



Adhesive Application Solutions | ISO 9001 certified

DYNAFILL ADS1

ADHESIVE GRANULATES FILL SYSTEM

Technical Documentation, Nr. 21-11, Rev.7.24
English - Original instructions



Information about this manual



Read all instructions before operating this equipment!

It is the customer's responsibility to have all operators and service personnel read and understand this information. Contact your ITW Dynatec customer service representative for additional copies.



NOTICE: Please be sure to include the serial number of your application system each time you order replacement parts and/or supplies. This will enable us to send you the correct items that you need.

NOTICE: Most common screws, nuts and washers called out in the manual are not for sale and they can be obtained locally at your hardware Store. Specialty fasteners are available by contacting ITW Dynatec's Customer Service.

ITW Dynatec Service Parts and Technical Service:

AMERICAS

ITW Dynatec
31 Volunteer Drive
Hendersonville, TN 37075
USA
Tel. +1.615.824.3634
info@itwdynatec.com
service@itwdynatec.com

EUROPE, MIDDLE EAST & AFRICA

ITW Dynatec
Industriestrasse 28
40822 Mettmann
Germany
Tel. +49.2104.915.0
info@itwdynatec.de
service@itwdynatec.de

ASIA PACIFIC

ITW Dynatec
No. 2, Anzhi Street
SIP, Suzhou, 215122
China
Tel. +86.512.6289.0620
info@itwdynatec.cn
service@itwdynatec.cn

ITW Dynatec
Tsukimura Building 5th Floor
26-11, Nishikamata 7-chome
Ota-ku, Tokyo 144-0051,
Japan
Tel. +81.3.5703.5501
info@itwdynatec.co.jp
service@itwdynatec.co.jp

Index

Information about this manual	2
Index	3
Chapter 1 Declaration of Incorporation / Conformity	5
Chapter 2 Safety Instructions	7
2.1 General Considerations.....	7
2.2 Warning Labels	7
2.3 Safety Symbols in this Manual	8
2.4 Safe Installation and Operation	9
2.5 Explosion/ Fire Hazard	10
2.6 Use of PUR (Polyurethane) Adhesives	10
2.7 Eye Protection & Protective Clothing	10
2.8 Electrical.....	11
2.9 Lockout/ Tagout.....	11
2.10 High Temperatures.....	11
2.11 High Pressure.....	12
2.12 Protective Covers	12
2.13 Servicing, maintenance	13
2.14 Secure transport.....	13
2.15 Treatment for Burns from Hot Melt Adhesives	14
2.16 Measures in case of fire	14
2.17 Keep attention to environmental protection standards.....	15
Chapter 3 Description and Technical Specs	17
3.1 Applicable Safety Regulations	17
3.1.1 Intended Use	17
3.1.2 Unintended Use, Examples	17
3.1.3 Residual Risks	17
3.1.4 Technical changes	18
3.1.5 Using foreign components	18
3.1.6 Setting-up operation.....	18
3.2 Description	19
3.2.1 Introduction	19
3.2.2 Description	19
3.2.3 Specifications	20
3.2.4 Smart-Number-Matrix.....	21
3.2.5 Compatibility of ADS1 Systems	21
3.2.6 General diagram and Theory of Operation	22
3.2.7 Dimensions: Feed Wand Assembly for ADS1	23
3.2.8 Dimensions of the tank lid sets for Dynamelt S05, S10, N05 & N10 Vortex Cap.....	24
3.2.9 Dimensions of the tank lid sets for Dynamelt S22, S45, N22 & C22 Vortex Cap.....	25
Chapter 4 Installation and Operation	27
4.1 Pre-Installation	27
4.1.1 Air Connection.....	27
4.1.2 Compressed air quality	27
4.1.3 Adhesive Hose Connection.....	28
4.1.4 Electrical Connection	29
4.1.5 Advices to screw conditions and cabling	29
4.2 Installation	30
4.2.1 Installation Diagram (example)	30
4.2.2 Installation Procedure	31
4.2.3 Level Calibration	32
4.2.4 Final Test	32
4.2.5 Alarm and Fill Delay Settings.....	32
4.3 Control-Box and Printed Circuit Bord	33
4.3.1 Control Elements.....	33

4.3.2 Alarm and Fill Delay Settings	34
Chapter 5 Maintenance and Troubleshooting	35
5.1 Security advices for maintenance and repair	35
5.2 Maintenance	36
5.3 Troubleshooting.....	36
Chapter 6 Options & Accessories	39
6.1 Options & Accessories	39
6.1.1 Drum Dolly, PN 115147	39
6.1.2 Audible Alarm Kit, PN 115241	39
6.1.3 Probe Insulator Kit, PN 827479	39
6.2 Recommended Spare Parts	40
Chapter 7 Drawings and Bills of Materials	41
7.1 Major Components of ADS1 Dynafill.....	41
7.2 Tote 55-gallon (208 l) with lid, adhesive granulate storage container, PN 114872	42
7.3 Feed Wand Assembly, PN 114881	43
7.4 ADS1 120V Housing Assemblies.....	44
7.4.1 ADS1 Housing Assembly 120V for Dynamelt S05/S10, PN 114879P	44
7.4.2 ADS1 Housing Assembly 120V for Dynamelt S22/S45, PN 114875R	45
7.4.3 ADS1 Housing Assembly 120V for Dynamelt D25/45 V6, PN 120995C	46
7.4.4 ADS1 Housing Assembly 120V for DynaPack, PN 114876P	47
7.4.5 ADS1 Housing Assembly 120V for Dynamelt M-series, PN 815985M.....	48
7.4.6 ADS1 Housing Assembly 120V for NDSN PB7/10, PN 115454M.....	49
7.5 ADS1 240V Housing Assemblies.....	50
7.5.1 ADS1 Housing Assembly 240V for Dynamelt S05/S10, PN 826296B	50
7.5.2 ADS1 Housing Assembly 240V for Dynamelt S22/S45, PN 826294B	51
7.5.3 ADS1 Housing Assembly 240V for Dynamelt D25/D45 V6, PN 826299B.....	52
7.5.4 ADS1 Housing Assembly 240V for DynaPack, PN 826295B	53
7.5.5 ADS1 Housing Assembly 240V for Dynamelt M-series, PN 826300B	54
7.5.6 ADS1 Housing Assembly 240V for NDSN PB7/10, PN 826297C	55
7.6 Generic Kit.....	56
7.6.1 ADS1 Housing Assembly 120V for Generic Kit, PN 116163M	57
7.6.2 ADS1 Housing Assembly 240V for Generic Lid, PN 826298B	58
7.6.3 ADS1 Generic Lid Adapter Kit	59
7.6.4 ADS1 Generic Lid Modification	60
7.6.5 Installation	61
Revisions	63

Chapter 1

Declaration of Incorporation / Conformity

Declaration of Conformity

Equipment Type: Heavy Industrial

Model No. _____

The manufacturer of the products covered by this declaration is

**ITW Dynatec
31 Volunteer Dr.
Hendersonville, TN 37075**

The directives covered by this declaration


89/336/EEC Electromagnetic Compatibility (EMC) directive, as amended
73/23/EEC Low Voltage Equipment directive, as amended
98/37/EC Machinery directive (consolidated edition)

The basis on which conformity is declared

The product identified above complies with the protection requirements of the EMC directive, with the principal elements of the safety objectives of the Low Voltage directive, and with the essential health and safety requirements of the Machinery directive. The manufacturer has applied one or more of the following standards:

I, the undersigned, hereby declare that the equipment specified above conforms to the following Directive(s) Standard(s).

EN 292-1 Safety of Machinery – basic terminology, methodology
EN 563 Temperatures of Touchable Surfaces
EN 60204-1 Electrical Equipment of Machines
EN 50081-2 General Immunity Standard- Residential, light industrial environment
EN 50082-2 General Immunity Standard- Industrial environment

Signed: 
Judson Broome (General Manager)

Date: 09/01/08
(dd/mm/yy)



QA 154, Rev 1, 01/08/08

This page intentionally left blank.

Chapter 2

Safety Instructions

2.1 General Considerations



- All operators and service personnel must read and understand this manual before operating or servicing equipment.
- All maintenance and service on this equipment must be performed by trained technicians.



Read and adhere to the manual!








1. Read and follow these instructions.
Failure to do this could result in severe personal injury or death.
2. Keep the binding rules for accident prevention valid for your country and the place of installation. Also keep the approved qualified technical rules for safety-conscious and professional work.
3. Additional safety instructions and/ or symbols are located throughout this manual. They serve to warn maintenance personnel and operators about potentially hazardous situations.
4. Inspect the machine for unsafe conditions daily and replace all worn or defective parts.
5. Keep work area uncluttered and well lit. Remove all material or things not needed for the production from the workspace of the equipment!
6. All covers and guards must be in place before operating this equipment.
7. Subject to technical modifications without notice!
8. To ensure proper operation of the equipment, use specified electrical and/ or air supply sources.
9. Do not attempt to alter the design of the equipment unless written approval is received from ITW Dynatec.
10. Keep all manuals readily accessible at all times and refer to it often for the best performance from your equipment.

2.2 Warning Labels

1. Read and obey all of the warning labels, signs and caution statements on the equipment.
2. Do not remove or deface any of the warning labels, signs and caution statements on the equipment.
3. Replace any warning labels, signs and caution statements which have been removed or defaced. Replacements are available from ITW Dynatec.






2.3 Safety Symbols in this Manual

Mandatory signs



	General mandatory sign		Wear foot guard!
	Read and adhere to the documentation!		Wear protective gloves!
	Switch the unit voltage-free before working! Main switch OFF!		Wear protective clothing!
	Wear headgear, protective goggles and ear protection!		

Warning signs

NOTE: The dangers and risks exist if the corresponding instructions are not heeded and the precautionary measures are not taken!

	Caution, danger spot! This sign points to possible dangers for life and physical condition or to possible risks for machine and material or to possible risks for environment. The word “DANGER” in addition with this points to possible dangers of life The words “WARNING” and “CAUTION” in addition with this sign point to possible risks of injury. The word “ADVICE” in addition with this sign points to possible risks for machine, material or environment.		Danger, high voltage! This sign points to possible dangers for life and physical condition caused by electricity. Risk of injury, mortal danger!
			Caution, hot surface! This sign points to possible risks of burns. Risk of Burns!
			Caution, high pressure! This sign points to possible risks of injury caused by high pressure. Risk of injury!
			Caution, rotating rolls! This sign points to possible risks of injury caused by inrunning nip (at rolls). Risk of injury!

Prohibition signs

	Fire danger! Smoking prohibited!		Fire danger! Fire and open flames prohibited!
---	---	--	--

2.4 Safe Installation and Operation



Read and adhere to the manual!

1. Read this manual before applying electrical power to the equipment. Equipment may be damaged by incorrect electrical connections.
2. To avoid possible failure of hoses, make sure all hoses are routed to avoid kinking, tight radius turns (8" or less) and abrasive contact. Hot-melt hoses should not have prolonged contact with heat-absorbing surfaces such as cold floors or metal troughs. These heat-absorbing surfaces can alter adhesive flow and cause incorrect calibration. Hoses should never be covered with materials that prevent heat dissipation, such as insulation or sheathing. Hoses should be spaced apart from each other, not making direct contact.
3. Do not use adhesive that is dirty or that may be chemically contaminated. Doing so can cause system clogging and pump damage.
4. When adhesive hand-held applicators or other movable applicators are used, never point them at yourself or at any other person. Never leave a hand-held applicator's trigger unlocked when not actually in use.
5. Do not operate the hopper or other system components without adhesive for more than 15 minutes if the temperature is 150 degrees C (300 degrees F) or more. To do so will cause charring of the residual adhesive.
6. Never activate the heads, hand-held applicators and/ or other application devices until the adhesive's temperature is within the operating range. Severe damage could result to internal parts and seals.
7. Never attempt to lift or move the unit when there is molten adhesive in the system.
8. In case of an emergency or exceptional incident, press the emergency stop button in order to stop the unit quickly.
9. Use the unit only as it is intended to.
10. Never let the unit run unattended.
11. Operate the unit only in a faultless and fully functional condition. Check and make sure that all safety devices work in proper form!



Smoking, fire and open flames prohibited! Fire danger!

Make absolutely sure that there is no smoking and no fire being lit in the work area!

2.5 Explosion/ Fire Hazard

1. Never operate this unit in an explosive environment.
2. Use cleaning compounds recommended by ITW Dynatec or your adhesive supplier only.
3. Flash points of cleaning compounds vary according to their composition, so consult with your supplier to determine the maximum heating temperatures and safety precautions.

2.6 Use of PUR (Polyurethane) Adhesives

1. PUR adhesives emit fumes (MDI and TDI) that can be dangerous to anyone exposed to them. These fumes cannot be detected by the sense of smell. ITW Dynatec strongly recommends that a power-vented exhaust hood or system be installed over any PUR system.
2. Consult with your adhesive manufacturer for specifics about required ventilation.



CAUTION

Because of the nature of PUR adhesives to strongly bond in the presence of moisture, care must be taken to prevent them from curing inside ITW Dynatec equipment.

If PUR adhesive solidifies in a unit, the unit must be replaced. Always purge old PUR adhesive from the system per your adhesive manufacturer's instructions and time table.

ALLOWING PUR ADHESIVE TO CURE IN A UNIT OR ITS COMPONENTS VOIDS ITW DYNATEC'S WARRANTY.

2.7 Eye Protection & Protective Clothing



WARNING

EYE PROTECTION & PROTECTIVE CLOTHING REQUIRED

1. It is very important that you PROTECT YOUR EYES when working around hot melt adhesive equipment!
2. Wear a face shield conforming to ANSI Z87.1 or safety glasses with side shields which conform to ANSI Z87.1 or EN166.
3. Failure to wear a face shield or safety glasses could result in severe eye injury.
4. It is important to protect yourself from potential burns when working around hot melt adhesive equipment.
5. Wear heat-resistant protective gloves and long-sleeved, protective clothing to prevent burns that could result from contact with hot material or hot components.
6. Always wear steel-reinforced safety shoes.

2.8 Electrical



DANGER HIGH VOLTAGE

1. Dangerous voltages exist at several points in this equipment. To avoid personal injury, do not touch exposed connections and components while input power is on.
2. Disconnect, lockout and tag external electrical power before removing protective panels.
3. A secure connection to a reliable earth ground is essential for safe operation.
4. An electrical disconnect switch with lockout capability must be provided in the line ahead of the unit. Wiring used to supply electrical power should be installed by a qualified electrician.
5. Notify the maintenance personnel immediately, if cables are damaged. Provide for exchanging the defective components immediately.

2.9 Lockout/ Tagout



Switch the unit voltage-free before working! Main switch OFF!

1. Follow OSHA 1910.147 (Lockout/ Tagout Regulation) for equipment's lockout procedures and other important lockout/tagout guidelines.
2. Be familiar with all lockout sources on the equipment.
3. Even after the equipment has been locked out, there may be stored energy in the application system, particularly in the capacitors within the panel box. To ensure that all stored energy is relieved, wait at least one minute after removing power before servicing electrical capacitors.

2.10 High Temperatures



WARNING HOT SURFACE

1. Severe burns can occur if unprotected skin comes in contact with molten adhesive or hot application system parts.
2. Face shields (preferred) or safety glasses (for minimum protection), heat-resistant protective gloves and long-sleeved clothing must be worn whenever working with or around adhesive application systems.

2.11 High Pressure



WARNING HIGH PRESSURE PRESENT

1. To avoid personal injury, do not operate the equipment without all covers, panels and safety guards properly installed.
2. To prevent serious injury from molten adhesive under pressure when servicing the equipment, disengage the pumps and relieve the adhesive system's hydraulic pressure (i.e. trigger the heads, hand-held applicators, and/or other application devices into a waste container) before opening any hydraulic fittings or connections.
3. IMPORTANT NOTE: Even when a system's pressure gauge reads "0" psi, residual pressure and trapped air can remain within it causing hot adhesive and pressure to escape without warning when a filter cap or a hose or hydraulic connection is loosened or removed. For this reason, always wear eye protection and protective clothing.
4. Either of the two High Pressure symbols shown may be used on ITW Dynatec equipment.
5. Keep the given operating pressure.
6. Notify the maintenance personnel immediately, if hoses or components are damaged. Provide for exchanging the defective components immediately.

2.12 Protective Covers



WARNING DO NOT OPERATE WITHOUT GUARDS IN PLACE

1. Keep all guards in place!
2. To avoid personal injury, do not operate the application system without all covers, panels and safety guards properly installed.
3. Never get your extremities and/or objects into the danger area of the unit. Keep your hands away from running parts of the unit (pumps, motors, rolls or others).

2.13 Servicing, maintenance

1. Only trained and qualified personnel are to operate and service this equipment.
2. Before any service work disconnect the external power supply and the pressure air supply!
3. Never service or clean equipment while it is in motion. Shut off the equipment and lock out all input power at the source before attempting any maintenance.
4. Follow the maintenance and service instructions in the manual.
5. Keep the maintenance rates given in this documentation!
6. Any defects in the equipment that impact safe operation have to be repaired immediately.
7. Check screws that have been loosened during the repair or maintenance, if they are tight again.
8. Replace the air hoses in preventive maintenance regularly, even if they have got no viewable damages! Adhere to the manufacturers' instructions!
9. Never clean control cabinets or other houses of electrical equipment with a jet of water!
10. Adhere to the current safety data sheet of the manufacturer when using hazardous materials (cleaning agents, etc.)!

2.14 Secure transport

1. Examine the entire unit immediately after receipt, if it has been delivered in perfect condition.
2. Let damages in transit certify by the carrier and announce them immediately to ITW Dynatec.
3. Use only lifting devices that are suitable for the weight and the dimensions of the equipment (see drawing of the equipment).
4. The unit has to be transported upright and horizontally!
5. The unit has to cool down to room temperature before packaged and transported.

2.15 Treatment for Burns from Hot Melt Adhesives

Measures after being burned:

1. Burns caused by hot melt adhesive must be treated at a burn center. Provide the burn center's staff a copy of the adhesive's M.S.D.S. to expedite treatment.
2. Cool burnt parts immediately!
3. Do not remove adhesive forcibly from the skin!
4. Care should be used when working with hot melt adhesives in the molten state. Because they rapidly solidify, they present a unique hazard. Even when first solidified, they are still hot and can cause severe burns.
5. When working near a hot melt application system, always wear safety shoes, heat-resistant protective gloves, safety goggles and protective clothes that cover all vulnerable parts of the body.
6. Always have first-aid information and supplies available.
7. Call a physician and/or an emergency medical technician immediately. Let the burns medicate by a medic immediately.

2.16 Measures in case of fire

1. Please heed that not covered hot parts of the engine and molten hot melt may cause heavy burns. Risk of burns!
2. Work very carefully with molten hot melt. Keep in mind, that already jelled hot melt can be very hot, too.
3. When working near a hot melt application system, always wear safety shoes, heat-resistant protective gloves, safety goggles and protective clothes that cover all vulnerable parts of the body!

Measures in case of fire:

Wear safety shoes, heat-resistant protective gloves, safety goggles and protective clothes that cover all vulnerable parts of the body.

Firefighting - burning hot melt:

Please keep attention to the safety data sheet given by the adhesive manufacturer.



EXTINGUISH FIRE

Appropriate extinguishing agents:

Foam extinguisher, Dry powder, Spray, Carbon dioxide (CO₂), Dry sand.

For safety reasons not appropriate extinguishing agents: None.

Firefighting - burning electrical equipment:

Appropriate extinguishing agents:

Carbon dioxide (CO₂), Dry powder.

2.17 Keep attention to environmental protection standards



1. When working on or with the unit, the legal obligations for waste avoidance and the duly recycling / disposals have to be fulfilled.
2. Keep attention, that during installations, repairs or maintenance matters hazardous to water, like adhesive / adhesive scrap, lubricating grease or oil, hydraulic oil, coolant and cleaner containing solvent do not pollute the ground or get into the canalization!
3. These matters have to be caught, kept, transported and disposed in appropriate reservoirs!
4. Dispose these matters according to the international, national and regional regulations.

Chapter 3

Description and Technical Specs

3.1 Applicable Safety Regulations

3.1.1 Intended Use

The ADS1 Dynafill System may be used only to fill suitable materials, e.g. adhesive granulate. When in doubt, seek permission from ITW Dynatec.



If the unit is not used in accordance with this regulation, a safe operation cannot be guaranteed.

The operator - and not ITW Dynatec - is liable for all personal injury or property damages resulting from unintended use!



Intended use includes, that you

- read this documentation,
- heed all given warnings and safety instructions, and
- do all maintenance within the given maintenance rates.

Any other use is considered to be unintended.

3.1.2 Unintended Use, Examples

The ADS1 Dynafill System may not be used under the following conditions:

- In defective condition.
- In a potentially explosive atmosphere.
- With unsuitable operating/processing materials.
- When the values stated under Specifications are not complied with.

The ADS1 Dynafill System may not be used to process the following materials:

- Toxic, explosive and easily flammable materials.
- Erosive and corrosive materials.
- Food products.

3.1.3 Residual Risks

In the design of the DS1 Dynafill System, every measure was taken to protect personnel from potential danger. However, some residual risks cannot be avoided.

Personnel should be aware of the following:



- Risk of burns from hot material.
- Risk of burns from hot components of the Melter unit.
- Risk of burns when conducting maintenance and repair work for which the system must be heated up.



- Risk of burns when attaching and removing heated hoses.
- Material fumes can be hazardous. Avoid inhalation. If necessary, exhaust material vapors and/or provide sufficient ventilation of the location of the system.
- Risk of pinching parts of the body at running parts of the unit (pumps, motors, rolls or others).

3.1.4 Technical changes

Any kind of technical changes having impact to the security or the operational liability of the system should only be done by written agreement of ITW Dynatec. Suchlike changes made without given a corresponding written agreement will lead to immediate exclusion of liability granted by ITW Dynatec for all direct and indirect subsequent damages.

3.1.5 Using foreign components

ITW Dynatec takes no responsibility for consequential damages caused by using foreign components or controllers that have not been provided or installed by ITW Dynatec.

ITW Dynatec does not guarantee that foreign components or controllers used by the operating company are compatible to the ITW Dynatec-system.

3.1.6 Setting-up operation

We recommend asking for an ITW Dynatec-service technician for the setting-up operation, to ensure a functioning system. Let yourself and the people working with or working on the system be introduced to the system on this occasion.

ITW Dynatec takes no responsibility for damages or faults caused by any untrained personal.

3.2 Description

3.2.1 Introduction

Hot melt adhesive Melters (ASU = Adhesive Supply Unit) require frequent adhesive re-filling.

If the operator does not refill the melter often enough, there can be insufficient time to melt and condition the adhesive for the production. This results in equipment down time and employees wait until the hopper (tank) temperature returns to setpoint.

When either the hopper or the adhesive granulate storage container is left open or is being opened and closed for refilling, external debris, such as box dust, can contaminate the system. The result is char buildup which causes plugged nozzles, clogged filters and cut seals.

As adhesive level in the hopper lowers, adhesive residue remains on the hopper walls. The combination of high temperatures, a thin layer of adhesive and air causes char buildup to form. Eventually, char falls from the wall and into the system, resulting in plugged nozzles, clogged filters and cut seals. This can cause expensive repairs and/ or machine downtime.

Installation of an ADS1 (Adhesive Delivery System) DynaFill™ system from ITW Dynatec reduces all of the above problems. The result is lower repair costs and higher production rates.

The ADS1 can control and feed ASUs from up to 100 feet (30 m) horizontal and 15 feet (4.5 m) vertical, depending on type and form of adhesive granulate.

3.2.2 Description

The DynaFill feed wand utilizes an air venturi (air funnel) activated suction to pick up solid “chicklet” or pellet of adhesive granulate from a storage container and convey it by air pressure to the melter’s hopper (tank). When the lever sensor, which is mounted in the ASU’s hopper lid, signals a fill (low level), the air venturi and vibrator are activated. The solid adhesive granulate is then blown from the storage container, through a clear plastic hose, and is deposited into the ASU’s hopper where the process of melting and conditioning takes place. A green light on the control box is also activated during the filling cycle and remains lit until the filling is complete.

All models feed up to 750 lbs (340 kg) of adhesive granulate per hour when used with a 13-foot (4 m) supply hose and a free-flowing adhesive granulate of 1/2” (12.7 mm) granulate or smaller.

An adjustable, fail-safe alarm notifies the operator of any feeding problems, such as an empty adhesive granulate storage container or a clogged air venturi.

The standard alarm system illuminates an amber indicator light if the fill signal is not satisfied. The indicator light is located on the control box.

The external green light, the air venturi and the vibrator are deactivated when the level of adhesive in the ASU’s hopper rises to contact the level sensor (control probe). The level sensor is not affected by temperature changes and is calibrated at installation. The air requirements are approximately 20 SCFM for 5 to 20 seconds (see further details under Specifications on next page). Generally, the DynaFill system will transfer approximately a half cup (120 cm³) of adhesive every one to three minutes, depending on the hot melt usage rate.

In cases where plant air pressure varies, a small five-gallon (19 liters) air receiver tank with inlet check valve should be used as a reservoir, next to the incoming air supply. Depending on the adhesive usage rate, 60 psi (4 bar) is normally a good starting point for the air venturi and 20 psi (1.4 bar) for the vibrator. With the DynaFill system in place there is no reason to open and close the hopper lid, since the level sensor and external light indicate the level of adhesive in the hopper.

3.2.3 Specifications

Performance:

Max. adhesive granulate delivery rate (depends on used adhesive) 340 kg/h (750 lbs/h)
 Feed distance horizontal up to ca. 30 m (100 ft), vertical up to ca. 6 m (20 ft)
 CE Conformity approval yes

Electrical:

ADS1, power requirement factory set 120VAC or 240VAC
 (Voltage 230VAC)

Note: Input voltage can be changed to 240VAC by changing the voltage selector switch and changing the power plug.

Pneumatic Requirements for ALL Models:

Air consumption for Dynafill system during feeding: approximately 20 SCFM *,
 for 5 to 20 seconds intermittent
 Air requirements for Air Venturi approximately 60 psi (4 bar) @ 20 SCFM*,
 for Vibrator approximately 20 psi (1.4 bar) @ 20 SCFM*,
 1 in (2,54cm) diameter air supply line
 Air quality and filter Clean, dry, regulated air, air filter, regulator and separator
 Operating air pressure Minimum 3.5 bar, Maximum 5.5 bar

* 20 SCFM (Standard Cubic Feet per Minute)
 = 32 Nm³/h (Normal Cubic Meters per Hour)
 = 566 l/min (Liters per Minute).

Physical Specifications:

Max. adhesive granulate size 0.5 inch square (13 mm²)
 Tote (storage container) size (optional) 55 gallons / 208 Liters
 Supported number of containers on the melter 1

3.2.4 Smart-Number-Matrix

ADS1 – Melter Name - 1 = 120 V Version
ADS1 – Melter Name - 2 = 240V Version

Example: ADS1-DYNAPACK-1 = ADS1 for DYNAPACK with 120V Version

3.2.5 Compatibility of ADS1 Systems

Standard ADS1 systems and their compatibility with Adhesive Supply Unit (ASU) Series (tank lids) are listed:

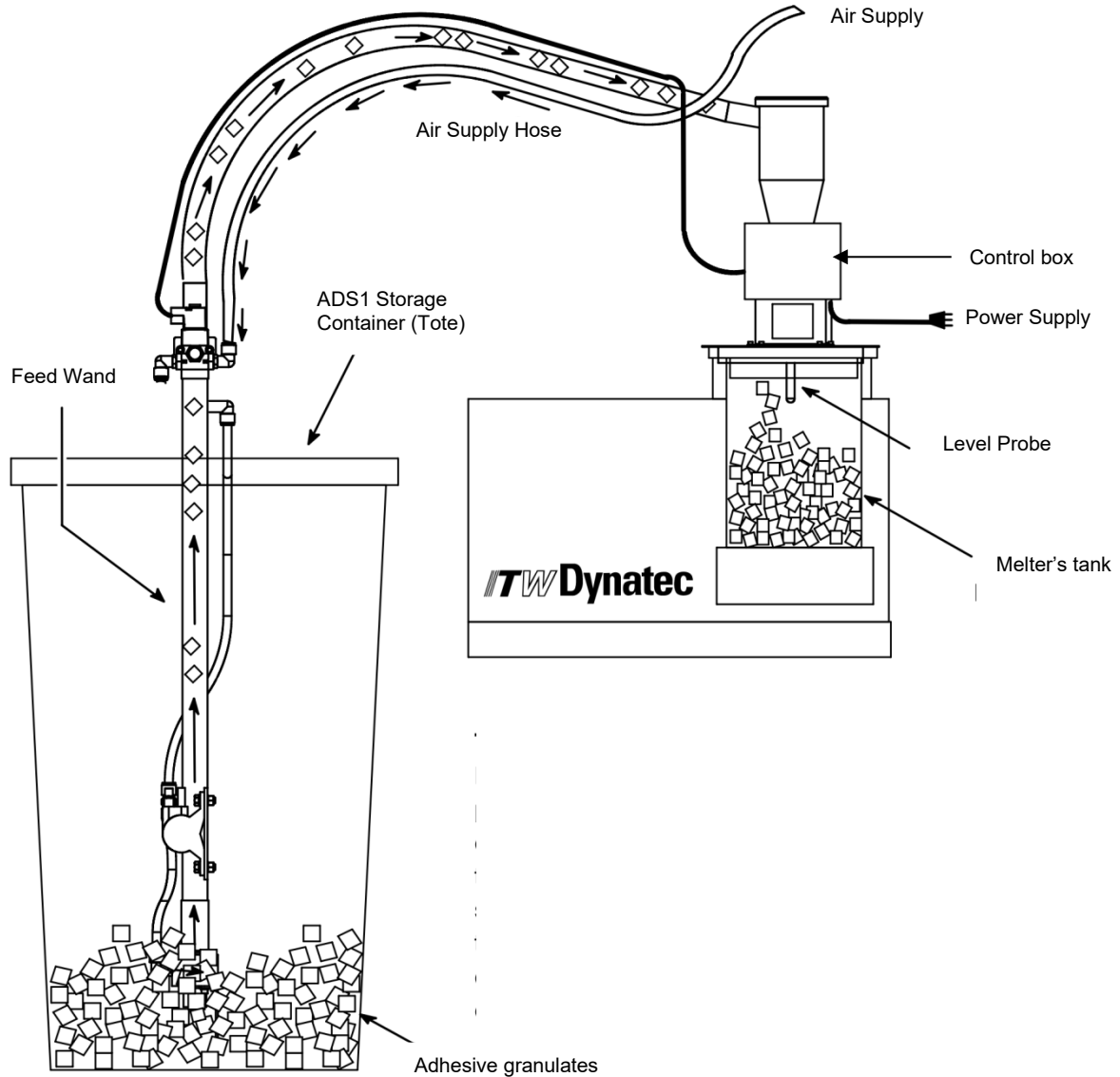
PN	Description	Compatible ASU Series
ADS1-DYNAPACK-1 * ADS1-DYNAPACK-2 *	ADS1,DYNAPACK HF, 120V ADS1,DYNAPACK HF, 240V	<ul style="list-style-type: none"> • Quattro/Challenger • Dynapack
ADS1-S05/S10-1 * ADS1-S05/S10-2 *	ADS1,S05/S10, 120V ADS1,S05/S10, 240V	<ul style="list-style-type: none"> • Dynamini N05, N10 • Simplicity SC04, SC08 • Dynamelt S05/S10 (V4, V5) • Dynamelt SR5/SR10 (V6)
ADS1-S22-1 * ADS1-S22-2 *	ADS1,S22 HF, 120V ADS1,S22 HF, 240V	<ul style="list-style-type: none"> • Dynamini N22/N45 • Challenger C22/C45 • Simplicity SC16 • Dynamelt S22/S45 (V4, V5) • Dynamelt SR22/SR45 (V6)
ADS1-DMM-1 * ADS1-DMM-2 *	ADS1,M-SERIES,HF, 120V ADS1,M-SERIES,HF, 240V	<ul style="list-style-type: none"> • Dynamelt M35, M70, M140, M210
ADS1-V6 D25/45-1 * ADS1-V6 D25/45-2 *	ADS1,V6 D25/45,HF, 120V ADS1,V6 D25/45,HF, 240V	<ul style="list-style-type: none"> • Dynamelt D25, D45, D50, D90
ADS1-NDSN PB7/10-1 * ADS1-NDSN PB7/10-2 *	ADS1,NDSN PB7&10, 120V ADS1,NDSN PB7&10, 240V	<ul style="list-style-type: none"> • NDSN PB7/10 #
ADS1-KIT-1 ** ADS1-KIT-2 **	ADS1 KIT, GENERIC LID, 120V ADS1 KIT, GENERIC LID, 240V	<ul style="list-style-type: none"> • Generic kit is designed for an ASU that is not a currently available ASU model as shown above. • An ASU not listed above may be suitable for the ADS1-Generic kit. Review the Generic kit installation instructions and dimensional information in this ADS1 manual to determine Generic kit compatibility. • Some ASU lids may not be suitable to allow the installation of the ADS1 Generic kit. • If assistance is needed, please contact Dynatec Service or your Sales Representative.

* see Ch.7.

ITW Dynatec offers additional adapter kits for various manufacturers and Melter types. All brand names are protected by the respective manufacturers. If there are no copyright notices on brand names, they are still protected.

3.2.6 General diagram and Theory of Operation

NOTE: The diagram applies to all models of the ADS1 Dynafill.



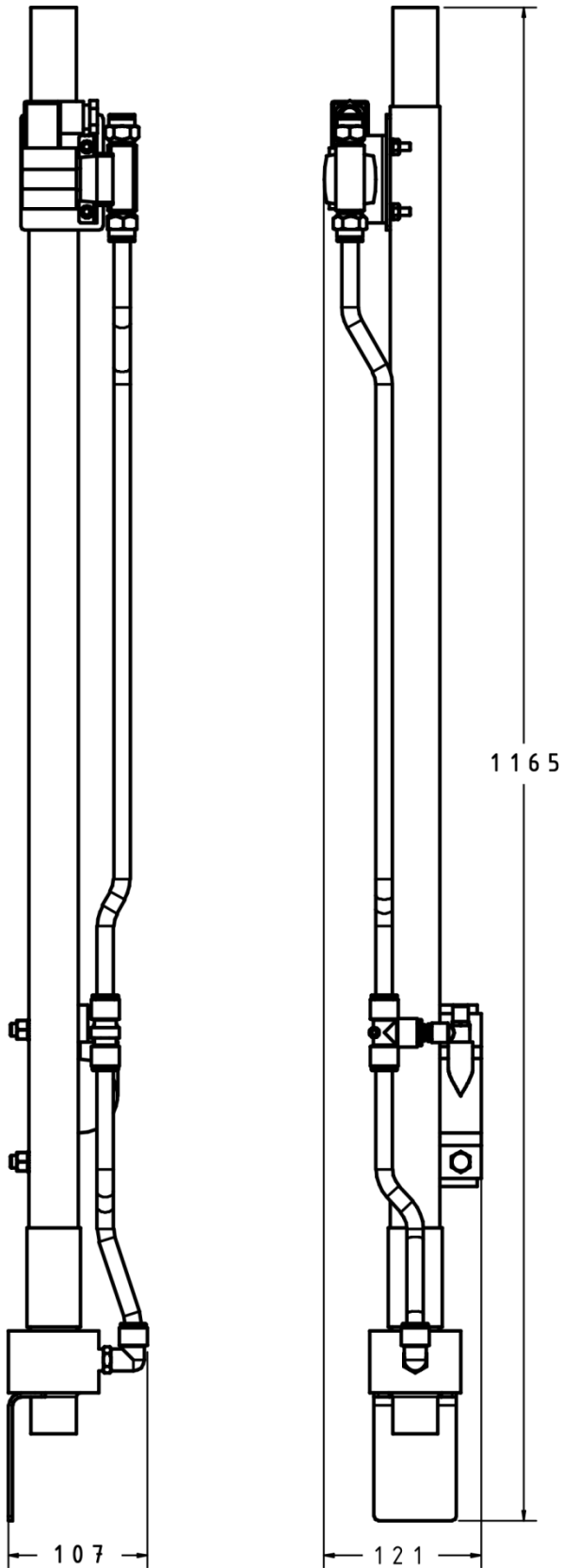
Theory of Operation:

Hot melt adhesive granulates in the ADS1's storage container is pneumatically conveyed to the melter's tank (the suction is activated by means of an air venturi).

A wand at the end of the feed hose is submerged in the adhesive granulates in the storage container.

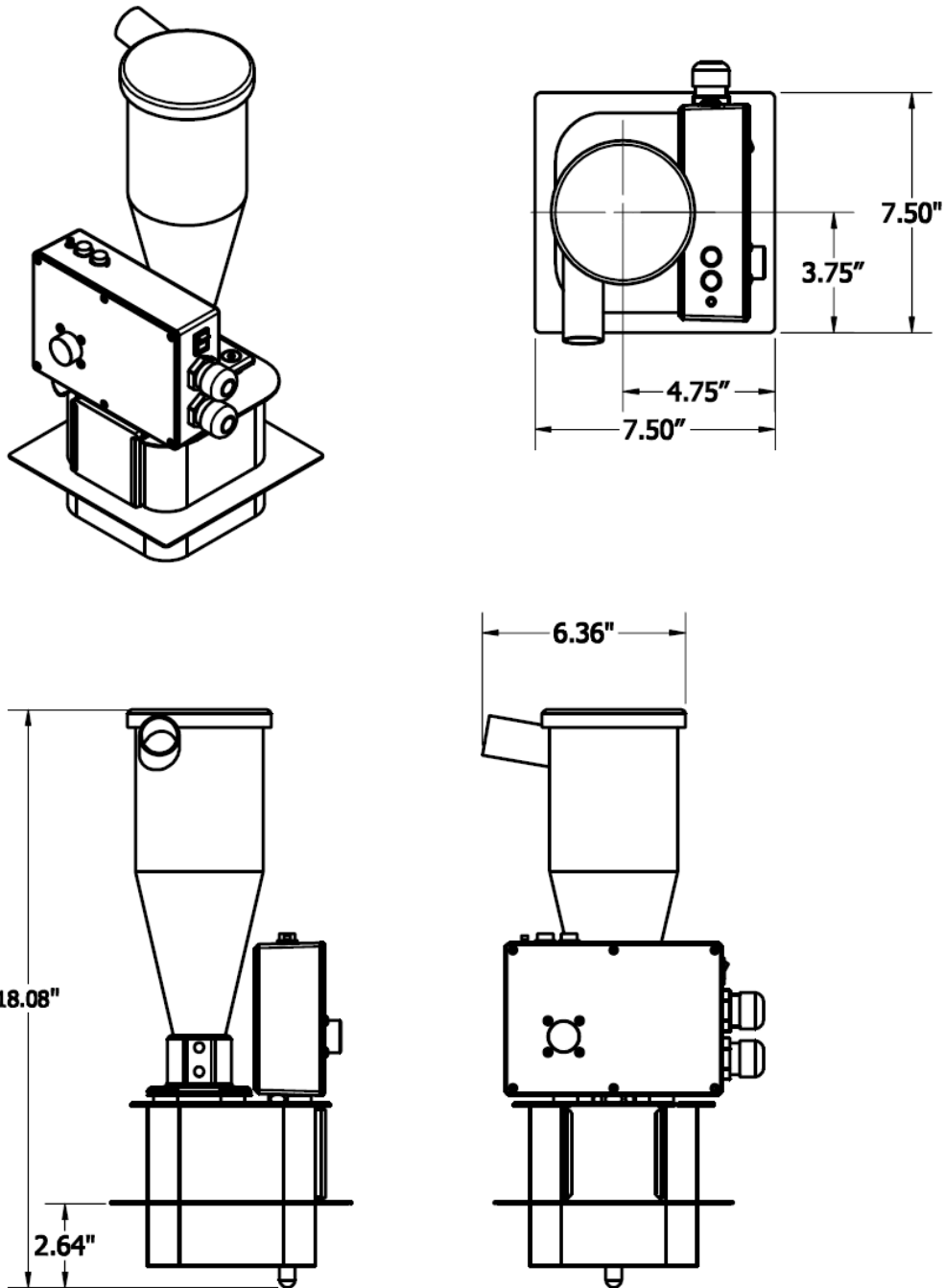
As the adhesive level lowers in the melter's tank, a probe senses the absence of adhesive and turns on compressed air to the wand, causing adhesive granulates to flow. When the adhesive level contacts the probe in the tank, the sensor automatically turns off the air pressure and the supply of adhesive granulates stops.

3.2.7 Dimensions: Feed Wand Assembly for ADS1



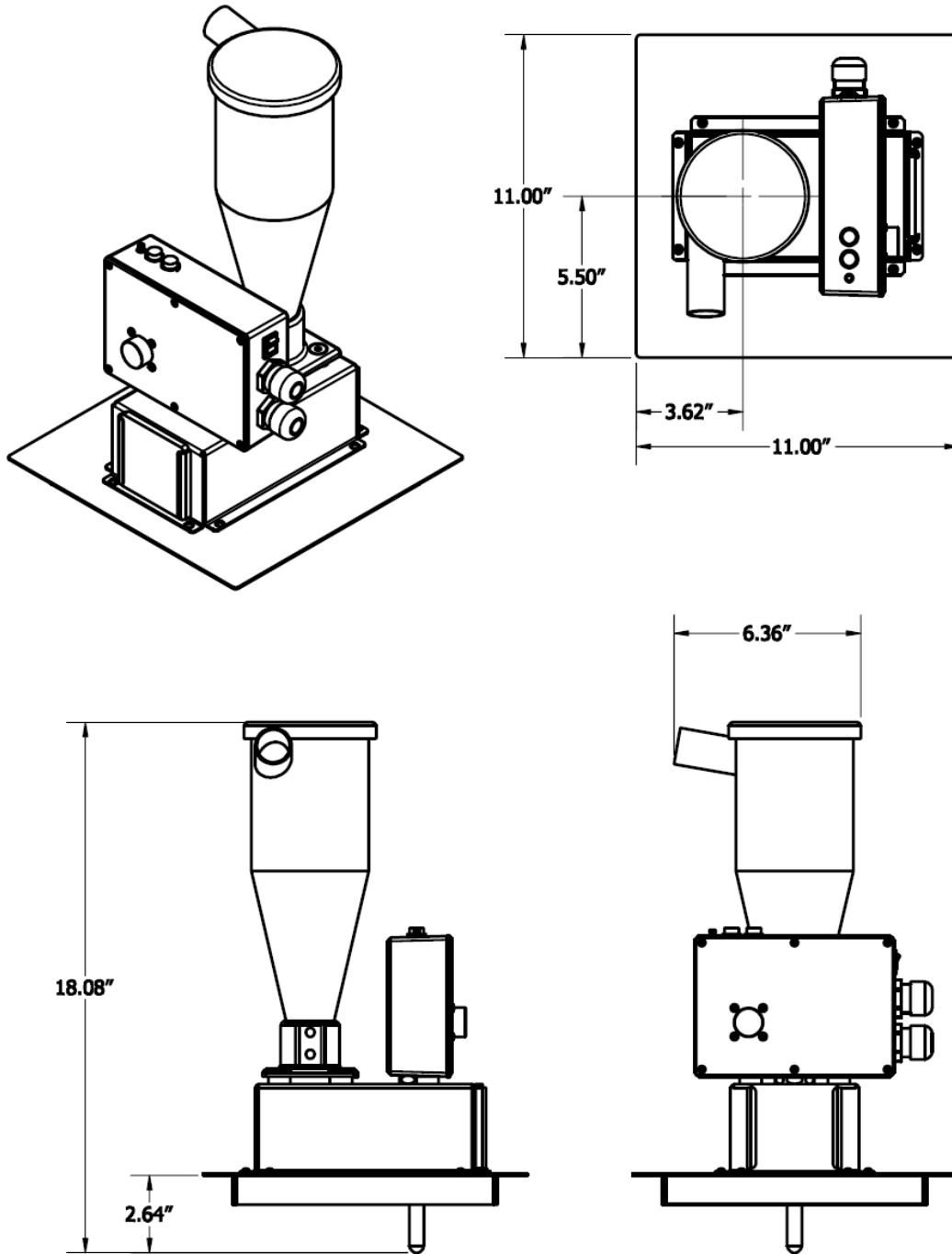
All dimensions are in mm.

3.2.8 Dimensions of the tank lid sets for Dynamelt S05, S10, N05 & N10 Vortex Cap



All dimensions are in inch.

3.2.9 Dimensions of the tank lid sets for Dynamelt S22, S45, N22 & C22 Vortex Cap



All dimensions are in inch.

Chapter 4

Installation and Operation



CAUTION

- Before installation and commissioning, please read this documentation carefully.
- All installation and commissioning work must be performed by qualified, trained personnel.
- Pay attention to all the installation and connecting advices.
- Heed all safety instructions mentioned in Chapter 2.

4.1 Pre-Installation

ITW Dynatec recommends that the following steps be taken before installation of the ADS1.

Note: In the following text **OD** means “outer diameter” and **ID** means “inner diameter”.

4.1.1 Air Connection

1. From 1” (2.54 cm) plant air line, run 1/2” (1.27 cm) OD air line to the DynaFill’s 1/2” (1.27 cm) inlet. Air must be clean and dry. Pressure must be regulated with customer-supplied regulator.
2. If a ball valve is installed in the air feed line, the valve fitting **MUST** be the same size ID as the pipe that feeds it.
3. Air Pressure & Consumption:
When the Model ADS1 with 13 feet (4 m) of 1.25” (3.18 cm) ID tubing is transporting adhesive granulate, the air regulator should be able to maintain at least 60 psi (4 bar). At 60 psi (4 bar), air consumption is approximately 20 SCFM (see details under Ch.3.2 Specifications).

4.1.2 Compressed air quality



ADVICE

- **In any case the air has to be clean and dry!**
See advice in the following “Quality of compressed air” table.
- **The min. requirement for compressed air supply to solenoids to control Adhesive Melter is ISO 8573-1:2010 class 7:4:3.**

Compressed air quality classes according to ISO 8573-1:2010 class 7:4:3:

ISO 8573-1: 2010	Solid particles			Water		Oil	
Class	Maximum number of particles per m ³			Mass concentration	Vapor pressure dew point	Liquid	Total oil content (liquid, aerosol and mist)
	0.1-0.5 μm	0.5-1 μm	1-5 μm	mg/m ³	°C	g/m ³	mg/m ³
0	As stipulated by the equipment user, stricter requirements than class 1.						
1	≤ 20,000	≤ 400	≤ 10	-	≤ -70	-	0.01
2	≤ 400,000	≤ 6,000	≤ 100	-	≤ -40	-	0.1
3	-	≤ 90,000	≤ 1,000	-	≤ -20	-	1
4	-	-	≤ 10,000	-	≤ +3	-	5
5	-	-	≤ 100,000	-	≤ +7	-	-
6	-	-	-	≤ 5	≤ +10	-	-
7	-	-	-	5-10	-	≤ 0.5	-
8	-	-	-	-	-	0.5 - 5	-
9	-	-	-	-	-	5 - 10	-
X	-	-	-	> 10	-	> 10	> 10

4.1.3 Adhesive Hose Connection

1. Either 1.25" (3.18 cm) ID (1.5" (3.81 cm) OD) PVC reinforced hose (not recommended for runs over 25 feet (7.5 m)) or 1.25" (3.18 cm) ID PVC (schedule the size 40) pipe may be used to transport the adhesive granulate. However, PVC pipe will transport the adhesive granulate both further and in greater volume than the hose will. When the unit is not in the process of transporting adhesive granulate, there is very little adhesive granulate left in the transport hose/pipe. We estimate a supply of one to three pounds (0.45 to 1.36 kg) over a 100 foot (30 m) distance.
2. To optimize adhesive granulate flow through the system, run the reinforced-PVC hose or the PVC pipe between the adhesive granulate storage container and the ASU's hopper in as straight a line as possible. In addition to being the shortest distance, the elimination of elbows reduces both drag and back pressure. The maximum distance vertically should be 15' (4.5 m). If a longer distance is required contact ITW Dynatec.
3. PVC Hose:
 - a. You may use 1.25" (3.18 cm) ID reinforced hose directly from the storage container to the ASU's hopper. If you do, make sure that the hose is kept as straight as possible and that it is not collapsing either because of sharp turns or because it is lying across a sharp-edged corner.
 - b. The hose will slide over the tube located at both the hopper and the storage container.
 - c. If the hose is routed around a corner, make the curve is as long and as sweeping as possible. Use a spiral-wire guide. This will improve adhesive granulate flow by reducing both drag and back pressure.
4. PVC Pipe (recommended method):
 - a. If PVC pipe is used, make sure that the connection point at each pipe segment is thoroughly sealed. A leak at a joint will reduce the system's ability to transport adhesive granulate, and the larger the leak, the more the system's transport capacity is reduced.
 - b. If you use PVC pipe, 1.25" (3.18 cm) ID PVC (1.5" (3.81 cm) OD) reinforced hose should be used to connect both the hopper at the down-connection point and the storage container at the up-connection point to the PVC pipe. Make sure that the pipe is kept as straight as possible and that it is not collapsing into an oval shape because of sharp turns.
 - c. When PVC pipe is used, make sure that either the 45-degree or 90-degree sweep-elbow assembly that ITW Dynatec supplies is installed at both the up-connection and down-connection points of the PVC pipe. A modified transition adapter to which the hose connects is factory-installed in each elbow. More adhesive granulate will flow through the 45-degree sweep-elbow than through a 90-degree sweep-elbow.

4.1.4 Electrical Connection



CAUTION

- Necessary electrical connection must be provided.
- Never connect or disconnect plug-and-socket connections under load!

1. *ADS1:*

Either a 120VAC or 240VAC outlet is required to power the level control box. The outlet should be within 6 feet (1.8 meters) of the level control unit installed above the ASU hopper.

2. *Control cables:*

A grounded two-conductor cable, which powers the solenoid, runs between the control box and the feed wand. This cable will carry 24VDC power from the level control box to the solenoid valve during the feed process. The factory-installed cable is supplied with a DIN connector plug that mates with the solenoid valve on the feed wand. This cable is usually attached to the reinforced-PVC hose or PVC pipe with cable ties. If local code requires that the cable should be installed inside the conduit, this must be done.

If you have any questions, please contact ITW Dynatec!

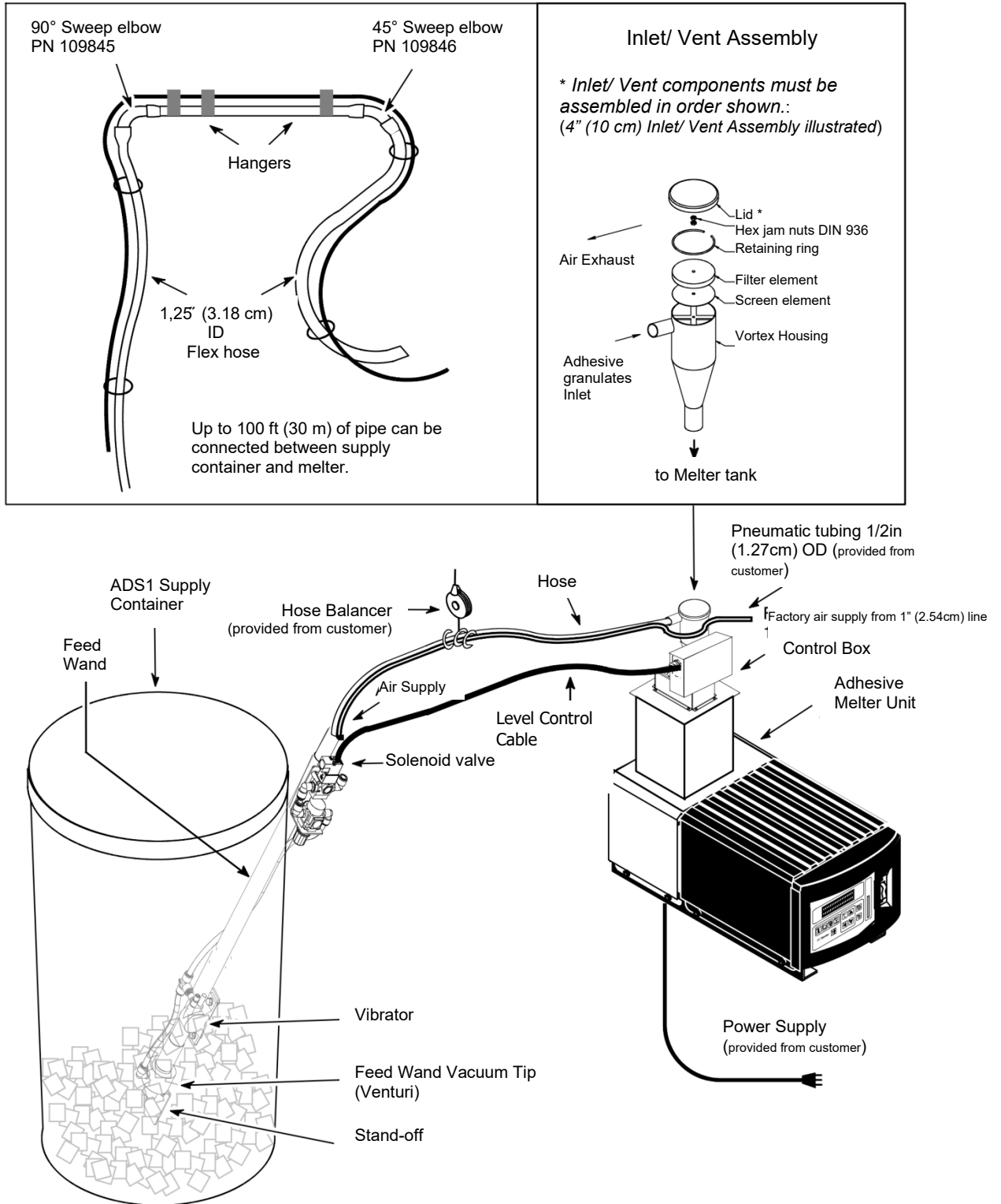
4.1.5 Advices to screw conditions and cabling



- Check all screw connections at the unit and retighten if necessary.
- Lay the cables and hoses so that no risk or least possible risk of stumbling occurs.

4.2 Installation



4.2.1 Installation Diagram (example)



4.2.2 Installation Procedure


Refer to Chapter 7 “Drawings and Bills of Materials” to identify the major components of the ADS1 Dynafill.

The Melter’s lid is an integral part of each ADS1 system and it must be correctly identified to assure the correct lid is installed on your melter.

	WARNING HOT ADHESIVE
	<p>The adhesive and unit components are getting very hot during operation! Risk of burns!</p> <p>Always wear safety shoes, heat-resistant protective gloves, safety goggles and protective clothing when working on or with the unit. Risk of burns and risk of injury!</p> <p>Use the right tool to handle hot adhesive and components.</p>

1. Replace the ASU’s lid with the lid assembly supplied with the DynaFill.
2. Assemble the components of the Inlet/Vent assembly as shown on the previous page.
3. Attach the reinforced 1.25” (3.18 cm) hose to the adhesive inlet connection on the vortex inlet. It may be helpful to heat the end of the hose with a hot air gun for make it easier to install.
4. Attach the 1/2” (1.27 cm) poly tube air line to the push lock fitting NW 7.2 on the solenoid valve.
5. Connect a clean, dry, regulated, plant air (maximum 120 psi (8 bar)) to the unit (see “Compressed air quality” table under Ch. 4 Pre-Installation).
A 1/2” (1.27 cm) inlet air line is required..
6. The customer-supplied regulator should be set to 60 psi (4 bar) when using round, marble-like form adhesive granulate. Higher pressure may be required for other granulate forms.
7. The air vibrator regulator should be adjusted to provide adequate adhesive granulate flow.
8. Insert the other end of the 1.25” (3.18 cm) reinforced hose onto the feed wand assembly located in the adhesive granulate storage container. It may be helpful to heat the end of the hose with a hot air gun for make it easier to install.
9. Make power connections to the control panel (see point “Electrical Connection” under Ch. 4.1 Pre-Installation).
10. After the installation and wiring is complete, calibrate the level sensor (see “Level Calibration” on next page).
11. Use the Velcro ties (supplied) to secure poly air lines to the hose along with the solenoid cable from the lid assembly.

4.2.3 Level Calibration

	<p>WARNING HOT ADHESIVE</p> <hr/> <p>The adhesive and unit components are getting very hot during operation! Risk of burns!</p> <p>Always wear safety shoes, heat-resistant protective gloves, safety goggles and protective clothing when working on or with the unit. Risk of burns and risk of injury!</p> <p>Use the right tool to handle hot adhesive and components.</p>
---	---

1. Install the ADS1 housing assembly on the ASU hopper.
2. Manually fill the hopper until adhesive is within 25mm (1 inch) of the tip of the probe.
3. Turn off air supply to the solenoid valve on the feed wand.
4. Turn On the ADS1 level control.
5. Set the sensitivity adjustment:
 - a. Open the sensitivity adjustment port on the level control housing.
 - b. Locate the adjustment potentiometer; it is identified by the amber LED. (Refer to printed circuit board illustration on the following page for location.)
If the red LED next to the potentiometer is On, turn the potentiometer adjustment screw clockwise until the red LED turns Off.
If the red LED is Off, turn the potentiometer adjustment screw counter-clockwise until the red LED turns On.
 - c. Sensitivity adjustment is complete.
6. Turn the air supply to the solenoid valve on the feed wand On.

The ADS1 is ready for use.

4.2.4 Final Test

Once the system is operational, observe the adhesive level in the hopper immediately after the fill cycle is complete. Re-adjust the level if the adhesive is above the lower tip of the probe.

The adhesive level in the hopper can be adjusted by turning the sensitivity adjustment potentiometer:

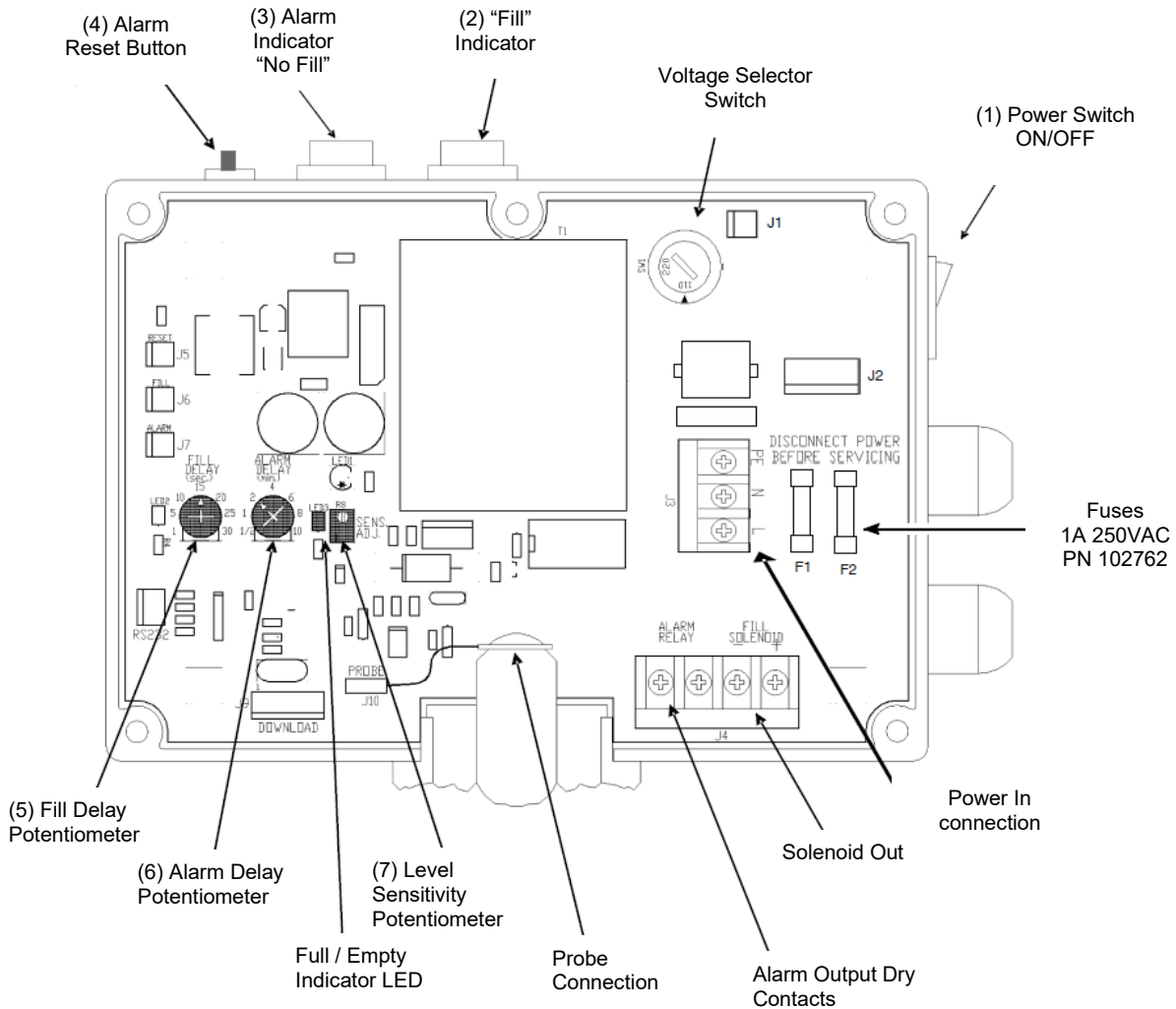
- Clockwise to raise the level
- Counter-clockwise to lower the level

4.2.5 Alarm and Fill Delay Settings

Set the Alarm and Fill Delay.

Refer to the point "Alarm and Fill Delay Settings" on next pages.

4.3 Control-Box and Printed Circuit Board



4.3.1 Control Elements

- (1) ON/OFF Power Switch:**
The switch toggles the DynaFill ADS1's controller power On and Off, and it is illuminated when power is On.
- (2) Fill Indicator:**
It illuminates when a fill signal is initiated, and it stays lit until either fill is completed or the no-fill alarm circuit is activated.
- (3) Alarm Indicator "No-Fill":**
It illuminates when a fill signal is not satisfied in the time specified in the No Fill alarm delay setting.
- (4) Alarm Reset Button:**
Depress the reset Button to cancel the no-fill alarm. The cause of the alarm, i.e. an empty DynaFill storage container or a clogged air venturi, must be corrected before the system will function properly.

4.3.2 Alarm and Fill Delay Settings

The Alarm and Fill Delay adjustments are made on the ADS1 printed circuit board (PCB, illustrated on previous page), located within the unit's control box.

Turn the ADS1 level control off and unplug the power cord before opening the front cover.



DANGER! HIGH VOLTAGE!

**Switch off the device before opening.
Failure to turn off and disconnect power to the ADS1 before opening the front cover could result in electrical shock.**

Remove all six (6) screws securing the front cover of the level control housing.
Remove the front cover.

(5) Fill Delay Potentiometer

This potentiometer adjusts the On/Off delay between the time the ADS1 receives the "fill" signal and the command to "fill".

The fill delay potentiometer is located under the wording "FILL DELAY" printed on the PCB. Proper adjustment prevents continuous cycling On and Off. Adjust the potentiometer to the desired delay using the scale printed on the PCB and the arrow molded into the adjustment dial.

The fill delay may be adjusted from 0 to 30 seconds.

The fill delay is factory set at 15 seconds.

Avoid setting the fill delay to its minimum value as this will cause the solenoid valve to constantly cycle On and Off.

(6) "No-Fill" Alarm Delay Potentiometer

Description: The alarm indicator "No fill" (amber) indicates that the signal to fill is activated, but no adhesive granulates have been filled into the hopper (tank) and the filling level (level sensor) has not been reached within the time range setpoint (alarm delay time). A set of dry contacts for connection of an external horn or light, rated for 5A at 250VAC or 30VDC closes when the "No Fill" alarm is activated.

The alarm is controlled by a 0.5 to ten minutes adjustable timer labeled "Alarm Delay".

For the "No Fill" alarm, the normal time to feed or satisfy the level control is 5 to 10 seconds. However, if a hopper has a low level, it may take several minutes to fill, and therefore the timer is set somewhere around 2 to 3 minutes.

The "No Fill" alarm circuit will illuminate the amber light when activated.

Setting: The alarm delay potentiometer is located under the wording "ALARM DELAY" printed on the PCB. Adjust the potentiometer to the desired delay using the scale printed on the PCB and the arrow molded into the adjustment dial.

The alarm delay may be adjusted from 30 seconds to 10 minutes.

The alarm delay is factory set at 2 minutes.

In the event of an alarm, the operator must troubleshoot, eliminate the error and reset the alarm.







(7) Level Sensitivity Potentiometer:

This potentiometer adjusts the desired level of adhesive (in the hopper) at which the ADS1 should switch on and refill.

Chapter 5

Maintenance and Troubleshooting

5.1 Security advices for maintenance and repair

	<p>Heed all security advices given in Chapter 2.</p>
	<p>Use only original parts from ITW Dynatec, otherwise ITW Dynatec's warranty is void!</p>
	<p>Maintenance and repair work is only permitted for skilled personnel!</p> <p>Always wear safety shoes, heat-resistant protective gloves, safety goggles and protective clothing that cover all vulnerable parts of the body while working on the heated unit! Risk of injury or heavy burns!</p>
	<p>High Voltage! Risk of injury and mortal danger!</p> <ul style="list-style-type: none">• All electrical connections must be made by qualified electrical personnel.• Care must be taken to assure proper grounding prior to any disassembly.• Lockout and tag the electrical sources as required.• Make sure there is no electrical power on the leads you will be connecting.• When covers are removed, high voltage sources create an electrocution hazard.• Wear appropriate safety equipment when working with high voltage sources.
	<p>Parts and surfaces of the unit get very hot. High temperatures! Risk of heavy burns!</p>
	<p>High adhesive temperature and adhesive pressure! Risk of injury or heavy burns!</p> <p>Always assume that the system is under pressure, proceed with caution.</p>
	<p>Keep a cool-pack, or bucket of clean water near the work area.</p>
	<p>Place a heat-resistant catchment container/underlay under the components. Hot adhesive may come out.</p>
	<p>CAUTION: At working temperature, molten adhesive could cause heavy burns. Let spilled out adhesive cool down first, before removing it!</p>
	<p>CAUTION: Use only lint-free cleaning cloth and suitable cleaner for cleaning! Do not damage surfaces! Do not scratch above them with sharp-edged tools, otherwise the components will get leaky and inoperable!</p>
	<p>All maintenance and repair work has to be done at working temperature, except as noted otherwise. Else there is a risk of damaging the unit components!</p>
	<p>Before any service work disconnect the external power supply and switch the unit voltage-free:</p> <ol style="list-style-type: none">1. Switch off the main switch and the controller.2. Disconnect the power supply respectively remove the plug / cable.3. Guard the unit against unauthorized restarting!

Before any service work the adhesive pressure must be relieved throughout the system. Switch the unit pressureless:

1. Disconnect the pressure air supply.
2. Turn the pressure regulator to zero bar, if necessary. Wait approximately 1 minute until the pressure is relieved.

5.2 Maintenance

Care must be taken to ensure that the compressed air remains dry and that there is no debris in the adhesive granulate storage container, in the feed wand, and in the melt hopper (tank) of the melter.

If adhesive sticks to the level sensor, reduce the air pressure to the air venturi to slow the fill speed and increase the sensitivity of the level sensor (see previous chapter). This should be checked daily for the first few weeks.

5.3 Troubleshooting

There are two main sub-assemblies:

1. Level Control Assembly
2. Feed Wand Assembly

Problem	Possible Cause	Solution
1. Red LED cannot be adjusted to turn ON.	<ol style="list-style-type: none"> 1. Probe lead not connected. 2. No power to unit. 3. Control PCB's fuse is defective. 4. Inoperative level control printed circuit board (PCB). 	<ol style="list-style-type: none"> 1. Plug the probe lead into probe. 2. Check for correct voltage to unit (120 or 240 Volt), determined by voltage selector switch position. 3. Replace fuse. 4. Replace level control assembly.
2. Red LED remains ON at all times.	<ol style="list-style-type: none"> 1. Probe is shorted to case or ground. 2. Inoperative level control PCB. 	<ol style="list-style-type: none"> 1. Unplug probe lead and position it so that the bare end is not touching anything. Turn the calibration pot 20 turns counter-clockwise. The LED should go out. If it does not, repair, replace or clean the probe. 2. Replace level control assembly.

Problem	Possible Cause	Solution
3. Fill process stops when adhesive touches probe, and does not resume when the adhesive level in the tank drops and the adhesive is no longer touching the sensor.	<ol style="list-style-type: none"> 1. Improper calibration. 2. Excessive adhesive buildup on probe. See previous chapter "Maintenance". 	<ol style="list-style-type: none"> 1. See chapter Level Calibration. 2. Clean and recalibrate the sensor.
4. Unit will not detect adhesive.	<ol style="list-style-type: none"> 1. Improper calibration. 2. Probe lead not plugged into probe. 3. Too much delay set. 	<ol style="list-style-type: none"> 1. See chapter Level Calibration 2. Plug probe lead into probe. 3. Recalibrate sensor and adjust fill delay.
5. Relay operates properly, but no signal at "solenoid out" terminals of circuit board.	Control assembly is inoperative.	Replace Control Assembly.
6. Unit triggers and fill light comes on but does not fill. Adhesive "spirals" inside braided hose, but does not move.	<ol style="list-style-type: none"> 1. Vent blocked. 2. Air venturi inlet on feed wand is blocked. 3. Dust filter clogged. 	<ol style="list-style-type: none"> 1. Use a heat gun to clean out vent. See note*. 2. Check the inlet on bottom of feed wand assembly and clean if necessary. Check bottom of storage container for foreign objects and clean if necessary. 3. Clean or replace filter.

* Note: A hot air gun works well to melt adhesive in lid vent or inlet fitting. Fittings are slip fit and can be removed to clean if necessary.

This page intentionally left blank.

Chapter 6

Options & Accessories

6.1 Options & Accessories

6.1.1 Drum Dolly, PN 115147

If the adhesive granulate storage container is required at different locations or on different machines, it can be put on a drum dolly. This is a heavy-duty steel platform (900 lb (408 kg) max capacity) with four 3-inch (7.62 cm) rubber, swivel casters.

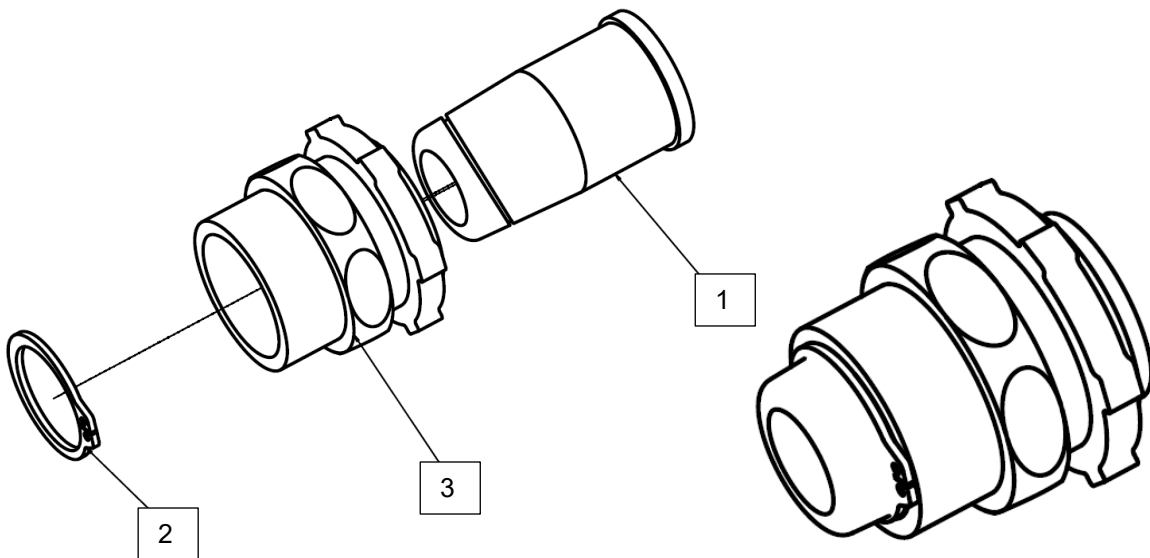
6.1.2 Audible Alarm Kit, PN 115241

This kit adds a buzzer which is activated by controller alarms.

6.1.3 Probe Insulator Kit, PN 827479

This kit prevents the probe and insulator from sliding upward through the box spacer.

Pos.	PN	Description	Qty
1	114869	Sleeve (probe insulator)	1
2	808284	Retaining ring	1
3	114870	Box spacer 3/4 NPT	1



6.2 Recommended Spare Parts

PN	Description	Qty
114196	Vibrator	1
114878	Solenoid valve kit, 24 VDC	1
109324 *	Filter Kit (for 4" (10 cm) vent assembly) The kit must be ordered as an assembly and it contains an air filter 114167, an air filter screen 114166 and a retaining ring 116305.	1
102762	Fuses, 1 A, 250 VAC (on PCB)	5
114871	Level Control Assembly 120V (contains PCB)	1
121597	Level Control Assembly 240V (contains PCB)	1
119859	Power Switch	1
119860	Reset-Switch	1
119861	Indicator light assembly, green	1
119862	Indicator light assembly, amber	1

* Components of the filter kit must be assembled in order shown:

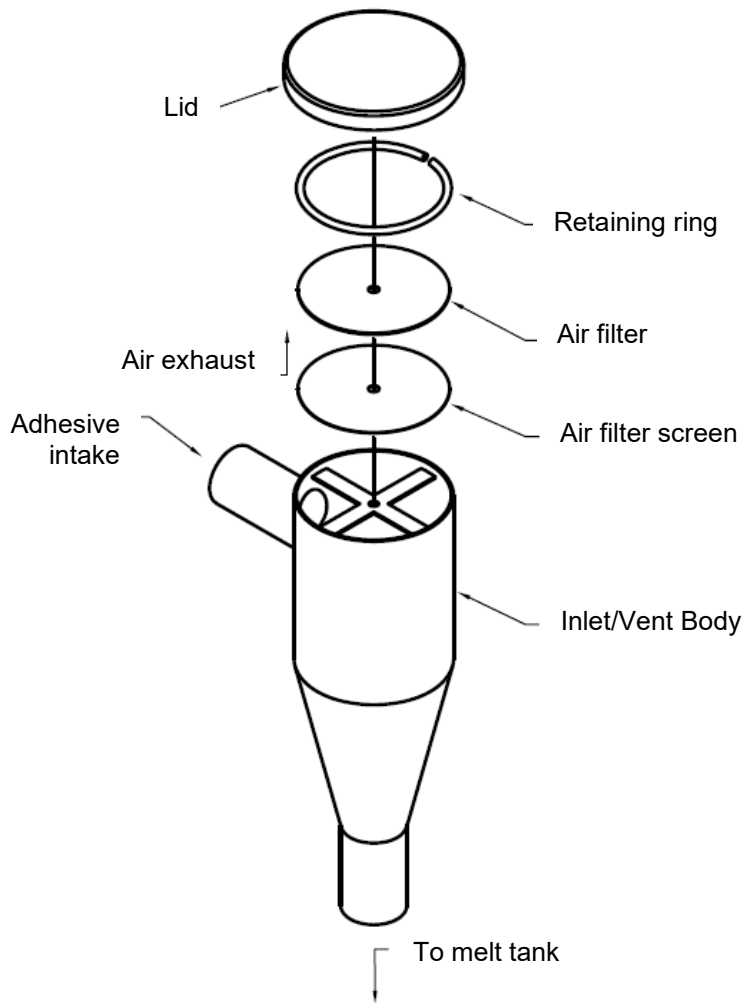


Illustration: 4" (10 cm) Inlet/Vent Assembly

Chapter 7

Drawings and Bills of Materials



WARNING

All parts must be periodically inspected and replaced if worn or broken. Failure to do this can affect equipment's operation and can result in personal injury.

This chapter contains the component illustrations (exploded-view drawings) for each assembly. These drawings are useful for finding part numbers as well as for use when maintaining or repairing the equipment.

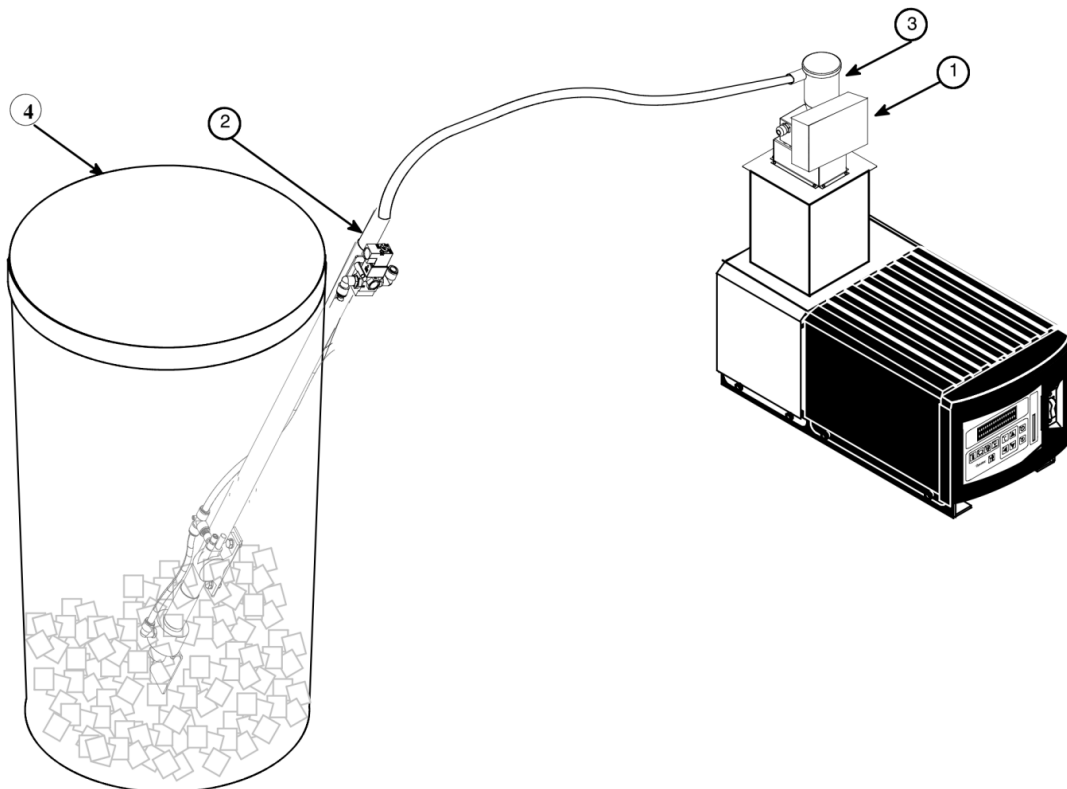
Note: Most common screws, nuts and washers called out in the manual are not for sale and they can be obtained locally at your hardware Store. Specialty fasteners are available by contacting ITW Dynatec's Customer Service.

7.1 Major Components of ADS1 Dynafill

Item	PN	Description	Qty
1	114871	ADS1 Level Control Box 120/240V	1
	121597	ADS1 Level Control Box 240V	1
2	114881 *	ADS1 Feed Wand assembly	1
3	**	ADS1 Housing Assembly	1
4	114872 *	Tote 55-gallon (208 liters) with lid, adhesive granulate storage container	1

* see separate drawing.

** see options under Ch. 7.4, 7.5 and 7.6.

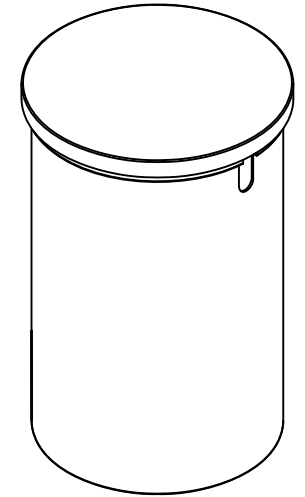
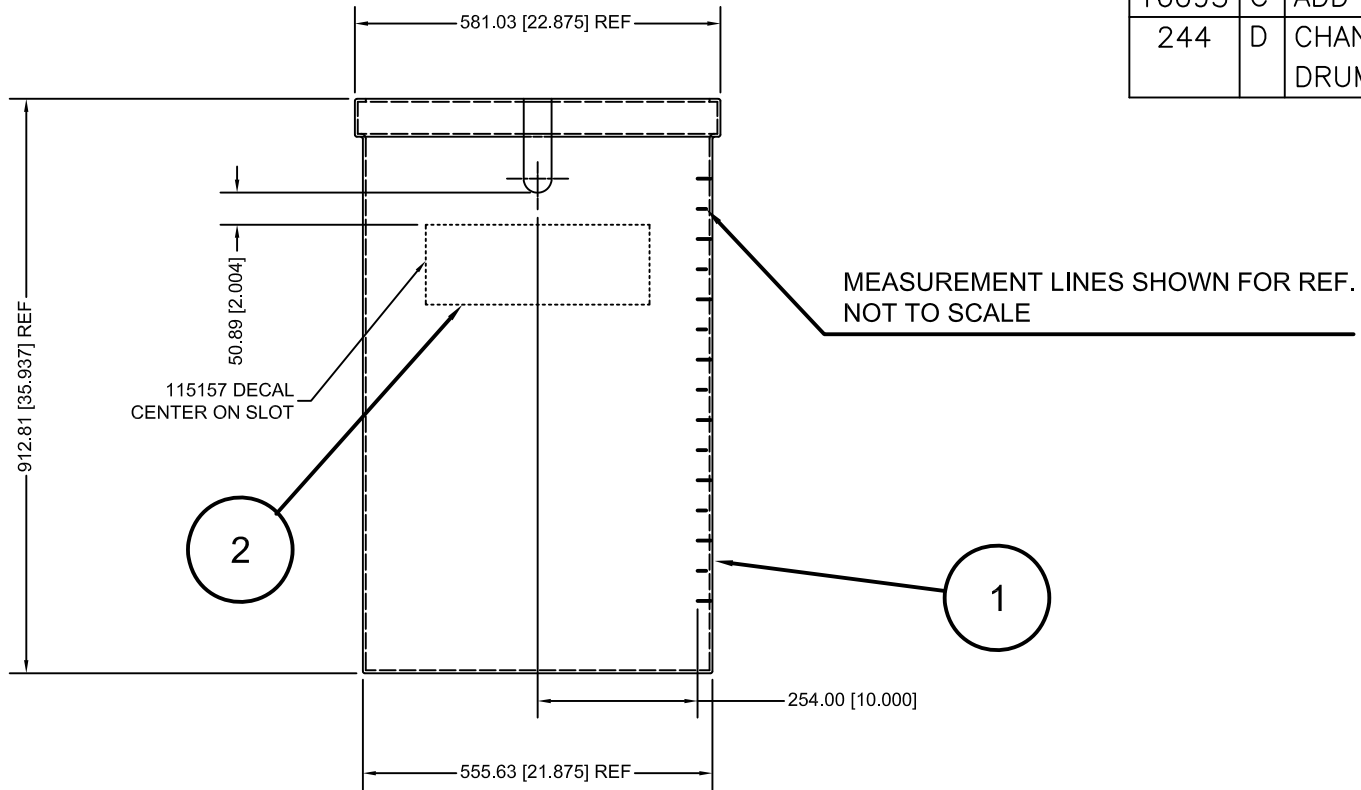


7.2 Tote 55-gallon (208 l) with lid, adhesive granulate storage container, PN 114872

Drawing on next page.

THIS DRAWING IS THE PROPERTY OF ITW/DYNATEC.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF ITW/DYNATEC.

REVISIONS					
REL.	REV.	DESCRIPTION	DATE	BY	APPROVED
08361	A	INITIAL RELEASE	10.17.08	CRF	
09088	B	ADD 115157 DECAL LOCATN	4.13.09	CRF	
16095	C	ADD CENTER NOTCH DIM.	10.03.16	JC	
244	D	CHANGED TO ASSEMBLY OF DRUM AND LABEL	03.11.19	AS	



2	115157	1	EA	LABEL, ADS1 BIN
1	826301	1	EA	TOTE, 55GAL W/LID
ITEM	PART NUMBER	QTY.	U/M	DESCRIPTION

PART LIST

<small>UNLESS OTHERWISE SPECIFIED DIMS ARE IN MILLIMETERS/INCHES TOLERANCES ARE: (MM)DECIMALS (IN)DECIMALS ANGLES X. ± 0.5 .XX ± .010 ± .5 .X ± 0.25 .XXX ± .005 .XX ± 0.10</small>	<small>FOR MACHINING STANDARDS AND SYMBOLS, SEE ITW/DYNATEC SPEC. A05800</small>				U/M
	<small>USED ON</small> <p style="text-align: center;">ADS1</p>		<small>APPROVALS</small> <p style="text-align: center;">DRAWN CRF</p>	<small>DATE</small> <p style="text-align: center;">8.19.08</p>	<p style="text-align: center;">TOTE, 55 GAL W/LID NOTCHED FOR WAND</p>	EA STATUS P SOURCE C
<small>NEXT ASSY.</small>	<small>CHECKED</small>	<small>COMPUTER DESCRIPTION(24 CHARACTERS)</small>	<small>SIZE DWG. NO.</small> <p style="text-align: center;">B 114872</p>	<small>REV</small> <p style="text-align: center;">D</p>	<small>GROUP</small> <p style="text-align: center;">00</p>
<small>DO NOT SCALE DRAWING</small>			<small>SCALE</small> <p style="text-align: center;">CAD DRAWING</p>	<small>SHEET</small> <p style="text-align: center;">1 OF 1</p>	

7.3 Feed Wand Assembly, PN 114881

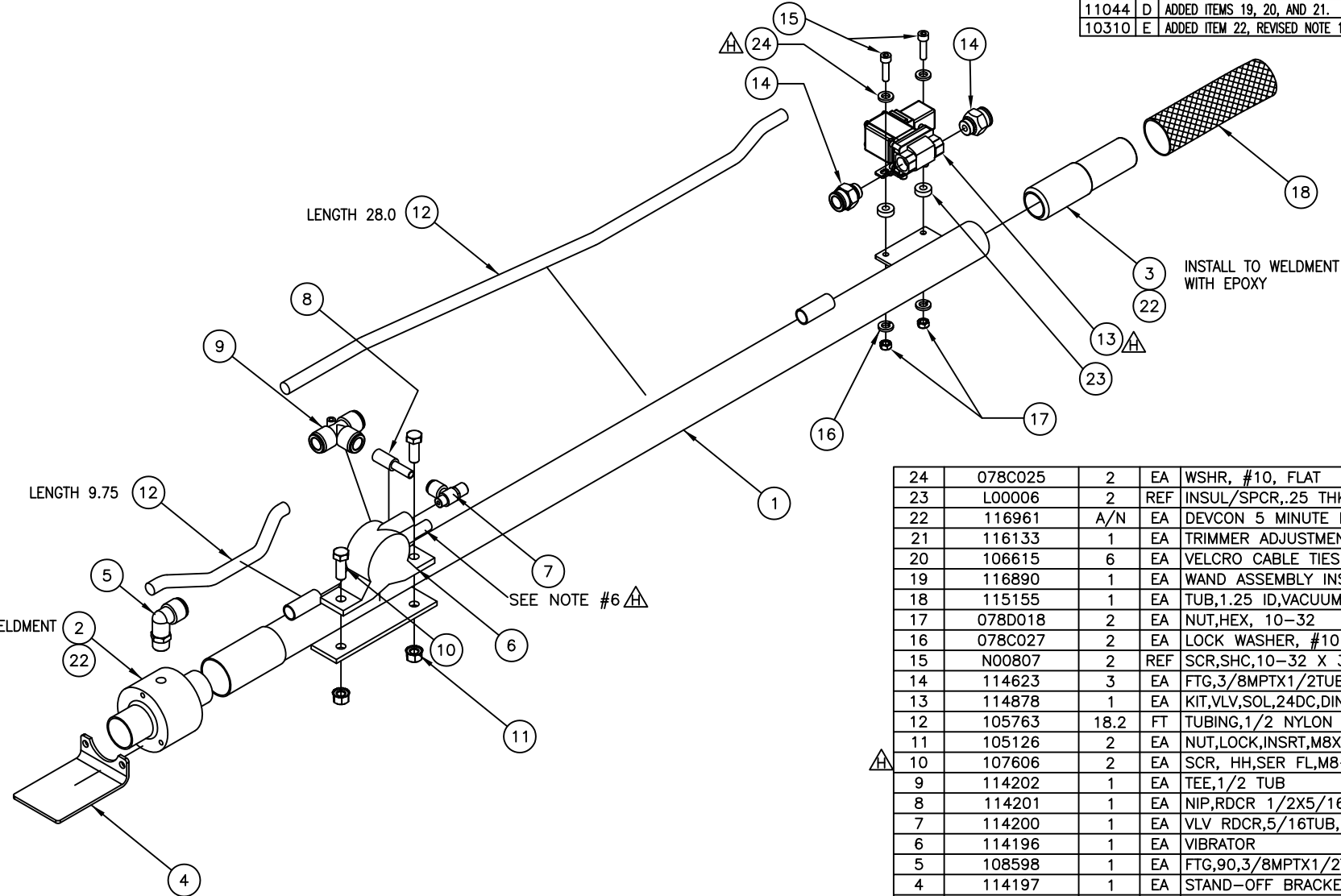
Drawing on next page.

THIS DRAWING IS THE PROPERTY OF ITW/DYNATEC. DO NOT REPRODUCE OR DISCLOSE TO OTHERS WITHOUT EXPRESS WRITTEN CONSENT OF ITW/DYNATEC.

244	J	CHANGED ITEM 1,3 & 4 TO EA FROM REF REMOVE NOTE 3	03.11.19	AS
-----	---	---	----------	----

15082	F	ADD ITEM 24, MAKE ITEM 15/23 REF. ITEM 15 WAS N00805	07.01.15	JC
15120	G	REMOVE ITEM 24 (DUPLICATE OF 16)	08.28.15	JC
17060	H	ITEM 10 WAS 108298, ADD ITEM 24 ADD NOTES 5 & 6	11.03.17	ASA

REVISIONS					
REL.	REV.	DESCRIPTION	DATE	BY	APPROVED
08382	A	INITIAL RELEASE	10.31.08	CRF	
09043	B	ADDED 1 PC 114623 FTG	2.17.09	CRF	
09214	C	ITEMS 1, 3 AND 4 ARE NOW REF ADDED NOTE 3	8.11.09	BB	
11044	D	ADDED ITEMS 19, 20, AND 21.	4.8.11	CRF	
10310	E	ADDED ITEM 22, REVISED NOTE 1	5.3.11	BB	



INSTALL TO WELDMENT WITH EPOXY

INSTALL TO WELDMENT WITH EPOXY

NOTES:

- JOIN ITEMS 2 (VENTURI) AND 3 (ADAPTER) TO ITEM 1 WAND WELDMENT VIA DEVCON TWO-PART 5 MINUTE EPOXY (ITEM 22) OR ENGINEERING APPROVED EQUIVALENT.
- ATTACH AIR SUPPLY TUBING TO WAND WITH CABLE TIES AT THE VIBRATOR BRACKET AND THE SOLENOID/REGULATOR MOUNTING BRACKET.
-
- ITEMS 15 AND 23 ARE REFERENCE ONLY AND ARE CONTAINED WITHIN ITEM 13 BOM.

5. VIBRATOR (PART #6) HAS SUPPLIED MUFFLER IN BOX. PUT IT IN HOLE CLOSEST TO TUBE. SUPPLY AIR LINE GOES IN HOLE MARKED WITH ARROW.

6. PUT PEICE OF MASKING TAPE OVER SOLENOID TOP OF ITEM #13, TO RETAIN MOUNTING SCREW DURING SHIPPING.

ITEM	PART NUMBER	QTY.	U/M	DESCRIPTION
24	078C025	2	EA	WSHR, #10, FLAT
23	L00006	2	REF	INSUL/SPCR,.25 THK
22	116961	A/N	EA	DEVCON 5 MINUTE EPOXY
21	116133	1	EA	TRIMMER ADJUSTMENT TOOL.
20	106615	6	EA	VELCRO CABLE TIES, .5X9
19	116890	1	EA	WAND ASSEMBLY INSTRUCTION SHEET
18	115155	1	EA	TUB,1.25 ID,VACUUM 13FT W/CLAMPS
17	078D018	2	EA	NUT,HEX, 10-32
16	078C027	2	EA	LOCK WASHER, #10
15	N00807	2	REF	SCR,SHC,10-32 X 3/4,BLK
14	114623	3	EA	FTG,3/8MPTX1/2TUBE
13	114878	1	EA	KIT,VLV,SOL,24DC,DIN
12	105763	18.2	FT	TUBING,1/2 NYLON
11	105126	2	EA	NUT,LOCK,INSRT,M8X1.25
10	107606	2	EA	SCR, HH,SER FL,M8-1.25X25
9	114202	1	EA	TEE,1/2 TUB
8	114201	1	EA	NIP,RDCR 1/2X5/16 TUB
7	114200	1	EA	VLV RDCR,5/16TUB,1/8NPT
6	114196	1	EA	VIBRATOR
5	108598	1	EA	FTG,90,3/8MPTX1/2TUBE
4	114197	1	EA	STAND-OFF BRACKET, VENTURI
3	114873	1	EA	TUBE, HOSE ADPTR
2	114195	1	EA	VENTURI
1	114880	1	EA	WAND WELDMENT, ADS1

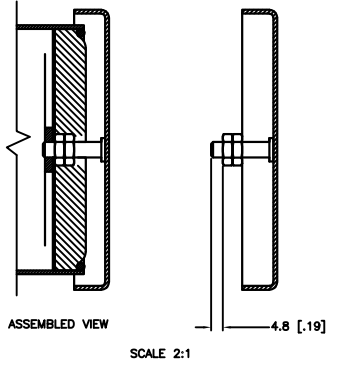
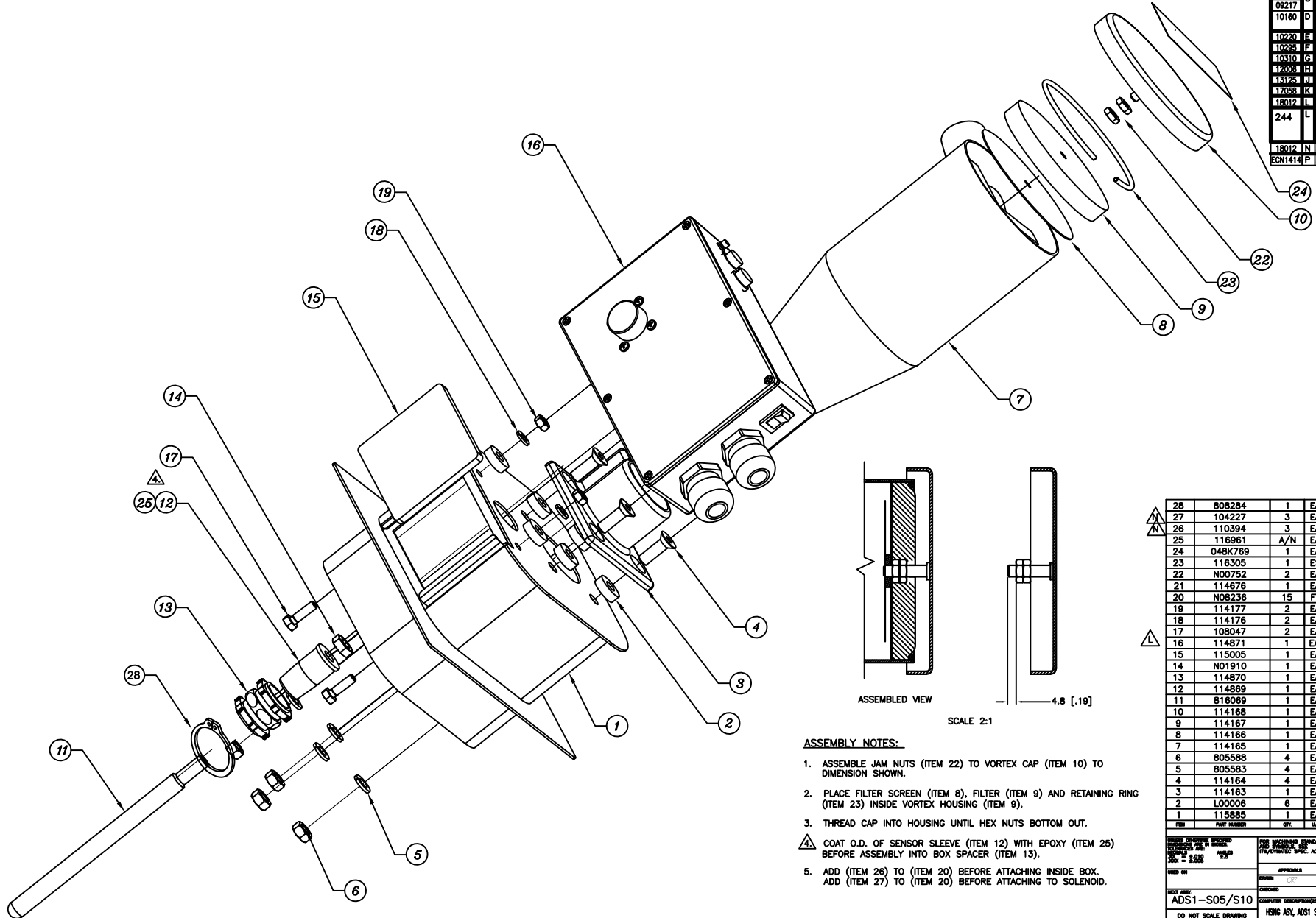
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: .XXX = ±.010 .XXX = ±.005		FOR MACHINING STANDARDS AND SYMBOLS, SEE ITW/DYNATEC SPEC. A05800		 HENDERSONVILLE, TN		U/M EA
USED ON ADS1	APPROVALS DRAWN CHECKED	DATE 10.30.08	STATUS P SOURCE P		WAND ASSEMBLY ADS1	REV. J GROUP 00
NEXT ASSY. —	COMPUTER DESCRIPTION(25 CHARACTERS) WAND ASY, ADS1	SCALE 1:3	DWG. NO. 114881	CAD DRAWING			SHEET 1 of 1

7.4 ADS1 120V Housing Assemblies

7.4.1 ADS1 Housing Assembly 120V for Dynamelt S05/S10, PN 114879P

THIS DRAWING IS THE PROPERTY OF AEG/ANALOG.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF AEG/ANALOG.

REV.	REV.	DESCRIPTION	DATE	BY	APPROVED
08382	A	INITIAL RELEASE	10.31.08		
09214	B	ITEMS 3 AND 7-12 ARE NOW REF; ADDED NOTE 1.	8.11.09		
09202	C	REMOVE M03872 RING TERMINAL ITEM 22	8.24.09		
09217		ADD N00752 AND ASSEMBLY VIEW			
10160	D	ADDED ITEMS 23 & 24; REVISED SECTION VIEW & ADDED ASSEMBLY NOTES	11.23.10		
110270	E	REF 114871 114169	2.2.11		
110285	F	REF 114871 114174	4.28.11		
110310	G	ADDED ITEM 25 AND ASSEMBLY NOTE 4	5.8.11		
120006	H	REF 114871 114877	1.16.12		
131725	I	ADDED ITEM 23 TO NOTE 1.	5.07.13	AD	
170558	K	ADDED WIRING DETAIL PG. 2	11.08.17	AD	
18012	L	114871 TO REF	02.08.18	DLR	
244		CHANGE 116305,114871,114869,816069 TO 114168,114167,114166,114165,114163 TO EA FROM REF	03.11.19	AS	
18012	N	ADD ITEM 26 AND 27	10.25.19	ASA	
E0N1414	P	ADD ITEM 28	12.13.21	PK	



- ASSEMBLY NOTES:**
- ASSEMBLE JAM NUTS (ITEM 22) TO VORTEX CAP (ITEM 10) TO DIMENSION SHOWN.
 - PLACE FILTER SCREEN (ITEM 8), FILTER (ITEM 9) AND RETAINING RING (ITEM 23) INSIDE VORTEX HOUSING (ITEM 9).
 - THREAD CAP INTO HOUSING UNTIL HEX NUTS BOTTOM OUT.
 - COAT O.D. OF SENSOR SLEEVE (ITEM 12) WITH EPOXY (ITEM 25) BEFORE ASSEMBLY INTO BOX SPACER (ITEM 13).
 - ADD (ITEM 26) TO (ITEM 20) BEFORE ATTACHING INSIDE BOX. ADD (ITEM 27) TO (ITEM 20) BEFORE ATTACHING TO SOLENOID.

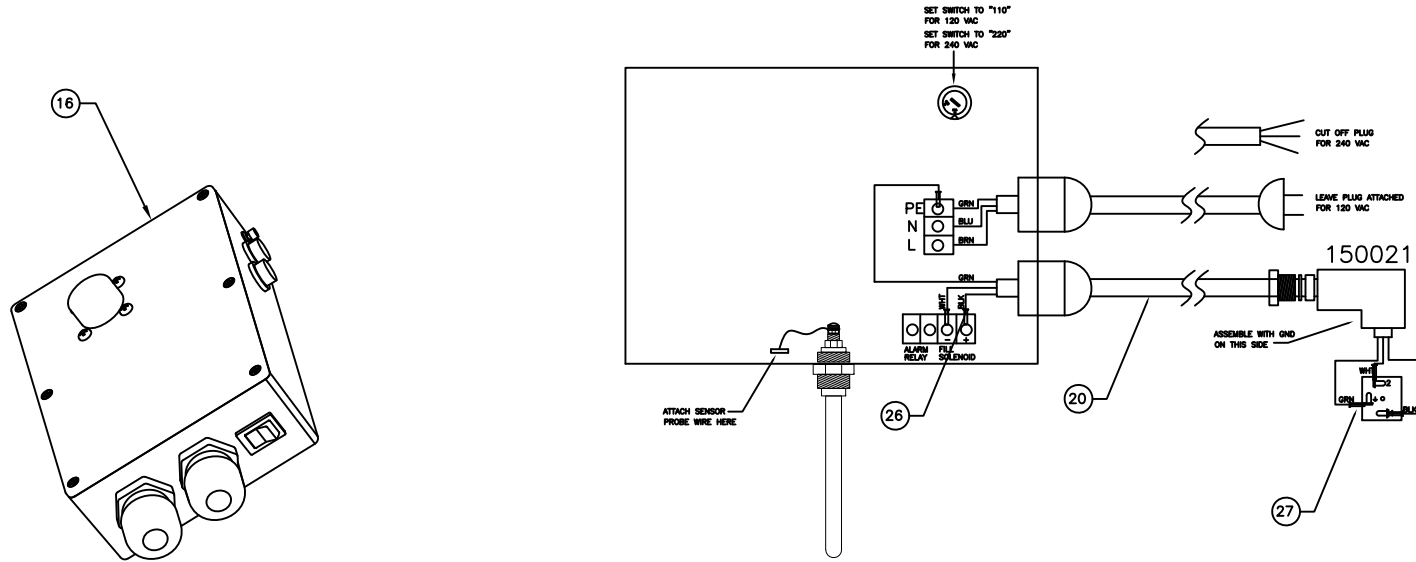
REV.	REV.	QTY	UOM	DESCRIPTION
28	808284	1	EA	RETAINING RING
27	104227	3	EA	FERRULE,UNINSUL,18 AWG
26	110394	3	EA	FERRULE,INSULATED,20AWG
25	118961	A/N	EA	DEVCON 5 MINUTE EPOXY
24	048K769	1	EA	LABEL, "HOT"
23	116305	1	ES	RING, FILTER RETAINING
22	N00752	2	EA	NUT, 1/4-20 HEX JAM
21	114876	1	EA	DATA LBL AD51
20	N08236	15	FT	CABLE, 18GA, 3C, SV
19	114177	2	EA	NUT,HEX,M8X1,SST
18	114176	2	EA	WSHR,LOCK,SPLIT,M8,SST
17	108047	2	EA	SCR,FHC,M8X1X20,SST
16	114871	1	EA	ASSY, LEVEL CONTROL 120/240
15	115005	1	EA	HF WINDOW
14	N01910	1	EA	NUT, .375-24 HEX JAM
13	114870	1	EA	3/4 NPT BOX SPACER
12	114869	1	EA	SLEEVE, SENSOR, TEFLON
11	816069	1	EA	SENSOR PROBE
10	114168	1	EA	VORTEX INLET CAP
9	114167	1	EA	AIR FILTER
8	114166	1	EA	AIR FILTER SCREEN
7	114165	1	EA	VORTEX INLET
6	805588	4	EA	NUT,HEX,M8X1,25,SST
5	805583	4	EA	WSHR,LOCK,SPLIT,M8,SST
4	114164	4	EA	SCR,FHC,M8X1,25X25,SST
3	114163	1	EA	VORTEX FLANGE
2	L00006	6	EA	INSUL/SPCR,25 THK
1	115885	1	EA	HOUSING, DMSR S05/S10

TITLE: ADS1-S05/S10 HOUSING ASSY DATE: 10.30.08 DRAWN BY: [Signature]	FOR INQUIRY SEARCHED: INDEXED FILED: DATE: 10.30.08 TIME: 10:30 AM BY: [Signature]	PARTS LIST APPROVALS: [Signature] DATE: 10.30.08 DESIGNED BY: [Signature] DATE: 10.30.08 CHECKED BY: [Signature] DATE: 10.30.08 DRAWN BY: [Signature] DATE: 10.30.08	Dynatrac HOUSTON, TEXAS ADS1-S05/S10 HOUSING ASSY REV. NO. 114879 SCALE 1:1 CAD DRAWING SHEET 1 OF 2
---	--	--	--

THIS DRAWING IS THE PROPERTY OF RTI/DYNATEC.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF RTI/DYNATEC.

REVISIONS				
REL.	REV.	DESCRIPTION	DATE	BY / APPROVED
		(SEE PG. 1)		

CIRCUIT BOARD VIEW
(COVER REMOVED)



QTY.	PART NUMBER	U/M	DESCRIPTION
3	104227	EA	FERRULE,UNINSUL,18 AWG
3	110394	EA	FERRULE,INSULATED,20AWG
A/N	116961	EA	DEVCON 5 MINUTE EPOXY
1	048K769	EA	LABEL, "HOT"
1	116305	EA	RING, FILTER RETAINING
2	N00752	EA	NUT, 1/4-20 HEX JAM
1	114676	EA	DATA LBL ADS1
15	N08236	FT	CABLE, 18GA, 3C, 5V
2	114177	EA	NUT,HEX,M6X1,SST
2	114176	EA	WSHR,LOCK,SPLIT,M6,SST
2	10B047	EA	SCR,HHC,M6X1X20,SST
1	114871	EA	ASSY, LEVEL CONTROL 120/240
1	115005	EA	HF WINDOW
1	N01910	EA	NUT, .375-24 HEX JAM
1	114870	EA	3/4 NPT BOX SPACER
1	114869	EA	SLEEVE, SENSOR, TEFLON
1	816069	EA	SENSOR PROBE
1	114168	EA	VORTEX INLET CAP
1	114167	EA	AIR FILTER
1	114166	EA	AIR FILTER SCREEN
1	114165	EA	VORTEX INLET
4	805588	EA	NUT,HEX,M8X1.25,SST
4	805583	EA	WSHR,LOCK,SPLIT,M8,SST
4	114164	EA	SCR,FHC,M8X1.25X25,SST
1	114163	EA	VORTEX FLANGE
6	L00006	EA	INSUL/SPCR.,25 THK
1	115885	EA	HOUSING, DMSR S05/S10

VALUE CHECKED BY: _____ REVISIONS: _____ SCALE: 1:1 TOL: ±.002	FOR MACHINING STANDARDS AND SYMBOLS SEE RTI/ATMATIC SPEC. 00800	RTI/Dynatec MEMPHIS, TN	U/M STATUS SOURCE
USED ON: _____ DATE: _____ DESIGNED: _____	APPROVALS: _____ DATE: _____ CHECKED: _____	ADS1-S05/S10 HOUSING ASSY	REV: _____ CHECKED: _____
PART NAME: ADS1-S05/S10	DRAWING NO.: 114879	SCALE: 1:1 CAD DRAWING	SHEET 2 OF 2

DO NOT SCALE DRAWING

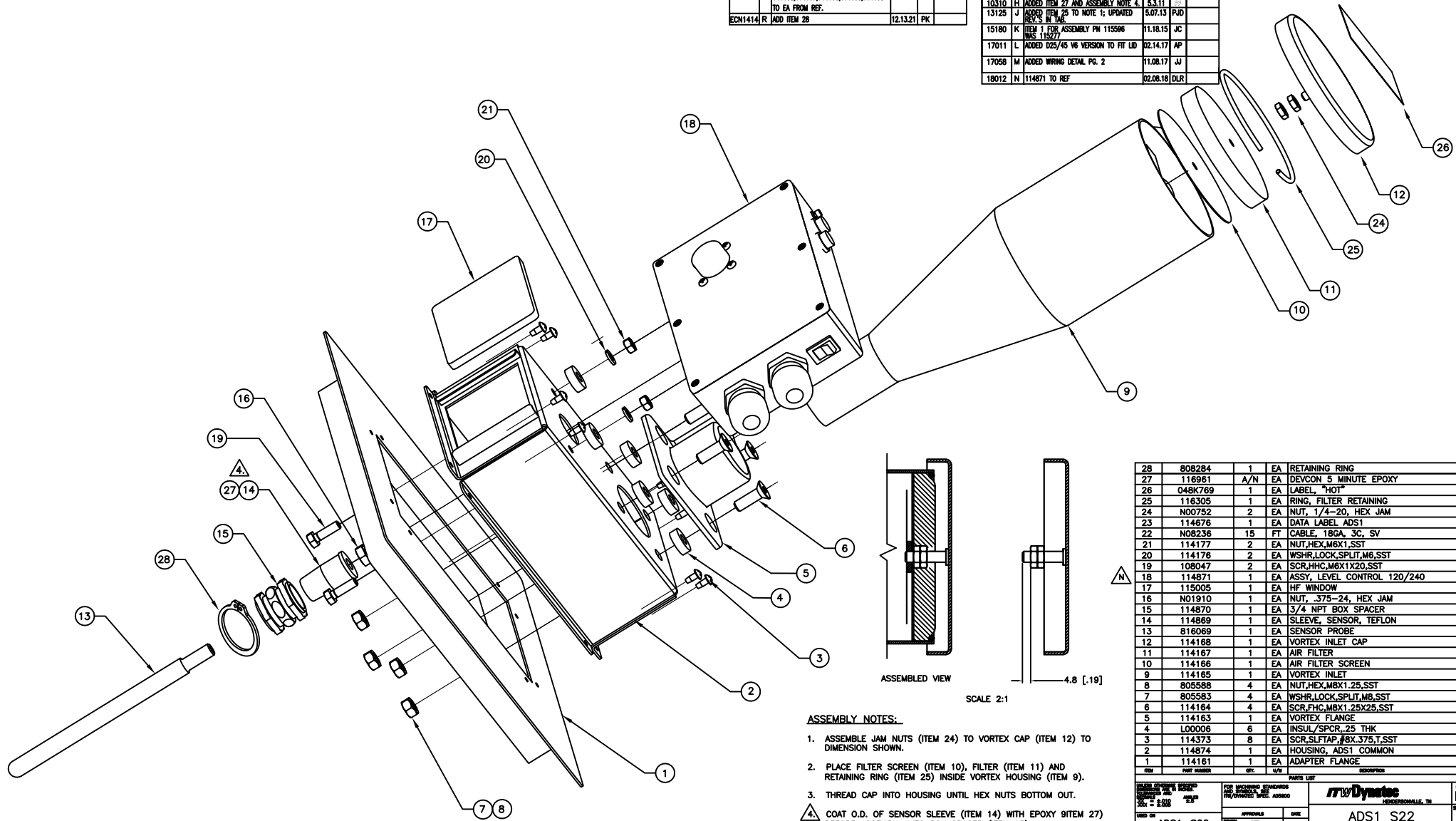
7.4.2 ADS1 Housing Assembly 120V for Dynamelt S22/S45, PN 114875R

THIS DRAWING IS THE PROPERTY OF M/DYNAMICS. DO NOT REPRODUCE OR DISCLOSE TO OTHERS WITHOUT EXPRESS WRITTEN CONSENT OF M/DYNAMICS.

REV.	REV.	DESCRIPTION	DATE	BY	APPROVED
08721	N	TABULATE D25/D45 ASSY			
244	P	REMOVED ASSEMBLY TABULATED LIST REMOVED NOTE 1 CHANGED 116305,114871,114869,8146089 114168,114167,114166,114165,114163 TO EA FROM REF.	03.11.19	AS	
ECN1414	R	ADD ITEM 28	12.13.21	PK	

REV.	REV.	DESCRIPTION	DATE	BY	APPROVED
08721	D	TABULATE D25/D45 ASSY	9.21.09		
10160	E	ADDED ITEMS 25 & 26; REVERSED SECTION VIEW & ADDED ASSEMBLY NOTES.	11.23.10		
10220	F	ITEM 13 WMS 114169	2.4.11		
10285	G	ITEM 19 WMS 114174	4.28.11		
10310	H	ADDED ITEM 27 AND ASSEMBLY NOTE 4.	5.3.11		
13125	J	ADDED ITEM 25 TO NOTE 1; UPDATED REV'S IN LIE	5.07.13	PAJ	
15180	K	ITEM 1 FOR ASSEMBLY PN 115596 WMS 115277	11.18.15	JC	
17011	L	ADDED D25/45 V6 VERSION TO FIT LID	02.14.17	AP	
17058	M	ADDED WIRING DETAIL PG. 2	11.08.17	JJ	
18012	N	114871 TO REF	02.08.18	DLR	

REV.	REV.	DESCRIPTION	DATE	BY	APPROVED
08362	A	INITIAL RELEASE	10.31.08		
09214	B	ITEMS 5 AND 9-14 ARE NOW REF ADDED NOTE 1	8.11.09		
09202	C	REMOVE N03872 RING TERMINAL ITEM 24	8.24.09		
08217		ADD N00752 AND ASSEMBLY VIEW			



ASSEMBLY NOTES:

- ASSEMBLE JAM NUTS (ITEM 24) TO VORTEX CAP (ITEM 12) TO DIMENSION SHOWN.
- PLACE FILTER SCREEN (ITEM 10), FILTER (ITEM 11) AND RETAINING RING (ITEM 25) INSIDE VORTEX HOUSING (ITEM 9).
- THREAD CAP INTO HOUSING UNTIL HEX NUTS BOTTOM OUT.
- COAT O.D. OF SENSOR SLEEVE (ITEM 14) WITH EPOXY 9ITEM 27) BEFORE ASSEMBLY INTO BOX SPACER (ITEM 15).

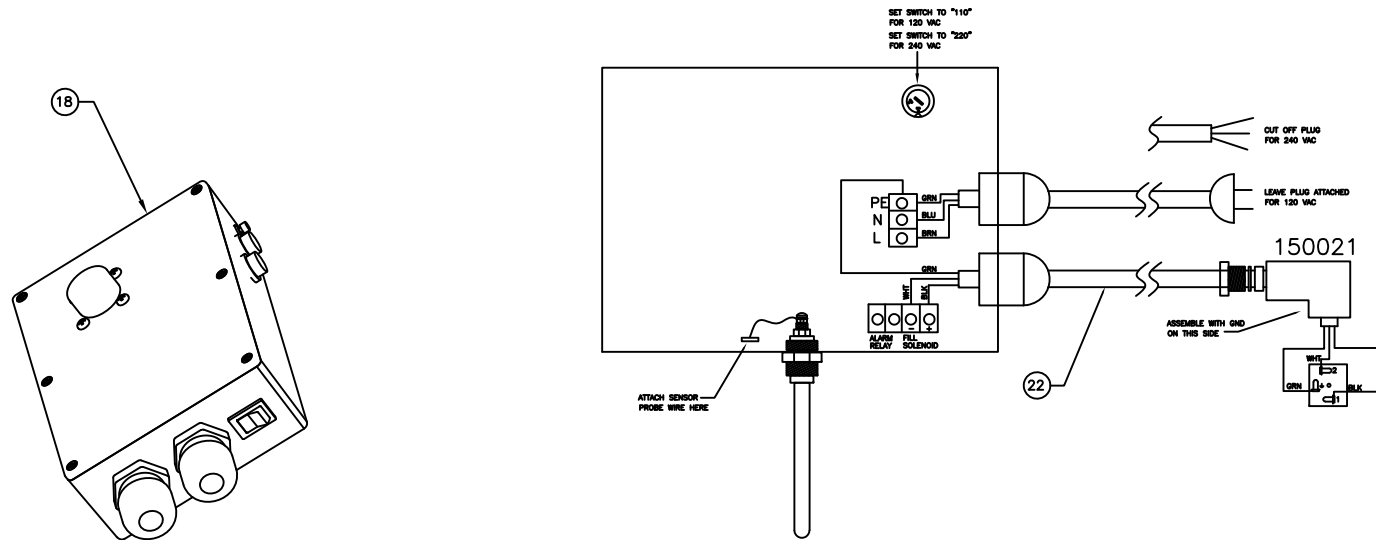
REV.	REV.	DESCRIPTION	DATE	BY	APPROVED
28	808284	1	EA	RETAINING RING	
27	116981	A/N	EA	DEVCON 5 MINUTE EPOXY	
26	048K769	1	EA	LABEL "HOT"	
25	116305	1	EA	RING, FILTER RETAINING	
24	N00752	2	EA	NUT, 1/4-20, HEX JAM	
23	114676	1	EA	DATA LABEL ADS1	
22	N08236	15	FT	CABLE, 18GA, 3C, SV	
21	114177	2	EA	NUT,HEX,M6X1,SST	
20	114176	2	EA	WSHR,LOCK,SPLIT,M6,SST	
19	108047	2	EA	SCR,HHC,M6X1X20,SST	
18	114871	1	EA	ASSY, LEVEL CONTROL 120/240	
17	115005	1	EA	HF WINDOW	
16	N01910	1	EA	NUT, .375-24, HEX JAM	
15	114870	1	EA	3/4 NPT BOX SPACER	
14	114869	1	EA	SLEEVE, SENSOR, TEFLON	
13	816089	1	EA	SENSOR PROBE	
12	114168	1	EA	VORTEX INLET CAP	
11	114167	1	EA	AIR FILTER	
10	114166	1	EA	AIR FILTER SCREEN	
9	114165	1	EA	VORTEX INLET	
8	805588	4	EA	NUT,HEX,M8X1.25,SST	
7	805583	4	EA	WSHR,LOCK,SPLIT,M8,SST	
6	114164	4	EA	SCR,FHC,M8X1.25X29,SST	
5	114163	1	EA	VORTEX FLANGE	
4	L00006	6	EA	INSUL/SPCR,.25 THK	
3	114373	8	EA	SCR,SLF,TAP,#8X.375,T,SST	
2	114874	1	EA	HOUSING, ADS1 COMMON	
1	114161	1	EA	ADAPTER FLANGE	

<p>FOR MACHINING STANDARDS SEE DRAWING FILE: A08000</p> <p>DATE: 10.30.08</p> <p>APPROVALS: [Signature]</p> <p>DESIGNER: [Signature]</p> <p>DATE: 10.30.08</p>	<p>M/DYNAMICS MEMPHIS, TN</p> <p>ADS1-S22 HOUSING ASSY</p> <p>114875</p> <p>CAD DRAWING</p>	<p>1/4 N/A EA</p> <p>1/4 P SOURCE</p> <p>1/4 R GROUP</p> <p>1/4 OF 2</p>
--	--	--

THIS DRAWING IS THE PROPERTY OF HONEYWELL.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF HONEYWELL.

REVISIONS				
REL.	REV.	DESCRIPTION	DATE	BY / APPROVED
		(SEE PAGE 1)		

CIRCUIT BOARD VIEW
(COVER REMOVED)



REV	PART NUMBER	QTY	U/S	DESCRIPTION
27	116961	A/N	EA	DEVCON 5 MINUTE EPOXY
26	048K769	1	EA	LABEL, "HOT"
25	116305	1	EA	RING, FILTER RETAINING
24	N00752	2	EA	NUT, 1/4-20, HEX JAM
23	114676	1	EA	DATA LABEL ADS1
22	N08236	15	FT	CABLE, 18GA, 3C, SV
21	114177	2	EA	NUT,HEX,M6X1,SST
20	114176	2	EA	WSHR,LOCK,SPLIT,M6,SST
19	108047	2	EA	SCR,HHC,M6X1X20,SST
18	114871	1	EA	ASSY, LEVEL CONTROL 120
17	115005	1	EA	HF WINDOW
16	N01910	1	EA	NUT, .375-24, HEX JAM
15	114870	1	EA	3/4 NPT BOX SPACER
14	114869	1	EA	SLEEVE, SENSOR, TEFLON
13	816069	1	EA	SENSOR PROBE
12	114168	1	EA	VORTEX INLET CAP
11	114167	1	EA	AIR FILTER
10	114166	1	EA	AIR FILTER SCREEN
9	114165	1	EA	VORTEX INLET
8	805588	4	EA	NUT,HEX,M6X1.25,SST
7	805583	4	EA	WSHR,LOCK,SPLIT,M6,SST
6	114164	4	EA	SCR,HHC,M6X1.25X20,SST
5	114163	1	EA	VORTEX FLANGE
4	L00006	6	EA	INSUL/SPCR,.25 THK
3	114373	8	EA	SCR,SLFTAP,#BX.375,T,SST
2	114874	1	EA	HOUSING, ADS1 COMMON
1	114161	1	EA	ADAPTER FLANGE

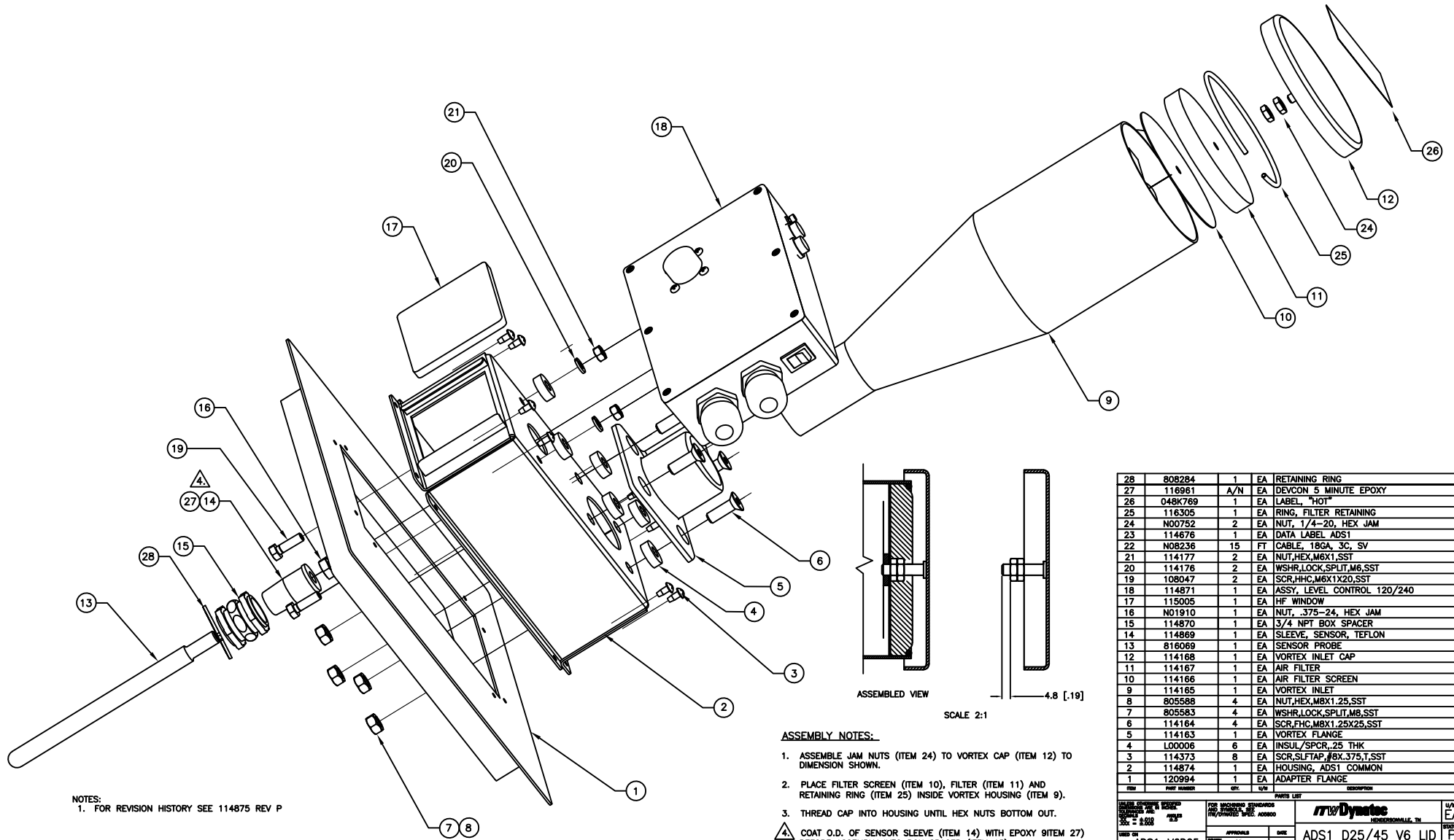


FOR QUOTE REQUEST CONTACT THE SALES DEPARTMENT TEL: 1-800-368-5800	FOR ORDERING STANDARDS HONEYWELL, INC. 10000 W. WALKER AVE. DALLAS, TX 75243	HONEYWELL HONEYWELL, INC. MEMPHIS, TN	U/S EA P SOURCE
USED ON ADS1-S22	APPROVALS DATE 10.30.08	ADS1 S22 HOUSING ASSY	REV. NO. 114875
DO NOT SCALE DRAWING	HENG ASSY, ADS1 S22/S45	CAD DRAWING	SHEET 2 OF 2

7.4.3 ADS1 Housing Assembly 120V for Dynamelt D25/45 V6, PN 120995C

THIS DRAWING IS THE PROPERTY OF M/DYNAMICS. DO NOT REPRODUCE OR DISCLOSE TO OTHERS WITHOUT EXPRESS WRITTEN CONSENT OF M/DYNAMICS.

REV.	REV.	DESCRIPTION	DATE	BY	APPROVED
06362	B	INITIAL RELEASE			
ECN1414	C	ADD ITEM 28			



NOTES:
1. FOR REVISION HISTORY SEE 114875 REV P

ASSEMBLY NOTES:

- ASSEMBLE JAM NUTS (ITEM 24) TO VORTEX CAP (ITEM 12) TO DIMENSION SHOWN.
- PLACE FILTER SCREEN (ITEM 10), FILTER (ITEM 11) AND RETAINING RING (ITEM 25) INSIDE VORTEX HOUSING (ITEM 9).
- THREAD CAP INTO HOUSING UNTIL HEX NUTS BOTTOM OUT.
- COAT O.D. OF SENSOR SLEEVE (ITEM 14) WITH EPOXY 9ITEM 27) BEFORE ASSEMBLY INTO BOX SPACER (ITEM 15).

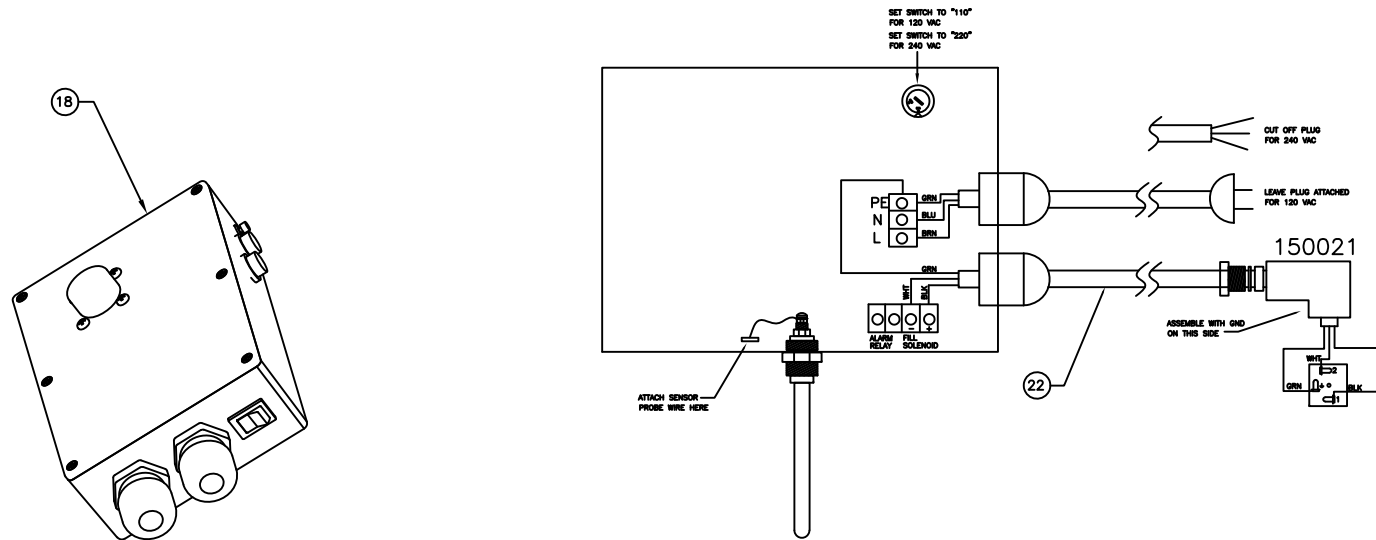
28	808284	1	EA	RETAINING RING
27	116981	A/N	EA	DEVCON 5 MINUTE EPOXY
26	048K769	1	EA	LABEL, "HOT"
25	116305	1	EA	RING, FILTER RETAINING
24	N00752	2	EA	NUT, 1/4-20, HEX JAM
23	114676	1	EA	DATA LABEL ADS1
22	N08236	15	FT	CABLE, 18GA, 3C, SV
21	114177	2	EA	NUT,HEX,M6X1,SST
20	114176	2	EA	WSHR,LOCK,SPLIT,M6,SST
19	108047	2	EA	SCR,HHC,M6X1X20,SST
18	114871	1	EA	ASSY, LEVEL CONTROL 120/240
17	115005	1	EA	HF WINDOW
16	N01910	1	EA	NUT, .375-24, HEX JAM
15	114870	1	EA	3/4 NPT BOX SPACER
14	114869	1	EA	SLEEVE, SENSOR, TEFLON
13	816069	1	EA	SENSOR PROBE
12	114168	1	EA	VORTEX INLET CAP
11	114167	1	EA	AIR FILTER
10	114166	1	EA	AIR FILTER SCREEN
9	114165	1	EA	VORTEX INLET
8	805588	4	EA	NUT,HEX,M6X1,25,SST
7	805583	4	EA	WSHR,LOCK,SPLIT,M6,SST
6	114164	4	EA	SCR,FHC,M6X1,25X20,SST
5	114163	1	EA	VORTEX FLANGE
4	L00006	6	EA	INSUL/SPCR,.25 THK
3	114373	8	EA	SCR,SLFTAP,#BX.375,T,SST
2	114874	1	EA	HOUSING, ADS1 COMMON
1	120994	1	EA	ADAPTER FLANGE

M/DYNAMICS 2800 W. STATE ST. DALLAS, TX 75243	FOR MACHINING STANDARDS REFERENCE TO: ASME Y14.5M-2009	M/Dynamics MEMPHIS/TENNESSEE, TN	U/W EA
USED ON: ADS1-V6D25	APPROVALS: [Signature] DATE: 3/11/19	ADS1 D25/45 V6 LID HOUSING ASSY	P SOURCE
REV. REV.: —	COMPUTER GENERATED DRAWING	DWG. NO.: 120995	REV. GROUP: C
DO NOT SCALE DRAWING	HUNG ASY, ADS1 V6 D25/45	SCALE: 1:1 CAD DRAWING	SHEET 1 OF 2

THIS DRAWING IS THE PROPERTY OF M/DYNAMICS.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF M/DYNAMICS.

REVISIONS				
REV.	NO.	DESCRIPTION	DATE	BY
		(SEE PAGE 1)		

CIRCUIT BOARD VIEW
(COVER REMOVED)



28	808284	1	EA	RETAINING RING
27	116981	A/N	EA	DEVCON 5 MINUTE EPOXY
26	048K769	1	EA	LABEL, "HOT"
25	116305	1	EA	RING, FILTER RETAINING
24	N00752	2	EA	NUT, 1/4-20, HEX JAM
23	114676	1	EA	DATA LABEL ADS1
22	N08236	15	FT	CABLE, 18GA, 3C, SV
21	114177	2	EA	NUT,HEX,M6X1,SST
20	114176	2	EA	WSHR,LOCK,SPLIT,M6,SST
19	108047	2	EA	SCR,HHC,M6X1X20,SST
18	114871	1	EA	ASSY, LEVEL CONTROL 120
17	115005	1	EA	HF WINDOW
16	N01910	1	EA	NUT, .375-24, HEX JAM
15	114870	1	EA	3/4 NPT BOX SPACER
14	114869	1	EA	SLEEVE, SENSOR, TEFLON
13	816069	1	EA	SENSOR PROBE
12	114168	1	EA	VORTEX INLET CAP
11	114167	1	EA	AIR FILTER
10	114166	1	EA	AIR FILTER SCREEN
9	114165	1	EA	VORTEX INLET
8	805588	4	EA	NUT,HEX,M6X1.25,SST
7	805583	4	EA	WSHR,LOCK,SPLIT,M6,SST
6	114164	4	EA	SCR,HHC,M6X1.25X25,SST
5	114163	1	EA	VORTEX FLANGE
4	L00006	6	EA	INSUL/SPCR,.25 THK
3	114373	8	EA	SCR,SLFTAP,#BX.375,T,SST
2	114874	1	EA	HOUSING, ADS1 COMMON
1	114161	1	EA	ADAPTER FLANGE



FOR M/DYNAMICS CUSTOMERS		FOR M/DYNAMICS EMPLOYEES		PARTS LIST		M/DYNAMICS	
DATE	BY	DATE	BY	REV.	DESCRIPTION	REV.	DESCRIPTION
10/30/08	AD51-D25	10/30/08	AD51-D25	1	ADS1 D25/45 V6 LID HOUSING ASSY	1	ADS1 D25/45 V6 LID HOUSING ASSY
DO NOT SCALE DRAWING				HSNG ASSY, ADS1 V6 D25/45		120995	
				SCALE 1:1		CAD DRAWING	

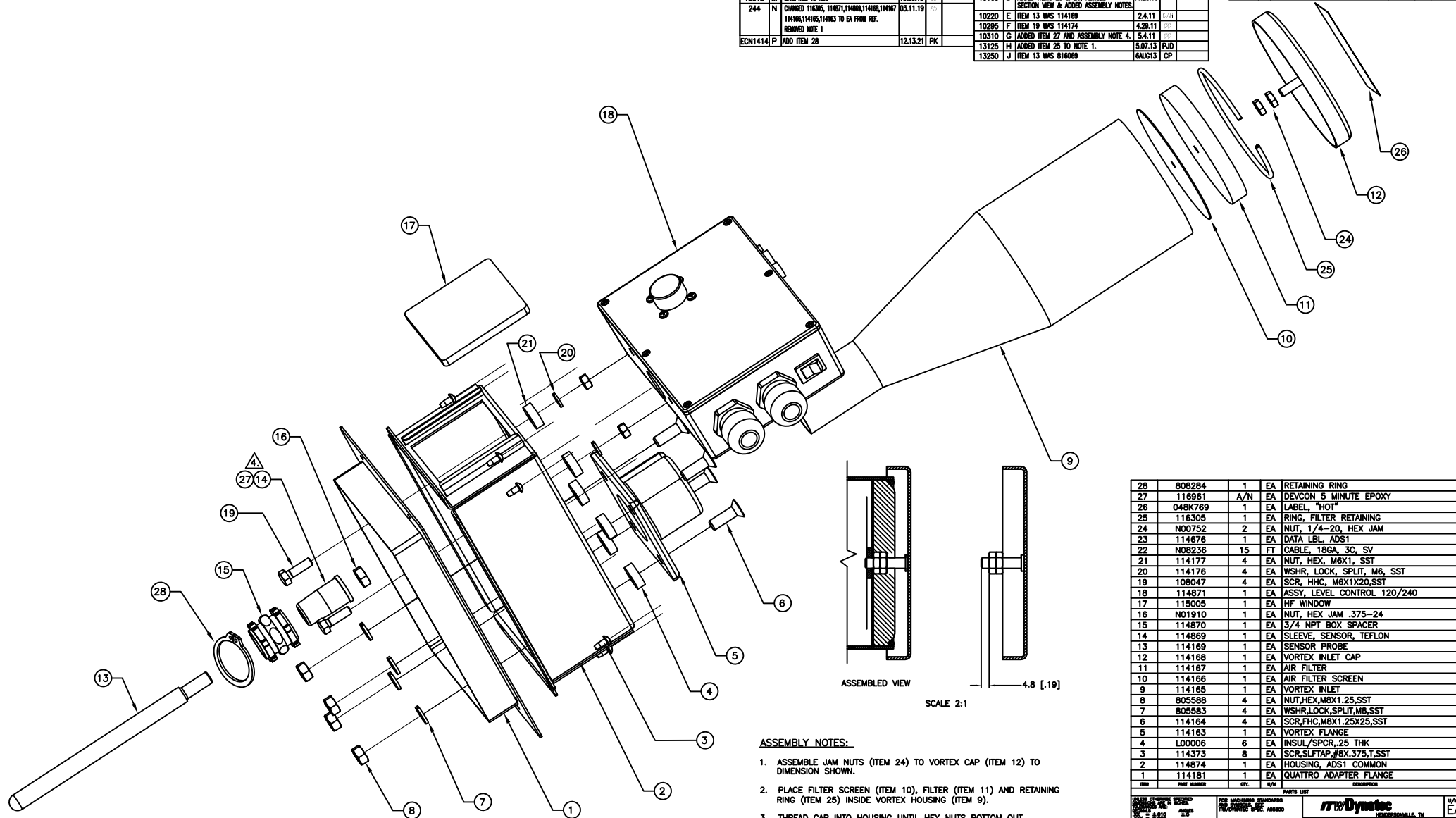
7.4.4 ADS1 Housing Assembly 120V for DynaPack, PN 114876P

THIS DRAWING IS THE PROPERTY OF **RAYSONICS**.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF **RAYSONICS**.

REV. NO. 114876

REVISED					REVISED						
REL.	REV.	DESCRIPTION	DATE	BY	APPROVED	REL.	REV.	DESCRIPTION	DATE	BY	APPROVED
14209	K	CHG'D DESCRIPTION FRM QUATRO TO DYNAPACK	01.21.15	...	...	09202	C	REMOVE N03872 RING TERMINAL ITEM 24	8.24.09	...	...
17056	L	ADDED WIRING DIAG. PG. 2	11.08.17	...	...	09217	C	ADD N00752 AND ASSEMBLY VIEW	...	...	...
18012	M	MAKE ITEM 18 REF.	10.28.18	...	...	10160	D	ADDED ITEMS 25 & 26; REVISED SECTION VIEW 4; ADDED ASSEMBLY NOTES	11.23.10	...	...
244	N	CHANGED T1408, T1407, T1406A, T1410B, T1410C, T1410D, T1410E, T1410F, T1410G TO EA FROM REF. REVISED NOTE 1	03.11.19	...	...	10220	E	ITEM 13 WAS 114169	2.4.11	...	...
ECN1414	P	ADD ITEM 28	12.13.21	PK	...	10295	F	ITEM 19 WAS 114174	4.29.11	...	...
						10310	G	ADDED ITEM 27 AND ASSEMBLY NOTE 4	5.4.11	...	...
						13125	H	ADDED ITEM 25 TO NOTE 1	5.07.13	...	...
						13250	J	ITEM 13 WAS 818069	6AUG13	CP	...

REVISED					
REL.	REV.	DESCRIPTION	DATE	BY	APPROVED
06362	A	INITIAL RELEASE	10.31.08	...	...
09214	B	ITEMS 5 AND 9-14 ARE NOW REF. ADDED NOTE 1	8.11.09	...	...



- ASSEMBLY NOTES:**
- ASSEMBLE JAM NUTS (ITEM 24) TO VORTEX CAP (ITEM 12) TO DIMENSION SHOWN.
 - PLACE FILTER SCREEN (ITEM 10), FILTER (ITEM 11) AND RETAINING RING (ITEM 25) INSIDE VORTEX HOUSING (ITEM 9).
 - THREAD CAP INTO HOUSING UNTIL HEX NUTS BOTTOM OUT.
- 4.** COAT O.D. OF SENSOR SLEEVE (ITEM 14) WITH EPOXY (ITEM 27) BEFORE ASSEMBLY INTO BOX SPACERE (ITEM 15).

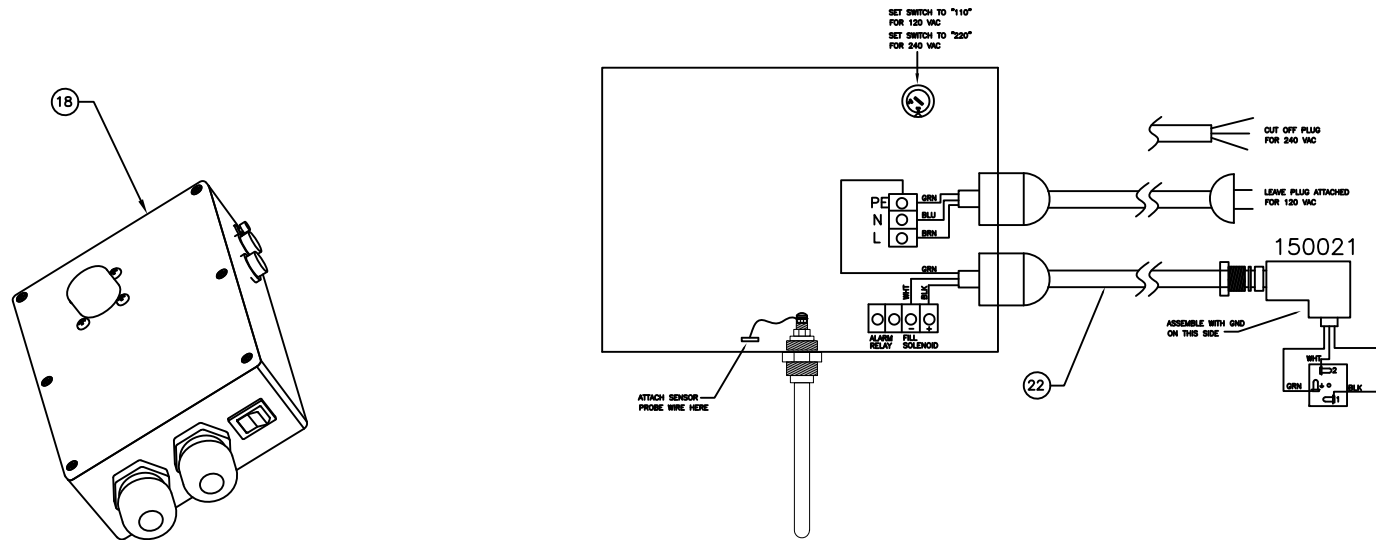
ITEM	QTY	UNIT	DESCRIPTION
28	1	EA	RETAINING RING
27	1	EA	DEVCON 5 MINUTE EPOXY
26	1	EA	LABEL "HOT"
25	1	EA	RING, FILTER RETAINING
24	2	EA	NUT, 1/4-20, HEX JAM
23	1	EA	DATA LBL, ADS1
22	15	FT	CABLE, 18GA, 3C, SV
21	4	EA	NUT, HEX, M6X1, SST
20	4	EA	WSHR, LOCK, SPLIT, M6, SST
19	4	EA	SCR, HHC, M6X1X20,SST
18	1	EA	ASSY, LEVEL CONTROL 120/240
17	1	EA	HF WINDOW
16	1	EA	NUT, HEX JAM .375-24
15	1	EA	3/4 NPT BOX SPACER
14	1	EA	SLEEVE, SENSOR, TEFLON
13	1	EA	SENSOR PROBE
12	1	EA	VORTEX INLET CAP
11	1	EA	AIR FILTER
10	1	EA	AIR FILTER SCREEN
9	1	EA	VORTEX INLET
8	4	EA	NUT, HEX, M8X1.25, SST
7	4	EA	WSHR, LOCK, SPLIT, M8, SST
6	4	EA	SCR, FHC, M8X1.25X25, SST
5	1	EA	VORTEX FLANGE
4	6	EA	INSUL/SPCR, .25 THK
3	8	EA	SCR, SLTAP, #BX.375, T, SST
2	1	EA	HOUSING, ADS1 COMMON
1	1	EA	QUATRO ADAPTER FLANGE

FOR LACROD STENOCHORD REV. 10/30/08 30. = 300	APPROVALS DATE 10.30.08	mwDynatrac HOUSING ASSY ADS1-DYNAPACK	REV. NO. 114876	SHEET 1 OF 2
---	-------------------------------	---	---------------------------	-------------------------------

THIS DRAWING IS THE PROPERTY OF M/DYNAMICS.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF M/DYNAMICS.

REVISIONS				
REV.	NO.	DESCRIPTION	DATE	BY
		(SEE PG. 1)		

CIRCUIT BOARD VIEW
(COVER REMOVED)



REV	PART NUMBER	QTY	U/O	DESCRIPTION
27	116961	A/N	EA	DEVCON 5 MINUTE EPOXY
26	048K769	1	EA	LABEL, "HOT"
25	116305	1	EA	RING, FILTER RETAINING
24	N00752	2	EA	NUT, 1/4-20, HEX JAM
23	114676	1	EA	DATA LBL, ADS1
22	N08236	15	FT	CABLE, 18GA, 3C, SV
21	114177	4	EA	NUT, HEX, M6X1, SST
20	114176	4	EA	WSHR, LOCK, SPLIT, M6, SST
19	108047	4	EA	SCR, HHC, M6X1X20,SST
18	114871	1	EA	ASSY, LEVEL CONTROL 120/240
17	115005	1	EA	HF WINDOW
16	N01910	1	EA	NUT, HEX JAM .375-24
15	114870	1	EA	3/4 NPT BOX SPACER
14	114869	1	EA	SLEEVE, SENSOR, TEFLON
13	114189	1	EA	SENSOR PROBE
12	114188	1	EA	VORTEX INLET CAP
11	114187	1	EA	AIR FILTER
10	114186	1	EA	AIR FILTER SCREEN
9	114185	1	EA	VORTEX INLET
8	805588	4	EA	NUT,HEX,M6X1.25,SST
7	805583	4	EA	WSHR,LOCK,SPLIT,M6,SST
6	114184	4	EA	SCR,FHC,M6X1.25X25,SST
5	114183	1	EA	VORTEX FLANGE
4	L00006	6	EA	INSUL/SPCR,.25 THK
3	114373	8	EA	SCR,SLFTAP,#BX.375,T,SST
2	114874	1	EA	HOUSING, ADS1 COMMON
1	114181	1	EA	QUATTRO ADAPTER FLANGE

DESIGN APPROVAL DRAWN BY: TEP DATE: 8-2003	FOR MANUFACTURING REV. SYMBOL: W REV. DESCRIPTION: 008000	M/Dynamics MEMPHIS, TN	U/W EA
USED ON: ADS1 DYNAPACK	APPROVALS: DATE: 10.30.08	ADS1-DYNAPACK HOUSING ASSY	P SOURCE
REV. NO.: -	COMPUTER DESCRIPTION: HSNG ASSY, ADS1 DYNAPACK	REV. NO.: 114876	B GROUP
DO NOT SCALE DRAWING	HUNG ASSY, ADS1 DYNAPACK	SCALE: 1:1 CAD DRAWING	SHEET 2 OF 2

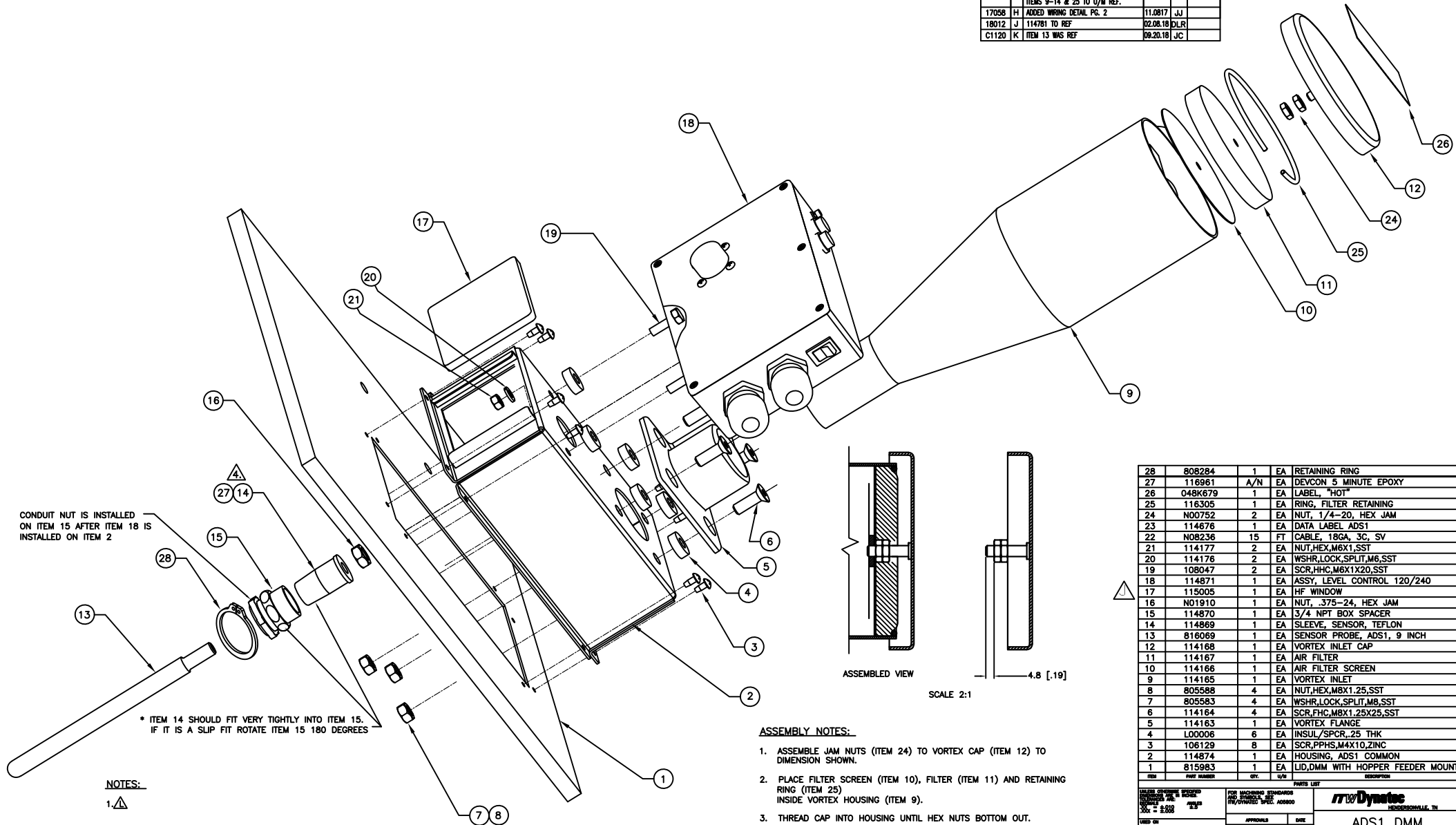
7.4.5 ADS1 Housing Assembly 120V for Dynamelt M-series, PN 815985M

THIS DRAWING IS THE PROPERTY OF ITW/DYNALOC.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF ITW/DYNALOC.

REL.	REV.	DESCRIPTION	DATE	BY	APPROVED
244	L	CHANGED ITEMS 5,9,10,11,12,14,18 & 25 TO EA FROM REF REMOVE NOTE 1	03.11.19	AS	
ECN1414	M	ADD ITEM 28	12.13.21	PK	

REL.	REV.	DESCRIPTION	DATE	BY	APPROVED
10160	D	ADDED ITEMS 25 & 26; REVISED SECTION VIEW & ADDED ASSEMBLY NOTES	11.24.10	BB	
10295	E	ITEM 19 WAS 114174	4.29.11	BB	
10310	F	ADDED ITEM 27 AND ASSEMBLY NOTE 4.	5.4.11	BB	
13125	G	ADDED ITEM 25 TO NOTE 1; REVISED ITEMS 9-14 & 25 TO U/M REF.	5.08.13	PJD	
17058	H	ADDED WIRING DETAIL PG. 2	11.0817	JJ	
18012	J	114781 TO REF	02.08.18	DLR	
C1120	K	ITEM 13 WAS REF	09.20.18	JC	

REL.	REV.	DESCRIPTION	DATE	BY	APPROVED
277283	A	ORIGINAL RELEASE	11.23.09	LF	
CCR	B	ITEM 3 WAS 114373.	12.10.09	LF	
CCR	C	REVISED ITEMS 9-14 TO U/M EA.	12.10.09	LF	



CONDUIT NUT IS INSTALLED ON ITEM 15 AFTER ITEM 18 IS INSTALLED ON ITEM 2

* ITEM 14 SHOULD FIT VERY TIGHTLY INTO ITEM 15. IF IT IS A SLIP FIT ROTATE ITEM 15 180 DEGREES

NOTES:

1.

2. LID (ITEM 1) IS ONLY AVAILABLE AS AN ASSEMBLY, P/N 815982

ASSEMBLED VIEW

SCALE 2:1

ASSEMBLY NOTES:

- ASSEMBLE JAM NUTS (ITEM 24) TO VORTEX CAP (ITEM 12) TO DIMENSION SHOWN.
- PLACE FILTER SCREEN (ITEM 10), FILTER (ITEM 11) AND RETAINING RING (ITEM 25) INSIDE VORTEX HOUSING (ITEM 9).
- THREAD CAP INTO HOUSING UNTIL HEX NUTS BOTTOM OUT.

COAT O.D. OF SENSOR SLEEVE (ITEM 14) WITH EPOXY (ITEM 27) BEFORE ASSEMBLY INTO BOX SPACER (ITEM 15).

ITEM	PART NUMBER	QTY.	U/M	DESCRIPTION
28	808284	1	EA	RETAINING RING
27	116961	A/N	EA	DEVCON 5 MINUTE EPOXY
26	048K679	1	EA	LABEL, "HOT"
25	116305	1	EA	RING, FILTER RETAINING
24	N00752	2	EA	NUT, 1/4-20, HEX JAM
23	114676	1	EA	DATA LABEL ADS1
22	N08236	15	FT	CABLE, 18GA, 3C, SV
21	114177	2	EA	NUT, HEX, M6X1, SST
20	114176	2	EA	WSHR, LOCK, SPLIT, M6, SST
19	108047	2	EA	SCR, HHC, M6X1 X20, SST
18	114871	1	EA	ASSY, LEVEL CONTROL 120/240
17	115005	1	EA	HF WINDOW
16	N01910	1	EA	NUT, .375-24, HEX JAM
15	114870	1	EA	3/4 NPT BOX SPACER
14	114869	1	EA	SLEEVE, SENSOR, TEFLON
13	816069	1	EA	SENSOR PROBE, ADS1, 9 INCH
12	114168	1	EA	VORTEX INLET CAP
11	114167	1	EA	AIR FILTER
10	114166	1	EA	AIR FILTER SCREEN
9	114165	1	EA	VORTEX INLET
8	805588	4	EA	NUT, HEX, M8X1.25, SST
7	805583	4	EA	WSHR, LOCK, SPLIT, M8, SST
6	114164	4	EA	SCR, FHC, M8X1.25X25, SST
5	114163	1	EA	VORTEX FLANGE
4	L00006	6	EA	INSUL/SPCR, 25 THK
3	106129	8	EA	SCR, PPHS, M4X10, ZINC
2	114874	1	EA	HOUSING, ADS1 COMMON
1	815983	1	EA	LID, DMM WITH HOPPER FEEDER MOUNTING

DATE	BY	APPROVALS	DATE	STATUS
277283	LWF	11.23.09		P
ADS1-DMM	LWF	11.23.09		C

FOR MACHINING STANDARDS AND SYMBOLS SEE ITW/STANDARD SPEC 408000

ITW Dynaloc HOUSTON, TX

ADS1 DMM HOUSING ASSY

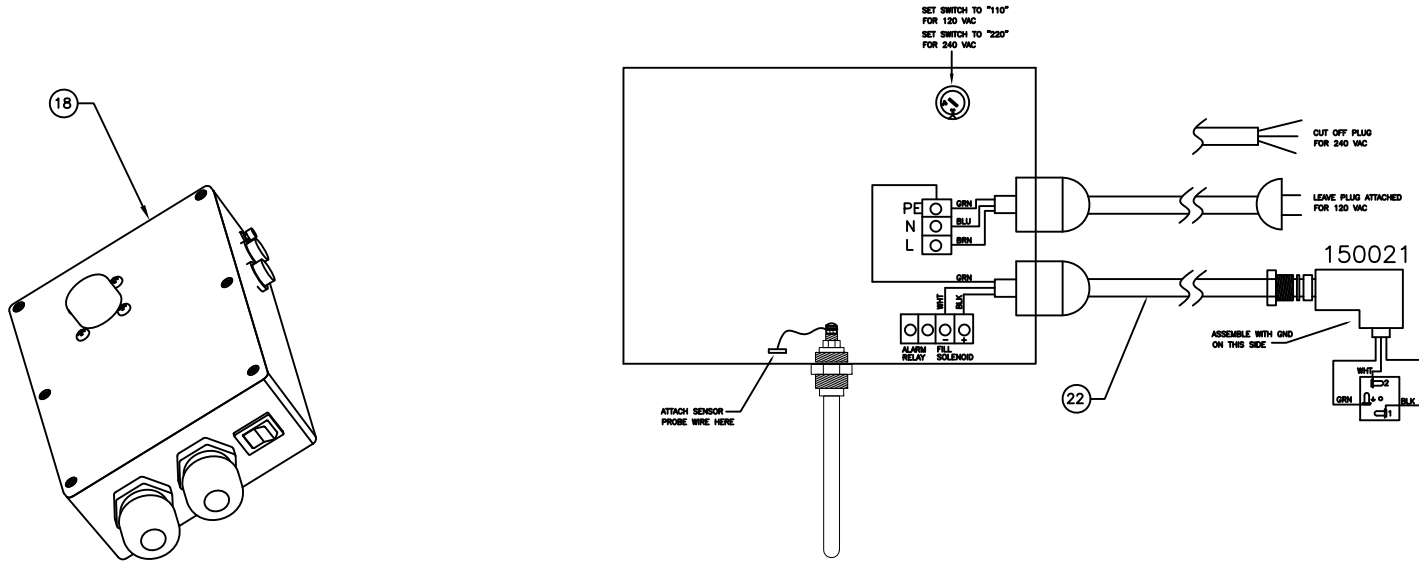
815985

DO NOT SCALE DRAWING H5NC ASY/ADS1.DIM SCALE 1:1 CAD DRAWING SHEET 1 OF 2

THIS DRAWING IS THE PROPERTY OF HNSG/AMC.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF HNSG/AMC.

REL.	REV.	DESCRIPTION	DATE	BY	APPROVED
		(SEE PAGE 1)			

CIRCUIT BOARD VIEW
(COVER REMOVED)



REV	PART NUMBER	QTY.	U/M	DESCRIPTION
27	116961	A/N	EA	DEVCON 5 MINUTE EPOXY
26	048K679	1	EA	LABEL, "HOT"
25	116305	1	EA	RING, FILTER RETAINING
24	N00752	2	EA	NUT, 1/4-20, HEX JAM
23	114676	1	EA	DATA LABEL ADS1
22	N08236	15	FT	CABLE, 18GA, 3C, 5V
21	114177	2	EA	NUT, HEX, M6X1, SST
20	114176	2	EA	WSHR, LOCK, SPLIT, M6, SST
19	10B047	2	EA	SCR, HHC, M6X1X20, SST
18	114871	1	EA	ASSY, LEVEL CONTROL 120/240
17	115005	1	EA	HF WINDOW
16	N01910	1	EA	NUT, .375-24, HEX JAM
15	114870	1	EA	3/4 NPT BOX SPACER
14	114869	1	EA	SLEEVE, SENSOR, TEFLON
13	816069	1	EA	SENSOR PROBE, ADS1, 9 INCH
12	114168	1	EA	VORTEX INLET CAP
11	114167	1	EA	AIR FILTER
10	114166	1	EA	AIR FILTER SCREEN
9	114165	1	EA	VORTEX INLET
8	805588	4	EA	NUT, HEX, M8X1.25, SST
7	805583	4	EA	WSHR, LOCK, SPLIT, M8, SST
6	114164	4	EA	SCR, FHC, M8X1.25X25, SST
5	114163	1	EA	VORTEX FLANGE
4	L00006	6	EA	INSUL/SPCR, .25 THK
3	106129	8	EA	SCR, PPHS, M4X10, ZINC
2	114874	1	EA	HOUSING, ADS1 COMMON
1	815983	1	EA	LID, DMM WITH HOPPER FEEDER MOUNTING



DATE	APPROVALS	DATE	DESCRIPTION
277283	LWF	11.23.09	DESIGNED
ADS1-DMM	LWF	11.23.09	DESIGNED

DO NOT SCALE DRAWING

HNSG ASY/ADS1.DMM

SCALE: 1:1 CAD DRAWING

SHEET 2 OF 2

Dynatec
HENSCHMALLE, TN

ADS1 DMM
HOUSING ASSY

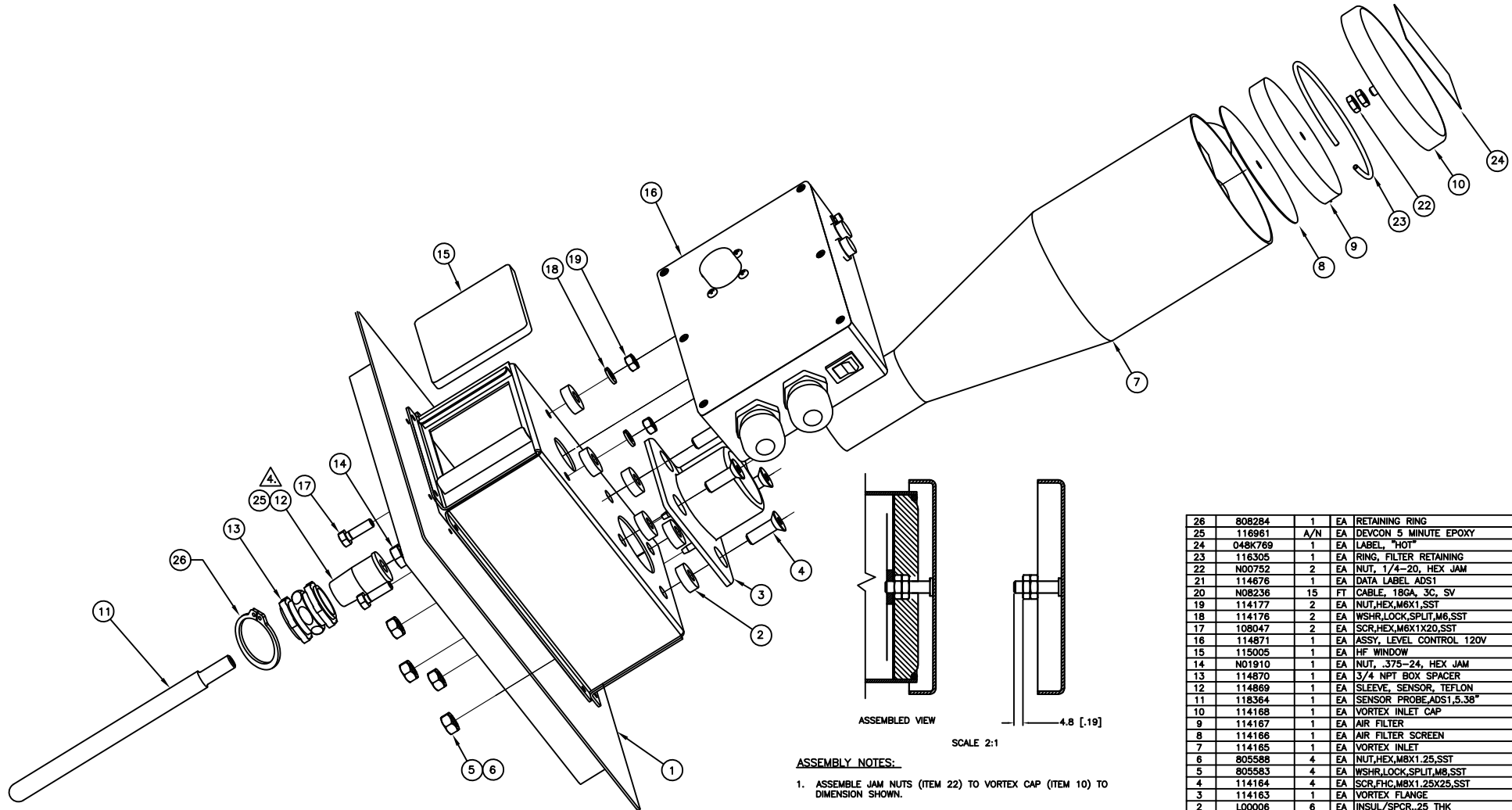
Part No. 815985

Rev. C

7.4.6 ADS1 Housing Assembly 120V for NDSN PB7/10, PN 115454M

THIS DRAWING IS THE PROPERTY OF MIL/AF/OSD.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF MIL/AF/OSD.

REV.	NO.	DESCRIPTION	DATE	BY	APPROVED
09073	K	INITIAL RELEASE	2.25.09		
649	L	REVISE COMPUTER DESCRIPTION	10.22.10		
ECN1414	M	ADD ITEM 26	12.13.21	PK	



- ASSEMBLY NOTES:**
- ASSEMBLE JAM NUTS (ITEM 22) TO VORTEX CAP (ITEM 10) TO DIMENSION SHOWN.
 - PLACE FILTER SCREEN (ITEM 8), FILTER (ITEM 9) AND RETAINING RING (ITEM 25) INSIDE VORTEX HOUSING (ITEM 7).
 - THREAD CAP INTO HOUSING UNTIL HEX NUTS BOTTOM OUT.
- 4.** COAT O.D. OF SENSOR SLEEVE (ITEM 12) WITH EPOXY (ITEM 13) BEFORE ASSEMBLY INTO BOX SPACER (ITEM 13).

ITEM	QTY	UNIT	DESCRIPTION
26	1	EA	RETAINING RING
25	1	EA	DEVCON 5 MINUTE EPOXY
24	1	EA	LABEL, "HOT"
23	1	EA	RING, FILTER RETAINING
22	2	EA	NUT, 1/4-20, HEX JAM
21	1	EA	DATA LABEL ADS1
20	15	FT	CABLE, 18GA, 3C, SV
19	2	EA	NUT,HEX,M6X1,SST
18	2	EA	WSHR,LOCK,SPLIT,M6,SST
17	2	EA	SCR,HEX,M6X1X20,SST
16	1	EA	ASSY, LEVEL CONTROL 120V
15	1	EA	HF WINDOW
14	1	EA	NUT, .375-24, HEX JAM
13	1	EA	3/4 NPT BOX SPACER
12	1	EA	SLEEVE, SENSOR, TEFLON
11	1	EA	SENSOR PROBE,ADS1,5.38"
10	1	EA	VORTEX INLET CAP
9	1	EA	AIR FILTER
8	1	EA	AIR FILTER SCREEN
7	1	EA	VORTEX INLET
6	4	EA	NUT,HEX,M6X1,25,SST
5	4	EA	WSHR,LOCK,SPLIT,M6,SST
4	4	EA	SCR,FHC,M6X1,25X25,SST
3	1	EA	VORTEX FLANGE
2	6	EA	INSUL/SPCR,.25 THK
1	1	EA	LID,NDSN PB7/10,ADS1

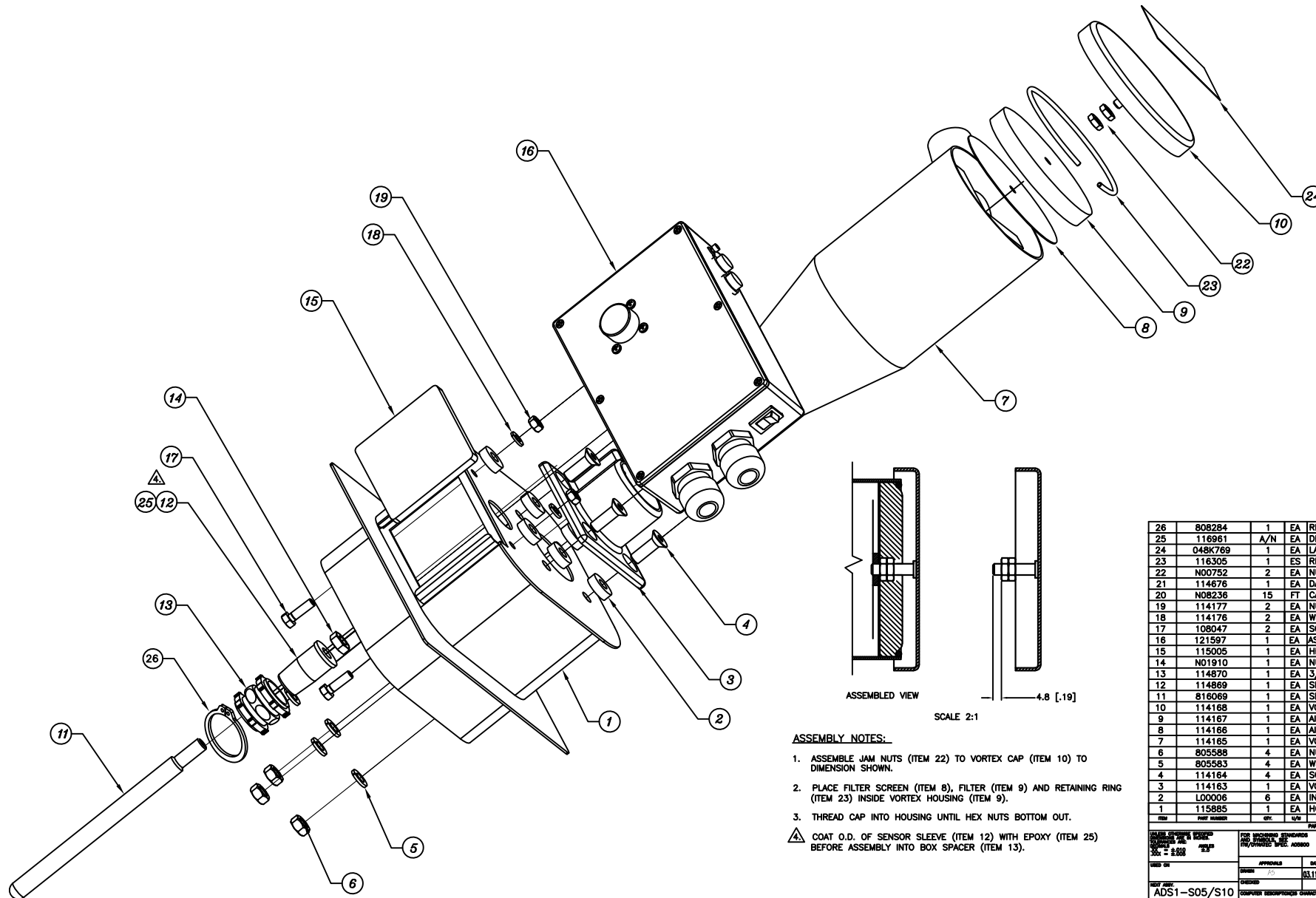
<p>FOR WORKING STANDARDS REV. 2.25.09 SCALE: 2:1</p>	<p>DATE: 2.25.09</p>	<p>MWDynatrac MEMPHIS, TN</p>	<p>U/W EA</p>
<p>APPROVALS: [Signature]</p>	<p>DATE: 2.25.09</p>	<p>ADS1 NDSN HOUSING ASSY</p>	<p>STUDY P SOURCE</p>
<p>REV. NO.: AD1-NDSN PB7/10</p>	<p>COMPUTER DESCRIPTION: NDSN PB7/10</p>	<p>REV. NO.: 115454</p>	<p>REV. GROUP: M</p>
<p>DO NOT SCALE DRAWING</p>	<p>SCALE: 2:1</p>	<p>CAD DRAWING</p>	<p>SHEET 1 OF 1</p>

7.5 ADS1 240V Housing Assemblies

7.5.1 ADS1 Housing Assembly 240V for Dynamelt S05/S10, PN 826296B

THIS DRAWING IS THE PROPERTY OF MIL/AVSWP.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF MIL/AVSWP.

REV.		DESCRIPTION	DATE	BY	APPROVED
244	A	INITIAL RELEASE	03.11.19		
ECN1414	B	ADD ITEM 26	12.13.21	PK	



ASSEMBLY NOTES:

- ASSEMBLE JAM NUTS (ITEM 22) TO VORTEX CAP (ITEM 10) TO DIMENSION SHOWN.
 - PLACE FILTER SCREEN (ITEM 8), FILTER (ITEM 9) AND RETAINING RING (ITEM 23) INSIDE VORTEX HOUSING (ITEM 9).
 - THREAD CAP INTO HOUSING UNTIL HEX NUTS BOTTOM OUT.
- ⚠️ COAT O.D. OF SENSOR SLEEVE (ITEM 12) WITH EPOXY (ITEM 25) BEFORE ASSEMBLY INTO BOX SPACER (ITEM 13).

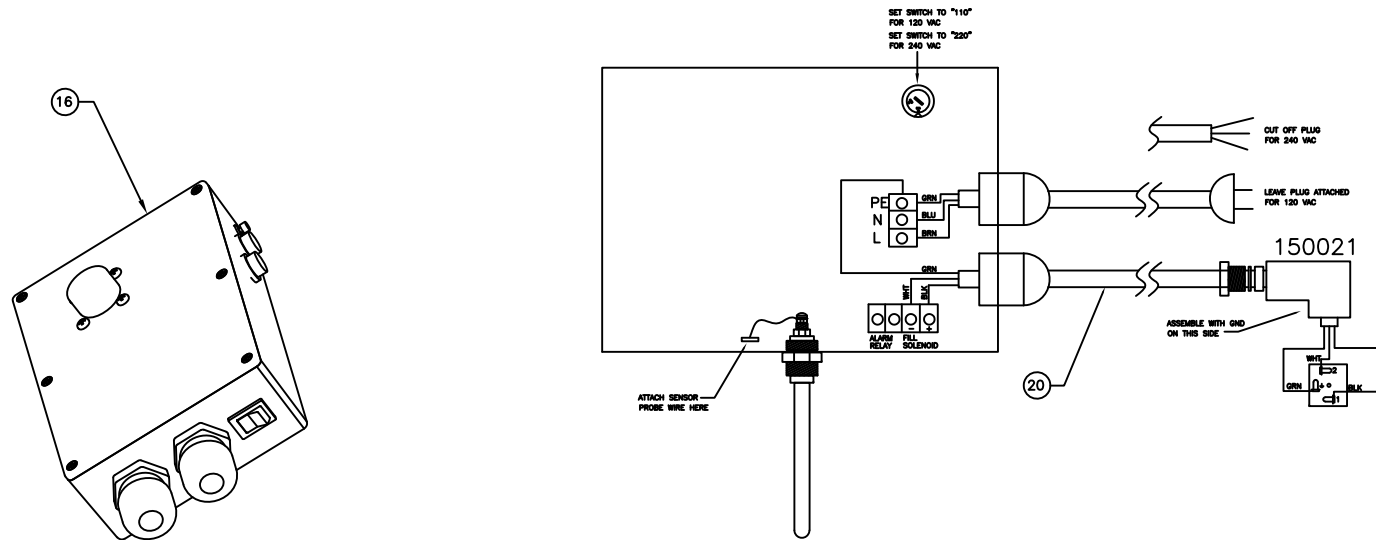
ITEM	QTY	UNIT	DESCRIPTION
26	1	EA	RETAINING RING
25	1	EA	DEVCON 5 MINUTE EPOXY
24	1	EA	LABEL, "HOT"
23	1	EA	RING, FILTER RETAINING
22	2	EA	NUT, 1/4-20 HEX JAM
21	1	EA	DATA LBL ADS1
20	15	FT	CABLE, 18GA, 3C, SV
19	2	EA	NUT, HEX, M6X1, SST
18	2	EA	WSHR, LOCK, SPLIT, M6, SST
17	2	EA	SCR, HHC, M6X1X20, SST
16	1	EA	ASSY, LEVEL CONTROL 240V
15	1	EA	HF WINDOW
14	1	EA	NUT, .375-24 HEX JAM
13	1	EA	3/4 NPT BOX SPACER
12	1	EA	SLEEVE, SENSOR, TEFLON
11	1	EA	SENSOR PROBE
10	1	EA	VORTEX INLET CAP
9	1	EA	AIR FILTER
8	1	EA	AIR FILTER SCREEN
7	1	EA	VORTEX INLET
6	4	EA	NUT, HEX, M8X1.25, SST
5	4	EA	WSHR, LOCK, SPLIT, M8, SST
4	4	EA	SCR, FHC, M8X1.25X25, SST
3	1	EA	VORTEX FLANGE
2	6	EA	INSUL/SPCR, .25 THK
1	1	EA	HOUSING, DMSR S05/S10

FOR WORKING DIMENSIONS SEE DRAWING AND SPECIFICATIONS UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED UNLESS OTHERWISE SPECIFIED UNLESS OTHERWISE SPECIFIED	DATE: 03.11.19 APPROVALS: [Signature] DESIGNED: [Signature]		U/W EA P SOURCE
USED ON: ADS1-S05/S10	DATE: 03.11.19	MIL/AVSWP HENGEBOURNE, TN	ADS1-S05/S10 240V HOUSING ASSY
DO NOT SCALE DRAWING	HENG ASSY, ADS1 S05/S10	826296	REV. GROUP B

THIS DRAWING IS THE PROPERTY OF M/DYNAMICS.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF M/DYNAMICS.

REV.	REV.	DESCRIPTION	DATE	BY	APPROVED
		(SEE PG. 1)			

CIRCUIT BOARD VIEW
(COVER REMOVED)



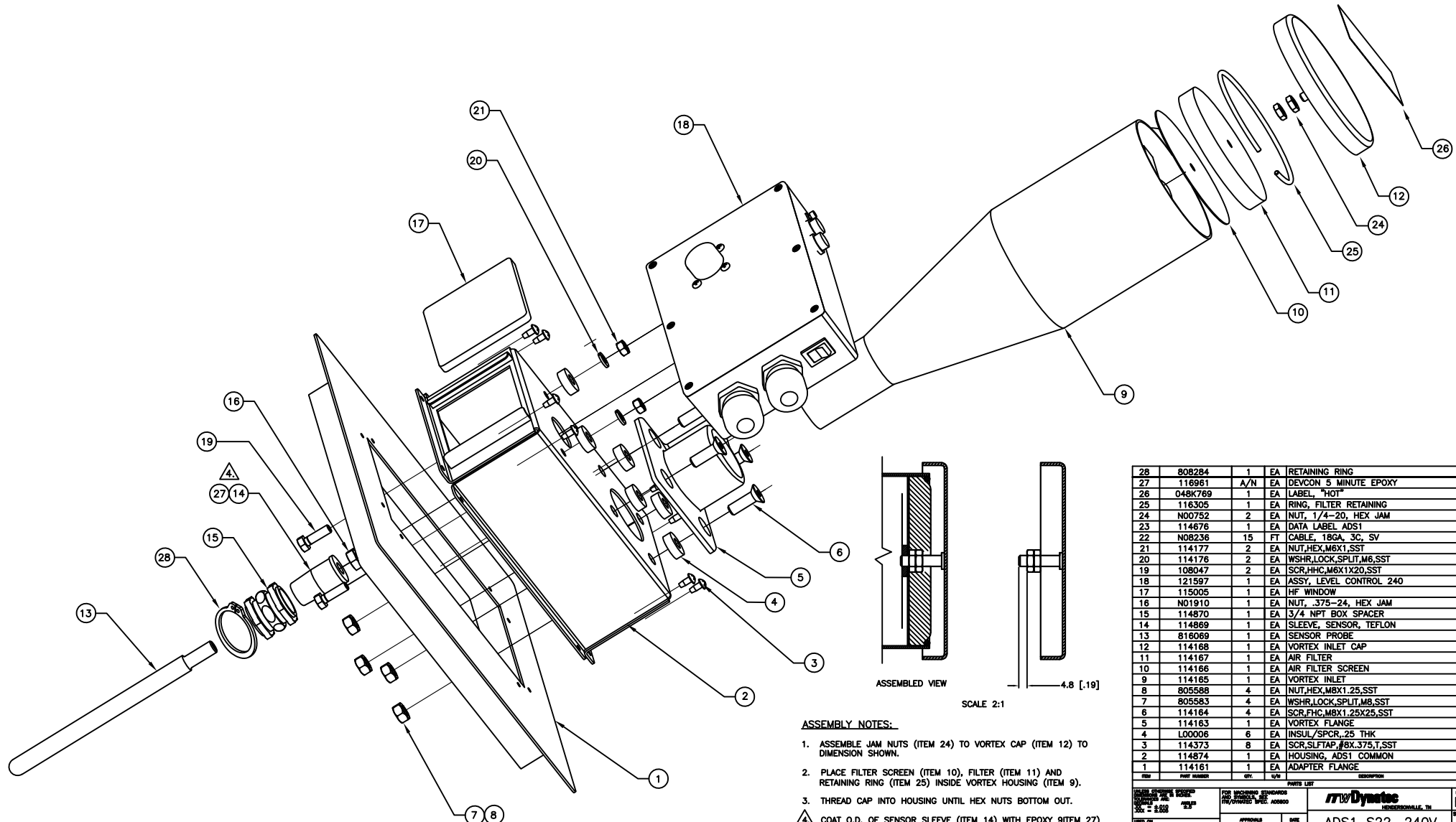
REV	REV NUMBER	QTY	U/O	DESCRIPTION
25	116961	A/N	EA	DEVCON 5 MINUTE EPOXY
24	048K769	1	EA	LABEL, "HOT"
23	116305	1	EA	RING, FILTER RETAINING
22	N00752	2	EA	NUT, 1/4-20 HEX JAM
21	114676	1	EA	DATA LBL ADS1
20	N08236	15	FT	CABLE, 18GA, 3C, SV
19	114177	2	EA	NUT,HEX,M6X1,SST
18	114176	2	EA	WSHR,LOCK,SPLIT,M6,SST
17	108047	2	EA	SCR,HHC,M6X1X20,SST
16	121597	1	EA	ASSY, LEVEL CONTROL 120/240
15	115005	1	EA	HF WINDOW
14	N01910	1	EA	NUT, .375-24 HEX JAM
13	114870	1	EA	3/4 NPT BOX SPACER
12	114869	1	EA	SLEEVE, SENSOR, TEFLON
11	816069	1	EA	SENSOR PROBE
10	114168	1	EA	VORTEX INLET CAP
9	114167	1	EA	AIR FILTER
8	114166	1	EA	AIR FILTER SCREEN
7	114165	1	EA	VORTEX INLET
6	805588	4	EA	NUT,HEX,M6X1.25,SST
5	805583	4	EA	WSHR,LOCK,SPLIT,M8,SST
4	114164	4	EA	SCR,FHC,M6X1.25X25,SST
3	114163	1	EA	VORTEX FLANGE
2	L00006	6	EA	INSUL/SPCR,.25 THK
1	115885	1	EA	HOUSING, DMSR S05/S10

FOR M/DYNAMICS 115885 ADS1 S05/S10 03.11.18	FOR M/DYNAMICS 115885 ADS1 S05/S10 03.11.18	M/Dynamics MEMPHIS, TN	U/N EA P SOURCE
USED ON ADS1-S05/S10	APPROVALS DATE 03.11.18	ADS1-S05/S10 240V HOUSING ASSY	REV. NO. 826296 SCALE 1:1 CAD DRAWING SHEET 2 OF 2

7.5.2 ADS1 Housing Assembly 240V for Dynamelt S22/S45, PN 826294B

THIS DRAWING IS THE PROPERTY OF HENGSTLER. DO NOT REPRODUCE OR DISCLOSE TO OTHERS WITHOUT EXPRESS WRITTEN CONSENT OF HENGSTLER.

REV.	NO.	DESCRIPTION	DATE	BY	APPROVED
06362	A	INITIAL RELEASE	03.11.19		
ECN1414	B	ADD ITEM 28	12.13.21	PK	



ASSEMBLY NOTES:

- ASSEMBLE JAM NUTS (ITEM 24) TO VORTEX CAP (ITEM 12) TO DIMENSION SHOWN.
- PLACE FILTER SCREEN (ITEM 10), FILTER (ITEM 11) AND RETAINING RING (ITEM 25) INSIDE VORTEX HOUSING (ITEM 9).
- THREAD CAP INTO HOUSING UNTIL HEX NUTS BOTTOM OUT.
- COAT O.D. OF SENSOR SLEEVE (ITEM 14) WITH EPOXY 9ITEM 27) BEFORE ASSEMBLY INTO BOX SPACER (ITEM 15).

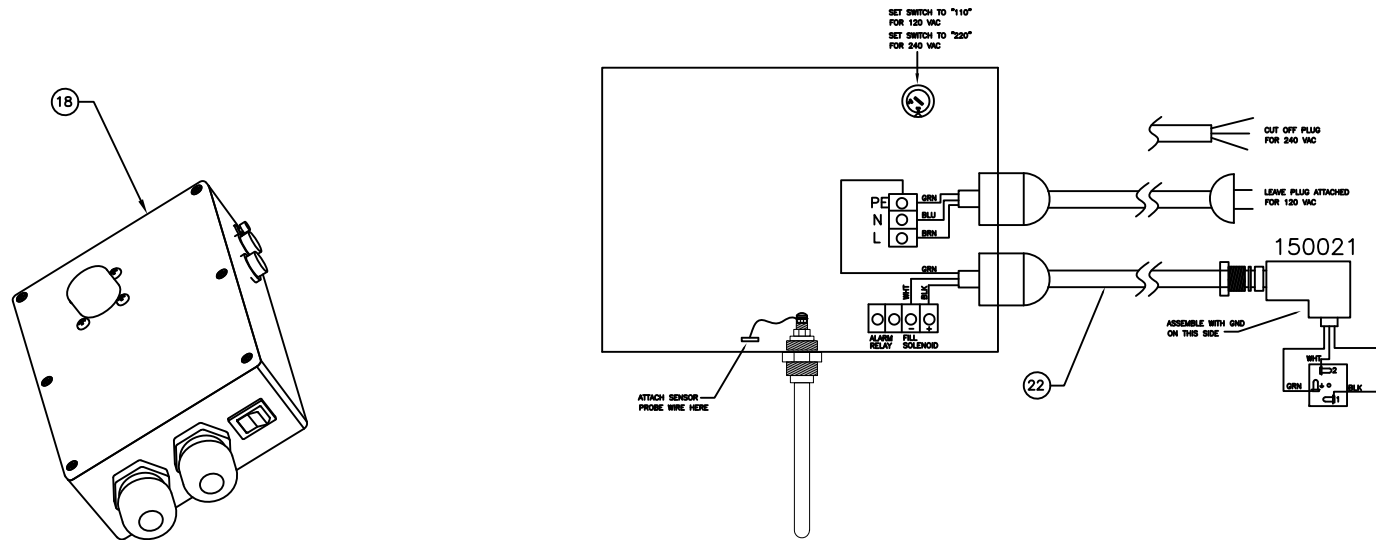
ITEM	QTY	UNIT	DESCRIPTION
28	1	EA	RETAINING RING
27	1	EA	DEVCON 5 MINUTE EPOXY
26	1	EA	LABEL, "HOT"
25	1	EA	RING, FILTER RETAINING
24	2	EA	NUT, 1/4-20, HEX JAM
23	1	EA	DATA LABEL ADS1
22	15	FT	CABLE, 18GA, 3C, SV
21	2	EA	NUT, HEX, M6X1, SST
20	2	EA	WSHR, LOCK, SPLIT, M6, SST
19	2	EA	SCR, HHC, M6X1X20, SST
18	1	EA	ASSY, LEVEL CONTROL 240
17	1	EA	HF WINDOW
16	1	EA	NUT, .375-24, HEX JAM
15	1	EA	3/4 NPT BOX SPACER
14	1	EA	SLEEVE, SENSOR, TEFLON
13	1	EA	SENSOR PROBE
12	1	EA	VORTEX INLET CAP
11	1	EA	AIR FILTER
10	1	EA	AIR FILTER SCREEN
9	1	EA	VORTEX INLET
8	4	EA	NUT, HEX, M6X1.25, SST
7	4	EA	WSHR, LOCK, SPLIT, M6, SST
6	4	EA	SCR, FHC, M6X1.25X20, SST
5	1	EA	VORTEX FLANGE
4	6	EA	INSUL/SPCR, .25 THK
3	8	EA	SCR, SLTAP, #BX.375, T, SST
2	1	EA	HOUSING, ADS1 COMMON
1	1	EA	ADAPTER FLANGE

<p>FOR MACHINING STANDARDS HENGSTLER, INC. 408000</p> <p>DATE: 03.11.19</p> <p>SCALE: 1:1</p>	<p>APPROVALS</p> <p>DATE: 03.11.19</p>	<p>mwDynelec MEMPHIS, TN</p> <p>ADS1 S22, 240V HOUSING ASSY</p> <p>826294</p> <p>SCALE 1:1 CAD DRAWING</p>	<p>U/N EA</p> <p>STYLUS P</p> <p>GROUP B</p> <p>1 of 2</p>
---	--	---	--

THIS DRAWING IS THE PROPERTY OF HONEYWELL. DO NOT REPRODUCE OR DISCLOSE TO OTHERS WITHOUT EXPRESS WRITTEN CONSENT OF HONEYWELL.

REVISIONS				
REV.	NO.	DESCRIPTION	DATE	BY / APPROVED
(SEE PAGE 1)				

CIRCUIT BOARD VIEW
(COVER REMOVED)



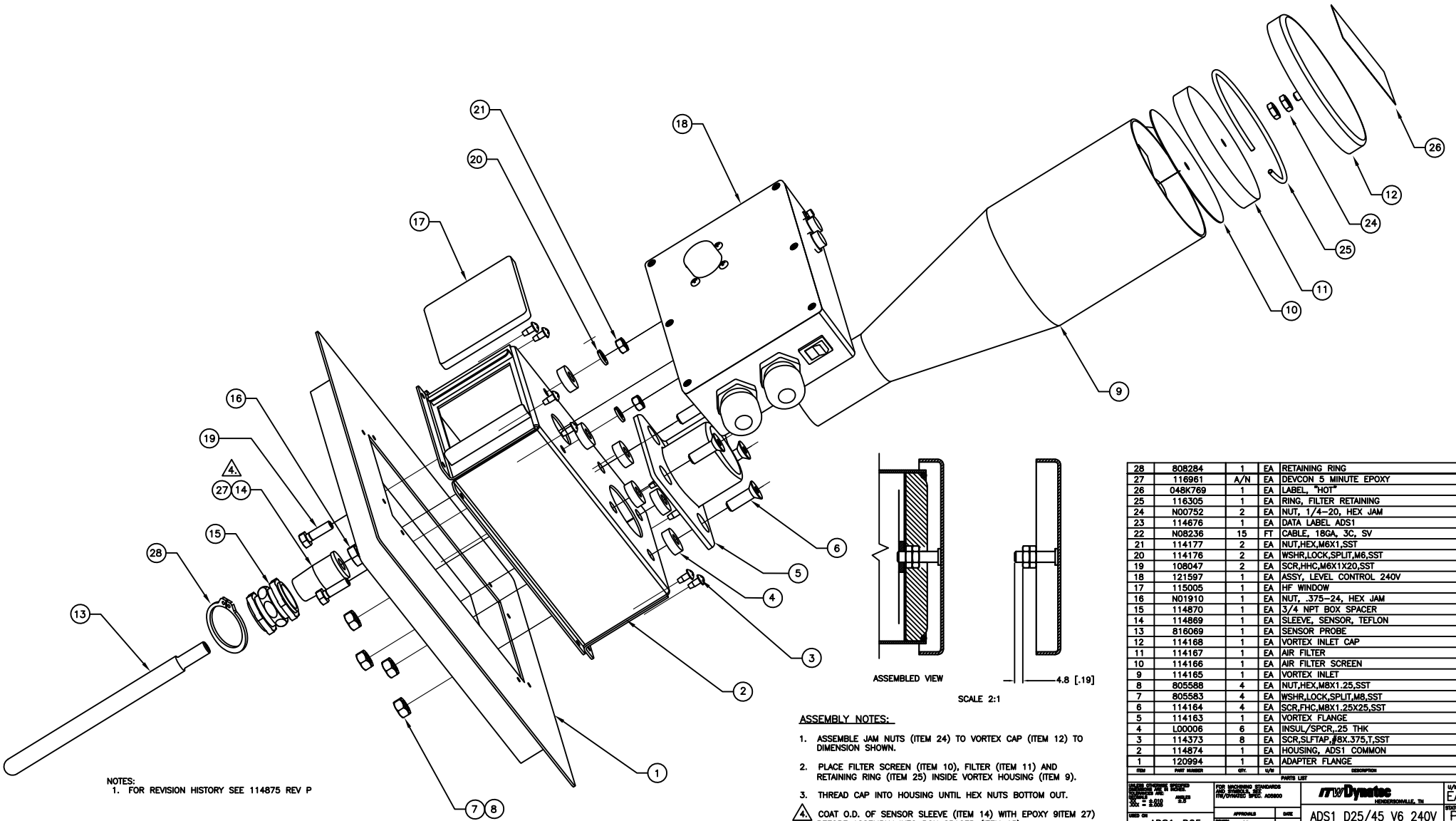
REV	REV NUMBER	QTY	U/S	DESCRIPTION
27	116961	A/N	EA	DEVCON 5 MINUTE EPOXY
26	048K769	1	EA	LABEL, "HOT"
25	116305	1	EA	RING, FILTER RETAINING
24	N00752	2	EA	NUT, 1/4-20, HEX JAM
23	114676	1	EA	DATA LABEL ADS1
22	N08236	15	FT	CABLE, 18GA, 3C, SV
21	114177	2	EA	NUT,HEX,M6X1,SST
20	114176	2	EA	WSHR,LOCK,SPLIT,M6,SST
19	108047	2	EA	SCR,HHC,M6X1X20,SST
18	114871	1	EA	ASSY, LEVEL CONTROL 120
17	115005	1	EA	HF WINDOW
16	N01910	1	EA	NUT, .375-24, HEX JAM
15	114870	1	EA	3/4 NPT BOX SPACER
14	114869	1	EA	SLEEVE, SENSOR, TEFLON
13	816069	1	EA	SENSOR PROBE
12	114168	1	EA	VORTEX INLET CAP
11	114167	1	EA	AIR FILTER
10	114166	1	EA	AIR FILTER SCREEN
9	114165	1	EA	VORTEX INLET
8	805588	4	EA	NUT,HEX,M6X1.25,SST
7	805583	4	EA	WSHR,LOCK,SPLIT,M6,SST
6	114164	4	EA	SCR,HHC,M6X1.25X25,SST
5	114163	1	EA	VORTEX FLANGE
4	L00006	6	EA	INSUL/SPCR,.25 THK
3	114373	8	EA	SCR,SLFTAP,#BX.375,T,SST
2	114874	1	EA	HOUSING, ADS1 COMMON
1	114161	1	EA	ADAPTER FLANGE

FOR APPROVAL AND SIGNATURE DESIGNED BY: TEP DATE: 03.11.19	FOR CHECKING STANDARDS REV. CONTROL NO.: 008000	HONEYWELL MEMPHIS, TN	U/S EA
USED ON: ADS1-S22	APPROVALS: AD DATE: 03.11.19	ADS1 S22 240V HOUSING ASSY	P SOURCE
REV. REV.: -	COMPUTER DESCRIPTION: HENG ASSY, ADS1 S22/S45	REV. NO.: 826294	REV. GROUP: B
DO NOT SCALE DRAWING	SCALE: 1:1	CAD DRAWING	SHEET 2 OF 2

7.5.3 ADS1 Housing Assembly 240V for Dynamelt D25/D45 V6, PN 826299B

THIS DRAWING IS THE PROPERTY OF Raytheon. DO NOT REPRODUCE OR DISCLOSE TO OTHERS WITHOUT EXPRESS WRITTEN CONSENT OF Raytheon.

REV.	NO.	DESCRIPTION	DATE	BY	APPROVED
244	A	INITIAL RELEASE	03/11/18		
ECN1414	B	ADD ITEM 26	12/13/21	PK	



NOTES:
1. FOR REVISION HISTORY SEE 114875 REV P

ASSEMBLY NOTES:

1. ASSEMBLE JAM NUTS (ITEM 24) TO VORTEX CAP (ITEM 12) TO DIMENSION SHOWN.
2. PLACE FILTER SCREEN (ITEM 10), FILTER (ITEM 11) AND RETAINING RING (ITEM 26) INSIDE VORTEX HOUSING (ITEM 9).
3. THREAD CAP INTO HOUSING UNTIL HEX NUTS BOTTOM OUT.
4. COAT O.D. OF SENSOR SLEEVE (ITEM 14) WITH EPOXY 9ITEM 27) BEFORE ASSEMBLY INTO BOX SPACER (ITEM 15).

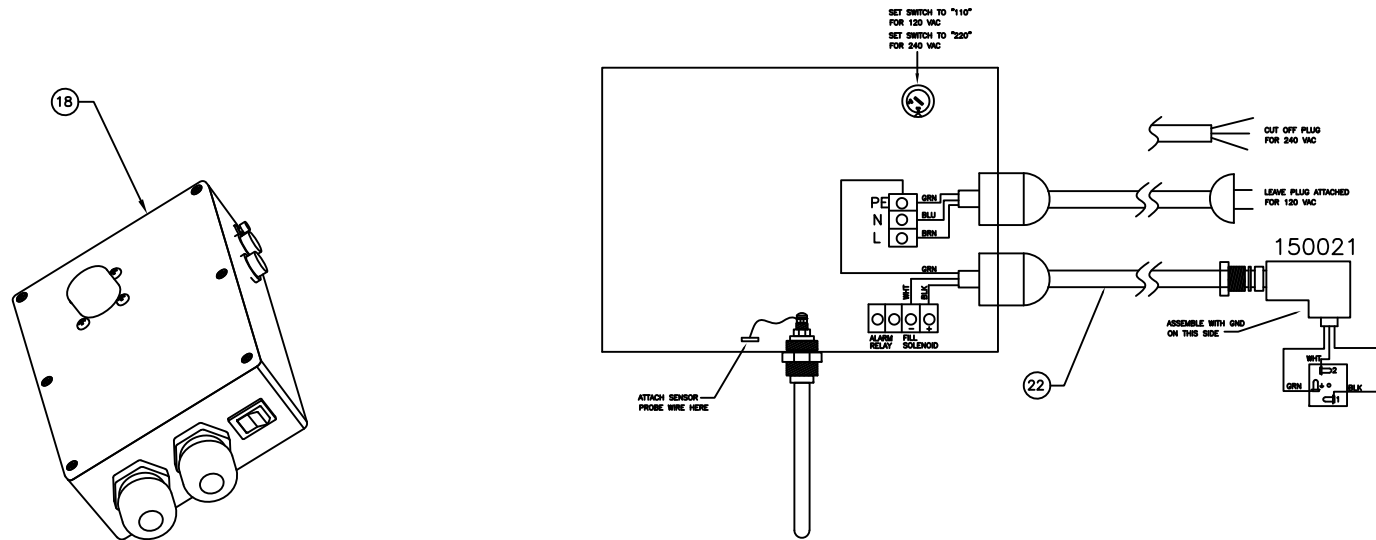
REV	QTY	PART NUMBER	QTY	U/O	DESCRIPTION
28	1	808284	1	EA	RETAINING RING
27	1	116981	A/N	EA	DEVCON 5 MINUTE EPOXY
26	1	048K769	1	EA	LABEL, "HOT"
25	1	116305	1	EA	RING, FILTER RETAINING
24	2	N00752	2	EA	NUT, 1/4-20, HEX JAM
23	1	114676	1	EA	DATA LABEL ADS1
22	15	N08236	15	FT	CABLE, 18GA, 3C, SV
21	2	114177	2	EA	NUT,HEX,M6X1,SST
20	2	114176	2	EA	WSHR,LOCK,SPLIT,M6,SST
19	2	108047	2	EA	SCR,HHC,M6X1X20,SST
18	1	121597	1	EA	ASSY, LEVEL CONTROL 240V
17	1	115005	1	EA	HF WINDOW
16	1	N01910	1	EA	NUT, .375-24, HEX JAM
15	1	114870	1	EA	3/4 NPT BOX SPACER
14	1	114869	1	EA	SLEEVE, SENSOR, TEFLON
13	1	816069	1	EA	SENSOR PROBE
12	1	114168	1	EA	VORTEX INLET CAP
11	1	114167	1	EA	AIR FILTER
10	1	114166	1	EA	AIR FILTER SCREEN
9	1	114165	1	EA	VORTEX INLET
8	4	805588	4	EA	NUT,HEX,M6X1,25,SST
7	4	805583	4	EA	WSHR,LOCK,SPLIT,M6,SST
6	4	114164	4	EA	SCR,HHC,M6X1,25X20,SST
5	1	114163	1	EA	VORTEX FLANGE
4	6	L00006	6	EA	INSUL/SPCR,.25 THK
3	8	114373	8	EA	SCR,SLFTAP,#BX.375,T,SST
2	1	114874	1	EA	HOUSING, ADS1 COMMON
1	1	120994	1	EA	ADAPTER FLANGE

FOR WORKING STANDARDS REV. 03/11/18 SCALE: 2:1		DATE LIST 03/11/18			U/O EA
USED ON ADS1-D25		APPROVALS DATE 03/11/18				TITLE ADS1 D25/45 V6 240V HOUSING ASSY	P SOURCE
REV. REV. DO NOT SCALE DRAWING		COMPANY DESIGN/COMPONENT ORIGINATOR HSG ASI, ADS1 V6 D25/45 V6		REV. NO. 826299	GROUP 1 OF 2

THIS DRAWING IS THE PROPERTY OF M/DYNAMICS.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF M/DYNAMICS.

REVISIONS				
REV.	NO.	DESCRIPTION	DATE	BY
(SEE PAGE 1)				

CIRCUIT BOARD VIEW
(COVER REMOVED)



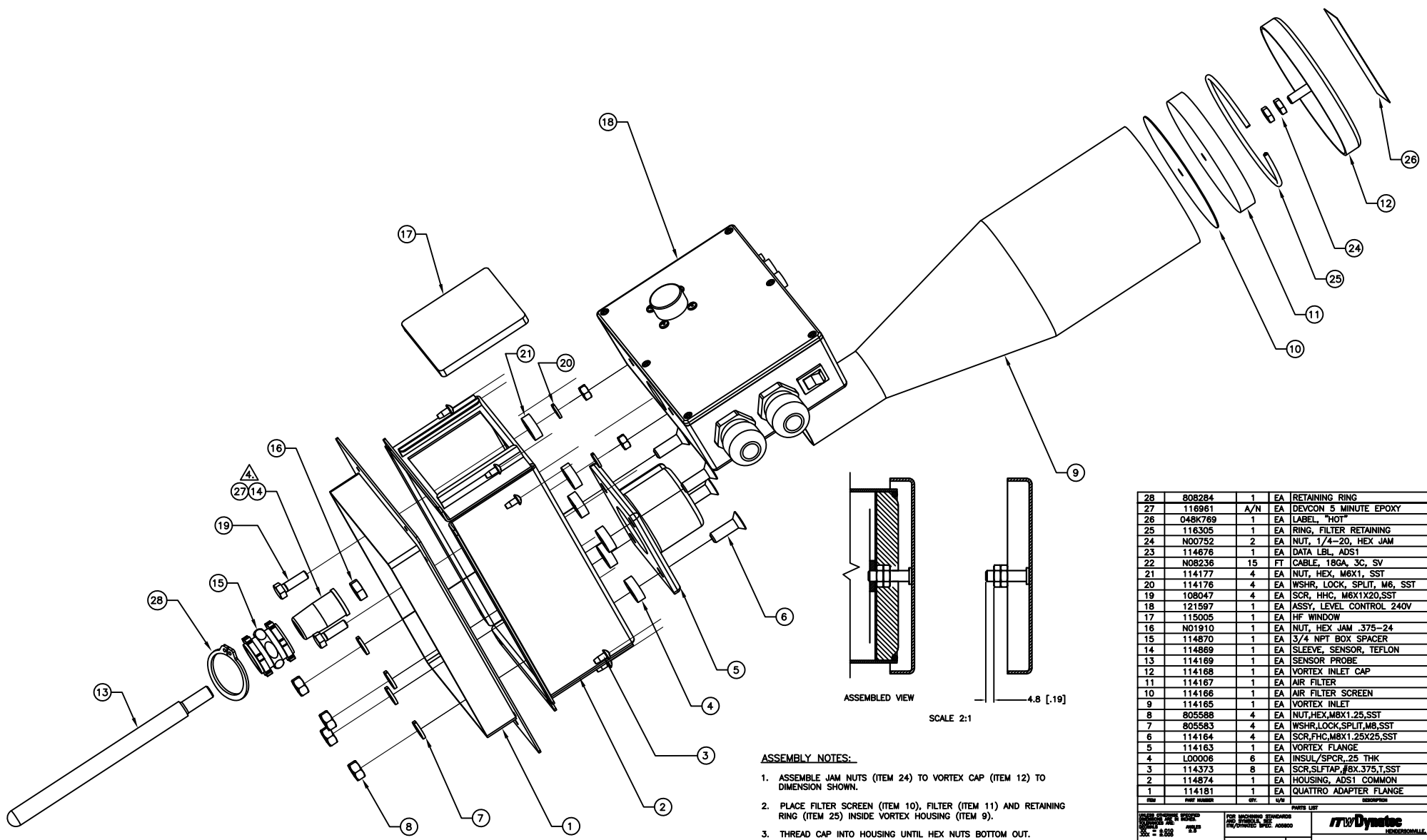
REV	PART NUMBER	QTY	U/O	DESCRIPTION
27	116961	A/N	EA	DEVCON 5 MINUTE EPOXY
26	048K769	1	EA	LABEL, "HOT"
25	116305	1	EA	RING, FILTER RETAINING
24	N00752	2	EA	NUT, 1/4-20, HEX JAM
23	114676	1	EA	DATA LABEL ADS1
22	N08236	15	FT	CABLE, 18GA, 3C, SV
21	114177	2	EA	NUT,HEX,M6X1,SST
20	114176	2	EA	WSHR,LOCK,SPLIT,M6,SST
19	108047	2	EA	SCR,HHC,M6X1X20,SST
18	121897	1	EA	ASSY, LEVEL CONTROL 240
17	115005	1	EA	HF WINDOW
16	N01910	1	EA	NUT, .375-24, HEX JAM
15	114870	1	EA	3/4 NPT BOX SPACER
14	114869	1	EA	SLEEVE, SENSOR, TEFLON
13	816069	1	EA	SENSOR PROBE
12	114168	1	EA	VORTEX INLET CAP
11	114167	1	EA	AIR FILTER
10	114166	1	EA	AIR FILTER SCREEN
9	114165	1	EA	VORTEX INLET
8	805588	4	EA	NUT,HEX,M8X1.25,SST
7	805583	4	EA	WSHR,LOCK,SPLIT,M8,SST
6	114164	4	EA	SCR,HHC,M8X1.25X25,SST
5	114163	1	EA	VORTEX FLANGE
4	L00006	6	EA	INSUL/SPCR,.25 THK
3	114373	8	EA	SCR,SLFTAP,#8X.375,T,SST
2	114874	1	EA	HOUSING, ADS1 COMMON
1	120994	1	EA	ADAPTER FLANGE

M/DYNAMICS 2000 W. WINDYBROOK HOUSTON, TX 77058 TEL: 281-280-8000	FOR MACHINING STANDARDS M/DYNAMICS W/EE 008000			U/W EA
	USED ON ADS1-D25	APPROVALS DATE 03.11.18			PART NO. 826299	REV. GROUP B
DO NOT SCALE DRAWING MISC ASSY, ADS1 V6 D25/45 V6 SCALE 1:1 CAD DRAWING SHEET 2 OF 2				

7.5.4 ADS1 Housing Assembly 240V for DynaPack, PN 826295B

THIS DRAWING IS THE PROPERTY OF MFL/ADP/MSD.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF MFL/ADP/MSD.

REV.	NO.	DESCRIPTION	DATE	BY	APPROVED
244	A	INITIAL RELEASE	03.11.10		
ECM1414	B	ADD ITEM 28	12.13.21	PK	



ASSEMBLY NOTES:

- ASSEMBLE JAM NUTS (ITEM 24) TO VORTEX CAP (ITEM 12) TO DIMENSION SHOWN.
 - PLACE FILTER SCREEN (ITEM 10), FILTER (ITEM 11) AND RETAINING RING (ITEM 25) INSIDE VORTEX HOUSING (ITEM 9).
 - THREAD CAP INTO HOUSING UNTIL HEX NUTS BOTTOM OUT.
- 4.** COAT O.D. OF SENSOR SLEEVE (ITEM 14) WITH EPOXY (ITEM 27) BEFORE ASSEMBLY INTO BOX SPACERE (ITEM 15).

ITEM	QTY	UNIT	DESCRIPTION
28	1	EA	RETAINING RING
27	116961	A/N	EA DEVCON 5 MINUTE EPOXY
26	048K769	1	EA LABEL "HOT"
25	116305	1	EA RING, FILTER RETAINING
24	N00752	2	EA NUT, 1/4-20, HEX JAM
23	114676	1	EA DATA LBL, ADS1
22	N08236	15	FT CABLE, 18GA, 3C, SV
21	114177	4	EA NUT, HEX, M6X1, SST
20	114176	4	EA WSHR, LOCK, SPLIT, M6, SST
19	108047	4	EA SCR, HHC, M6X1X20,SST
18	121597	1	EA ASSY, LEVEL CONTROL 240V
17	115005	1	EA HF WINDOW
16	N01910	1	EA NUT, HEX JAM .375-24
15	114870	1	EA 3/4 NPT BOX SPACER
14	114869	1	EA SLEEVE, SENSOR, TEFLON
13	114189	1	EA SENSOR PROBE
12	114188	1	EA VORTEX INLET CAP
11	114187	1	EA AIR FILTER
10	114186	1	EA AIR FILTER SCREEN
9	114165	1	EA VORTEX INLET
8	805588	4	EA NUT,HEX,M8X1.25,SST
7	805583	4	EA WSHR,LOCK,SPLIT,M8,SST
6	114164	4	EA SCR,FHC,M8X1.25X25,SST
5	114163	1	EA VORTEX FLANGE
4	L00006	6	EA INSUL/SPCR,.25 THK
3	114373	8	EA SCR,SLFTAP,#BX.375,T,SST
2	114874	1	EA HOUSING, ADS1 COMMON
1	114181	1	EA QUATTRO ADAPTER FLANGE

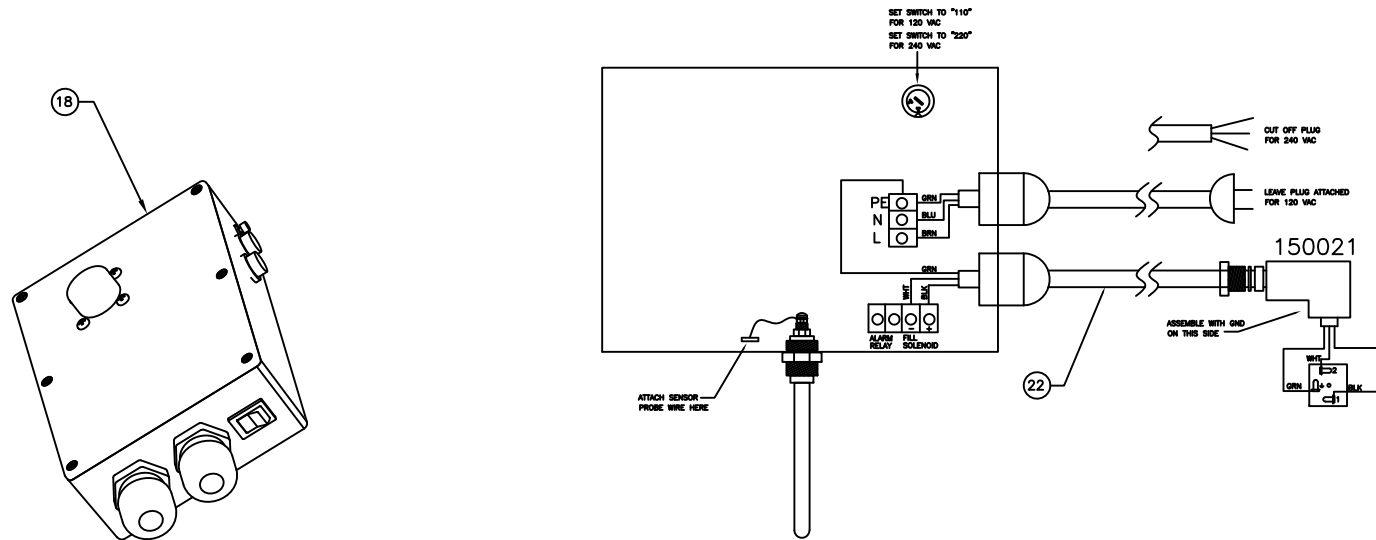
FOR MACHINING STANDARDS REFERENCE TO: ASME Y14.5-2009 DATE: 10/30/08	APPROVALS: _____ DATE: 10/30/08	mflDynapack MEMPHIS, TN ADS1-DYNAPACK 240V HOUSING ASSY	U/W EA P SOURCE
USED ON: ADS1 DYNAPACK	DRAWN: CHECKED: COMPUTER AIDED DESIGN: HUNG ASY, ADS1 DYNAPACK	REV. NO.: 826295	SHEET NO.: B OF: 2

DO NOT SCALE DRAWING

THIS DRAWING IS THE PROPERTY OF HONEYWELL. DO NOT REPRODUCE OR DISCLOSE TO OTHERS WITHOUT EXPRESS WRITTEN CONSENT OF HONEYWELL.

REV.	REV.	DESCRIPTION	DATE	BY	APPROVED
		(SEE PG. 1)			

CIRCUIT BOARD VIEW
(COVER REMOVED)



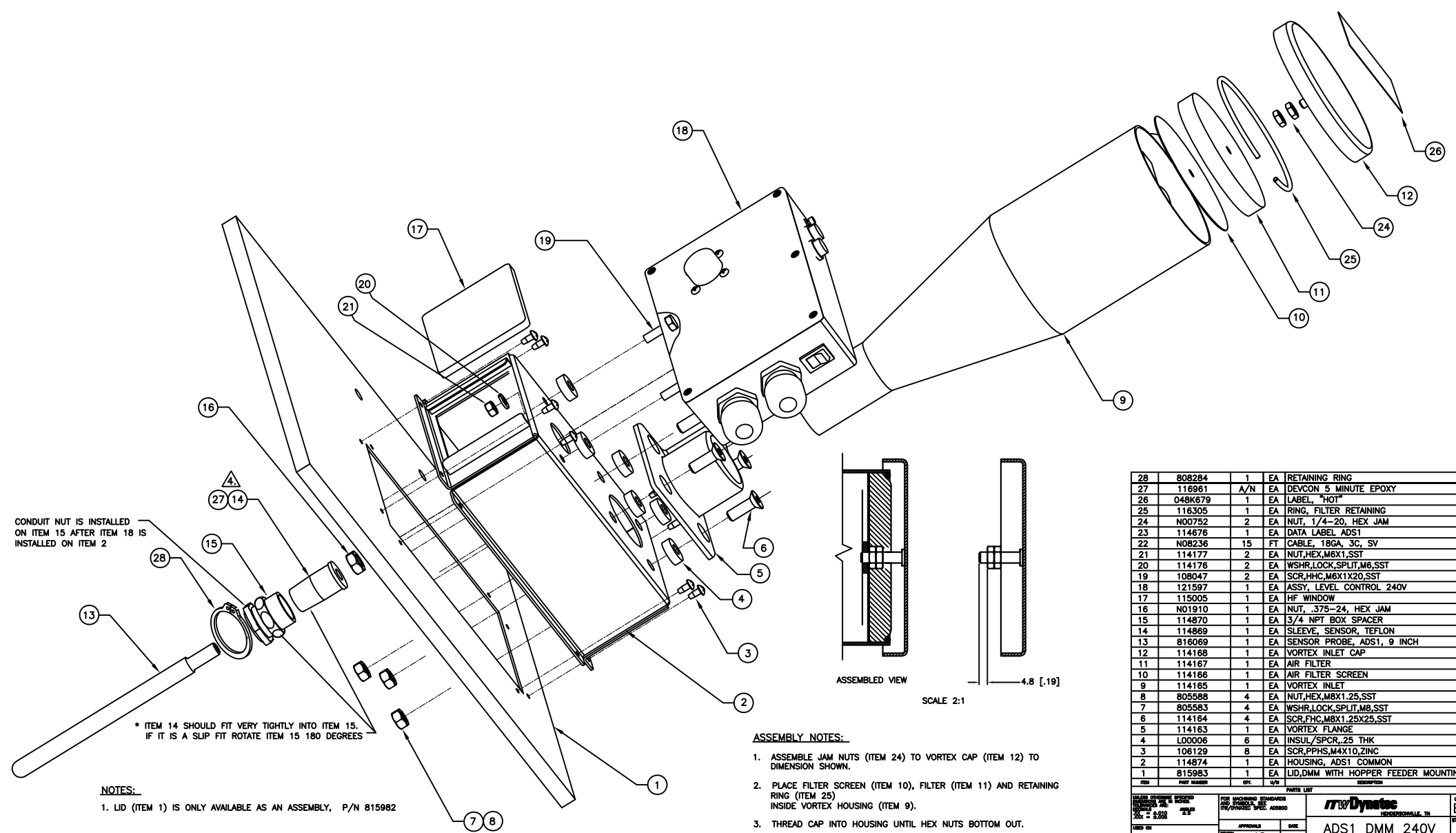
REV	PART NUMBER	QTY	U/O	DESCRIPTION
27	116961	A/N	EA	DEVCON 5 MINUTE EPOXY
26	048K769	1	EA	LABEL, "HOT"
25	116305	1	REF	RING, FILTER RETAINING
24	N00752	2	EA	NUT, 1/4-20, HEX JAM
23	114676	1	EA	DATA LBL, ADS1
22	N08236	15	FT	CABLE, 18GA, 3C, SV
21	114177	4	EA	NUT, HEX, M6X1, SST
20	114176	4	EA	WSHR, LOCK, SPLIT, M6, SST
19	108047	4	EA	SCR, HHC, M6X1X20,SST
18	121597	1	EA	ASSY, LEVEL CONTROL 240
17	115005	1	EA	HF WINDOW
16	N01910	1	EA	NUT, HEX JAM .375-24
15	114870	1	EA	3/4 NPT BOX SPACER
14	114869	1	REF	SLEEVE, SENSOR, TEFLON
13	114189	1	EA	SENSOR PROBE
12	114188	1	REF	VORTEX INLET CAP
11	114187	1	REF	AIR FILTER
10	114186	1	REF	AIR FILTER SCREEN
9	114185	1	REF	VORTEX INLET
8	805588	4	EA	NUT,HEX,M6X1.25,SST
7	805583	4	EA	WSHR,LOCK,SPLIT,M6,SST
6	114164	4	EA	SCR,FHC,M6X1.25X25,SST
5	114163	1	REF	VORTEX FLANGE
4	L00006	6	EA	INSUL/SPCR,.25 THK
3	114373	8	EA	SCR,SLFTAP,#BX.375,T,SST
2	114874	1	EA	HOUSING, ADS1 COMMON
1	114181	1	EA	QUATTRO ADAPTER FLANGE

DESIGN APPROVAL DRAWN BY: [Signature] DATE: 03.11.18	FOR WORKING STANDARDS REV. SYMBOL: [Symbol] DATE: 03.11.18	mDyne MEMPHIS, TN	U/W EA
USED ON ADS1 DYNAPACK	APPROVALS DATE: 03.11.18	ADS1-DYNAPACK 240V HOUSING ASSY	P SOURCE
REV. REV. COMP. REV. DATE HSNIG ASSY, ADS1 DYNAPACK	REV. REV. DATE: 03.11.18	826295	B GROUP
DO NOT SCALE DRAWING	HSNIG ASSY, ADS1 DYNAPACK	SCALE 1:1 CAD DRAWING	SHEET 2 OF 2

7.5.5 ADS1 Housing Assembly 240V for Dynamelt M-series, PN 826300B

THIS DRAWING IS THE PROPERTY OF **RAYSONIC**.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF **RAYSONIC**.

REVISIONS					
REL.	REV.	DESCRIPTION	DATE	BY	APPROVED
244	A	INITIAL RELEASE	03.11.19	AS	
ECN1414	B	ADD ITEM 28	12.13.21	PK	



CONDUIT NUT IS INSTALLED ON ITEM 15 AFTER ITEM 18 IS INSTALLED ON ITEM 2

* ITEM 14 SHOULD FIT VERY TIGHTLY INTO ITEM 15. IF IT IS A SLIP FIT ROTATE ITEM 15 180 DEGREES

NOTES:
1. LID (ITEM 1) IS ONLY AVAILABLE AS AN ASSEMBLY, P/N 815982

- ASSEMBLY NOTES:**
- ASSEMBLE JAM NUTS (ITEM 24) TO VORTEX CAP (ITEM 12) TO DIMENSION SHOWN.
 - PLACE FILTER SCREEN (ITEM 10), FILTER (ITEM 11) AND RETAINING RING (ITEM 25) INSIDE VORTEX HOUSING (ITEM 9).
 - THREAD CAP INTO HOUSING UNTIL HEX NUTS BOTTOM OUT.
- ▲ COAT O.D. OF SENSOR SLEEVE (ITEM 14) WITH EPOXY (ITEM 27) BEFORE ASSEMBLY INTO BOX SPACER (ITEM 15).

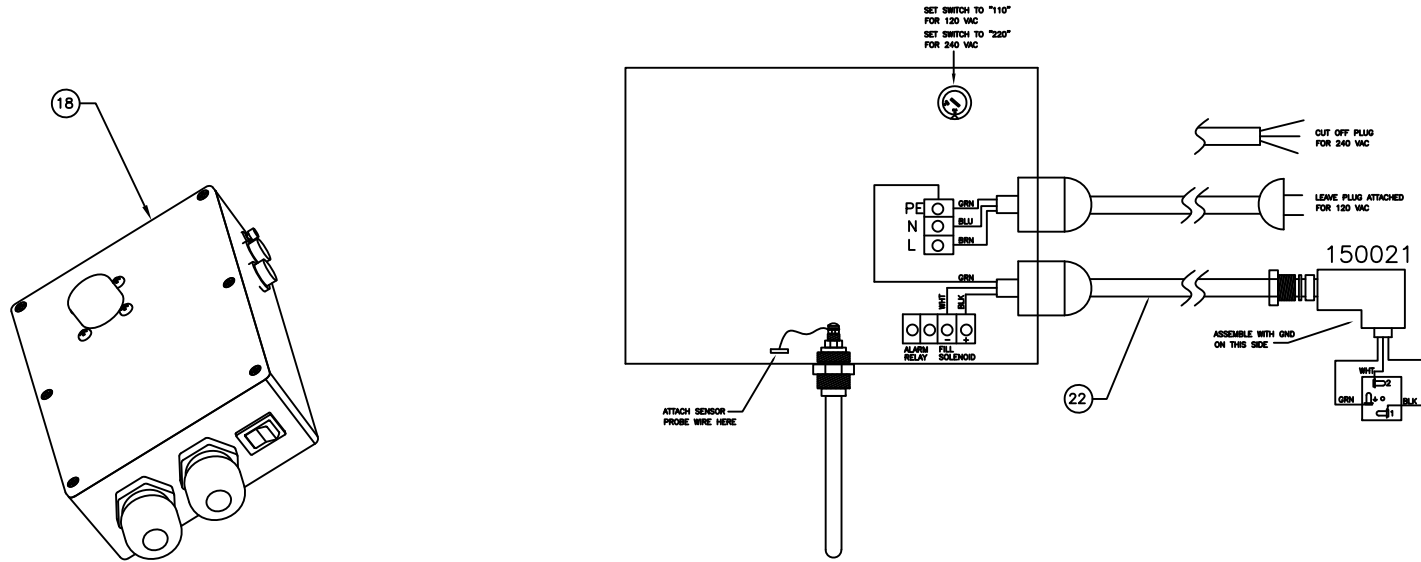
ITEM	PART NUMBER	QTY.	U/M	DESCRIPTION
28	808284	1	EA	RETAINING RING
27	116961	A/N	EA	DEVCON 5 MINUTE EPOXY
26	048K679	1	EA	LABEL, "HOT"
25	116305	1	EA	RING, FILTER RETAINING
24	N00752	2	EA	NUT, 1/4-20, HEX JAM
23	114676	1	EA	DATA LABEL ADS1
22	N08236	15	FT	CABLE, 18GA, 3C, SV
21	114177	2	EA	NUT, HEX, M6X1, SST
20	114176	2	EA	WSHR, LOCK, SPLIT, M6, SST
19	108047	2	EA	SCR, HHC, M6X1X20, SST
18	121597	1	EA	ASSY, LEVEL CONTROL 240V
17	115005	1	EA	HF WINDOW
16	N01910	1	EA	NUT, .375-24, HEX JAM
15	114870	1	EA	3/4 NPT BOX SPACER
14	114869	1	EA	SLEEVE, SENSOR, TEFLON
13	816069	1	EA	SENSOR PROBE, ADS1, 9 INCH
12	114168	1	EA	VORTEX INLET CAP
11	114167	1	EA	AIR FILTER
10	114166	1	EA	AIR FILTER SCREEN
9	114165	1	EA	VORTEX INLET
8	805588	4	EA	NUT, HEX, M8X1.25, SST
7	805583	4	EA	WSHR, LOCK, SPLIT, M8, SST
6	114164	4	EA	SCR, FHC, M8X1.25X25, SST
5	114163	1	EA	VORTEX FLANGE
4	L00006	6	EA	INSUL/SPCR, .25 THK
3	106129	8	EA	SCR, PPHS, M4X10, ZINC
2	114874	1	EA	HOUSING, ADS1 COMMON
1	815983	1	EA	LID, DMM WITH HOPPER FEEDER MOUNTING

MADE TO CUSTOMER SPECIFICATION UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED TOLERANCES: .0015" - .002"	FOR MACHINING STANDARDS AND SYMBOLS SEE THE STANDARD SPEC. BOOKS	Raysonic HENNINGSDALE, TN	U/M EA
DESIGNED BY AS	APPROVED BY AS	DATE 03.11.19	STATUS P
PART NAME ADS1-DMM-2	DRAWING NUMBER HSC ASY/ADS1.DIM	PART NUMBER 826300	SOURCE C
DO NOT SCALE DRAWING	SCALE 1:1	SHEET 1 OF 2	

THIS DRAWING IS THE PROPERTY OF HNSG/AMC.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF HNSG/AMC.

REVISIONS				
REL.	REV.	DESCRIPTION	DATE	BY / APPROVED
		(SEE PAGE 1)		

CIRCUIT BOARD VIEW
(COVER REMOVED)



REV	PART NUMBER	QTY.	U/M	DESCRIPTION
27	116961	A/N	EA	DEVCON 5 MINUTE EPOXY
26	048K679	1	EA	LABEL, "HOT"
25	116305	1	EA	RING, FILTER RETAINING
24	N00752	2	EA	NUT, 1/4-20, HEX JAM
23	114676	1	EA	DATA LABEL ADS1
22	N08236	15	FT	CABLE, 18GA, 3C, 5V
21	114177	2	EA	NUT,HEX,M6X1,SST
20	114176	2	EA	WSHR,LOCK,SPLIT,M6,SST
19	10B047	2	EA	SCR,HHC,M6X1X20,SST
18	121597	1	EA	ASSY, LEVEL CONTROL 240V
17	115005	1	EA	HF WINDOW
16	N01910	1	EA	NUT, .375-24, HEX JAM
15	114870	1	EA	3/4 NPT BOX SPACER
14	114869	1	EA	SLEEVE, SENSOR, TEFLON
13	816069	1	EA	SENSOR PROBE, ADS1, 9 INCH
12	114168	1	EA	VORTEX INLET CAP
11	114167	1	EA	AIR FILTER
10	114166	1	EA	AIR FILTER SCREEN
9	114165	1	EA	VORTEX INLET
8	805588	4	EA	NUT,HEX,M8X1.25,SST
7	805583	4	EA	WSHR,LOCK,SPLIT,M8,SST
6	114164	4	EA	SCR,FHC,M8X1.25X25,SST
5	114163	1	EA	VORTEX FLANGE
4	L00006	6	EA	INSUL/SPCR,.25 THK
3	106129	8	EA	SCR,PPHS,M4X10,ZINC
2	114874	1	EA	HOUSING, ADS1 COMMON
1	815983	1	EA	LID,DMM WITH HOPPER FEEDER MOUNTING

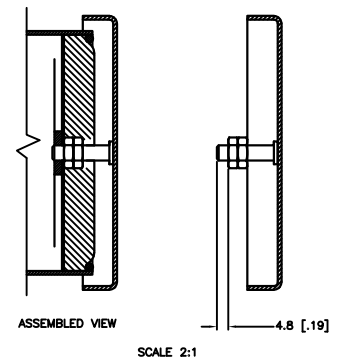
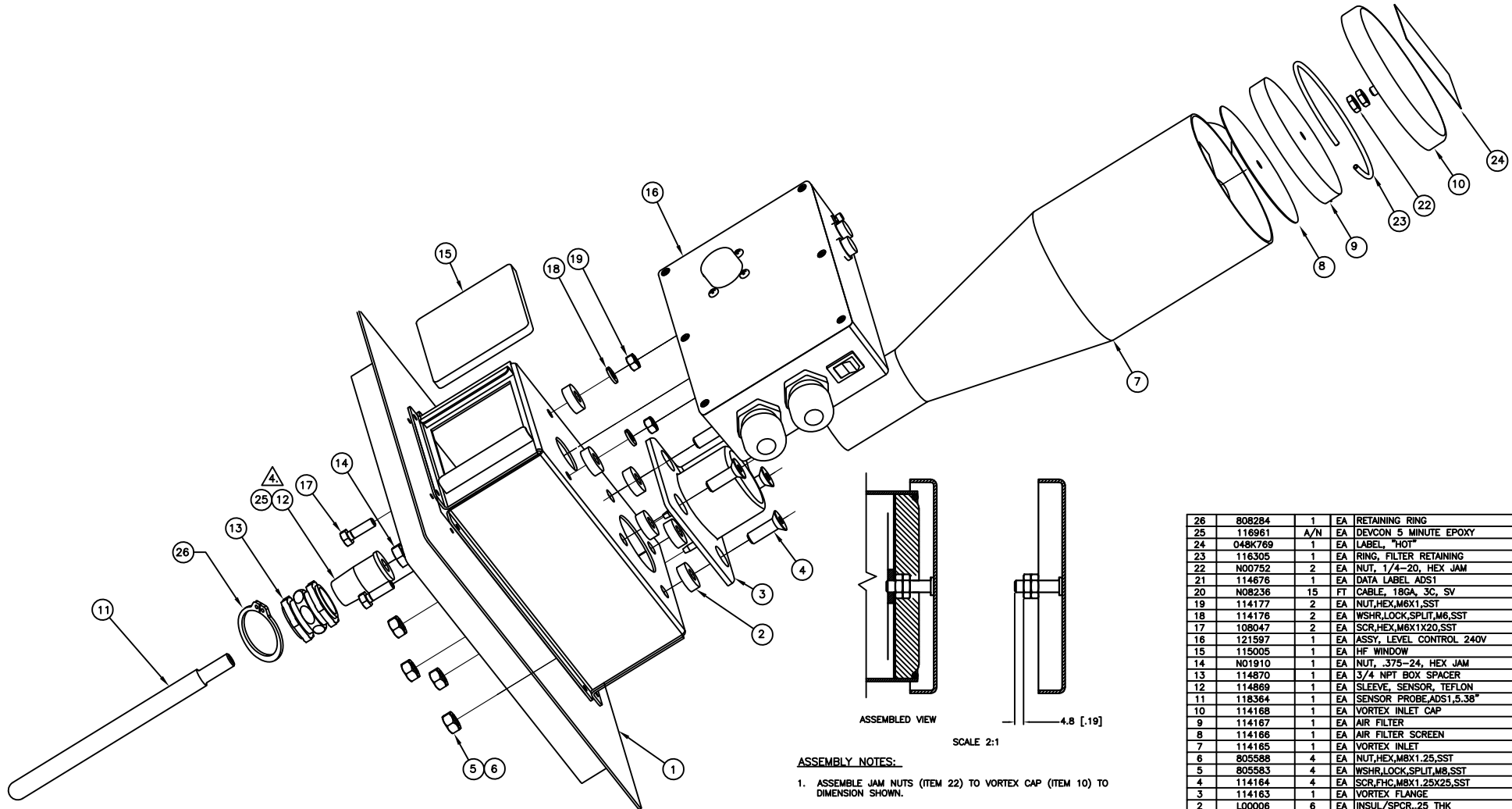
MATERIAL SPECIFICATIONS		FOR MACHINING STANDARDS		PARTS LIST		HNSG/AMC	
SCALE	1:1	FINISH	AS	DATE	03.11.19	APPROVALS	AS
REV	ASD1-DMM-2	DESCRIPTION	HNSG ASY/ADS1,DMM		REV	D	826300
DO NOT SCALE DRAWING					SCALE	1:1	CAD DRAWING

Dynatec		MEMPHIS, TN
ADS1 DMM 240V HOUSING ASSY		STATUS
		P
		C
		REV
		2 OF 2

7.5.6 ADS1 Housing Assembly 240V for NDSN PB7/10, PN 826297C

THIS DRAWING IS THE PROPERTY OF Raytheon. DO NOT REPRODUCE OR DISCLOSE TO OTHERS WITHOUT EXPRESS WRITTEN CONSENT OF Raytheon.

REV.	NO.	DESCRIPTION	DATE	BY	APPROVED
244	A	INITIAL RELEASE	03.11.10		
649	B	REVISED DRAWING TITLE	10.22.19		
ECN1414	C	ADD ITEM 26	12.13.21	PK	



ASSEMBLY NOTES:

- ASSEMBLE JAM NUTS (ITEM 22) TO VORTEX CAP (ITEM 10) TO DIMENSION SHOWN.
 - PLACE FILTER SCREEN (ITEM 8), FILTER (ITEM 9) AND RETAINING RING (ITEM 25) INSIDE VORTEX HOUSING (ITEM 7).
 - THREAD CAP INTO HOUSING UNTIL HEX NUTS BOTTOM OUT.
4. COAT O.D. OF SENSOR SLEEVE (ITEM 12) WITH EPOXY (ITEM 25) BEFORE ASSEMBLY INTO BOX SPACER (ITEM 13).

ITEM	QTY	UNIT	DESCRIPTION
26	1	EA	RETAINING RING
25	116961	A/N	DEVCON 5 MINUTE EPOXY
24	1	EA	LABEL, "HOT"
23	116305	1	EA RING, FILTER RETAINING
22	N00752	2	EA NUT, 1/4-20, HEX JAM
21	114676	1	EA DATA LABEL ADS1
20	N08236	15	FT CABLE, 18GA, 3C, SV
19	114177	2	EA NUT,HEX,M6X1,SST
18	114176	2	EA WSHR,LOCK,SPLIT,M6,SST
17	108047	2	EA SCR,HEX,M6X1X20,SST
16	121597	1	EA ASSY, LEVEL CONTROL 240V
15	115005	1	EA HF WINDOW
14	N01910	1	EA NUT, .375-24, HEX JAM
13	114870	1	EA 3/4 NPT BOX SPACER
12	114869	1	EA SLEEVE, SENSOR, TEFLON
11	118364	1	EA SENSOR PROBE,ADS1,5.38"
10	114188	1	EA VORTEX INLET CAP
9	114167	1	EA AIR FILTER
8	114166	1	EA AIR FILTER SCREEN
7	114165	1	EA VORTEX INLET
6	805588	4	EA NUT,HEX,M6X1.25,SST
5	805583	4	EA WSHR,LOCK,SPLIT,M6,SST
4	114164	4	EA SCR,HEX,M6X1.25X25,SST
3	114163	1	EA VORTEX FLANGE
2	L00006	6	EA INSUL/SPCR,.25 THK
1	115453	1	EA LID,NDSN PB7/10,ADS1

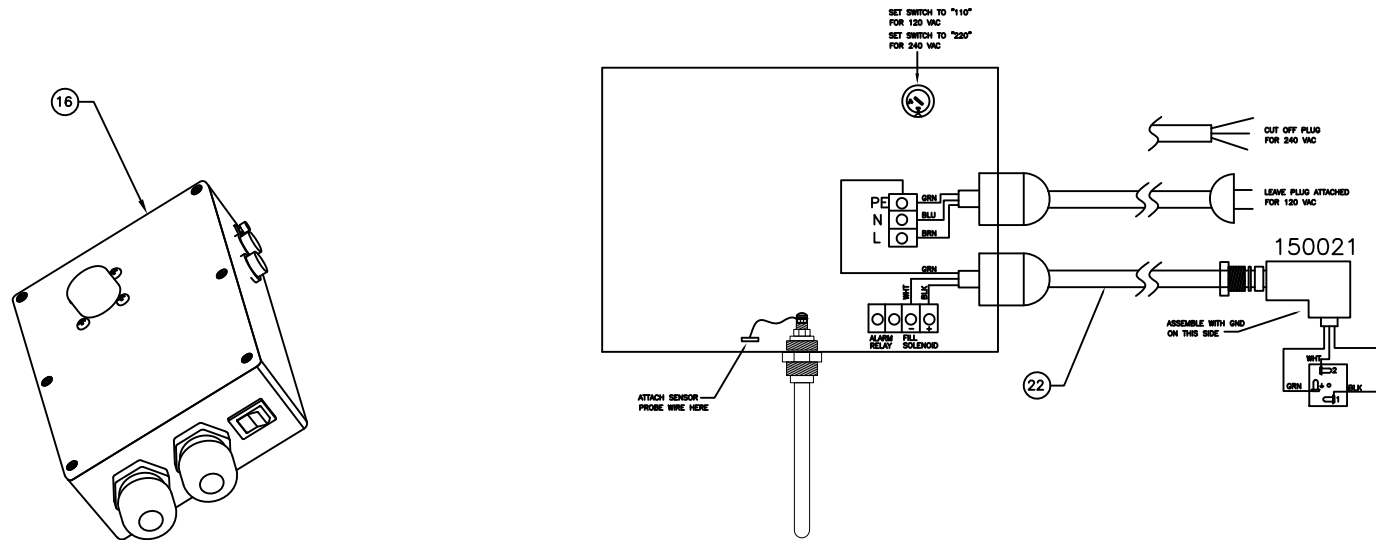
FOR APPROVAL AND SIGNATURE: AUTHORIZED REPRESENTATIVE DATE: 03.11.10 BY: [Signature]	APPROVALS: [Signature] DATE: 03.11.10	Raytheon HENNESSYVILLE, TN	U/W EA P SOURCE
USED ON: ADST-NDSN PB7/10	APPROVALS: [Signature] DATE: 03.11.10	ADST NDSN PB7/10 240V HOUSING ASSY	P SOURCE
DO NOT SCALE DRAWING	HSG ASSY, ADS1 NDSN PB7/10	826297	C GROUP

DO NOT SCALE DRAWING HSG ASSY, ADS1 NDSN PB7/10 SCALE 1:1 CAD DRAWING SHEET 1 OF 2

THIS DRAWING IS THE PROPERTY OF M/DYNAMICS.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF M/DYNAMICS.

REVISIONS				
REV.	NO.	DESCRIPTION	DATE	BY
		(SEE PG. 1)		

CIRCUIT BOARD VIEW
(COVER REMOVED)



REV	PART NUMBER	QTY	U/O	DESCRIPTION
25	116961	A/N	EA	DEVCON 5 MINUTE EPOXY
24	048K769	1	EA	LABEL, "HOT"
23	116305	1	EA	RING, FILTER RETAINING
22	N00752	2	EA	NUT, 1/4-20, HEX JAM
21	114676	1	EA	DATA LABEL ADS1
20	N08236	15	FT	CABLE, 18GA, 3C, SV
19	114177	2	EA	NUT, HEX, M6X1, SST
18	114176	2	EA	WSHR, LOCK, SPLIT, M6, SST
17	108047	2	EA	SCR, HEX, M6X1X20, SST
16	121597	1	EA	ASSY, LEVEL CONTROL 240V
15	115005	1	EA	HF WINDOW
14	N01910	1	EA	NUT, .375-24, HEX JAM
13	114870	1	EA	3/4 NPT BOX SPACER
12	114869	1	EA	SLEEVE, SENSOR, TEFLON
11	118364	1	EA	SENSOR PROBE, ADS1, 5.36"
10	114168	1	EA	VORTEX INLET CAP
9	114167	1	EA	AIR FILTER
8	114166	1	EA	AIR FILTER SCREEN
7	114165	1	EA	VORTEX INLET
6	805588	4	EA	NUT, HEX, M6X1.25, SST
5	805583	4	EA	WSHR, LOCK, SPLIT, M6, SST
4	114164	4	EA	SCR, FHC, M6X1.25X25, SST
3	114163	1	EA	VORTEX FLANGE
2	L00006	6	EA	INSUL/SPCR, .25 THK
1	115453	1	EA	LID, NDSN PB7/10, ADS1

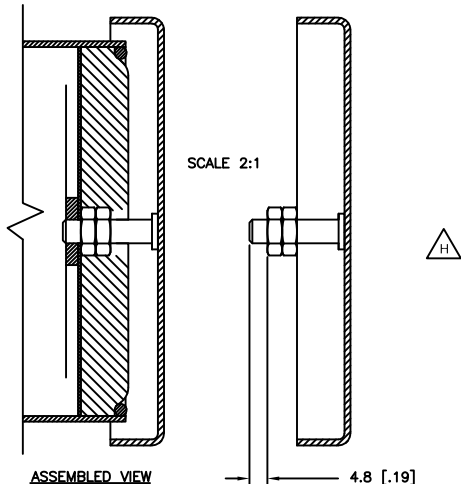
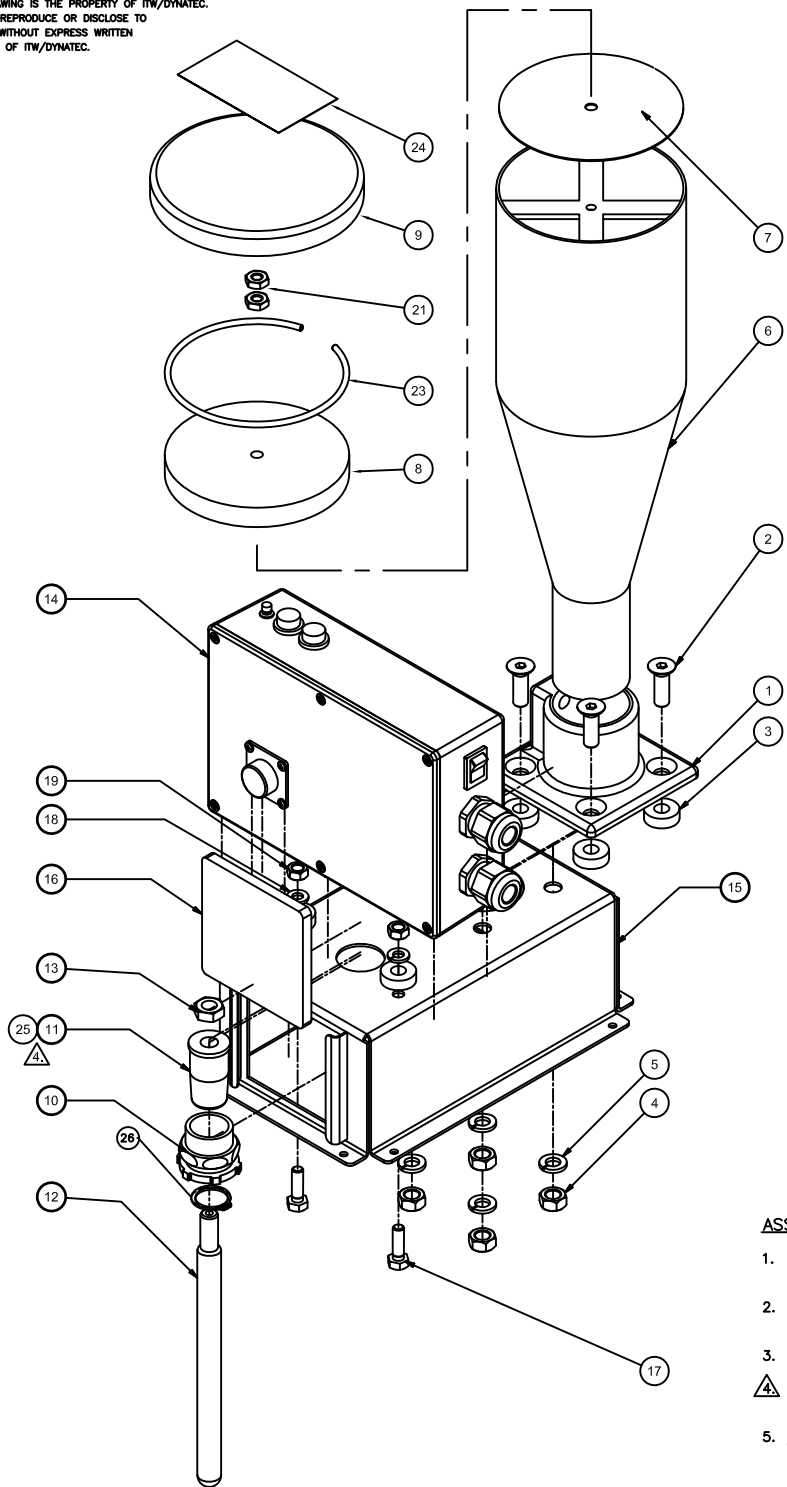
FOR M/DYNAMICS CUSTOMERS ORDERING PARTS TEL: 800-826-2977	FOR M/DYNAMICS STOCKHOLDERS ORDERING PARTS TEL: 800-826-2977	M/Dynamics MEMPHIS, TN	U/W EA
USED ON ADS1-NDSN D25	APPROVALS DATE 3.11.19	ADS1 NDSN PB7/10 HOUSING ASSY	240V SOURCE GROUP
DO NOT SCALE DRAWING	HSNIC ASSY, ADS1 NDSN D25	826297	2 of 2

7.6 Generic Kit

- ITW Dynatec's Generic kit (ADS1-Kit) is designed for an ASU (adhesive supply unit) that is not a currently available ASU model as listed in this manual. See Ch.3.2.5 and Ch.7.
- An ASU not listed in this manual may be suitable for the ADS1-Generic kit. Review the Generic kit installation instructions, drawings and dimensions in the following sub-chapters to determine Generic kit compatibility. The drawings and dimensions in the following sub-chapters detail the modifications and procedures for installing the generic ADS1 kits.
- Some ASU lids may not be suitable to allow the installation of the ADS1 Generic kit.
- If assistance is needed, please contact Dynatec Service or your Sales Representative.

7.6.1 ADS1 Housing Assembly 120V for Generic Kit, PN 116163M

THIS DRAWING IS THE PROPERTY OF ITW/DYNATEC.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF ITW/DYNATEC.



ASSEMBLY NOTES:

1. ASSEMBLE JAM NUTS (ITEM 21) TO VORTEX CAP (ITEM 9) TO DIMENSION SHOWN.
2. PLACE FILTER SCREEN (ITEM 7), FILTER (ITEM 8) AND RETAINING RING (ITEM 23) INSIDE VORTEX HOUSING (ITEM 6).
3. THREAD CAP INTO HOUSING UNTIL HEX NUTS BOTTOM OUT.
4. COAT O.D. OF SENSOR SLEEVE (ITEM 11) WITH EPOXY (ITEM 25) BEFORE ASSEMBLY INTO BOX SPACER (ITEM 10).
5. \triangle

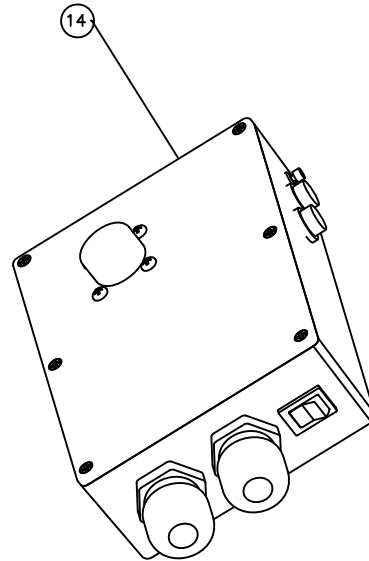
REVISIONS					
REL.	REV.	DESCRIPTION	DATE	BY	APPROVED
N10016	A	INITIAL RELEASE	4.21.10	CRF	
10160	B	ADDED ITEMS 23 & 24; ADDED SECTION VIEW AND ASSEMBLY NOTES.	11.23.10	BB	
10220	C	ITEM 12 WAS 114169	2.4.11	DAH	
10295	D	ITEM 17 WAS 114174	4.29.11	BB	
10310	E	ADDED ITEM 25 AND ASSEMBLY NOTE 4	5.4.11	BB	
13125	F	ADDED ASSEMBLY NOTE 5; REVISED ITEMS 1, 6-9, 11, 12, & 23 TO U/M REF; ITEM 13 WAS QTY 2.	5.07.13	PJD	
17058	G	ADDED WIRING DETAIL PG. 2	11.8.17	JJ	
18012	H	114871 TO REF	02.08.18	DLR	
C1120	J	816069 TO EA	9.20.18	PK	
244	K	CHANGED 116305, 114871, 114869, 114168, 114167, 114166, 114165, 114163 TO EA FROM REF REMOVED NOTE 5	3.11.19	AS	
ECN1414	M	ADD ITEM 26	12.13.21	PK	

ITEM	PART NUMBER	QTY.	U/M	DESCRIPTION
26	808284	1	EA	RETAINING RING
25	116961	A/N	EA	DEVCON 5 MINUTE EPOXY
24	048K769	1	EA	LABEL, "HOT"
23	116305	1	EA	RING, FILTER RETAINING
22	N08236	15	FT	CABLE, 18GA, 3C, SV
21	N00752	2	EA	NUT, HEX JAM, 1/4-20
20	114676	1	EA	DATA LBL ADS1
19	114177	2	EA	NUT, HEX, M6 SST
18	114176	2	EA	WASHER, LOCK, M6 SST
17	108047	2	EA	SCR, HHC, .6X20, SST
16	115005	1	EA	WINDOW, DISCHARGE HOUSING
15	114874	1	EA	HOUSING, ADS1 DISCHARGE
14	114871	1	EA	ADS1 LEVEL CONTROL ASSY
13	N01910	1	EA	NUT, HEX JAM .375-24
12	816069	1	EA	SENSOR PROBE
11	114869	1	EA	SLEEVE, SENSOR TEFLON
10	114870	1	EA	BOX SPACER, 3/4 ZINC
9	114168	1	EA	VORTEX INLET CAP
8	114167	1	EA	AIR FILTER
7	114166	1	EA	AIR FILTER SCREEN
6	114165	1	EA	VORTEX INLET
5	805583	4	EA	WASHER, SPLIT LOCK, M8 SST
4	805588	4	EA	NUT, HEX, M8X1.25, SST
3	L00006	6	EA	INSULATING SPACER
2	114164	4	EA	SCR, FHC, M8X25, SST
1	114163	1	EA	VORTEX MOUNTING FLANGE

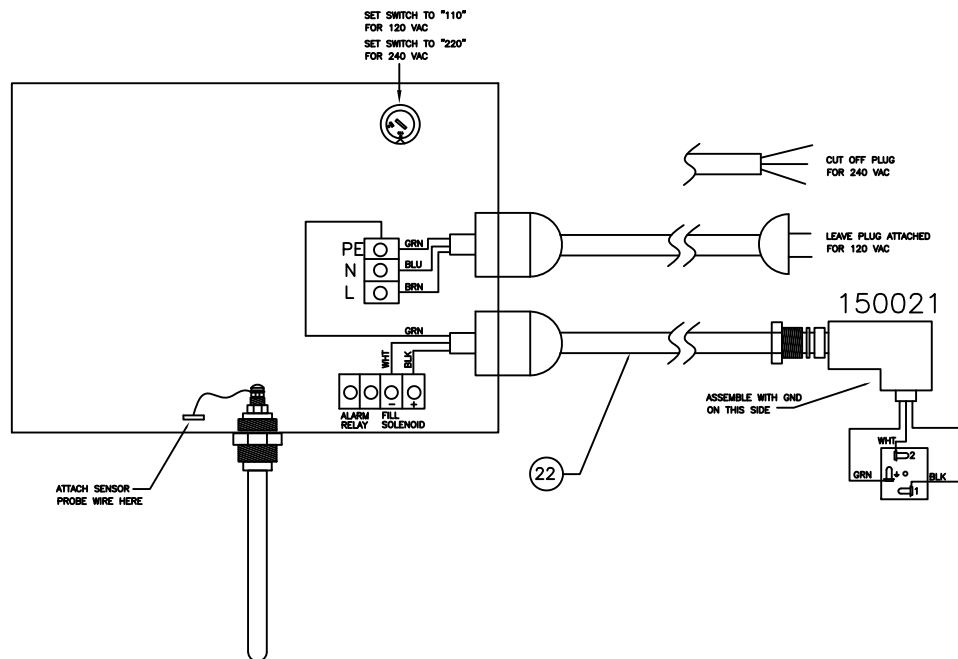
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMALS .X = ±0.25 [.010] ANGLES ±5° .XX = ±0.10 [.004]		FOR MACHINING STANDARDS AND SYMBOLS, SEE ITW/DYNATEC SPEC. A05800		 HENDERSONVILLE, TN		U/M			
USED ON ADS1		APPROVALS DRAWN CRF DATE 5.8.10				STATUS ADS1, DSCHG HSNQ GENERIC ADPTER KIT		SOURCE	
NEXT ASSY. ADS1-KIT		CHECKED		COMPUTER DESCRIPTION(24 CHARACTERS) HSNG ASY, ADS1 KIT		SIZE DWG. NO. 116163		REV. M GROUP	
DO NOT SCALE DRAWING		SCALE N/A		SHEET 1 OF 2					

THIS DRAWING IS THE PROPERTY OF ITW/DYNATEC.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF ITW/DYNATEC.

REVISIONS					
REL.	REV.	DESCRIPTION	DATE	BY	APPROVED
		(SEE PAGE 1)			



CIRCUIT BOARD VIEW
(COVER REMOVED)



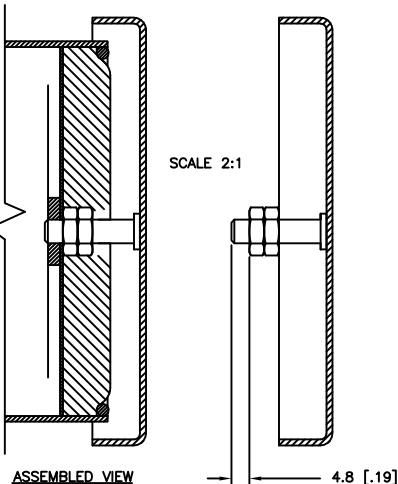
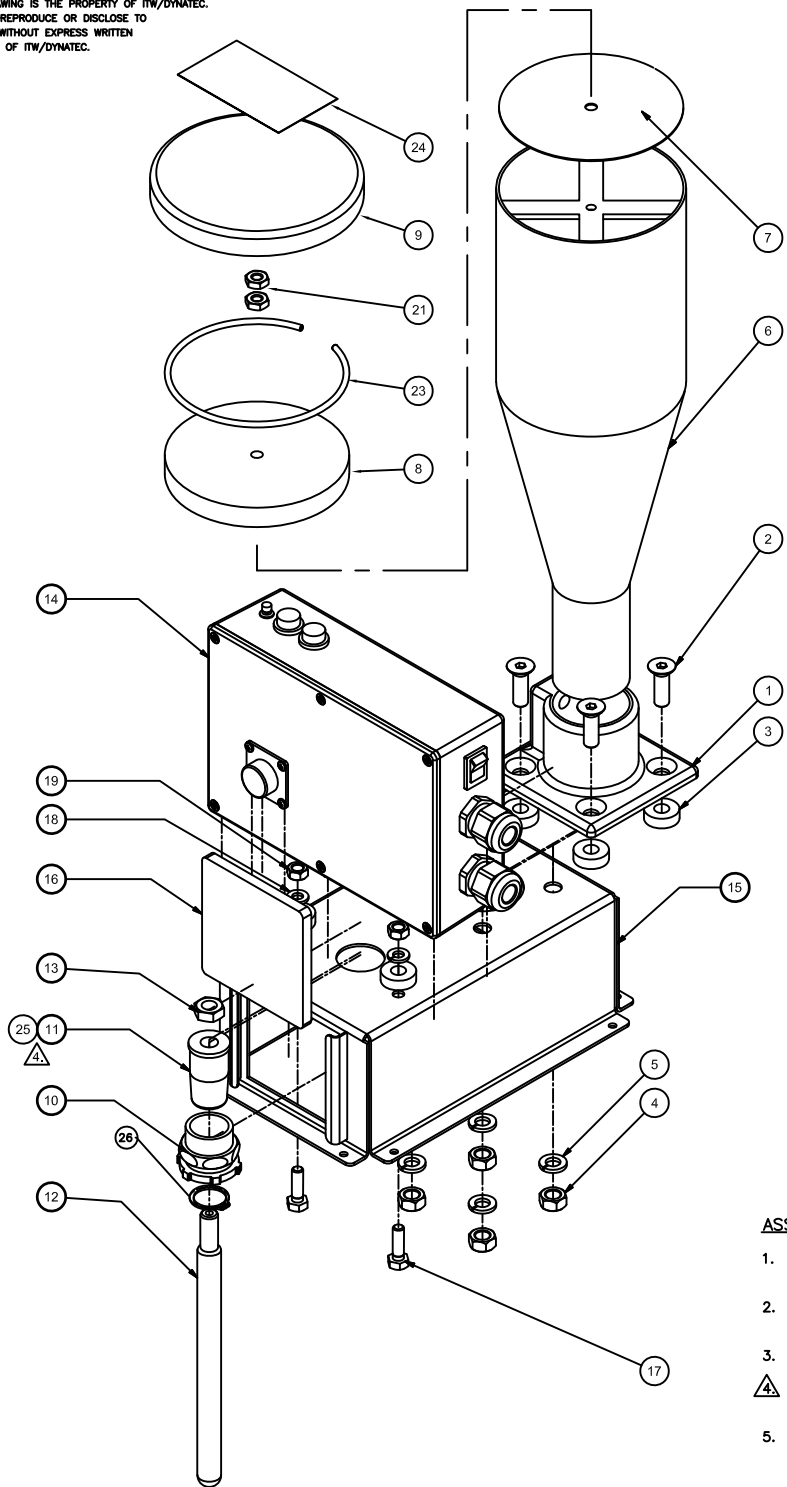
25	116961	A/N	EA	DEVCON 5 MINUTE EPOXY
24	048K769	1	EA	LABEL, "HOT"
23	116305	1	EA	RING, FILTER RETAINING
22	N08236	15	FT	CABLE, 18GA, 3C, SV
21	N00752	2	EA	NUT, HEX JAM, 1/4-20
20	114676	1	EA	DATA LBL ADS1
19	114177	2	EA	NUT, HEX, M6 SST
18	114176	2	EA	WASHER, LOCK, M6 SST
17	108047	2	EA	SCR, HHC, .6X20, SST
16	115005	1	EA	WINDOW, DISCHARGE HOUSING
15	114874	1	EA	HOUSING, ADS1 DISCHARGE
14	114871	1	EA	ADS1 LEVEL CONTROL ASSY
13	N01910	1	EA	NUT, HEX JAM .375-24
12	816069	1	EA	SENSOR PROBE
11	114869	1	EA	SLEEVE, SENSOR TEFLON
10	114870	1	EA	BOX SPACER, 3/4 ZINC
9	114168	1	EA	VORTEX INLET CAP
8	114167	1	EA	AIR FILTER
7	114166	1	EA	AIR FILTER SCREEN
6	114165	1	EA	VORTEX INLET
5	805583	4	EA	WASHER, SPLIT LOCK, M8 SST
4	805588	4	EA	NUT, HEX, M8X1.25, SST
3	L00006	6	EA	INSULATING SPACER
2	114164	4	EA	SCR, FHC, M8X25, SST
1	114163	1	EA	VORTEX MOUNTING FLANGE
ITEM	PART NUMBER	QTY.	U/M	DESCRIPTION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMALS .X = ±0.25 [.010] ANGLES ±5° .XX = ±0.10 [.004]		FOR MACHINING STANDARDS AND SYMBOLS, SEE ITW/DYNATEC SPEC. A05800		 HENDERSONVILLE, TN		U/M
USED ON	ADS1	APPROVALS	DATE	ADS1, DSCHG HSNQ GENERIC ADPTER KIT		STATUS
NEXT ASSY.	ADS1-KIT	DRAWN	5.8.10			SOURCE
DO NOT SCALE DRAWING	HSNG ASY, ADS1 KIT	CHECKED		COMPUTER DESCRIPTION(24 CHARACTERS)	SIZE DWG. NO. 116163	REV. M GROUP
				SCALE N/A	SHEET 2 OF 2	

7.6.2 ADS1 Housing Assembly 240V for Generic Lid, PN 826298B

THIS DRAWING IS THE PROPERTY OF ITW/DYNATEC.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF ITW/DYNATEC.

		REVISIONS			
REL.	REV.	DESCRIPTION	DATE	BY	APPROVED
244	A	INITIAL RELEASE	03.11.19	AS	
ECN1414	B	ADD ITEM 26	12.13.21	PK	



ASSEMBLY NOTES:

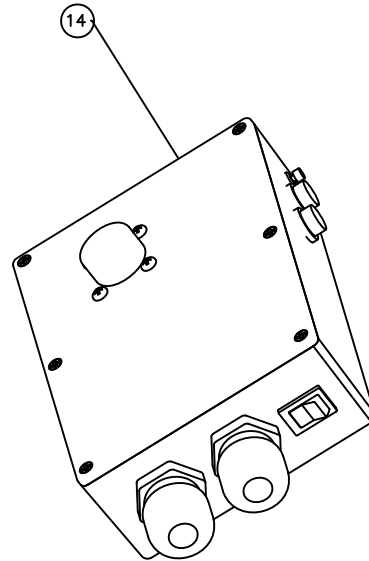
- ASSEMBLE JAM NUTS (ITEM 21) TO VORTEX CAP (ITEM 9) TO DIMENSION SHOWN.
- PLACE FILTER SCREEN (ITEM 7), FILTER (ITEM 8) AND RETAINING RING (ITEM 23) INSIDE VORTEX HOUSING (ITEM 6).
- THREAD CAP INTO HOUSING UNTIL HEX NUTS BOTTOM OUT.
- COAT O.D. OF SENSOR SLEEVE (ITEM 11) WITH EPOXY (ITEM 25) BEFORE ASSEMBLY INTO BOX SPACER (ITEM 10).
- ITEMS 1, 6-9, 11 & 23 (QTY 1 EA.) ARE TO BE SUPPLIED AS PART OF ADS1 COMMON PARTS GROUP 115544, INCLUDED IN THE TOP LEVEL ADS1-KIT BOM.

ITEM	PART NUMBER	QTY.	U/M	DESCRIPTION
26	808284	1	EA	RETAINING RING
25	116961	A/N	EA	DEVCON 5 MINUTE EPOXY
24	048K769	1	EA	LABEL, "HOT"
23	116305	1	EA	RING, FILTER RETAINING
22	N08236	15	FT	CABLE, 18GA, 3C, SV
21	N00752	2	EA	NUT, HEX JAM, 1/4-20
20	114676	1	EA	DATA LBL ADS1
19	114177	2	EA	NUT, HEX, M6 SST
18	114176	2	EA	WASHER, LOCK, M6 SST
17	108047	2	EA	SCR, HHC, .6X20, SST
16	115005	1	EA	WINDOW, DISCHARGE HOUSING
15	114874	1	EA	HOUSING, ADS1 DISCHARGE
14	121597	1	EA	ADS1 LEVEL CONTROL ASSY 240V
13	N01910	1	EA	NUT, HEX JAM .375-24
12	816069	1	EA	SENSOR PROBE
11	114869	1	EA	SLEEVE, SENSOR TEFLON
10	114870	1	EA	BOX SPACER, 3/4 ZINC
9	114168	1	EA	VORTEX INLET CAP
8	114167	1	EA	AIR FILTER
7	114166	1	EA	AIR FILTER SCREEN
6	114165	1	EA	VORTEX INLET
5	805583	4	EA	WASHER, SPLIT LOCK, M8 SST
4	805588	4	EA	NUT, HEX, M8X1.25, SST
3	L00006	6	EA	INSULATING SPACER
2	114164	4	EA	SCR, FHC, M8X25, SST
1	114163	1	EA	VORTEX MOUNTING FLANGE

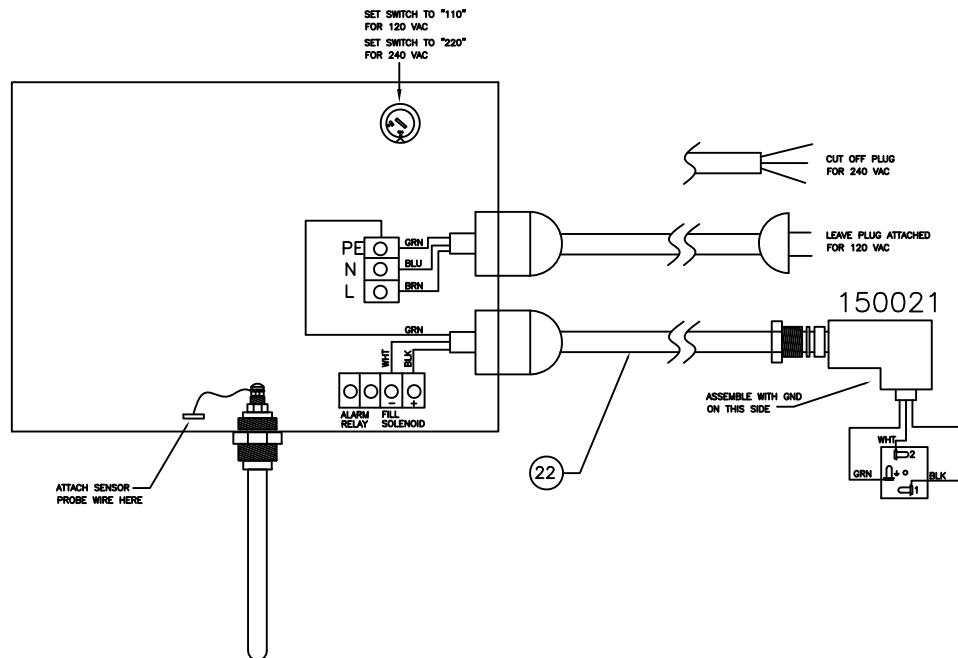
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMALS = ±0.25 [.010] ANGLES ±.5° XX = ±0.10 [.004]		FOR MACHINING STANDARDS AND SYMBOLS, SEE ITW/DYNATEC SPEC. A05800		 HENDERSONVILLE, TN ADS1, DSCHG HSNB 240V GENERIC ADPTER KIT		U/M EA
USED ON ADS1	APPROVALS AS	DATE 03.11.19	STATUS P			
NEXT ASSY. ADS1-KIT-2	CHECKED	COMPUTER DESCRIPTION(24 CHARACTERS) HSNG ASY, ADS1 KIT	SIZE DWG. NO. 826298	REV. B	SOURCE GROUP	GROUP
DO NOT SCALE DRAWING		SCALE N/A	SHEET 1 OF 2			

THIS DRAWING IS THE PROPERTY OF ITW/DYNATEC.
DO NOT REPRODUCE OR DISCLOSE TO
OTHERS WITHOUT EXPRESS WRITTEN
CONSENT OF ITW/DYNATEC.

		REVISIONS			
REL.	REV.	DESCRIPTION	DATE	BY	APPROVED
		(SEE PAGE 1)			



CIRCUIT BOARD VIEW
(COVER REMOVED)



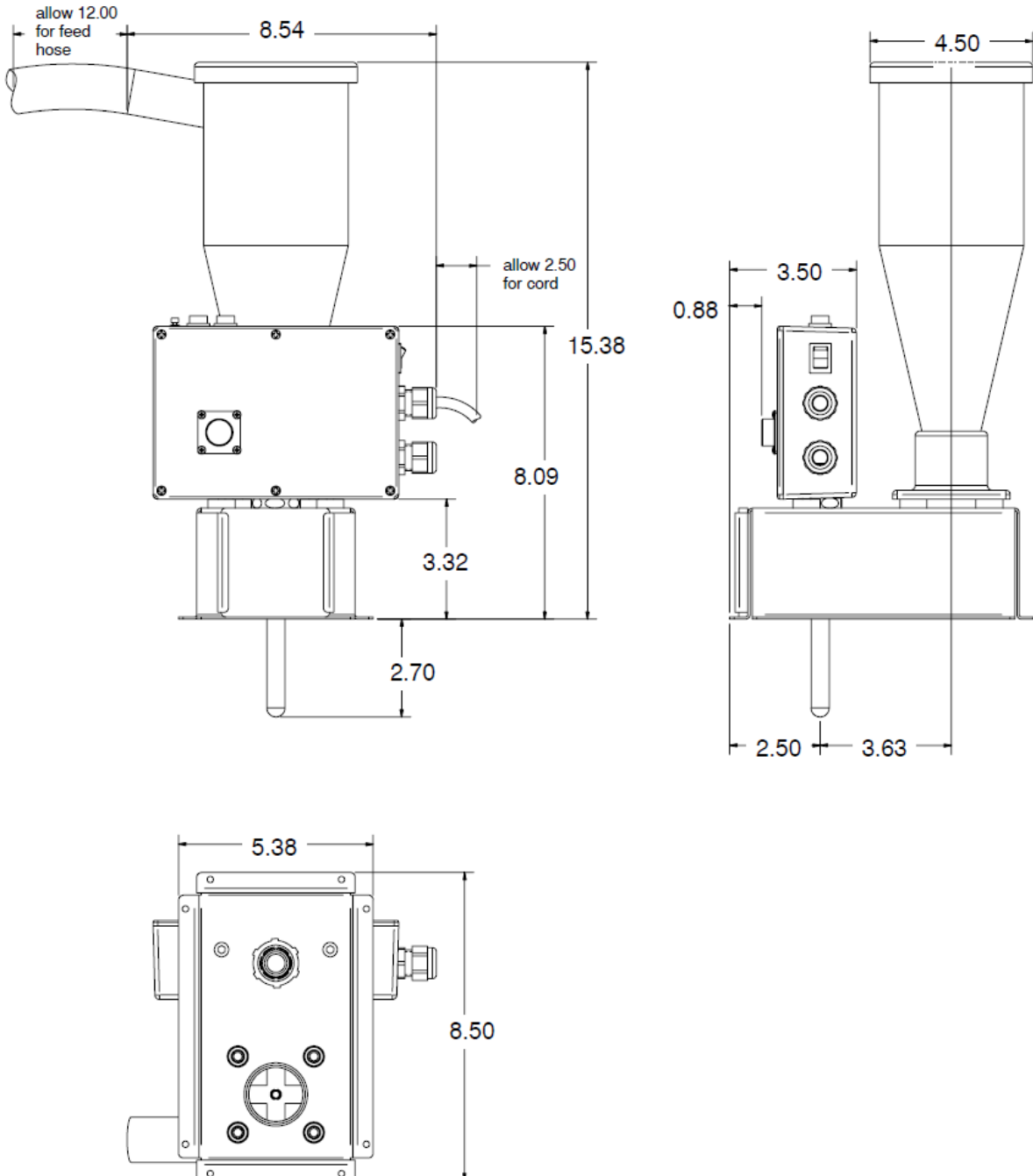
25	116961	A/N	EA	DEVCON 5 MINUTE EPOXY
24	048K769	1	EA	LABEL, "HOT"
23	116305	1	EA	RING, FILTER RETAINING
22	N08236	15	FT	CABLE, 18GA, 3C, SV
21	N00752	2	EA	NUT, HEX JAM, 1/4-20
20	114676	1	EA	DATA LBL ADS1
19	114177	2	EA	NUT, HEX, M6 SST
18	114176	2	EA	WASHER, LOCK, M6 SST
17	108047	2	EA	SCR, HHC, .6X20, SST
16	115005	1	EA	WINDOW, DISCHARGE HOUSING
15	114874	1	EA	HOUSING, ADS1 DISCHARGE
14	121597	1	EA	ADS1 LEVEL CONTROL ASSY 240V
13	N01910	1	EA	NUT, HEX JAM .375-24
12	816069	1	EA	SENSOR PROBE
11	114869	1	EA	SLEEVE, SENSOR TEFLON
10	114870	1	EA	BOX SPACER, 3/4 ZINC
9	114168	1	EA	VORTEX INLET CAP
8	114167	1	EA	AIR FILTER
7	114166	1	EA	AIR FILTER SCREEN
6	114165	1	EA	VORTEX INLET
5	805583	4	EA	WASHER, SPLIT LOCK, M8 SST
4	805588	4	EA	NUT, HEX, M8X1.25, SST
3	L00006	6	EA	INSULATING SPACER
2	114164	4	EA	SCR, FHC, M8X25, SST
1	114163	1	EA	VORTEX MOUNTING FLANGE
ITEM	PART NUMBER	QTY.	U/M	DESCRIPTION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE: DECIMALS .XX = ±0.25 [.010] ANGLES ±5° .XX = ±0.10 [.004]		FOR MACHINING STANDARDS AND SYMBOLS, SEE ITW/DYNATEC SPEC. A05800		 HENDERSONVILLE, TN		U/M
USED ON	ADS1	APPROVALS	AS	DATE	03.11.19	EA
NEXT ASSY.	ADS1-KIT-2	CHECKED				STATUS P
DO NOT SCALE DRAWING	HSNG ASY, ADS1 KIT	COMPUTER DESCRIPTION(24 CHARACTERS)	SIZE	DWG. NO.	826298	SOURCE
			SCALE N/A			GROUP
						REV. B
						2 OF 2

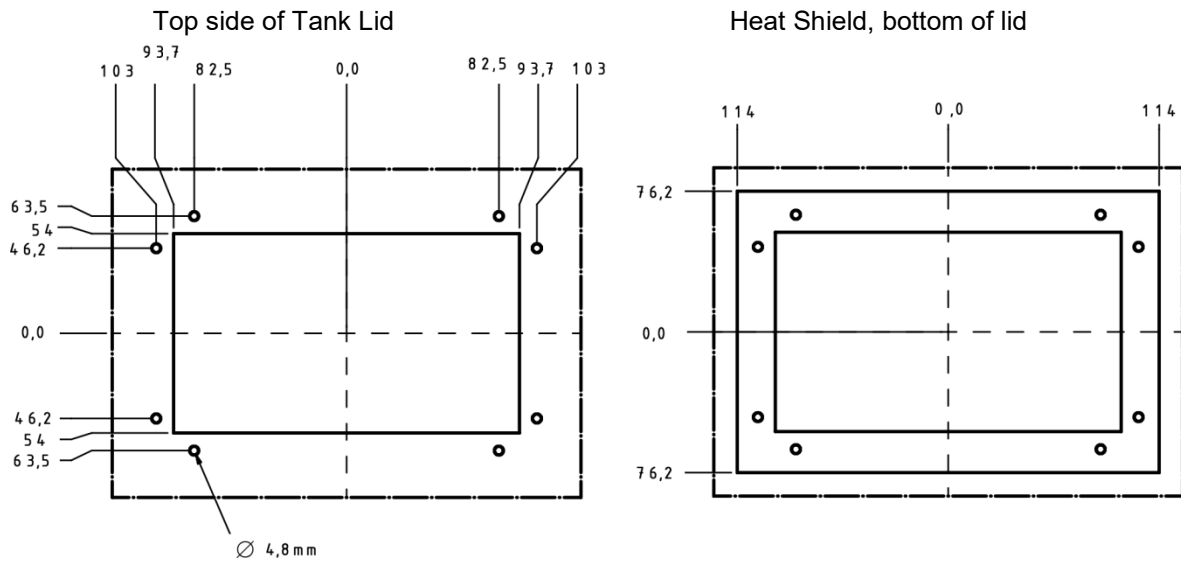
7.6.3 ADS1 Generic Lid Adapter Kit

Dimensions shown are for determining if the ADS1 will fit your application.

Note: The standard 9" (229 mm) long probe is included with the ADS1 Kit.



7.6.4 ADS1 Generic Lid Modification



The drawing on this page (PN 116161) is not to scale. It shows modifications required for both the top of the hopper lid and the bottom of the heat shield.

A full scale copy of drawing 116161 is supplied with the adapter kit for use as a template for modifying the top of the hopper lid.

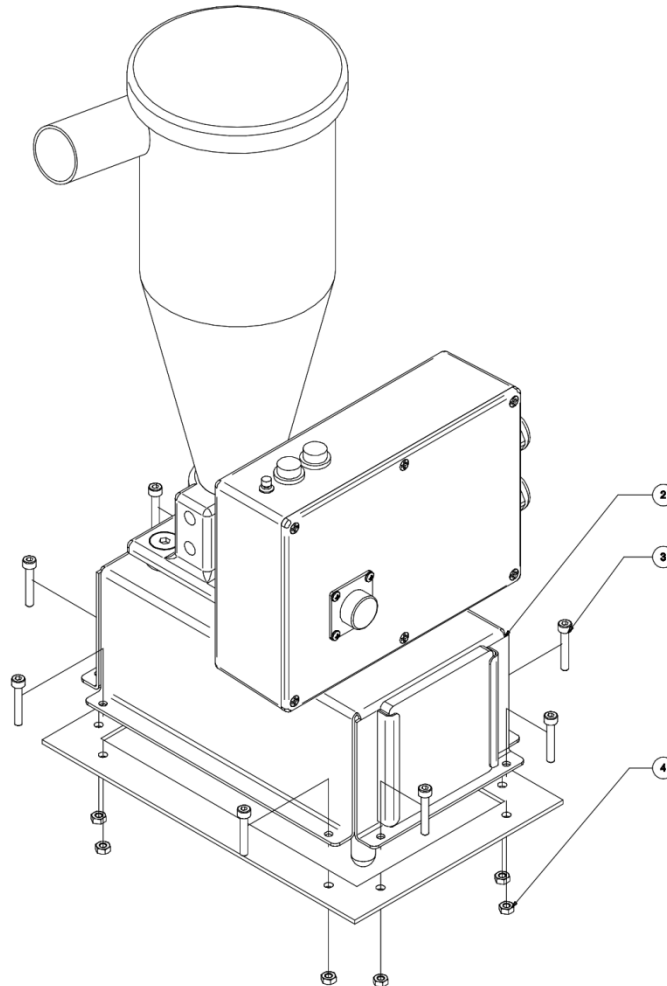
Procedure

1. Cut 4 1/4" [108mm] x 7 3/8" [187mm] rectangular opening through both lid and heat shield.
2. Drill eight 3/16" [4.75mm] diameter holes through both lid and heat shield.
3. Required modifications to the heat shield to clear the discharge housing mounting hardware:
 - a. Either, drill eight 1/2" [13mm] diameter clearance holes through the heat shield concentric to the 3/16" [4.8mm] diameter mounting holes. These holes will provide clearance for a 7mm socket.
 - b. Or, cut a 9" [102mm] X 6" [152mm] rectangular hole through the heat shield.

7.6.5 Installation

Install discharge housing to the lid with eight M4 stainless socket head cap screws and eight M4 stainless nuts with captive star washers (hardware supplied).

PN 116162 ADS1 Housing assembly, Installation Drawing



Item	PN	Description	Qty
1	116161	Drill template (not shown)	-
2	116163	ADS1 Housing Assembly	1
3	106199	Screw M4 x 25 mm, stainless	8
4	116160	Self-locking hex nut M4	8

Revisions

Revisions	Chapter/ Page #	Update Description
Rev.4.18	18	Update Specifications. Smart Number Matrix added.
	35	Rec. Spare Parts List = Level Control Assembly 240V (contains PCB) PN 121597 added. Options = Adhesive Container Tilt Assembly PN 108311 + Bulk Adhesive Transfer Tower PN 112223 removed.
	38	Major Components = Level Control Assembly 240V (contains PCB) PN 121597 added.
	39	PN 114881 Feed Wand Assembly new drawing.
	40	PN 114879 Dynamelt S05/S10 Housing Assembly new drawing.
	41	PN 114875 Dynamelt S22/S45 Housing Assembly and PN 120995 Dynamelt D25/45 V6 Housing Assembly new drawings.
	42	PN 114876 DynaPack Housing Assembly new drawing.
	43	PN 815985 Dynamelt M Housing Assembly new drawing.
	44	PN 815982 Dynamelt M Lid Assembly new drawing.
	45	PN 115159 ADS1 NDSN Housing Assembly new drawing.
	App.1	ADS1 Adapter kits list updated.
	App.2	PN 116163 ADS1Generic Housing Assembly new drawing.
	App.7	Accessory: Bulk Adhesive Transfer Tower removed. Revisions added.
Rev.2.19	App.1	Following optional kits eliminated: (1) ADS1 NDSN3500-1, (2) ADS1-NDSN3900P-1, (3) ADS1-NDSNTG09-1, (4) ADS1-PROBILT 20-1, (5) ADS1-SLB-KB50/100-1.
Rev.4.19	38	Tote, 55gallon with lid – new PN 826301 (Replacing 114872)
	Ch.7	New housing assemblies for 120V and 240V.
Rev.8.19	Ch.7	PN 815982 Dynamelt M Lid Assembly removed.
Rev.12.19	Ch.7	NDSN PB7/10 Housing Assembly, 120V, PN 115454 added. NDSN PB7/10 Housing Assembly, 240V, PN 826297 updated
Rev.1.22	Ch.7	All ADS1 drawings updated. PN 115159 ADS1 NDSN D25 Housing Assembly removed.
	Ch.6.1	Probe Insulator Kit, PN 827479 added.
Rev.4.22	Ch.3.2	Some values and their units in Ch. Description updated.
Rev.6.23	Ch.4.2	Level Calibration, steps 1 and 2 updated.
Rev.7.23	P.1	Manual language added.
	Ch.7.2	Tote, 55gallon with lid – PN 826301 replaced by 114872.
Rev.11.23	Ch.3.2.5	Compatibility of ADS1 Systems added.
Rev.5.24	Ch.6.2	The content of the Filter Kit 109324 added.
Rev.7.24	Ch.6.2	An assembly drawing to the filter kit 109324 added.

ITW Dynatec Service Parts and Technical Service:

AMERICAS	EUROPE, MIDDLE EAST & AFRICA	ASIA PACIFIC	
ITW Dynatec 31 Volunteer Drive Hendersonville, TN 37075 USA Tel. +1.615.824.3634 info@itwdynatec.com service@itwdynatec.com	ITW Dynatec Industriestrasse 28 40822 Mettmann Germany Tel. +49.2104.915.0 info@itwdynatec.de service@itwdynatec.de	ITW Dynatec No 2, Anzhi Street SIP, Suzhou, 215122 China Tel. +86.512.6289.0620 info@itwdynatec.cn service@itwdynatec.cn	ITW Dynatec Tsukimura Building 5th Floor 26-11, Nishikamata 7-chome Ota-ku, Tokyo 144-0051, Japan Tel. +81.3.5703.5501 info@itwdynatec.co.jp service@itwdynatec.co.jp