Polyguard INDUSTRIES

Exceptional performance polyurethane lined nozzle custom spools

Metal spools lined with special formulation Polyurethane to withstand the harshest wear applications. Typically used for slurry transfer including mineral processing plants concentrate pipelines, tailings pipelines, oil sands pipelines. Also used for transfer of fluids containing abrasive solids at high pressure and high flow speeds where the Polyurethane liner is exposed to a highly corrosive environment.

The Special polymer formulation delivers exceptional performance in the most aggressive high-wear slurry applications. Suitable for slurry Systems with turbulent and non-turbulent flows, can withstand fluids containing small and large particle causing high wear.

Lined spools are used at a wide range of temperatures, offers chemical and high hydrolysis resistance, the liner is chemically bonded resulting in a full liner integrity, very low friction loss coefficient, and requires no corrosion allowance.

Technical Specifications

- Pipe Size: DN50–DN1800, special non-standard sizes are also available to suite design application.
- Pipe Length: 100mm to 12000mm.
- Metal Pipe grade: All Carbon steel grades, Stainless steel and Duplex Alloy
- Pipe Type: welded or seamless.
- End connection: flanged, grooved, threaded, plain end, customs connection as per design requirements.
- Flange connection: fixed or swivel.
- Pressure rating: As per design specification.
- Operating temperature: Max 70° celcius.
- External coating: Galvanized, painting as per design requirement, Polyurethane layer and uncoated.

Polyurethane liner specification

- High-performance polyurethane liner system.
- Suitable for turbulent and non-turbulent slurry applications.
- Suitable for fluids with small and large particle slurry.
- Suitable for high and low slurry velocities.
- Suitable for straights, curved and uniform surfaces.
- Liner chemically bonded to Metal shell.
- Suitable usage with slurry fluids, high wear resistance, chemical resistance, corrosive resistance.
- Low friction coefficient
- Operational temperature range -10° to 70° Celsius