

DEV NUMBER:  
DEV25-0026

ORIGINATOR:  
Xavier Vela Lopez

DATE:  
28-Jan-25

DEV25-0026

28-Jan-25

DMR# (IF APPLICABLE):

DEVIATION  
NEW ☒  
TYPE: EXTENSION ☐ OF DEV#:

TOP-LEVEL SKU P/N(S) AND MODEL NUMBER(S):  
A8860010,A8860015,A8860020,A8860025,A8860030,A8860040,A8860050

EFFECTIVITY DATE:  
28-Jan-25

EXPIRATION DATE:  
28-Apr-25

PROJECT NAME OR NO. (OPTIONAL):

REASON FOR DEVIATION:  
Allow for the models to run at a different installation torque that what's stated in specification in their respective drawing's current specification is 21 ft-lbs +/- 4 ft-lbs.  
Proposed deviated specification intallation torque of 14 +/- 2 ft-lbs and break away of 8ft-lbs Minimum. This is due to the driving equipment was updated to an electrical driver and the higher limit of that equipment is capped at 16 ft-lbs. This course of action was selected as a new model of regulator that will replace the current models is set to be released in the following months and this model will no longer be produced.

RISK ASSESSMENT/ CORRECTIVE ACTION PLAN (NAMES & DATES)/ COMMITMENT:  
Low: Testing has showed that material build to this specification had a lower break but didnt show any adverse effects to the function of the part. Scatterplot below show that current relationship bettween torque and breakaway specification is maintained assuring correct assembly also showed analisys of breakaway at the proposed instalation torque. PCO where builds are documented is 29751 & 29697.  
  
Action Plan:  
- Release replacing models of current regulator models 4/25/25 Arimex Facility

DRAWING NUMBER:115658  
DRAWING REVISION:B  
DEVIATION REVISION:B1  
DRAWING TITLE/ PART DESCRIPTION:PSI-M15,PRESS REG 2-22GPM  
VENDOR:Arimex

DRAWING NUMBER:115659  
DRAWING REVISION:B  
DEVIATION REVISION:B1  
DRAWING TITLE/ PART DESCRIPTION:PSI-M20 PRESS REG 2-22GPM  
VENDOR:Arimex

DRAWING NUMBER:115661  
DRAWING REVISION:C  
DEVIATION REVISION:C1  
DRAWING TITLE/ PART DESCRIPTION:PSI-M30 PRESS REG 2-22GPM  
VENDOR:Arimex

DRAWING NUMBER:115662  
DRAWING REVISION:C  
DEVIATION REVISION:C1  
DRAWING TITLE/ PART DESCRIPTION:PSI-M40,PRESS REG 2-22GPM  
VENDOR:Arimex

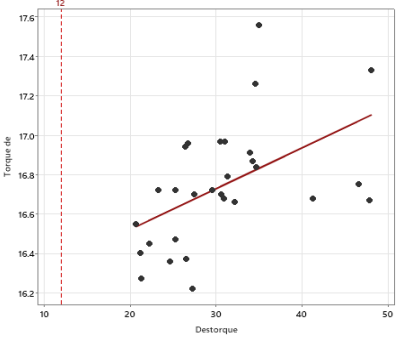
DRAWING NUMBER:115663  
DRAWING REVISION:B  
DEVIATION REVISION:B1  
DRAWING TITLE/ PART DESCRIPTION:PSI-M50,PRESS REG 2-22GPM  
VENDOR:Arimex

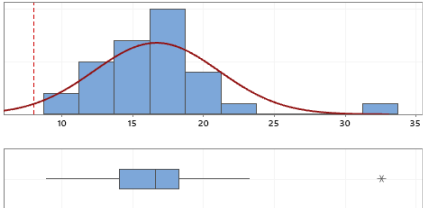
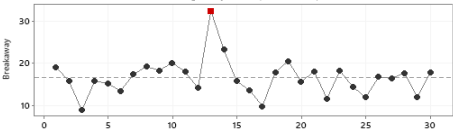
PLANT MANAGER  
Jorge Borquez

SBU PRODUCT MGR. OR SBU ENG. MGR  
Nicole Ridley / Stacey Webb

OTHER:  
Victor Rojo

IS: 2. ITEM 4 TO HAVE AN INSTALLATION TORQUE OF 14 FT-LBS  
+/- 2 FT-LBS REVERSE TORQUE SHOULD BE 8 FT-LBS MIN  
AND MONITORED NO LATER THAN 12 HOURS AFTER ASSEMBLY.

Scatterplot of Torque de vs Destorque  
Summary Report  
X-Y Relationship  
Examine the relationship and look for patterns.  
  
Statistics  
Torque de Destorque  
N 30 30  
Mean 16.745 30.857  
StDev 0.30307 7.4740  
Minimum 16.22 20.7  
Maximum 17.56 48.1  
Fitted Lines  
Linear Quadratic  
Identify the simplest fit for your data.  
Double-click the line on the large graph to change the fit.

Graphical Summary of Breakaway  
Summary Report  
Distribution of Data  
Examine the center, shape, and variability.  
  
Descriptive Statistics  
N 30  
Mean 16.717  
StDev 4.4063  
Minimum 8.9  
5th percentile 9.45  
25th percentile 14.075  
Median 16.65  
75th percentile 18.325  
95th percentile 27.485  
Maximum 32.6  
95% Confidence Intervals  
Mean (15.071, 18.362)  
Median (15.391, 18.077)  
StDev (3.5092, 5.9234)  
Normality Test  
Decision Fail  
P-value 0.039  
Data in Worksheet Order  
Investigate any outliers (marked in red).  


WAS: 2. ITEM 4 TO HAVE AN INSTALLATION TORQUE OF 21 FT-LBS  
±4 FT-LBS. REVERSE TORQUE SHOULD BE 12 FT-LBS MIN  
AND MONITORED NO LATER THAN 12 HOURS AFTER ASSEMBLY.

BUSINESS UNIT (SBU and PLANT) W/ PRIMARY DESIGN CONTR>>>AG

025 OTY

AFFECTED MFG PLANTS (WHERE USED):

005 LAM 013S STL 025 OTY 041 NOG  
008 BUY 019 AZU 028 TUC 047 TUC  
013E EEX 020MX NMD 026 ELG CHINA

APPROVALS (ALL REQUIRED):

QUALITY MGR. OR QUALITY ENG.  
Indira Aragon

MANUFACTURING ENGINEER  
Jorge Luis Flores

PROD. ENG. MGR. OR PLANT ENG. MGR  
Paul Dibene / Xavier Vela

BUYER OR BUYER/PLANNER  
Sergio Herrera

PLANT MANAGER  
Jorge Borquez

SBU PRODUCT MGR. OR SBU ENG. MGR  
Nicole Ridley / Stacey Webb

OTHER:  
Victor Rojo

QUALITY DIRECTOR (REQUIRED FOR BACK-TO-BACK DEVIATIONS)

DEV NUMBER: DEV25-0026

ORIGINATOR: Xavier Vela Lopez

DATE: 28-Jan-25

RAIN BIRD

DEVIATION FORM (DRAWING)

FORM#233813-01 REV: R

BUSINESS UNIT (SBU and PLANT) W/ PRIMARY DESIGN CONTR>>>AG

025 OTY

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Jorge Borquez

SBU PRODUCT MGR. OR SBU ENG. MGR  
Nicole Ridley / Stacey Webb

OTHER:  
Victor Rojo

QUALITY DIRECTOR (REQUIRED FOR BACK-TO-BACK DEVIATIONS)

Guzman, Roberto OTY 4791

**From:** Guzman, Roberto OTY 4791  
**Sent:** Tuesday, January 28, 2025 3:31 PM  
**To:** Aragon, Indira OTY 4360; Flores, Jorge Luis OTY 4610; Dibene, Paul OTY2 4687; Vela, Xavier OTY 4377; Herrera, Sergio OTY 4392; Borquez, Jorge OTY 4398; Ridley, Nicole DIS2; Webb, Stacey DIS2 3635; Rojo, Victor ELAG 4026; Guzman, Roberto OTY 4791  
**Subject:** DEV25-0026\_UpdateTorque\_Regulators  
**Attachments:** DEV25-0026\_UpdateTorque\_Regulators.xlsx

Tracking:	Recipient	Delivery	Read	Response
	Aragon, Indira OTY 4360	Delivered: 1/28/2025 3:31 PM	Read: 1/29/2025 9:58 AM	Approve: 1/29/2025 10:02 AM
	Flores, Jorge Luis OTY 4610	Delivered: 1/28/2025 3:31 PM	Read: 1/28/2025 3:35 PM	Approve: 1/28/2025 4:10 PM
	Dibene, Paul OTY2 4687	Delivered: 1/28/2025 3:31 PM		
	Vela, Xavier OTY 4377	Delivered: 1/28/2025 3:31 PM	Read: 1/28/2025 3:33 PM	Approve: 1/28/2025 3:33 PM
	Herrera, Sergio OTY 4392	Delivered: 1/28/2025 3:31 PM	Read: 1/28/2025 3:55 PM	Approve: 1/28/2025 3:55 PM
	Borquez, Jorge OTY 4398	Delivered: 1/28/2025 3:31 PM		Approve: 1/29/2025 4:15 PM
	Ridley, Nicole DIS2	Delivered: 1/28/2025 3:31 PM		
	Webb, Stacey DIS2 3635	Delivered: 1/28/2025 3:31 PM		Approve: 1/29/2025 4:00 PM
	Rojo, Victor ELAG 4026	Delivered: 1/28/2025 3:31 PM	Read: 1/29/2025 9:49 AM	Approve: 1/29/2025 9:49 AM
	Guzman, Roberto OTY 4791	Delivered: 1/28/2025 3:31 PM	Read: 1/28/2025 3:33 PM	Approve: 1/28/2025 3:34 PM

Good afternoon, team!

Please, review and approve the attached document at your earliest convenience. Use the voting buttons in the email.

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DEV25-0026

ORIGINATOR:  
Xavier Vela Lopez

DATE:  
28-Jan-25

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Xavier Vela Lopez

DATE:  
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DMR# (IF APPLICABLE):

DEVIATION NEW ☒ FALSE

TYPE: EXTENSION ☐ OF DEV#:

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DEVIATION REVISION:

DRAWING TITLE/ PART DESCRIPTION:

VENDOR:

115658

B

PSI-M15,PRESS REG 2-22GPM

Arimex

115659

B

PSI-M20 PRESS REG 2-22GPM

Arimex

115661

B

PSI-M30 PRESS REG 2-22GPM

Arimex

115662

C

PSI-M40,PRESS REG 2-22GPM

Arimex

115663

B

PSI-M50,PRESS REG 2-22GPM

Arimex

DESCRIPTION OF DEVIATION (IS/WAS CONDITION AND DRAWING ZONE FOR EACH PART NO. OR ATTACH REDLINE PRINTS):

IS: 2. ITEM 4 TO HAVE AN INSTALLATION TORQUE OF 14 FT LBS ☒ ☐ 8 FT LBS ☐ MIN AND MONITORED NO LATER THAN 12 HOURS AFTER ASSEMBLY.

WAS: 2. ITEM 4 TO HAVE AN INSTALLATION TORQUE OF 21 FT-LBS ☒ ☐ ±4 FT-LBS. REVERSE TORQUE SHOULD BE 12 FT-LBS MIN AND MONITORED NO LATER THAN 12 HOURS AFTER ASSEMBLY.

025 OTY

> > AG

AFFECTED MFG PLANTS (WHERE USED):

005 LAM ☐

013S STL ☐

025 OTY ☐

041 NOG ☐

008 BUY ☐

019 AZU ☐

028 TUC ☐

047 TUC ☐

013E EEX ☐

020MX NMD ☐

026 ELG ☐

CHINA ☐

APPROVALS (ALL REQUIRED):

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Victor Rojo

QUALITY DIRECTOR (REQUIRED FOR BACK-TO-BACK DEVIATIONS)

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Summary Report

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Examine the relationship and look for patterns.

Torque de

Destorque

Statistics

Torque de

Destorque

Fitted Lines

Linear

Quadratic

Identify the simplest fit for your data.  
Double-click the line on the large graph to change the fit.

Graphical Summary of Breakaway  
Summary Report

Distribution of Data  
Examine the center, shape, and variability.

Descriptive Statistics

Mean

Median

SDDev

Minimum

5th percentile

25th percentile

Median

75th percentile

95th percentile

Maximum

95% Confidence Intervals

Mean

Median

SDDev

Normality Test

Decision

P-value

Data in Worksheet Order  
Investigate any outliers (marked in red).

24-Hour Rule applies!

If additional information or more time is needed, please, vote "Discuss" to request it.

2

If you are not the correct Deviation approver, please, vote “Reject” to reassign it.

Regards,

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**Roberto Guzmán Vega**  
Sr. Product Engineer  
+52 (3) 333 644791  
+1 (626) 4283010, X 4791

**Ensamblés Hyson**  
Av. Industrial 333  
Sección Dorada Parque Industrial Otay  
Tijuana, México, 22500