



## PRV Registration

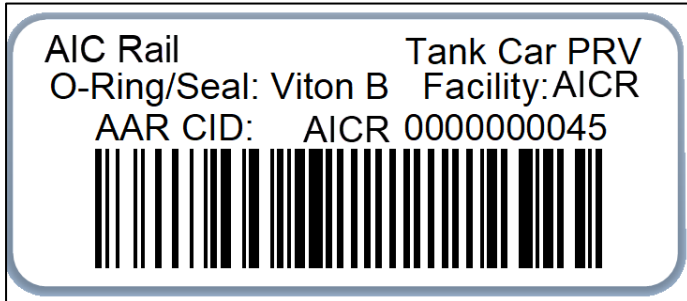
# Registration

- The process is dictated by each applicable MSRP, the Field Manual and the Office Manual
- Each component receives a unique Component ID
  - The CID consists of 4 characters (the OEM or Repair Shop's Code)
  - 10 digits
  - The CID must be unique across the entire company that uses the Code
  - Recommend separating by shop by using the first two digits
- Barcode labels must be approved by the AAR
  - Label Material
  - Label data
  - Scanability
- [Proposed S-920 for PRVs](#)
- Railinc Component Tracking Webste
  - <https://public.railinc.com/products-iservices/component-tracking>

# PRV Elements

Pressure Relief Valves			
D101	Condition Code	D110	Set Pressure (Nominal)
D102	AAR Tank Car Facility Code	D111	AAR Approval Number
D103	OEM MFG Code	D112	Service Trial Number
D104	Base Model Number	D113	Qualification Date
D105	Manufacturer Part Number	D114	Start-to-Discharge Pressure
D106	Body Material	D115	Vapor Tight Pressure
D107	Serial Number	D116	O-Ring Seal Material Applied
D108	Built / Rebuilt Month	D117	AAR Group
D109	Built / Rebuilt Year		

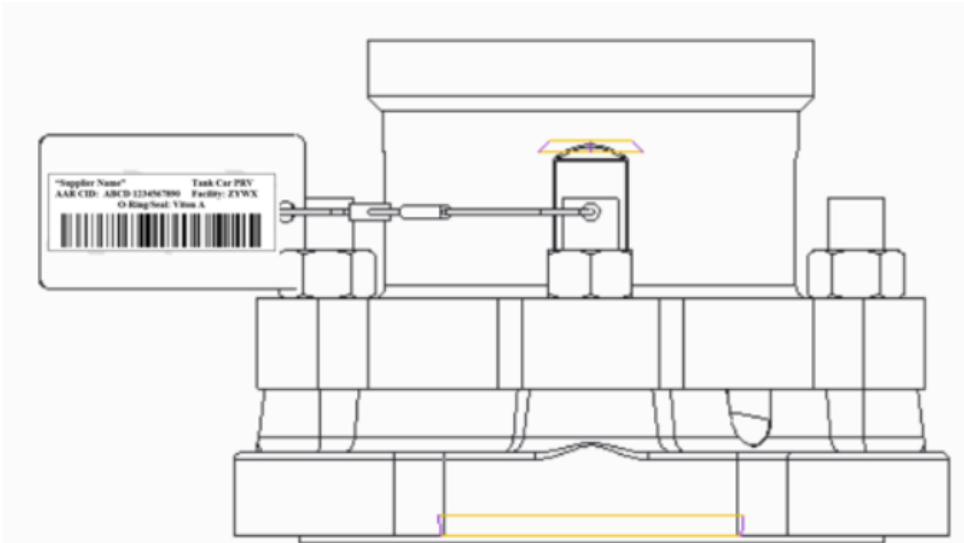
# Labels & Tags



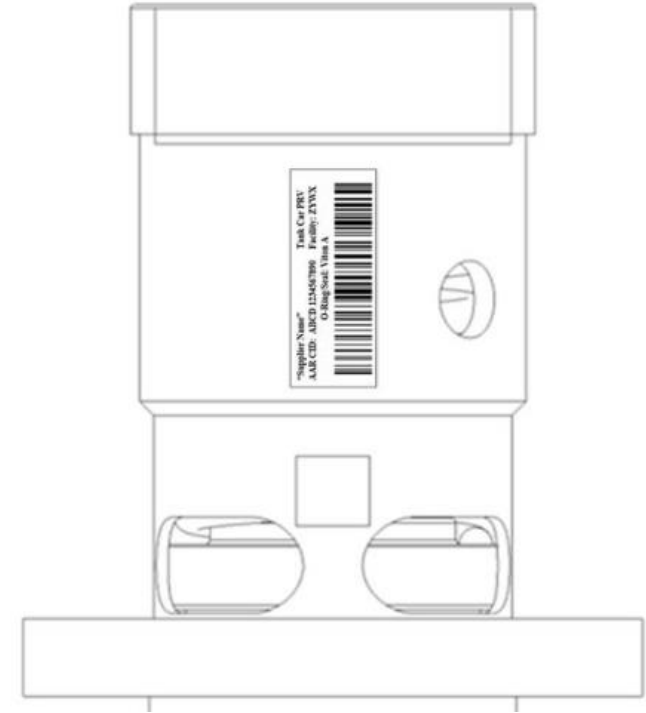
Apply the label to the valve or  
Apply to a metal tag and attach the tag



# Label Options



Attach to a metal tag and attach the tag to the valve



Apply the label directly to the valve body

# AAR Label Approval Process S-920 Section 3.0

- Apply for Railinc Access
- Design Labels
- Send digital copy for approval
- Send physical copy for approval

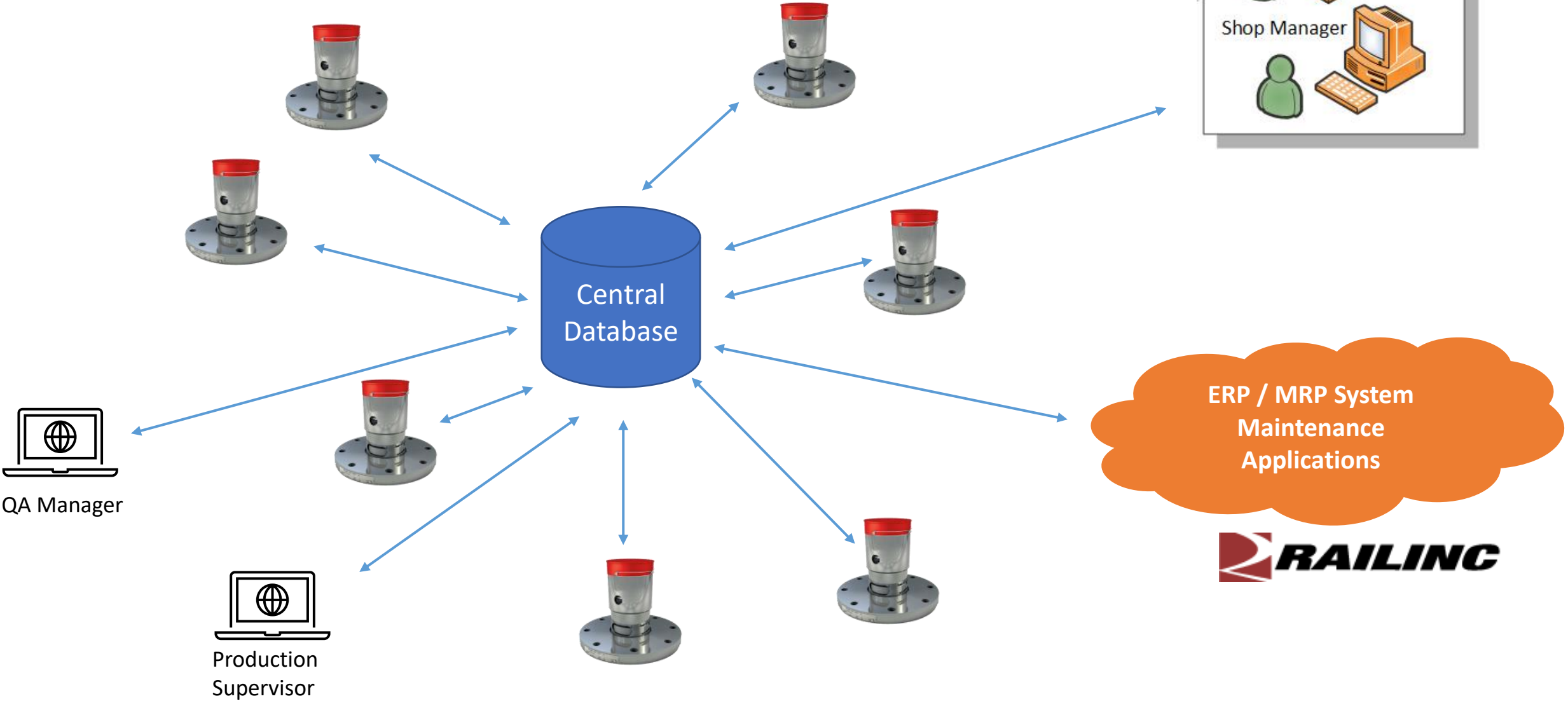
# Registration Process

- Query Railinc for existing information
- Add modified information
- Register Valve in the application
- Stores registration information in a SQL database for reporting
- All shops can use one common database

# Registration AIC and Railinc Web Services



# Multi-Shop Layout



# OEM Registration

Component Inspector  
PR Valve

Component ID: **9517**

Reconditioned: **VIP Rail ULC**    **GIRA**    **5.5 RR HIFLOW GIRA - Girard Equipment, Inc.**

Manufacturer Part Number: **9517**    Part Name: **316 Stainless Steel PFA (Teflon)**    Part Number: **9517A**    Part Description: **150 PSI**

Part Material: **316**    Part Size: **150**    Part Weight: **123**

Part Color: **101**    Part Finish: **123**

Part Location: **BUNA-N FOOD GRADE**    Part Status: **1**    Part Date: **149500**

Part Actions: **Save**    **Cancel**

Enter Valve Data



Print Label



Apply Label

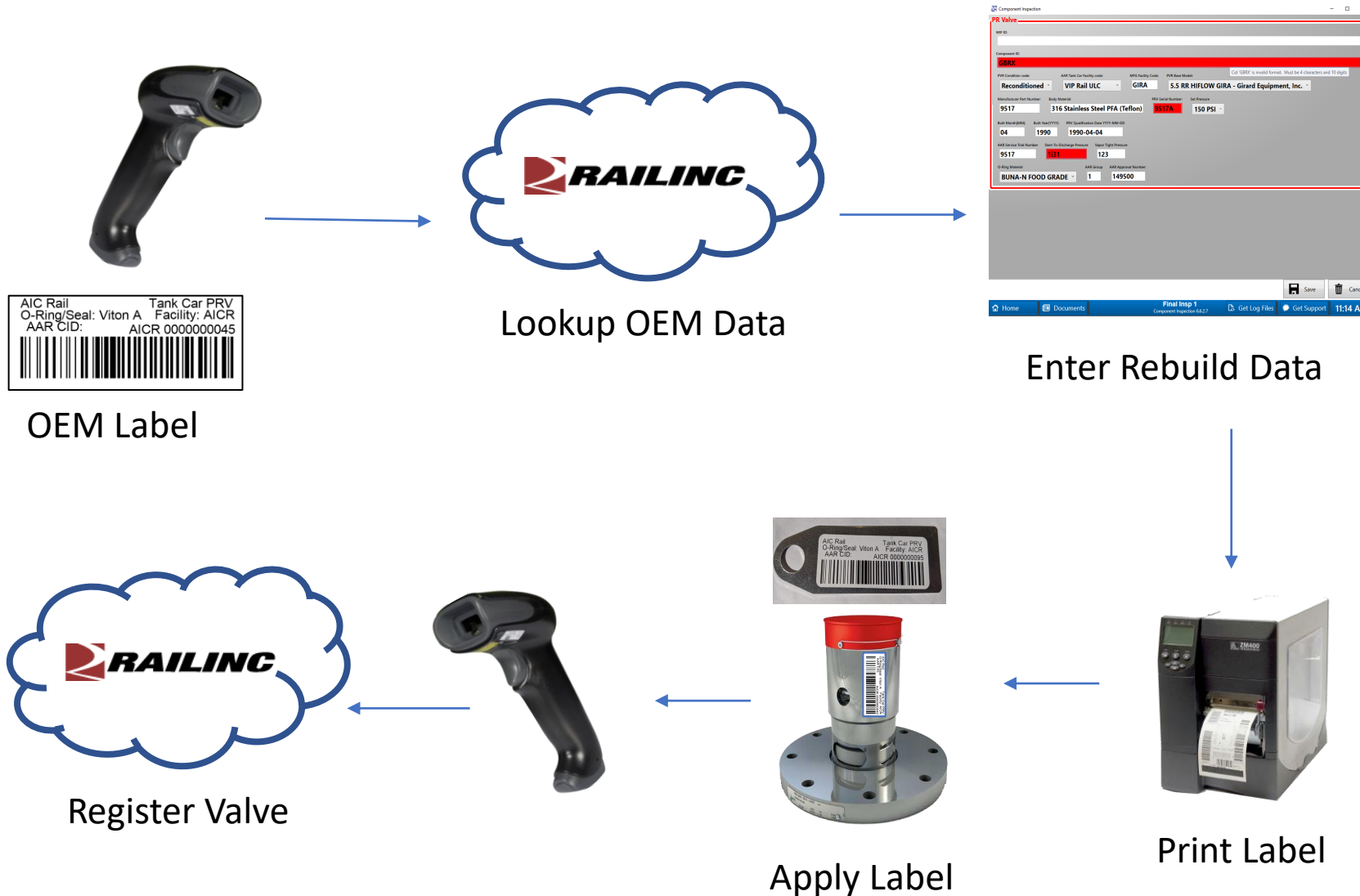


Register Valve

## AIC Component Inspection Application

1. Add valve information for the shop
2. Register Valve in the application
3. Store registration information in a SQL database for reporting
4. All shops use one common database

# Repair Shop Registration



## AIC Component Inspection Application

1. Query Railinc for OEM information
2. Add modified information for the shop
3. Register Valve in the application
4. Store registration information in a SQL database for reporting
5. All shops use one common database



# Component Inspection

Component Inspection

## PRValve Inspection

Search History Details Inspection History

WIP ID  Search

**PRVALVE (s):**

#	CID	WIP ID	Last Inspected	Last Inspection	Last Inspected At	Last Inspected By
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+ New Inspection **+ New PRVALVE**

Final Insp 1  
www.mtrrail.com  
Component Inspection 6.6.2.7

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# Scan Component ID for Railinc Lookup



Component Inspection

**PR Valve**

WIP ID:

Component ID:

PVR Condition code:  AAR Tank Car Facility code:  MFG Facility Code:  PVR Base Model:

Manufacturer Part Number:  Body Material:  PRV Serial Number:  Set Pressure:

Built Month(MM):  Built Year(YYYY):  PRV Qualification Date YYYY-MM-DD:

AAR Service Trial Number:  Start-To-Discharge Pressure:  Vapor Tight Pressure:

O-Ring Material:  AAR Group:  AAR Approval Number:

Final Insp 1  
Component Inspection 6.6.2.7

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# Enter Required Fields

Component Inspection

## PR Valve

WIP ID:

Component ID:  Cid 'GBRX' is invalid format. Must be 4 characters and 10 digits

PVR Condition code:  AAR Tank Car Facility code:  MFG Facility Code:  PVR Base Model:

Manufacturer Part Number:  Body Material:  PRV Serial Number:  Set Pressure:

Built Month(MM):  Built Year(YYYY):  PRV Qualification Date YYYY-MM-DD:

AAR Service Trial Number:  Start-To-Discharge Pressure:  Vapor Tight Pressure:

O-Ring Material:  AAR Group:  AAR Approval Number:

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www.aireair.com

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Required  
and invalid  
Fields are  
red



# Field Validation

Component Inspection

## PR Valve

WIP ID:  
**AIC010820**

Component ID:  
**GBRX9999080620**

PVR Condition code: **Reconditioned** AAR Tank Car Facility code: **VIP Rail ULC** MFG Facility Code: **GIRA** PVR Base Model: **5.5 RR HIFLOW GIRA - Girard Equipment, Inc.**

Manufacturer Part Number: **9517** Body Material: **316 Stainless Steel PFA (Teflon)** PRV Serial Number: **9517** Set Pressure: **150 PSI**

Built Month(MM): **04** Built Year(YYYY): **1990** PRV Qualification Date YYYY-MM-DD: **1990-04-04**

AAR Service Trial Number: **9517** Start-To-Discharge Pressure: **131** Vapor Tight Pressure: **123**

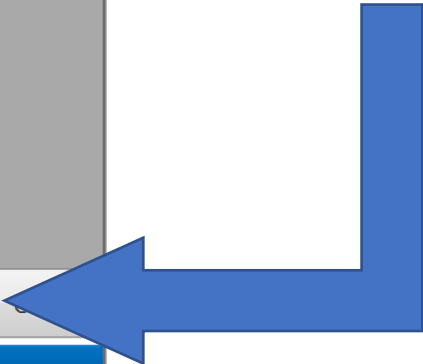
O-Ring Material: **BUNA-N FOOD GRADE** AAR Group: **1** AAR Approval Number: **149500**

**Save**

Home Documents Final Insp 1 Component Inspection 6.6.2.7 Get Log Files Get Support 11:17 AM

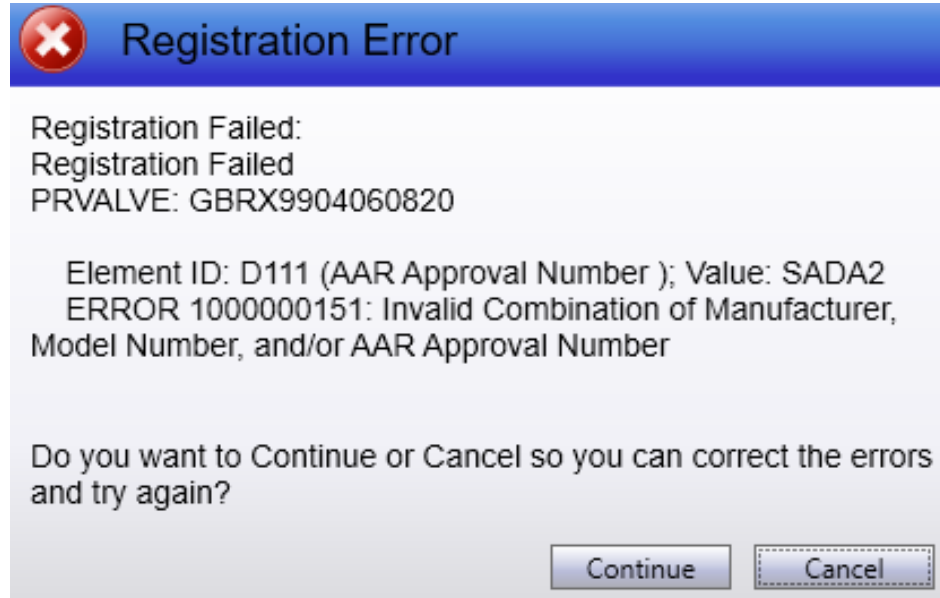
www.aicRail.com

All fields are validated when the component is saved





# Railinc Data Validation in Real-time



Railinc sends back  
“good” or a reason  
for failure.





# Shop Manager View

## Search by any field

- Serial number
- Date range
- Type
- Seal/O-Ring type
- Shift
- Etc.

The screenshot shows the Shop Manager application window. At the top, there's a search bar with filters for 'PRVALVE' and 'by Date'. Below the search bar is a table of valves with columns for 'CID', 'WIP ID', and 'Last Modified'. The 4th row is selected. To the right, a detailed view of the selected valve is shown, including fields for 'Wip Id', 'Last Modified', 'Registration Status', and various technical specifications like 'PRV Condition Code', 'AAR Tank Car Facility Code', etc. A red box highlights the 'Registration Status' field which contains the word 'Error'.

CID	WIP ID	Last Modified
GBRX9999080620	AIC010820	8/6/2020 11:17:35 AM -05:00
GBRX9904060820	AIC040806	8/6/2020 11:44:38 AM -05:00
GBRX9902080620	AIC020806	8/6/2020 11:26:09 AM -05:00
<b>GBRX9597010513</b>	<b>p051320</b>	<b>5/19/2020 11:41:41 AM -05:00</b>
GBRX9549000000		4/29/2020 10:10:10 AM -05:00
GBRX9518042900	p180429	5/2/2020 4:52:28 PM -05:00
GBRX9518021420	PRV020514	5/14/2020 3:07:38 PM -05:00
GBRX9518010517	PRV010517	5/17/2020 4:41:59 PM -05:00
GBRX9518010514	PRV010514	5/14/2020 3:04:15 PM -05:00
GBRX9517042900	p170429	4/29/2020 6:19:42 PM -05:00
GBRX9517020513	p020513	5/13/2020 9:37:44 PM -05:00
GBRX9511049200	P040429	4/29/2020 3:35:44 PM -05:00
GBRX5416042900	P160429	4/29/2020 4:37:10 PM -05:00
GBRX5412429000	P120429	4/29/2020 3:43:44 PM -05:00
GBRX0295400430	p020430	4/30/2020 11:52:26 AM -05:00
GBRX0195400501	p010501	5/1/2020 10:12:51 AM -05:00
GBRX0195043000	p010430	5/2/2020 4:49:28 PM -05:00
AICX1104280000	P110428	4/28/2020 4:38:35 PM -05:00

**PRVALVE** Cid: GBRX9597010513

Wip Id: p051320 Last Modified: 5/19/2020 11:41 AM

Registration Status: **Error** Register Now Don't Register

Notes:

PRV Condition Code (D101)	AAR Tank Car Facility Code (D102)
Reconditioned	VIP Rail ULC
Original Manufacturer (MFG) Facility Code (D103)	PRV Base Model Number (D104)
GIRA	GIRA - Girard Equipment, Inc.
Manufacturer Part Number (Original) (D105)	Body Material (D106)
9517	316 Stainless Steel PFA (Teflon)
PRV Serial Number (D107)	PRV Built Month (D108)
9517	04
PRV Built Year (D109)	PRV Set Pressure (Design Nominal) (D110)
1990	150 PSI
AAR Approval Number (D111)	AAR Service Trial Number (D112)
149500	9517
PRV Qualification Date (As Tested) (D113)	PRV Start-to-Discharge Pressure (As Tested) (D114)
1990-04-04	123
PRV Vapor Tight Pressure (As Tested) (D115)	O-Ring Material (D116)
123	RUUNA-N FOOD GRADE

Registration Status

List of Valves

Selected Valve Details



# Registration is validated in real-time

CID	WIP ID	Last Modified	Date	Attachments	Audit His
GBRX9999080620	AIC010820	8/6/2020 11:17:35 AM -05:00			
GBRX9904060820					
GBRX9902080620					
<b>GBRX9597010513</b>		5/19/2020 11:42 AM			010513
GBRX9549000000					
GBRX9518042900					
GBRX9518021420					
GBRX9518010517					
GBRX9518010514					ty Code (D1
GBRX9517042900					umber (D10
GBRX9517020513					Equipmer
GBRX9511049200					06)

**Error**

Date:  
5/19/2020 11:42 AM

Response:  
Registration Failed  
PRVALVE: GBRX9597010513

Element ID: D111 (AAR Approval Number ); Value: 149500  
ERROR 100000151: Invalid Combination of Manufacturer, Model Number, and/or AAR Approval Number

[Download Request](#) [Download Response](#)

OK

9517 316 Stainless Steel PFA

# Shop Manager

The screenshot shows the Shop Manager application window. At the top, there is a search bar with the text "Search for Cushioning Unit" and a dropdown menu set to "by Date". Below the search bar is a table with columns for "CID", "Last Modified", "Date Created", and "Disposition". The first row is highlighted in blue and contains the following data: CID: GBRX9513000001, Last Modified: 8/27/2020 11:36:50 AM -05:00, Date Created: 8/27/2020 11:18:09 AM -05:00, Disposition: Good. A blue arrow points from the search bar area to a text box on the left.

CID	Last Modified	Date Created	Disposition
GBRX9513000001	8/27/2020 11:36:50 AM -05:00	8/27/2020 11:18:09 AM -05:00	Good
C604210000000	8/26/2020 6:43:19 PM -05:00	8/26/2020 6:43:21 PM -05:00	Good

## Search by any field

- Serial number
- Date range
- Type
- Seal/O-Ring type
- Shift
- Etc.

The screenshot shows the details page for a "Pressure Relief Valve". The page has a header with "Pressure Relief Valve" and a "Good" status indicator. Below the header, there are several fields for data entry and viewing. The "Wip. St." field is set to "Last Modified" with a value of "8/27/2020 11:36 AM". The "Registration Status" is "Success" with an "Update" button and a "Nullify" button. The "Part" field is expanded to show a list of attributes:

Attribute	Value
Condition Code (D201)	New
Facility Code (D202)	American Hydraulics - Red Oak
Mfg Year (D203)	20
Mfg Month (D204)	8
Reconditioned Date (D205)	
Manufacturer (D206)	AHO
Serial Number (D207)	NAH00000001
Model Number (D208)	M1234
Travel Length (D210)	7



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