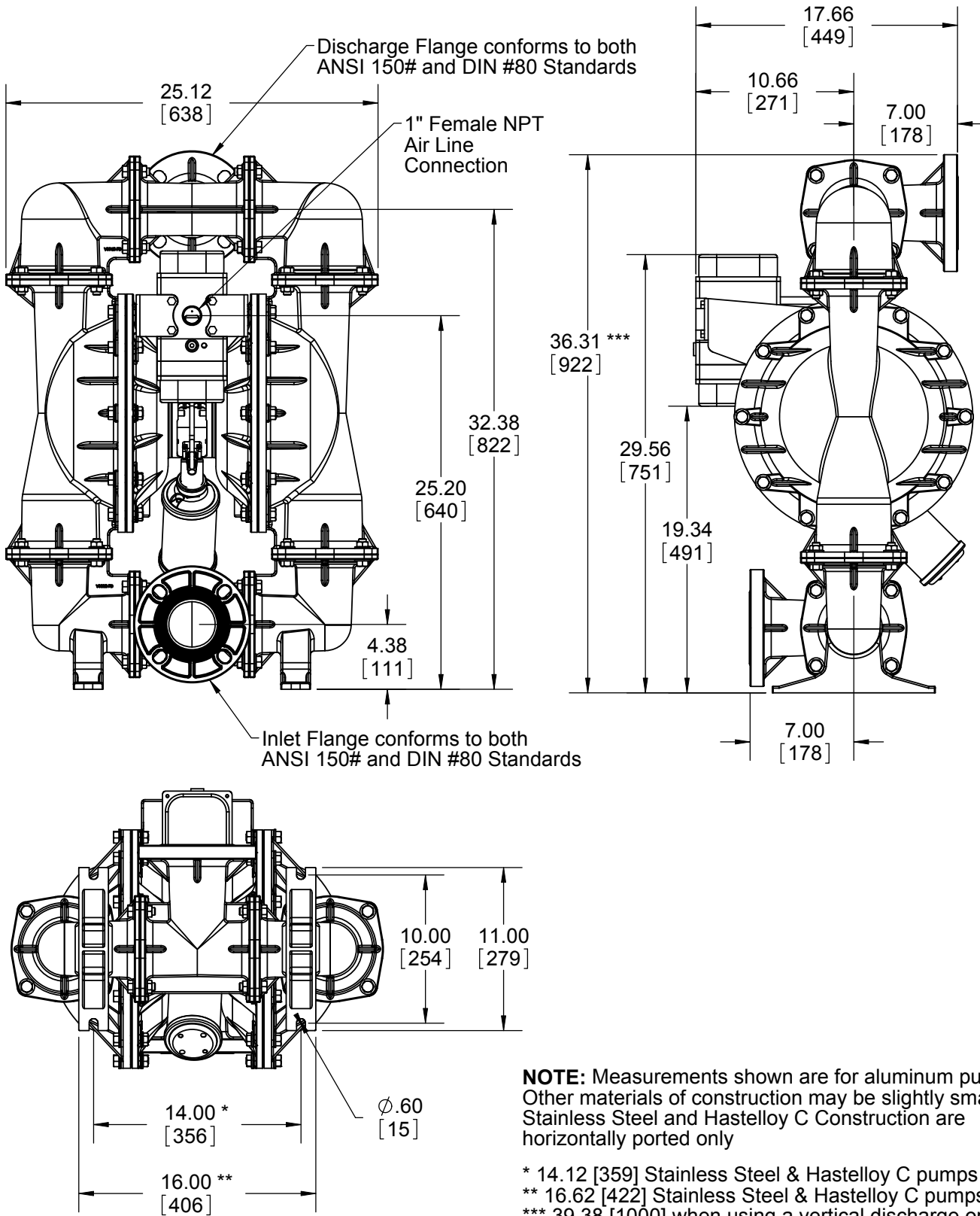


Dimensional Drawings

RE3 Bolted

Dimensions in inches (mm dimensions in brackets)

The dimensions on this drawing are for reference only. A certified drawing can be requested if physical dimensions are needed.



Written Warranty

5 - YEAR Limited Product Warranty

Quality System ISO9001 Certified • Environmental Management Systems ISO14001 Certified

Versa-Matic warrants to the original end-use purchaser that no product sold by Versa-Matic that bears a Versa-Matic brand shall fail under normal use and service due to a defect in material or workmanship within five years from the date of shipment from Versa-Matic's factory.

~ See complete warranty at <http://www.versamatic.com/pdfs/VM%20Product%20Warranty.pdf> ~

DECLARATION OF CONFORMITY

DECLARATION DE CONFORMITE • DECLARACION DE CONFORMIDAD • ERKLÄRUNG BEZÜGLICH EINHALTUNG DER VORSCHRIFTEN
DICHIARAZIONE DI CONFORMITÀ • CONFORMITEITSVERKLARING • DEKLARATION OM ÖVERENSSTÄMMELSE
EF-ÖVERENSSTÄMMELSESERKLÄRING • VAATIMUSTENMUKAISUUSVAKUUTUS • SAMSVARERKLÄRING
DECLARAÇÃO DE CONFORMIDADE

MANUFACTURED BY:

FABRIQUE PAR:
FABRICADA POR:
HERGESTELLT VON:
FABBRICATO DA:
VERVAARDIGD DOOR:
TILLVERKAD AV:
FABRIKANT:
VALMISTAJA:
PRODUSENT:
FABRICANTE:

VERSA-MATIC®
Warren Rupp, Inc.
A Unit of IDEX Corporation
800 North Main Street
P.O. Box 1568
Mansfield, OH 44901-1568 USA

Tel: 419-526-7296
Fax: 419-526-7289



PUMP MODEL SERIES: E SERIES, V SERIES, VT SERIES, VSMA3, SPA15, RE SERIES AND U2 SERIES

This product complies with the following European Community Directives:

Ce produit est conforme aux directives de la Communauté européenne suivantes:

Este producto cumple con las siguientes Directrices de la Comunidad Europea:

Dieses produkt erfüllt die folgenden Vorschriften der Europäischen Gemeinschaft:

Questo prodotto è conforme alle seguenti direttive CEE:

Dir produkt voldoet aan de volgende EG-richtlijnen:

Denna produkt överensstämmer med följande EU direktiv:

Versa-Matic, Inc., erklærer herved som fabrikant, at ovennævnte produkt er i overensstemmelse med bestemmelserne i Direktive:

Tämä tuote täyttää seuraavien EC Direktiivien vaatimukset:

Dette produkt oppfyller kravene til følgende EC Direktiver:

Este produto está de acordo com as seguintes Directivas comunitárias:

2006/42/EC
on Machinery, according
to Annex VIII

This product has used the following harmonized standards to verify conformance:

Ce matériel est fabriqué selon les normes harmonisées suivantes, afin d'en garantir la conformité:

Este producto cumple con las siguientes directrices de la comunidad europea:

Dieses produkt ist nach folgenden harmonisierten standards gefertigt worden, die übereinstimmung wird bestätigt:

Questo prodotto ha utilizzato i seguenti standards per verificare la conformità:

De volgende geharmoniseerde normen werden gehanteerd om de conformiteit van dit produkt te garanderen:

För denna produkt har följande harmoniserande standarder använts för att bekräfta överensstämmelse:

Harmoniserede standarder, der er benyttet:

Tässä tuotteessa on sovellettu seuraavia yhdenmukaistettuja standardeja:

Dette produkt er produsert i overensstemmelse med følgende harmoniserte standarder:

Este produto utilizou os seguintes padrões harmonizados para verificar conformidade:

EN809:1998+
A1:2009

AUTHORIZED/APPROVED BY:

Approuvé par:
Aprobado por:
Genehmigt von:
approvato da:
Goedgekeurd door:
Underskrift:
Valtuutettuna:
Bemyndiget av:
Autorizado Por:


Dave Roseberry
Engineering Manager

DATE: August 10, 2011

FECHA:
DATUM:
DATA:
DATO:
PÄIVÄYS:



VMQR 044FM

04/19/2012 REV 07



EC Declaration of Conformity

In accordance with ATEX Directive 94/9/EC,
Equipment intended for use in potentially explosive environments.

Manufacturer:

Warren Rupp, Inc.®
A Unit of IDEX Corporation
800 North Main Street
Mansfield, OH 44902 USA

**Applicable Standard:****AirVantage**

EN 60079-0:2009
EN 60079-1:2007
IEC 60079-31:2006

Marking:

II 2 G D
Ex d ib IIB T4 Gb
Ex tb IIIC 135° C Db IP66

Airvantage-equipped ATEX-Certified
Air-Operated Double Diaphragm
RE2 and RE3 Bolted or Clamp
Design Model Pumps.

Position Sensor

EN 60079-0:2006
EN 60079-11:2007
EN 61241-0:2006
EN 61242-11:2006

Rating (not marked):

II 2 G D
Ex ib IIB T4
Ex ibD 21 T132° C

Certificate Number:

Sira 10ATEX1151X Issue: 2
Equipment: AirVantage Air Flow
Control Unit

**Sira Certification Service**

Rake Lane
Eccleston
Chester
CH4 5JN
United Kingdom



DATE/APPROVAL/TITLE:
05 DECEMBER 2011

David Roseberry
David Roseberry, Engineering Manager





Declaration of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

Manufacturer:

Warren Rupp, Inc.®
A Unit of IDEX Corporation
800 North Main Street
Mansfield, OH 44902 USA

Applicable Standard:

AirVantage

IEC 60079-0:2004
IEC 60079-1:2007-4
IEC 60079-31:2008

Marking:

Ex d ib IIB T4 Gb
Ex tb IIIC 135° C Db IP66

Airvantage-equipped Air-Operated
Double Diaphragm RE2 and RE3
Bolted or Clamped Design
Pump Models.

Position Sensor

IEC 60079-0:2007-10
IEC 60079-11:2006
IEC 61241-0:2004
IEC 61242-11:2005

Rating (not marked):

Ex ib IIB T4
Ex ibD 21 T132° C

Certificate Number:

IECEX SIR 10.0110X Issue: 2
Equipment: AirVantage Air Flow
Control Unit

Sira Certification Service

Rake Lane
Eccleston
Chester
CH4 SJN
United Kingdom



DATE/APPROVAL/TITLE:
05 DECEMBER 2011

David Roseberry
David Roseberry, Engineering Manager



EC DECLARATION OF CONFORMITY

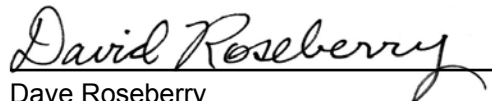
in accordance with ANNEX VIII of Directive 94/9/EC - Equipment for use in Potentially Explosive Atmospheres

Date of Issue:	10 May 2014
Technical File No.:	203104000-1410/MER
Quality System Registration No:	ISO 9001-2000
Directive:	94/9/EC 23 March 1994 Annex VIII
Conforming Apparatus:	Air-Operated Metal Double Diaphragm Pumps for Use In Potentially Explosive Atmospheres
Hazardous Location Applied:	1. I M2 c 2. II 2G c T5 3. II 2D T100°C
Manufacturer:	Warren Rupp, Inc., A Unit of IDEX Corporation 800 North Main Street, P.O. Box 1568 Mansfield, OH 44901-1568 USA.
On File With:	DEKRA Certification B.V. (0344) Meander 1051 6825 MJ Arnhem The Netherlands
Harmonized Standards Applied:	EN 13463-1:2009 Non-Electrical Equipment Potentially Explosive Atmospheres-Part 1 Basic Methods and Requirements EN 13463-5:2011 Non-Electrical Equipment for Potentially Explosive Atmospheres-Part 5 Protection by Constructional Safety
Equipment:	1. Elima-Matic Series metal pumps



We hereby certify that the equipment described above conforms with the protection requirements of Council Directive 94/9/EC of 23 March 1994 Annex VIII on the approximation of the laws of the Member States Concerning Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres

DATE/OF REVISION/TITLE:
17 August 2015


Dave Roseberry
Director of Engineering


VERSA-MATIC®

IDEX
FLUID & METERING