

1/4" Elima-Matic Bolted Plastic

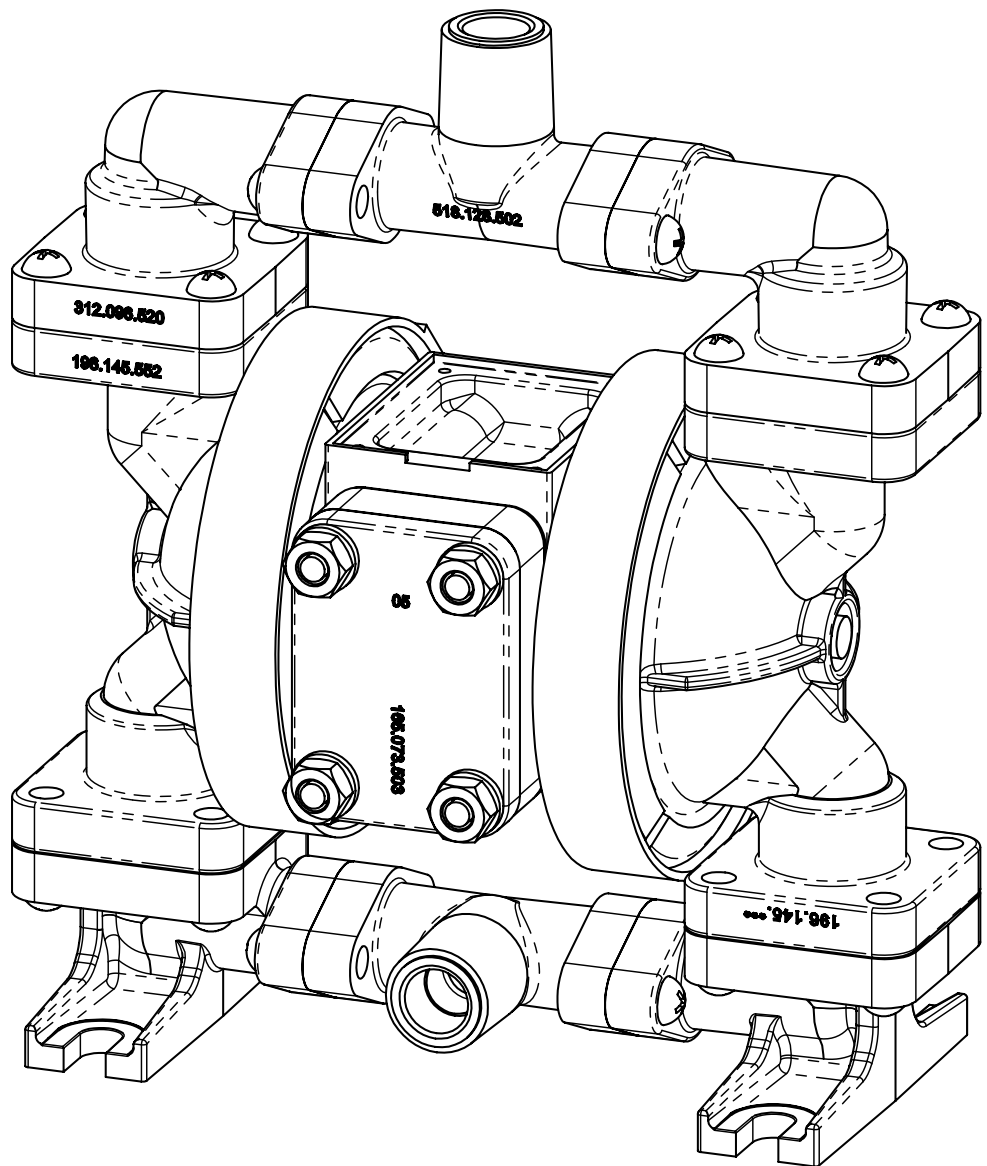
with Non-Metallic Center Sections

E6

E6 Plastic Pump

- Polypropylene
- PVDF

CE

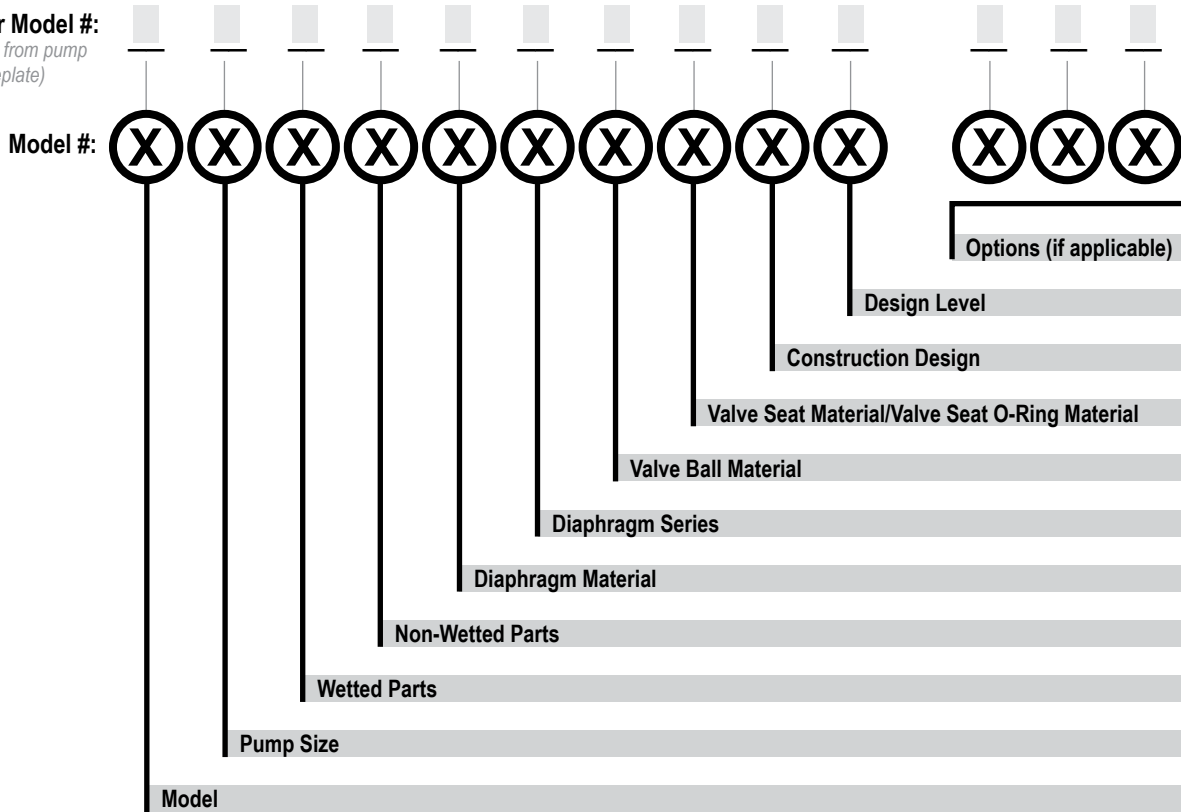


VERS-A-MATIC®

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
 Y FDA Santoprene

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
 Y FDA Santoprene

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
 Y FDA Santoprene

Construction Design
 9 Bolted
 0 Clamped
Design Level
 A
 C

Miscellaneous Options
 B BSP Tapered Thread
 CP Center Port
 ATEX ATEX Compliant
 FP Food Processing
 SP Sanitary Pump
 HP High Pressure
 OE Original Elima-Matic
 F Flap Valve
 HD Horizontal Discharge
 3A 3-A Certified
 UL UL Listed
 OB Oil Bottle

*More than one option may be specified for a particular pump model.

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
Hytre®: 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.		

Ambient temperature range -20 C to +40 C

Process temperature range -20 C to +80 C for models rated as category 1 equipment

-20 c to +100 C for model rated as category 2 equipment

For specific applications, always consult the Chemical Resistance Chart.

In addition, the ambient temperature range and the process temperature range do not exceed the operating temperature range of the applied non-metallic parts as listed in the manuals of the pumps.

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Performance

E6 1/4" Bolted Metal

Flow Rate

Adjustable to 0-4 gpm (15 lpm)

Port Size

Suction 3/8" NPT (BSP)

Discharge 3/8" NPT (BSP)

Air Inlet 1/4" NPT

Air Exhaust 1/4" NPT

Suction Lift

Dry 8' (2.44 m)

Max Solid Size (Diameter)

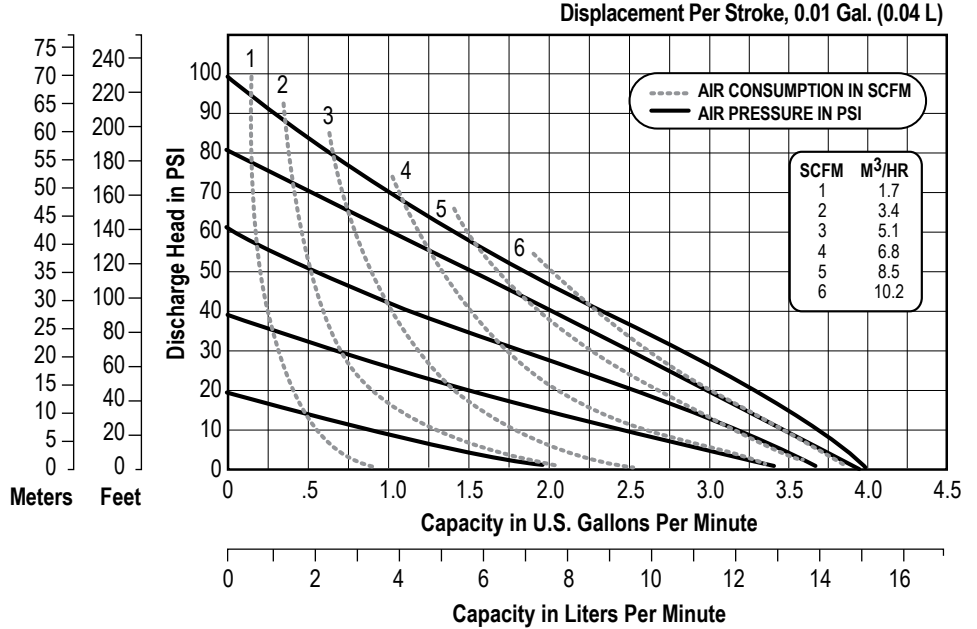
..... 1/32" (1 mm)

Max Noise Level 78 dB(A)

Shipping Weights

Polypropylene 3 lbs (1.40 kg)

Kynar 4.5 lbs. (2.04 kg)



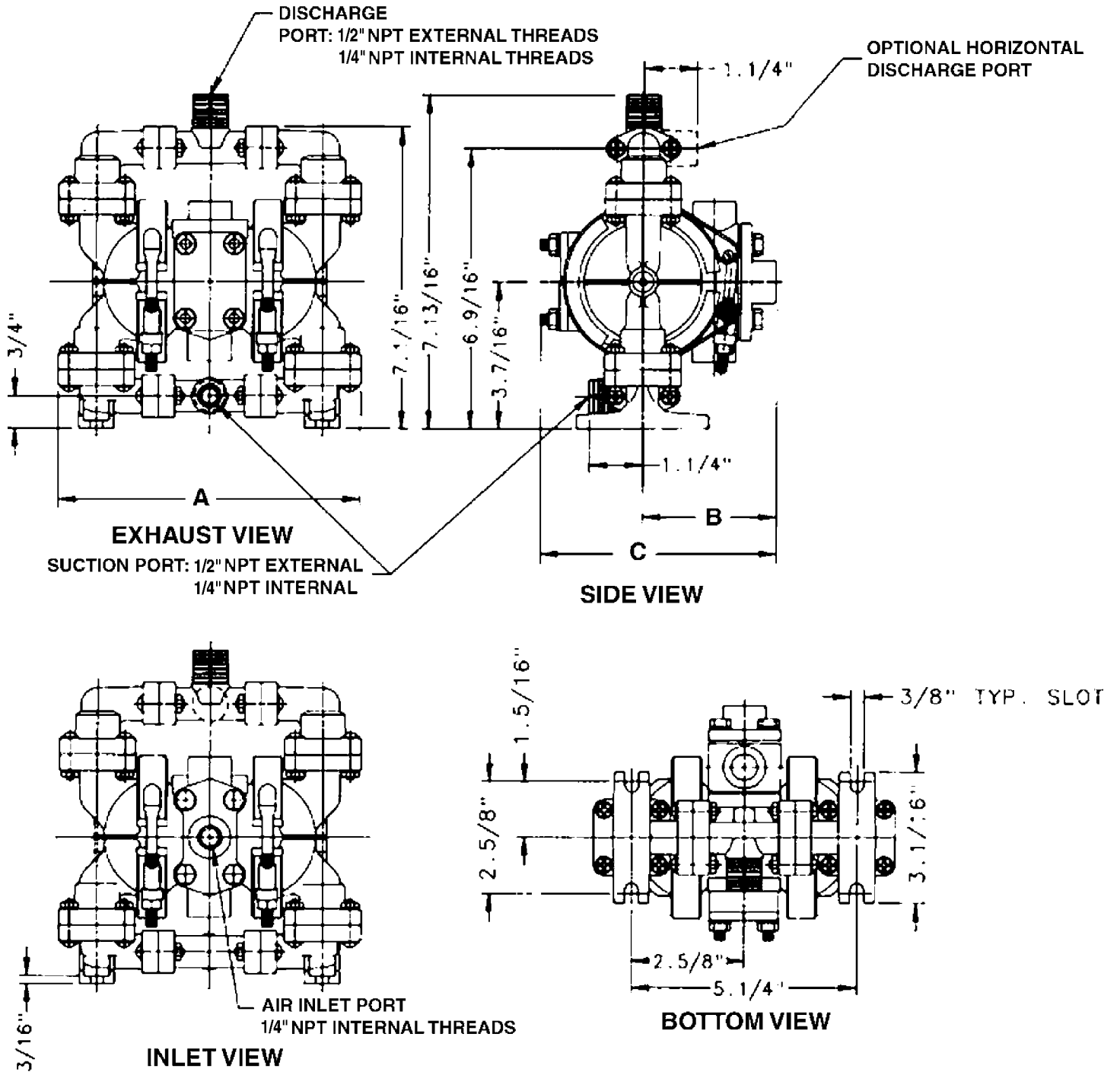
NOTE: Performance based on the following: Elastomeric fitted pump, flooded suction, water at ambient conditions. The use of other materials and varying hydraulic conditions may result in deviations in excess of 5%.

Dimensional Drawings

E6 Non-Metallic 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.



Dimension	A	B	C
Standard	7"	3.1/8"	5.1/2"
Pulse Output Kit	9"	3.9/16"	5.15/16"

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> ~

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VERVAARDIGD DOOR:
TILLVERKAD AV:
FABRIKANT:
VALMISTAJA:
PRODUSENT:
FABRICANTE:

VERSA-MATIC®
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A Unit of IDEX Corporation
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Tel: 419-526-7296
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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:
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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:
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Este produto utilizou os seguintes padrões harmonizados para verificar conformidade:

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A1:2009

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Autorizado Por:


Dave Roseberry
Engineering Manager

DATE: August 10, 2011

FECHA:
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