

Vibrant Performance 2346

Vibrant Performance 2346 Schedule 10 90 Degree Short Radius Elbow User Manual

Model: 2346

INTRODUCTION

This manual provides essential information for the proper installation, function, and maintenance of your Vibrant Performance 2346 Schedule 10 90 Degree Short Radius Elbow. This component is designed for high-performance applications, offering durability and corrosion resistance.



Image: A Vibrant Performance 2346 Schedule 10 90 Degree Short Radius Elbow, made from T304 stainless steel, shown with its smooth, brushed finish and precise 90-degree bend. The interior of the elbow is visible, indicating a clean and unobstructed flow path.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of the elbow. It is recommended that installation be performed by a qualified professional.

Installation Steps:

- Preparation:** Ensure all connecting components (pipes, flanges, etc.) are clean, free of debris, and have compatible dimensions.
- Alignment:** Carefully align the elbow with the existing or new piping system. Ensure there is no undue stress or misalignment that could lead to leaks or structural fatigue.
- Connection:** Securely connect the elbow using appropriate welding techniques or clamping mechanisms, depending on the system design. For welding, use TIG welding with appropriate filler rod for T304 stainless steel.
- Inspection:** After installation, visually inspect all connections for proper fit and seal.

5. **Leak Test:** If applicable, perform a pressure or leak test according to system specifications to ensure integrity.

Note: This elbow is designed to withstand high boost and high temperatures. Ensure all other system components are rated for similar conditions.

OPERATING PRINCIPLES

The Vibrant Performance 2346 elbow functions as a critical component in fluid or gas transfer systems, redirecting flow by 90 degrees. Its Schedule 10 rating indicates its wall thickness and suitability for various pressure applications. Made from T304 stainless steel, it offers excellent resistance to corrosion and can operate effectively under extreme conditions without swelling or bursting.

This elbow is a passive component; its operation is dependent on the overall system in which it is installed. Ensure the system's operating parameters (pressure, temperature, fluid compatibility) are within the capabilities of T304 stainless steel.

MAINTENANCE

The Vibrant Performance 2346 elbow requires minimal maintenance due to its durable T304 stainless steel construction. However, periodic inspection is recommended to ensure continued optimal performance.

- **Visual Inspection:** Regularly inspect the elbow and its connections for any signs of corrosion, cracks, dents, or leaks. Pay close attention to welded or clamped joints.
- **Cleaning:** If exposed to harsh environments, clean the exterior of the elbow as needed to prevent buildup of corrosive substances. Use mild detergents and avoid abrasive cleaners that could damage the stainless steel finish.
- **System Integrity:** Ensure the overall system remains free of excessive vibration or stress that could compromise the elbow's integrity over time.

TROUBLESHOOTING

Most issues related to an elbow component are typically associated with installation or external factors within the system.

- **Leaks at Connection Points:**
 - **Cause:** Improper welding, loose clamps, incorrect gasket (if applicable), or material fatigue.
 - **Solution:** Re-inspect connections. For welded joints, re-weld if necessary. For clamped joints, tighten clamps or replace gaskets. If material fatigue is suspected, replace the elbow.
- **Reduced Flow/Blockage:**
 - **Cause:** Debris accumulation within the pipe system, or internal damage to the elbow (rare for stainless steel).

- **Solution:** Disassemble and inspect the system for blockages. Clean the elbow if necessary.

- **Unusual Noise/Vibration:**

- **Cause:** Loose mounting, improper flow dynamics, or external system issues.
- **Solution:** Check all mounting points for tightness. Consult a system engineer to evaluate flow dynamics.

If issues persist after troubleshooting, consult a qualified technician or the manufacturer.

SPECIFICATIONS

Attribute	Detail
Model Number	2346
Brand	Vibrant Performance
Material	T304 Stainless Steel
Connector Type	Elbow
Bend Angle	90 Degree
Radius Type	Short Radius
Exterior Finish	Stainless Steel
Item Weight	1.5 Pounds
Product Dimensions (L x W x H)	7.87 x 13.78 x 3.54 inches
Country of Origin	Canada
UPC	690092123048

WARRANTY AND SUPPORT

Specific warranty information for the Vibrant Performance 2346 Schedule 10 90 Degree Short Radius Elbow is not provided in the available data. For detailed warranty terms and conditions, please refer to the official Vibrant Performance website or contact their customer support directly.

For technical support or inquiries regarding this product, please contact Vibrant Performance customer service through their official channels.

