

Teleflex Medical
IDA Business & Technology Park
Dublin Road, Athlone
Westmeath, Ireland

21st May 2020

URGENT – FIELD SAFETY NOTICE

| Type of Action | Advisory |
|--------------------|------------|
| Teleflex Reference | EIF-000400 |

| Model Information | Product Name | Product Code | Serial Numbers |
|--|-----------------------------|-----------------|-------------------|
| Arrow® AutoCAT®2 Intra-Aortic Balloon Pump | AUTOCAT 2 | IAP-0400 | |
| Arrow® AutoCAT®2 Intra-Aortic Balloon Pump | AUTOCAT2 SPANISH | IAP-0400E | |
| Arrow® AutoCAT®2 Intra-Aortic Balloon Pump | AUTOCAT2 WAVE | IAP-0500 | |
| Arrow® AutoCAT®2 Intra-Aortic Balloon Pump | AUTOCAT2 WAVE SPANISH | IAP-0500E | |
| Arrow AutoCAT 2 Intra-Aortic Balloon Pump | AUTOCAT2 WAVE ITALIAN | IAP-0500I | |
| Arrow® AutoCAT®2 Intra-Aortic Balloon Pump | AUTOCAT2 WAVE JAPANESE | IAP-0500J | See Appendix |
| Arrow® AutoCAT®2 Intra-Aortic Balloon Pump | AUTOCAT2 WAVE DUTCH | IAP-0500NL | 2 |
| Arrow® AutoCAT®2 Intra-Aortic Balloon Pump | AEROAUTOCAT 2 WAVE | IAP-0535 | |
| Arrow [®] AC3 Optimus [®] Intra-Aortic Balloon Pump | AC3 Optimus IABP NA/EMEA | IAP-0700 | |
| Arrow® AC3 Optimus® Intra-Aortic Balloon Pump | AC3 Optimus IABP NA/AJLA | IAP-0701 | |

Dear Customer,

Teleflex has initiated a voluntary Field Safety Corrective Action for the above listed product codes and serial numbers of specific models of the Arrow® AutoCAT®2 Intra-Aortic Balloon Pump and the Arrow® AC3 Optimus® Intra-Aortic Balloon Pump (collectively referred to as "IABP"), which are intra-aortic balloon pump systems that provide temporary circulatory support for patients with a variety of acute and sub-acute circulatory conditions.

Description of the problem & immediate actions required

A potential issue with a component ("Component") within the above-referenced IABPs may impact the ability of the devices to operate. A Component within the IABP is susceptible to vibration failure resulting in fretting, charring, and discoloration of motor connector wires, which may result in pump alarms for "System Error 3" and "High Baseline" presented on the screen of the IABP, and potential abrupt cessation of function or inability to start the IABP. The potential for this issue to occur is related to aging of the Component; therefore, IABPs will be addressed by age, and execution will consist of immediate, subsequent, and long-term corrective actions.

To date, there have been no reports of a sudden stoppage without a prior "System Error 3" or "High Baseline" alarm indicative of deterioration of the Component. However, the absence of prior alarms does not ensure that the IABP is not affected by this problem. If a patient requires circulatory support with an IABP and the device does not work, or if therapy abruptly stops during use without a replacement IABP available, device failure may result in immediate and serious health consequences, including death.

Teleflex is issuing this Medical Device Correction to address the potential failure. Our records indicate that you have received products that are subject to this action.



Depending on your device location please adhere to the following Action list:

| Device location | Action List Number |
|--------------------|--------------------|
| Medical facilities | 1 |
| Distributors | 2 |

Action list number 1 - Medical facilities

Detection:

"System Error 3" and "High Baseline" alarms, which present on the screen of the device, are indications of imminent failure of the pump. The Component is the motor driver connector, an internal component that is typically white in colour and is only visible during servicing that should be done only by trained company personnel.

Customer Action (Immediate):

Please immediately check your inventory of Arrow® AutoCAT® and Arrow® AC3 Optimus® IABPs, whether stored or in use, and determine if you have an IABP with a model number listed above. Please see Appendix 2 for product codes and serial numbers.

If an IABP in the scope of this Medical Device Correction displays a "System Error 3" or "High Baseline" alarm, now or at any point in the future until the Customer Action (Long Term) detailed below occurs, immediately quarantine the device and contact Teleflex at +353014370773 or recalls.intl@teleflex.com to receive support for inspection and servicing of the impacted device.

We recommend against using an IABP for ground or air transport between medical facilities pending implementation of the Customer Action (Long Term). For IABP use during ground or air transport prior to implementation of the Customer Action (Long Term), it is recommended that the risks and benefits of using the IABP be assessed by the medical team treating the patient and that alternative circulatory support devices be considered.

Customer Action (Subsequent):

Teleflex will contact each impacted facility to schedule inspection and servicing of all IABP units that contain this internal component. This inspection and servicing will be performed onsite at facilities, for all IABP units.

Facilities should adhere to the following instructions pending implementation of the Customer Action (Long Term) described later in this letter:

- Ensure that a backup IABP is available as instructed within the Operator Manual. If no such replacement IABP is immediately available, it is recommended that the risks and benefits of using the IABP be assessed by the medical team treating the patient and that alternative circulatory support devices be considered.
- 2. IABP units should be closely monitored during delivery of IABP therapy.
- **3.** As stated in the Arrow AutoCAT 2 Intra-Aortic Balloon Pump / Arrow AC3 Optimus Intra-Aortic Balloon Pump Operator Manuals, if pump shutdown is experienced:

Pump shutdown requires immediate staff action. Note the time and call knowledgeable maintenance personnel.



If pumping cannot be restored within 15-30 minutes, manually inflate and deflate the IAB several times per hour to reduce the risk of thrombus formation. Consider removing the balloon. Arrow International recommends that you have a back-up IABP system available.

- 4. A copy of this notice should be kept with each IABP at all times until complete implementation of the below Customer Action (Long Term).
- 5. If "System Error 3" and "High Baseline" alarms are experienced at a later time, quarantine the device for inspection taking into consideration the use of available alternative therapies, and adhering to the instructions under the above heading "ACTIONS TO BE TAKEN BY FACILITIES"

Customer Action (Long Term):

Teleflex has initiated a new design of the motor connector Component that will be released this year. Teleflex will replace the existing Component with the new design in all IABPs at all facilities. At the time the proposed modification is ready for implementation, a subsequent notification will be sent to all impacted customers to schedule and commence replacement of the Component. Any facilities which have a previously serviced IABP under the scope of this Medical Device Correction will be revisited to install the new design of the motor connector Component in a subsequent visit from Teleflex personnel.

Action list number 2 – Distributors

- **1.** Read the Customer Action list number 1 above to ensure you understand the customer requirements.
- **2.** Provide this field safety notice to all customers who have received product in scope of this FSCA. Your customer is then required to complete the acknowledgement form and return toyou.
- 3. We request that you check your inventory for product within the scope of this FSCA.
- **4.** Affix a copy of this notice to each individual unit prior to onward distribution.
- **5.** Liaise with Teleflex per the contact details below to ensure each of your customers is being supported initially with the immediate action required, the subsequent actions and the longer-term action.
- **6.** As a distributor, you are then required to confirm to Teleflex that you have completed the field activity outlined above. Upon completion of your actions, please forward the completed Acknowledgement Form to Customer Service.
- 7. Please be aware that all European Economic Area/Switzerland (EEA/CH) and Turkey Member State Competent Authorities in which Teleflex distribute directly will be notified by Teleflex.
- **8.** If you have further distributed product outside of your country, please notify Teleflex by return email to the e-Mail address below.
- **9.** If you are a distributor and/or have a reporting responsibility within or outside the EEA/CH/TR region, please notify your local Competent Authority of this action. Please forward the notification and all communication with your local competent authority to Teleflex.

Teleflex

Teleflex informs all customers, employees of Teleflex and distributors of this Field Safety Corrective Action.

Transmission of this Field Safety Notice

This notice should be passed on to all persons who need to be aware within your organisation or to any organisation where the potentially affected devices have been transferred. Please consider end users, clinicians, risk managers, supply chain/distribution centres etc. in the circulation of this notice. Maintain awareness of this notice until all required actions have been completed in your organisation.



Contact reference person

Should you require any further information or support concerning this issue, please contact:

Customer Service:

Contact: Shane Kenny Telephone: +353 0 90 64608769

FAX: +353 0 14370773 Email: recalls.intl@teleflex.com

Please be advised that all Economic Area/Switzerland (EEA/CH) and Turkey Member State Competent Authorities to which Teleflex distribute directly will be notified by Teleflex. Teleflex is committed to providing high quality, safe and effective products. We sincerely apologise for any inconvenience this action may cause your operations. If you have any other questions, feel free to contact your local sales representative or Customer Service.

For and on behalf of Teleflex,

Padraig Hegarty

Vice President, Global Quality Assurance (Manufacturing)



Appendix 1

DATE

Customer No

FIELD SAFETY CORRECTIVE ACTION ACKNOWLEDGEMENT FORM

PRODUCT FIELD ACTION BY TELEFLEX – IMMEDIATE ATTENTION REQUIRED

Ref. EIF-000400

Arrow[®] AutoCAT[®]2 Series Intra-Aortic Balloon Pump and Arrow[®] AC3 Optimus[®] Intra-Aortic Balloon Pump

RETURN COMPLETED FORM IMMEDIATELY TO:

FAX: +353 0 14370773 Email: recalls.intl@teleflex.com ☐ We confirm receipt of this FSN ☐ We confirm receipt of this FSN and confirm our inventory **DOES** and have completed the required include products affected by this Field Action. We have guarantined any IABP units displaying "System Error 3" or actions contained therein. We confirm that our inventory does "High Baseline" alarms. We understand Teleflex will contact our facility to schedule onsite inspection and servicing of all IABP units. **NOT** include products affected by this Field Action. Location Quantity of IABP at Facility PLEASE PRINT PRODUCT QUANTITY NUMBERS CLEARLY Has IABP displayed "System Error Has IABP been removed **Serial Number** 3" or "High Baseline" alarm? from service? Yes ☐ No Yes ☐ No Yes No Yes No □No Yes ☐ No Yes No ☐ No Yes Yes Yes No Yes ☐ No ☐ No Yes Yes ☐ No Complete this Acknowledgement form and return immediately by using fax number or e-Mail address above. INSTITUTION NAME (EG NAME OF HOSPITAL, HEALTH CARE ORGANISATION) **INSITIUTION ADDRESS** Phone/FAX **FORM COMPLETED BY:** Stamp PRINT NAME: SIGNATURE:



Appendix 2

| MODEL INFORMATION | PRODUCT NAME | PRODUCT CODE | SERIAL NUMBER RANGE |
|---|------------------|--------------|-------------------------|
| | | | 140868V |
| | | | 140901V through 140909V |
| | | | 140914V through 140920V |
| | | | 150102V |
| | | | 150106V through 150107V |
| | | | 150110V through 150113V |
| | | | 150115V through 150116V |
| | | | 150220V |
| | | | 150401V |
| | | | 150407V |
| | | | 150409V |
| | | | 150507V through 150513V |
| | | | 150601V through 150605V |
| | | | 150608V through 150611V |
| | | | 150625V |
| | | | 150702V through 150705V |
| | | | 150707V |
| | | | 150720V |
| Arrow [®] AutoCAT [®] 2 | | | 150801V through 150802V |
| Intra-Aortic Balloon | AUTOCAT 2 | IAP-0400 | 150821V |
| Pump | | | 150824V |
| | | | 150827V through 150830V |
| | | | 150901V through 150906V |
| | | | 150908V through 150912V |
| | | | 150919V through 150923V |
| | | | 150925V through 150939V |
| | | | 151009V through 151013V |
| | | | 151015V through 151016V |
| | | | 151019V |
| | | | 151021V through 151027V |
| | | | 151029V |
| | | | 151102V through 151103V |
| | | | 151105V |
| | | | 151108V |
| | | | 151111V |
| | | | 151113V |
| | | | 151201V through 151208V |
| | | | 151210V through 151212V |
| | | | 151214V through 151218V |



| MODEL INFORMATION | PRODUCT NAME | PRODUCT CODE | SERIAL NUMBER RANGE | |
|----------------------|--------------|--|-------------------------|---------|
| | | 151220V 160101V through 160103V 160105V through 160109V 160112V through 160118V | | 151220V |
| | | | 160101V through 160103V | |
| | | | 160105V through 160109V | |
| | | | 160112V through 160118V | |
| | | | 160120V | |
| | | | 160122V | |
| | | | 160126V | |
| | | | 160201V through 160209V | |
| | | | 160211V | |
| | | | 160213V through 160214V | |
| | | | 160216V through 160217V | |
| | | | 160219V | |
| | | | 160312V through 160314V | |
| | | | 160316V through 160323V | |
| | | | 160325V through 160327V | |
| | | | 160331V | |
| | | | 160401V through 160410V | |
| | | | 160412V | |
| | | | 160418V through 160422V | |
| Arrow® AutoCAT®2 | | | 160519V | |
| Intra-Aortic Balloon | AUTOCAT 2 | IAP-0400 | 160525V | |
| Pump | AOTOCATZ | 1711 0400 | 160529V through 160530V | |
| 1 dilip | | | 160605V | |
| | | | 160614V | |
| | | | 160618V | |
| | | | 160630V | |
| | | | 160638V through 160639V | |
| | | | 160645V | |
| | | | 160703V | |
| | | | 160718V | |
| | | | 160720V | |
| | | | 160726V | |
| | | | 160728V through 160730V | |
| | | | 170101V through 170110V | |
| | | | 170401V through 170410V | |
| | | | 170501V through 170520V | |
| | | | 170601V through 170625V | |
| | | | 170811V through 170830V | |
| | | | 171021V through 171030V | |
| | | | 171037V through 171046V | |
| | | | 171106V through 171115V | |
| | | | 180131V through 180150V | |



| MODEL INFORMATION | PRODUCT NAME | PRODUCT CODE | SERIAL NUMBER RANGE |
|---------------------------------------|---------------|--------------|--|
| | | | 180211V through 180230V |
| | | | 180411V through 180420V |
| | | | 180441V through 180450V |
| | | | 180521V through 180530V |
| | | | 180621V through 180630V |
| | | | 180711V through 180720V |
| | | | 180741V through 180750V |
| | | | 180811V through 180820V |
| | | | 181011V through 181040V |
| | | | 181111V through 181130V |
| | | | 190121V through 190130V |
| | | | 190141V through 190150V |
| | | | 190211V through 190220V |
| | AUTOCAT 2 | IAD 0400 | 190411V through 190420V |
| | AUTUCAT 2 | IAP-0400 | 190431V through 190440V |
| | | | 190531V through 190540V |
| | | | 190701V through 190712V |
| | | | 190737V through 190748V |
| | | | 190737V through 190748V 190813V through 190824V 190837V through 190848V 190913V through 190924V |
| A | | | 190837V through 190848V |
| Arrow® AutoCAT®2 Intra-Aortic Balloon | | | 190913V through 190924V |
| Pump | | | 190937V through 190948V |
| rump | | | 191001V through 191012V |
| | | | 191025V through 191036V |
| | | | 191101V through 191112V |
| | | | 191137V through 191148V |
| | | | 200113V through 200136V |
| | | | 200314V through 200324V |
| | | | 150301V |
| | AUTOCAT2 | | 160119V |
| | SPANISH | IAP-0400E | 160429V through 160430V |
| | | | 160634V |
| | | | 160643V |
| | | | 140861W through 140865W |
| | | | 140910W through 140913W |
| | | | 150101W |
| | | | 150103W through 150105W |
| | AUTOCAT2 WAVE | IAP-0500 | 150108W through 150109W |
| | | | 150114W |
| | | | 150119W |
| | | | 150202W through 150219W |
| | | | 150303W |



| MODEL INFORMATION | PRODUCT NAME | PRODUCT CODE | SERIAL NUMBER RANGE |
|---------------------------------------|------------------|--------------|-------------------------|
| | | | 150306W |
| | | | 150310W |
| | | | 150404W through 150406W |
| | | | 150410W |
| | | | 150501W through 150506W |
| | | | 150515W |
| | | | 150606W through 150607W |
| | | | 150612W through 150622W |
| | | | 150701W |
| | | | 150706W |
| | | | 150708W through 150712W |
| | | | 150717W through 150719W |
| | | | 150803W through 150820W |
| | | | 150822W through 150823W |
| | | | 150825W |
| | | | 150913W through 150918W |
| | | | 150924W |
| | | | 150940W |
| | | | 151001W through 151008W |
| | | LAD 0500 | 151017W through 151018W |
| Arrow® AutoCAT®2 Intra-Aortic Balloon | 41170047334/43/5 | | 151020W |
| Pump | AUTOCAT2 WAVE | IAP-0500 | 151028W |
| rump | | | 151109W |
| | | | 151112W |
| | | | 151115W through 151120W |
| | | | 160104W |
| | | | 160110W through 160111W |
| | | | 160121W |
| | | | 160123W through 160125W |
| | | | 160127W through 160130W |
| | | | 160210W |
| | | | 160212W |
| | | | 160215W |
| | | | 160218W |
| | | | 160220W |
| | | | 160301W through 160304W |
| | | | 160307W through 160311W |
| | | | 160315W |
| | | | 160324W |
| | | | 160328W through 160330W |
| | | | 160332W through 160340W |
| | | | 160411W |



| MODEL INFORMATION | PRODUCT NAME | PRODUCT CODE | SERIAL NUMBER RANGE |
|---|---------------|--------------|-------------------------|
| | | | 160413W through 160417W |
| | | | 160423W through 160424W |
| | | | 160428W |
| | | | 160501W through 160502W |
| | | | 160504W through 160507W |
| | | | 160520W through 160524W |
| | | | 160526W through 160528W |
| | | | 160601W through 160604W |
| | | | 160606W through 160613W |
| | | | 160615W through 160617W |
| | | | 160620W through 160629W |
| | | | 160632W through 160633W |
| | | | 160701W through 160702W |
| | | | 160704W |
| | | | 160706W through 160713W |
| | | | 160716W through 160717W |
| | | | 160719W |
| | | | 160721W through 160725W |
| | | | 160727W |
| Arrow [®] AutoCAT [®] 2 | | | 160734W through 160742W |
| Intra-Aortic Balloon | AUTOCAT2 WAVE | IAP-0500 | 160744W through 160745W |
| Pump | | | 160801W through 160803W |
| | | | 160805W through 160823W |
| | | | 160825W through 160827W |
| | | | 160829W through 160830W |
| | | | 160901W through 160917W |
| | | | 160920W through 160945W |
| | | | 170201W through 170203W |
| | | | 170207W through 170208W |
| | | | 170211W through 170220W |
| | | | 170222W through 170230W |
| | | | 170301W |
| | | | 170303W through 170307W |
| | | | 170309W through 170327W |
| | | | 170329W through 170330W |
| | | | 170606W through 170610W |
| | | | 170921W through 170927W |
| | | | 170929W through 170930W |
| | | | 170941W through 170950W |
| | | | 171101W through 171104W |
| | | | 171118W |
| | | | 171202W through 171205W |



| MODEL INFORMATION | PRODUCT NAME | PRODUCT CODE | SERIAL NUMBER RANGE | |
|----------------------|-----------------------|--------------|---|--|
| | | | 180111W through 180119W | |
| | | | 180302W through 180308W | |
| | | | 180310W | |
| | | | 180331W through 180332W | |
| | | | 180334W through 180340W | |
| | | | 180501W through 180510W | |
| | | | 180531W through 180540W | |
| | | | 180611W through 180620W | |
| | | | 180721W through 180730W | |
| | | | 180751W through 180760W | |
| | | | 180831W through 180839W | |
| | | | 180932W through 180938W | |
| | | | 180940W through 180941W | |
| | | | 181051W through 181053W | |
| | AUTOCAT2 WAVE | IAP-0500 | 181055W | |
| | TO SOME WAVE | 5555 | 190111W through 190118W | |
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| Arrow® AutoCAT®2 | | | | |
| Intra-Aortic Balloon | | | | |
| Pump | | | | |
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| | | | 180111W through 180119W 180302W through 180308W 180310W 180331W through 180332W 180334W through 180340W 180501W through 180510W 180531W through 180540W 180611W through 180620W 180721W through 180730W 180751W through 180760W 180831W through 180839W 180932W through 180938W 180940W through 180941W 181051W through 181053W | |
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| | ALITOCATA MANE | | | |
| | AUTOCAT2 WAVE SPANISH | IAP-0500E | | |
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| MODEL INFORMATION | PRODUCT NAME | PRODUCT CODE | SERIAL NUMBER RANGE | |
|---------------------------------------|----------------------|--------------|---|--|
| | | | 160631W | |
| | | | 160637W | |
| | | | 160642W | |
| | | | 160644W | |
| | | | 160705W | |
| | | | 160919W | |
| | | | 170204W through 170206W | |
| | | | 170221W | |
| | | | 170308W | |
| | | | 170328W | |
| | AUTOCAT2 WAVE | IAP-0500E | 170928W | |
| | SPANISH | IAP-USUUE | 171116W | |
| | | | 180333W | |
| | | | 160631W 160642W 160644W 160705W 160919W 170204W through 170206W 170321W 170328W 170328W 170116W 180333W 180840W 181056W through 181060W 190229W 190512W 190512W 190514W 190519W 190631W through 190633W 160619W 160828W 170302W 180309W 140866W through 170210W 170302W 180309W 15017W through 140867W 15017W through 150118W 150120W 150305W 150307W through 150309W 150623W through 150624W 150713W through 150716W 151114W 151209W | |
| | | | 180939W | |
| | | | 181054W | |
| | | | 181056W through 181060W | |
| | | | 190229W | |
| | | | 190512W | |
| A | | | 190514W | |
| Arrow® AutoCAT®2 Intra-Aortic Balloon | | | 190519W | |
| Pump | | | 190631W through 190633W | |
| - ump | | | 160516W | |
| | | | 160619W | |
| | AUTOCAT2 WAVE | | 160804W | |
| | ITALIAN | IAP-0500I | 160828W | |
| | ITALIAN | | 170209W through 170210W | |
| | | | 170302W | |
| | | | 1 | |
| | | | | |
| | | | 150117W through 150118W | |
| | | | 150120W | |
| | | | 150201W | |
| | | | 150305W | |
| | AUTOCAT2 WAVE | | 150307W through 150309W | |
| | JAPANESE | IAP-0500J | _ | |
| | J , | | _ | |
| | | | 151114W | |
| | | | 151209W | |
| | | | 151213W | |
| | | | 151219W | |
| | | | 160503W | |



| MODEL INFORMATION | PRODUCT NAME | PRODUCT CODE | SERIAL NUMBER RANGE |
|----------------------|---------------|--------------|---|
| | | | 160511W through 160515W |
| | | | 160517W |
| | | | 160635W through 160636W |
| | | | 160640W through 160641W |
| | | | 160731W through 160733W |
| | AUTOCAT2 WAVE | IAP-0500J | 171105W |
| | JAPANESE | | 171117W |
| | | | 171119W through 171120W |
| | | | 160511W through 160515W 160517W 160635W through 160636W 160640W through 160641W 160731W through 160733W 171105W 171117W 171119W through 171120W 180120W 180301W 160714W through 160715W 160918W 151030W 151101W 151104W 151106W 160305W through 160306W 160743W 160824W 190119W through 190120W 190221W 190223W through 190226W 191047W 150315F 150315F 150315F 150318F 150324F through 150326F 161101F through 161110F 161112F through 161120F 161201F through 161210F |
| | | 180120W | 180120W |
| | | | 180301W |
| Arrow® AutoCAT®2 | AUTOCAT2 WAVE | | 160714W through 160715W |
| Intra-Aortic Balloon | DUTCH | IAP-0500NL | 160918W |
| Pump | | | 150907W |
| | | | 151030W |
| | | | 151101W |
| | | | 151104W |
| | | | 151106W |
| | AEROAUTOCAT 2 | | 160305W through 160306W |
| | WAVE | IAP-0535 | 160743W |
| | | | 160824W |
| | | | 190119W through 190120W |
| | | | 190221W |
| | | | 190223W through 190226W |
| | | | 191047W |
| | | | 150312F through 150313F |
| | | | 150315F |
| | | | 150318F |
| | | | 150321F |
| | | | 150324F through 150326F |
| | | | 161101F through 161110F |
| | | | 161112F through 161120F |
| Arrow® AC3 Optimus® | | | 161201F through 161210F |
| Intra-Aortic Balloon | AC3 Optimus | IAP-0700 | 170101F through 170120F |
| Pump | IABP NA/EMEA | | 170701F through 170710F |
| | | | 170801F through 170810F |
| | | | 170901F through 170920F |
| | | | 170931F through 170940F |
| | | | 171002F through 171010F |
| | | | 171031F through 171036F |
| | | | 171126F through 171130F |
| | | | 180101F through 180105F |



| MODEL INFORMATION | PRODUCT NAME | PRODUCT CODE | SERIAL NUMBER RANGE |
|----------------------|--------------|--------------|-------------------------|
| | | | 180121F through 180125F |
| | | | 180201F through 180210F |
| | | | 180311F through 180330F |
| | | | 180401F through 180410F |
| | | | 180421F through 180425F |
| | | | 180431F through 180440F |
| | | | 180511F through 180520F |
| | | | 180601F through 180605F |
| | | | 180701F through 180710F |
| | | | 180801F through 180810F |
| | | | 180821F through 180825F |
| | | | 180922F through 180931F |
| | | | 181041F through 181050F |
| | | | 181101F through 181110F |
| | | | 181201F through 181210F |
| | | | 190101F through 190110F |
| | | | 190131F through 190135F |
| | | | 190201F through 190210F |
| | | | 190231F through 190250F |
| Arrow® AC3 Optimus® | | | 190301F through 190303F |
| Intra-Aortic Balloon | AC3 Optimus | IAP-0700 | 190305F through 190320F |
| Pump | IABP NA/EMEA | 1711 0700 | 190331F through 190335F |
| | | | 190401F through 190410F |
| | | | 190421F through 190430F |
| | | | 190441F through 190450F |
| | | | 190501F through 190510F |
| | | | 190541F through 190550F |
| | | | 190601F through 190620F |
| | | | 190641F through 190645F |
| | | | 190713F through 190730F |
| | | | 190801F through 190812F |
| | | | 190826F through 190834F |
| | | | 190901F through 190912F |
| | | | 190925F through 190930F |
| | | | 191013F through 191018F |
| | | | 191037F through 191042F |
| | | | 191049F through 191054F |
| | | | 191113F through 191136F |
| | | | 191201F through 191212F |
| | | | 200101F through 200106F |
| | | | 200137F through 200148F |
| | | | 200201F through 200212F |



| MODEL INFORMATION | PRODUCT NAME | PRODUCT CODE | SERIAL NUMBER RANGE |
|---|-----------------------------|--------------|-------------------------|
| Arrow [®] AC3 Optimus [®] Intra-Aortic Balloon Pump | AC3 Optimus IABP NA/EMEA | IAP-0700 | 200301F through 200306F |
| | | | 200325F through 200326F |
| | | | 200328F through 200339F |
| | | | 200341F through 200348F |
| | AC3 Optimus IABP NA/AJLA | IAP-0701 | 170831F through 170840F |
| | | | 171011F through 171020F |
| | | | 171121F through 171125F |
| | | | 180106F through 180110F |
| | | | 180126F through 180130F |
| | | | 180426F through 180430F |
| | | | 180606F through 180610F |
| | | | 180731F through 180740F |
| | | | 180826F through 180830F |
| | | | 180901F through 180910F |
| | | | 180912F through 180921F |
| | | | 181001F through 181010F |
| | | | 190136F through 190140F |
| | | | 190336F through 190340F |
| | | | 190646F through 190650F |
| | | | 190731F through 190736F |
| | | | 190931F through 190936F |
| | | | 191019F through 191024F |
| | | | 191055F through 191060F |
| | | | 200107F through 200112F |
| | | | 200308F through 200311F |