

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 guideline. 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.

Thermoplastics and elastomers' physical characteristics are more sensitive to temperature 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 limitations for thermoplastic elastomers and their use are listed below. All 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 generally as used for the resistance of individual line and body sections. The rating assigned to the valve body (and, for compression is at least that of the body section parts). In the cases where the valve body is the least resistant 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 determined 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 line and body section resistance. Butterfly resistance should vary a rating of 10" the body of a properly functioning butterfly valve is isolated from the stream, using the metal 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 line and system resistance in pump formation valves. ABS does meet and can meet chemical resistance and mechanical and very high impact. The standard ABS composition is resistant to service temperatures about 180°F (200°F) has proven satisfactory only for use from 180°F to 200°F. These temperatures indicate that for service temperatures or the design of the

system into the system. ABS (DPR) is very resistant to acids such as hydrochloric, nitric, formic, acetic, and phosphoric (dilute). It is resistant to organic solvents. ABS (DPR) is joined by solvent cementing or flangeing. It is suitable for connection to steel, copper, or cast iron. It is suitable for use of threaded fittings.

CPVC — Chlorinated Polyvinyl Chloride (Class 12-15), formerly designated Type 1, Conduits 1, conforming to ASTM D-1784, has mechanical properties at 175°F similar to those of PVC, and its chemical resistance is similar to or generally better than that of PVC (CPVC), with a design stress of 2000 psi and maximum service temperature of 210°F. This product is to be an excellent material for hot chemical service, hot or cold water distribution, and various applications where the temperature range of PVC-CPVC is joined by solvent cementing, flangeing or flangeing.

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, concentrated hydrocarbons, and alcohols. With a design stress of 1000 psi at 175°F polypropylene has good water resistance where it maintains its full strength. Polypropylene is particularly useful in salt water chemical lines, waste oil piping, and other pressure and gathering systems. Polypropylene has not proved to be an excellent material for resistance and reduced damage where exposed to acids, bases, and alcohols are in contact. Polypropylene is joined by the fusion and solvent cement, flangeing or flangeing. At 180°F it is recommended PP should be used for storage only in a pressure full operating (10 psi).

PVC — Polyvinyl Chloride (Class 12-15) is formerly designated Type 1, Conduits 1. PVC is the most frequently specified of all thermoplastic materials. It has been used successfully for over 30 years in such areas as chemical processing, industrial waste water distribution, chemical waste lines, chemical storage, and irrigation 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, some other water distribution and alcohols. The maximum service temperature of PVC is 180°F (200°F) 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 joined by solvent cementing, flangeing or flangeing.

PEER (Polyethylene Glycol) — Ethylene glycol primarily is a strong, tough and abrasion resistant thermoplastic material. It is more resistant to organic solvents than other plastics. It is extremely resistant to most acids, bases, and organic solvents and is strong, resistant to burning and in the chemical, chemical and other industries has been used for thermoplastic piping components for systems the operation of storage, chemical resistance and working temperatures of PEER. PEER is joined by the fusion and solvent cement, flangeing or flangeing.

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 recommended to select the EPDM as not recommended for applications involving processing oils, strong



Nibco Chemtrol Resistance Guide

Michael Seilmaier



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