

# Disc and Seat Material Data

## Nickel Plated Ductile Iron

ASTM B320 Plating and ASTM A536 (Cast) Ductile Iron which has strength properties similar to steel is enhanced with the addition of Nickel Plating by adding to its ability to resist corrosion. Nickel Plating further adds to Ductile Iron, the ability to resist abrasion due to its inherent hardness features.

### Applications

Suitable for Air, Kerosene, Oils, Ketones and Potable Water

## Bronze

ASTM B148 Bronze while being recognized for steam rated valves is also resistant to corrosion, pitting and is also resistant to many chemicals

### Applications

Suitable for Air, Alcohols, Ethers, Freons, Oils, Oxygen and Potable Water. Widely used in the HVAC market.

## 316 Stainless Steel

ASTM A351 Grade CF8M 316SS is an excellent choice for corrosion resistance to many chemicals and environmental applications. Investment Cast Stainless Steel has no need of additional heat treating, it has inherent high strength and is used for many industrial applications.

### Applications

Suitable for Acetic Acids, Air, Automotive Oils & Fuels, Beer, Freon, Gasoline, Ketones, Oils, Oxygen, Steam and Potable Water.

## Buna - N

(NBR/Nitrile) (Butadiene Acrylonitrile Copolymer) Buna - N is widely used as a seat material for water and sewage Butterfly Valve applications. It is also used in certain petroleum applications.

### Applications

- Buna-N is suitable for and resistant to most all petroleum products. It is also resistant to many chemicals, ethylene glycol, fats, grease, hydrocarbons, hydraulic fluids and oils.
- Buna-N should not be used where Chlorinated and Nitro Hydrocarbons, Esters, Ketones and Ozone will be found.

### Temperature Range:

0° to 180° F Continuous Service / 0° to 212° F Intermittent

## EPDM

(Ethylene Propylene EPM) (Ethylene Propylene Copolymer and Terpolymer) EPDM has a wide variety of uses being generally resistant to many chemicals, higher temperatures (low pressure steam to 15 psi) and abrasion. It is used in many HVAC and industrial applications.

### Applications

- EPDM is suitable for and resistant to animal and vegetable oils, ozone, oxidizing chemicals. EPDM is good for diluted acids and alkalies, brake fluid and ketones.
- EPDM should not be used where mineral oils, solvents and aromatic hydrocarbons are present.

### Temperature Range:

- 40° to 250° F Continuous / - 40° to 275° F Intermittent



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