

MATERIAL QUICK REFERENCE

COUPLERS, BALL VALVES, STRAINERS, ADAPTERS AND FITTINGS

Nylon

- Good all around/all purpose material, strong.
- Good chemical resistance and excellent mechanical properties.
- Stronger than polypropylene.
- Resists cross threading and most hydrocarbons, solvents, agricultural chemicals and mild acids.
- Temperature range -30°F to 200°F.

PVDF

- Use where ultra high purity is required.
- FDA / NSF compliant.
- Resists most corrosive chemicals, acids, bases, salts, solvents, halogens, chlorinated solvents and is an UL94-VO listing.
- Good choice for high temperature applications.
- Temperature range -20°F to 300°F.
- Can be used in place of Stainless Steel in many applications.

Polypropylene

- Good chemical and corrosion resistance.
- Resists most acids, chemicals and fertilizers.
- Temperature range 10°F up to 180°F.

Food-Grade Polypropylene

- FDA / NSF compliant.
- Cost effective lightweight replacement for stainless steel.
- Temperature range 10°F to 180°F.
- Industry applications include food products, cosmetics, pharmaceutical processing.

GASKETS

EPT/EPDM

- Best choice for most fertilizer and agricultural applications.
- Temperature range -50°F to 250°F.

Buna-N

- General purpose industrial—resistant to oil, hydraulic fluid, petroleum based fluids and water.
- Temperature range -40°F to 250°F.

Viton®

- Superior resistance to most fuels, petroleum based fluids, chemicals and solvents.
- Temperature range -10°F to 350°F.

Polyethylene

- Resists abrasion and tearing.
- Resists many solvents, oils and petroleum based fluids.
- Temperature range -65°F to 190°F.

PVC

- Solvent cementable.
- Permanent installation.
- Resists many chemical solutions.
- Ideal for water transfer.
- Sewage system and pump quick disconnects.
- Temperature range 10°F to 140°F.

Santoprene®

- Special purpose.
- Excellent resistance to weather.
- Good chemical resistance.
- FDA applications—used for protective caps or plugs for stainless steel adapters and couplers.
- Temperature range -80°F to 275°F.

Stainless Steel

- 316 type.
- Excellent chemical and corrosion resistance.
- Use for food service and processing.
- Conductive.

Nitrile®

- Food grade, FDA applications.
- White color.
- Resistant to many oils and chemicals.
- Temperature range -40°F to 220°F.

Santoprene®

- Excellent resistance to weather and many chemicals.
- FDA applications.
- Temperature range -80°F to 275°F.

Note: Above information is gathered from various manufacturers published charts and tables.

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