

NIBCO CHEMICAL RESISTANCE GUIDE FOR VALVES & FITTINGS

INTRODUCTION

This chemical resistance guide has been compiled to assist the piping system designer in selecting chemical resistant materials. The information given is intended as a guide only. Many conditions can affect the material choice. Careful consideration must be given to temperature, pressure and other job considerations before a final material selection is selected.

Temperature and chemistry physical characteristics are more detailed in temperatures than metals. For this reason, a temperature has been designated for each.

MATERIALS: THERMOPLASTICS & ELASTOMERS

- Temp. at 10" — (A) rating, maximum temperature which is recommended constant under normal conditions.
- (B) or Temp. at 10" — Conditional resistance; consult factory.
- (C) — Not recommended.
- (None) — No data available.

MATERIALS: RATED FOR METALS

- (A) — Recommended; constant under normal conditions.
- (B) — Conditional; consult factory.
- (C) — Not recommended.
- (None) — No data available.

Temperature maximum for thermoplastics elastomers and their alloys should always fall within published temperature ratings for individual valves. **THERMOPLASTICS ARE NOT RECOMMENDED FOR COMPRESSION AND OR GASKET SERVICE.**

This guide considers the resistance of various valves assembly as well as the resistance of individual parts and being assembled. The rating assigned to the valve body (and, for compression is at least that of the body assembly parts). In the cases where the valve body is the rated location there may be conditions arise with the use of compression alone enough and the use of the body alone enough to be suitable for a particular use. Such use should always be accompanied by careful consideration of the component in a piping system.

In the selection of a butterfly valve for use with a corrosive stream, use the flow and temperature resistance. Different resistance should vary a rating of (A). The body of a properly functioning butterfly valve is isolated from the chemicals being treated and need not carry the same rating.

THERMOPLASTICS & ELASTOMERS

ABS — Acrylonitrile Butadiene Styrene (Class 4-12) conforming to ASTM D-709 is a thermoplastic material. This material is used in flow and waste treatment and waste treatment plants. ABS does resist acid and most inorganic materials and chemicals even very aggressive. The maximum (100°F) recommended temperature for service at this temperature is 100°F. ABS (100°F) has proven satisfactory for use for flow. ABS (100°F) has proven satisfactory for use for flow. ABS (100°F) has proven satisfactory for use for flow. ABS (100°F) has proven satisfactory for use for flow.

flows into the system. ABS (100°F) is very resistant to acids such as hydrochloric, nitric, phosphoric, and acetic. ABS (100°F) is not recommended for use with sulfuric acid. ABS (100°F) is not recommended for use with sulfuric acid. ABS (100°F) is not recommended for use with sulfuric acid. ABS (100°F) is not recommended for use with sulfuric acid.

CPVC — Chlorinated Polyvinyl Chloride (Class 12-15), formerly designated Type 1, conforming to ASTM D-1784, has excellent properties at 175°F under normal conditions. CPVC has excellent resistance to acids and is generally better than that of PVC (CPVC), with a design stress of 2000 psi and excellent service temperatures of 210°F. This product is not recommended for use in waste treatment, but is used in water distribution, and waste applications where the temperature range is 175°F. CPVC is good for solvent handling, flow, and flow.

PP (Polypropylene) — Type 1 Polypropylene is a thermoplastic which is lightweight and generally high in chemical resistance. Although Type 1 polypropylene conforming to ASTM D-1784 is slightly lower in physical properties compared to PVC it is almost only resistant to organic solvents as well as acids and alkalis. Generally polypropylene construction is used in contact with strong oxidizing acids, inorganic hydrocarbons, and alcohols. With a design stress of 1000 psi at 175°F polypropylene has good water resistance. It is recommended for use in waste treatment, but is not recommended for use in waste treatment. It is not recommended for use in waste treatment. It is not recommended for use in waste treatment. It is not recommended for use in waste treatment.

PVC — Polyvinyl Chloride (Class 12-15), formerly designated Type 1, Grade 1, PVC is the most frequently specified of all flow treatment materials. It has been used successfully for over 50 years in both waste and chemical processing. Excellent water, acid, and alkali resistance, excellent water flow, excellent water flow, and excellent properties. PVC is characterized by high physical properties and resistance to corrosion and chemical attack by acids, alkalis, salt solutions, and many other chemicals. It is an excellent material for water service and waste treatment. The maximum service temperature of PVC is 175°F. With a design stress of 2000 psi, PVC has the highest long-term hydrostatic strength at 175°F of any of the major thermoplastics being used for piping systems. PVC is good for solvent handling, flow, and flow.

PEER (Polyethylene Glycol) — Ethylene glycol, primarily, is a strong, tough and abrasion-resistant thermoplastic material. It is used in waste treatment and waste treatment. PEER is not recommended for use in waste treatment. It is not recommended for use in waste treatment. It is not recommended for use in waste treatment. It is not recommended for use in waste treatment.

EPDM — EPDM is a synthetic elastomer made from ethylene propylene diene monomer. EPDM has good abrasion and tear resistance and offers excellent chemical resistance to a variety of acids and alkalis. It is recommended for use in waste treatment. It is not recommended for use in waste treatment. It is not recommended for use in waste treatment.



Nibco Chemical Resistance Guide

Rachel S Tattersall



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Table of Contents Nibco Chemical Resistance Guide

1. Understanding the eBook Nibco Chemical Resistance Guide
 - The Rise of Digital Reading Nibco Chemical Resistance Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Nibco Chemical Resistance Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nibco Chemical Resistance Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nibco Chemical Resistance Guide
 - Personalized Recommendations
 - Nibco Chemical Resistance Guide User Reviews and Ratings

- Nibco Chemical Resistance Guide and Bestseller Lists
- 5. Accessing Nibco Chemical Resistance Guide Free and Paid eBooks
 - Nibco Chemical Resistance Guide Public Domain eBooks
 - Nibco Chemical Resistance Guide eBook Subscription Services
 - Nibco Chemical Resistance Guide Budget-Friendly Options
- 6. Navigating Nibco Chemical Resistance Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Nibco Chemical Resistance Guide Compatibility with Devices
 - Nibco Chemical Resistance Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nibco Chemical Resistance Guide
 - Highlighting and Note-Taking Nibco Chemical Resistance Guide
 - Interactive Elements Nibco Chemical Resistance Guide
- 8. Staying Engaged with Nibco Chemical Resistance Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nibco Chemical Resistance Guide
- 9. Balancing eBooks and Physical Books Nibco Chemical Resistance Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nibco Chemical Resistance Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nibco Chemical Resistance Guide
 - Setting Reading Goals Nibco Chemical Resistance Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nibco Chemical Resistance Guide
 - Fact-Checking eBook Content of Nibco Chemical Resistance Guide
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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