

MANIFOLD SYSTEMS

BALL VALVE SEAT MATERIALS

ACETAL COPOLYMER

A crystalline engineering thermoplastic resin which has an excellent combination of physical properties that make it suitable for numerous industrial and oilfield applications.

AceCo uses ACETAL COPOLYMER because of its high strength, wear resistance, low coefficient of friction, low water absorption and resistance to strong and weak bases as well as weak acids (pH above 4.0) ACETAL COPOLYMER is resistant to a wide range of chemicals, hydrocarbons, CO₂ and H₂S including methanol.

ACETAL COPOLYMER is the standard seat material in AceCo's manifold ball valves and is recommended unless conditions require an alternative. Most oilfield applications include high pressure oil, gas, water, CO₂ and drilling mud. Temperature ratings up to 180 degrees F are normal but for higher temperatures, PEEK seat material is recommended.

PEEK

Polyetheretherketone is a high performance engineering thermoplastic, product of Imperial Chemical Industries.

AceCo uses PEEK for its unusually high temperature rating. PEEK is rated up to 450 degrees F with reduced shut-off pressures. PEEK is virtually unaffected by steam or hot water up to 450 degrees F and has excellent chemical resistance.

PEEK should always be a consideration for temperatures 200 degrees F to 450 degrees F or when the temperature rating exceeds Acetal Copolymer.

NOTE:

All plastics have decreasing strength with increasing temperatures.

