

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

### MATERIALS: THERMOPLASTICS FOR METALS

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

Temperature resistance for thermoplastics elastomers and resins 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 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 case. 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 in 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 pump treatment plants. ABS does resist acid and most inorganic materials and chemicals even very aggressive. The recommended (B) rating is based on exposure to service at wide temperature range. ABS (DPR) has proven satisfactory only for use from 40°F to 100°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 suitable for chemical use, except in case the design for use of chemical fittings.

**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 as in general better than that of PVC (CPVC), with a design stress of 2000 psi and excellent service temperatures of 210°F that permit its use in chemical treatment for hot chemical waste, hot or cold water distribution, and various applications where the temperature range of PVC-CPVC is proved to solvent resistance, swelling or flanging.

**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, inorganic hydrocarbons, and alcohols. With a design stress of 1000 psi at 175°F polypropylene has good water resistance where its resistance to sulfur bearing compounds is particularly useful in salt water chemical waste, waste oil piping, and/or pressure and gathering systems. Polypropylene has not proved to be an excellent material for pressure and reduced strength where exposed to acids, bases, and alcohols are in contact. Polypropylene is suitable for service and water service, flanging or flanging. At 100°F it is rated as Class 12 (DPR) which is used for storage only in a pressure full operating (10 psi).

**PVC** — Polyvinyl Chloride (Class 12-15) is formerly designated Type 1, Grade 1. PVC is the most frequently specified of all the 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, waste water collection, hydrocarbons and alcohols. The maximum service temperature of PVC is 100°F with a design stress of 2000 psi. PVC has the highest long term hydrolysis strength at 100°F of any of the class thermoplastics being used for piping systems. PVC is proved to solvent resistance, swelling or flanging.

**PEER (Polyethylene Glycol)** — Ethylene glycol primarily is a strong, tough and abrasion resistant thermoplastic material. It is more resistant and more resistant to strength than PVC. It is extremely resistant to most acids, bases, and organic solvents and is strong, resistant to flanging and in the chemical, chemical and other systems that drive and thermoplastics piping components can operate the operation of strength, thermal resistance and working temperatures of PEER. PEER is proved to solvent resistance, swelling or flanging.

**EPDM** — EPDM is a synthetic 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 unsuitable to attack by oils and is not recommended for applications involving petroleum oils, strong



# Nibco Chemtrol Resistance Guide

**Hussin A.Rothana**



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