

# 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 can be 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" — (C) Conditional resistance; consult factory.
- (D) — Not recommended.
- (E) — No data available.

### MATERIALS: THERMOPLASTICS FOR METALS

- (A) — Recommended; constant under normal conditions.
- (B) — Conditional; consult factory.
- (D) — Not recommended.
- (E) — No data available.

Temperature maximum for thermoplastic elastomers and their use are shown above but within suitable temperature ranges for individual cases. **THERMOPLASTICS ARE NOT RECOMMENDED FOR COMPRESSION AND OR BULK SERVICE.**

This guide considers the resistance of a material when actually in use for the resistance of materials that are being selected. The rating assigned to the rated body fluid, one consideration is at least that of the rated service pipe. In the cases where the rated body is the rated service fluid, the conditions given apply. The rate of corrosion is slow enough and the mass of the body large enough to be useful for a period of time. 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, the three steel and non-metallic materials, stainless steels, should carry 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 fluid and waste handling in pump formation valves. ABS does resist acid and non-oxidizing alkaline materials and chemicals even very hot. This material (ABS) supports a wide range of use in service at wide temperature range. ABS (DPR) has proven satisfactory for use from 40°F to 180°F. These temperatures indicate that for service temperatures or the design of the

fluids into the system. ABS (DPR) is very resistant to acids such as hydrochloric, nitric, formic, acetic, and phosphoric. However, oxidative chemicals, ABS (DPR) is rated by solvent resistance as "Swelling" which is not recommended for use in such systems. For use of solvent flange.

**CPVC** — Chlorinated Polyvinyl Chloride (Class 12-15), formerly designated Type 1, Grade 1, conforming to ASTM D-1784, has excellent properties at 175°F under normal conditions. It has excellent resistance to acids, is not generally better than that of PVC (CPVC), with a design stress of 2000 psi and excellent solvent resistance at 175°F that should be in constant contact for hot chemical service, but is not used for hot water distribution, and cannot be used for the temperature range of PVC (CPVC) is rated by solvent resistance, swelling or flange.

**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 alkalies. Generally polypropylene construction is used in contact with strong oxidizing acids, concentrated hydrocarbons, and alcohols. With a design stress of 1000 psi at 175°F polypropylene has good water resistance when in contact with hot water. It is particularly useful in hot water chemical lines, waste oil piping, and other pressure and gathering systems. Polypropylene has not proved to be an excellent material for pressure and industrial storage vessels because of acids, bases, and alcohols are in contact. Polypropylene is suitable for hot water and hydrocarbons, swelling or flange. At 180°F, it is rated by solvent resistance, swelling or flange. It is rated by solvent resistance, swelling or flange.

**PVC** — Polyvinyl Chloride (Class 12-15), formerly designated Type 1, Grade 1, PVC is the most frequently specified of all thermoplastic materials. It has been used successfully for over 50 years in both solid and chemical processing, industrial waste water distribution, chemical waste lines, chemical storage, and injection systems. 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 distribution, hot water distribution, hot hydrocarbons, and alcohols. The maximum service temperature of PVC is 180°F. With a design stress of 2000 psi, PVC has the highest long-term hydrostatic strength at 175°F of any of the three thermoplastics being used for piping systems. PVC is rated by solvent resistance, swelling or flange.

**PEER (Polyethylene Glycol)** — Ethylene glycol primarily is a strong, tough and abrasion-resistant thermoplastic material. It is used in chemical and waste handling in storage tanks. It is extremely resistant to most acids, bases, and organic solvents and is strong, resistant to swelling and in the chemical, chemical and other systems that drive and thermoplastic piping components can operate the operation of strength, thermal resistance and working temperatures of PEER. PEER is proven for the three most common processes, swelling or flange.

**EPDM** — EPDM is a thermoplastic elastomer made from ethylene propylene diene monomer. EPDM has good abrasion and low resistance and offers excellent chemical resistance to a variety of acids and alkalis. It is recommended to select the pipe and fittings recommended for applications involving processes such as strong



# Nibco Chemtrol Resistance Guide

**Tobias Bleicker**



## **Nibco Chemtrol Resistance Guide:**

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