### Heavy Duty Bulk Head Fittings

<table>
<thead>
<tr>
<th>SIZE (IN)</th>
<th>BLACK PPG</th>
<th>NATURAL PP</th>
<th>PVC</th>
<th>CPVC</th>
<th>RED PVDF</th>
<th>NATURAL PVDF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>PG7025807DT</td>
<td>PP7025807DT</td>
<td>P7025807DT</td>
<td>CP7025807DT</td>
<td>PVR7025807DT</td>
<td>PV7025807DT</td>
</tr>
<tr>
<td>3/4</td>
<td>PG7025808DT</td>
<td>PP7025808DT</td>
<td>P7025808DT</td>
<td>CP7025808DT</td>
<td>PVR7025808DT</td>
<td>PV7025808DT</td>
</tr>
<tr>
<td>1</td>
<td>PG7025809DT</td>
<td>PP7025809DT</td>
<td>P7025809DT</td>
<td>CP7025809DT</td>
<td>PVR7025809DT</td>
<td>PV7025809DT</td>
</tr>
<tr>
<td>1-1/4</td>
<td>PG7025810DT</td>
<td>PP7025810DT</td>
<td>P7025810DT</td>
<td>CP7025810DT</td>
<td>PVR7025810DT</td>
<td>PV7025810DT</td>
</tr>
<tr>
<td>1-1/2</td>
<td>PG7025811DT</td>
<td>PP7025811DT</td>
<td>P7025811DT</td>
<td>CP7025811DT</td>
<td>PVR7025811DT</td>
<td>PV7025811DT</td>
</tr>
<tr>
<td>2</td>
<td>PG7025812DT</td>
<td>PP7025812DT</td>
<td>P7025812DT</td>
<td>CP7025812DT</td>
<td>PVR7025812DT</td>
<td>PV7025812DT</td>
</tr>
<tr>
<td>3</td>
<td>PG7025814DT</td>
<td>PP7025814DT</td>
<td>P7025814DT</td>
<td>CP7025814DT</td>
<td>PVR7025814DT</td>
<td>PV7025814DT</td>
</tr>
<tr>
<td>4</td>
<td>PG7025816DT</td>
<td>PP7025816DT</td>
<td>P7025816DT</td>
<td>CP7025816DT</td>
<td>PVR7025816DT</td>
<td>PV7025816DT</td>
</tr>
</tbody>
</table>

**Notes:**
- Moulded, with double tapped NPT internal threads.
- Heavy duty bulkhead fittings feature double tapped internal NPT threads and a unique left hand self tightening nut.
- Complete with one (1) EPDM gasket (Buna-N and Viton gasketing materials available upon request). Gasket effectively seals against curved or irregular surfaces.

### Bolted Flange Fittings

Bolted Flange Fittings are available in PVC and CPVC. Bolt heads are encapsulated in polyethylene providing chemical resistance. Available bolt materials are 316 Stainless Steel, Titanium, C-276 and Alloy 400. Available in a variety of diameters.

### Bolted Flange Bulkhead Fittings

Bolted Flange Bulkhead Fittings are used in strong oxidizing chemical applications such as Sodium Hypochlorite and Sulfuric Acid where the OR-1000™ Systems are used. It is designed to protect the cross-section of the tank against chemical attack. Available in a variety of diameters.

### Universal Ball Dome Fittings

The Universal Ball Dome Fittings are “self-aligning” which allow for vertical plumbing on the dome of the tank and available in PVC or CPVC. It allows piping to be plumbed vertically and is a economical alternative to UBD flange style (no additional bolts required). Available in a variety of diameters.

### Self Aligning Ball Dome Fittings

The Universal Ball Dome Fittings are "self-aligning" which allow for vertical plumbing on the dome of the tank and available in PVC or CPVC. It also allows piping to be plumbed vertically and the fitting can be repaired and maintained externally without tank entry. Available in a variety of diameters.
Tank Accessories

**Proco 260R Series Wide Arch Low Spring Rate**

Proco Series 260R rubber expansion joints are specifically designed for use with plastic or FRP piping systems. They are molded wide-arch expansion joints that have lower spring forces to compress, extend, or laterally offset. The Proco Series 260R molded expansion joints can be used in circumstances where metallic hoses/expansion joints or old-design rubber expansion joints were originally used.

**Features and Benefits:**
- Absorption of Directional Movement
- Absorption of Vibration, Noise and Shock
- Compensation for Misalignment
- Self-Cleaning Wide Arch
- Wide Choice of Flange Construction Materials Available
- Lighter Weight

<table>
<thead>
<tr>
<th>AVAILABLE STYLES &amp; MATERIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROCO MATERIAL CODE</td>
</tr>
<tr>
<td>TUBE ELASTOMER</td>
</tr>
<tr>
<td>COVER** ELASTOMER</td>
</tr>
<tr>
<td>MAX. OPERATING TEMP. °F (°C)</td>
</tr>
<tr>
<td>BANDING LABEL COLOR</td>
</tr>
<tr>
<td>F.S.A. MATERIAL CLASS</td>
</tr>
<tr>
<td>260-R*</td>
</tr>
<tr>
<td>X X /BB Chlorobutyl Chlorobutyl 250 (121) Black STD. III</td>
</tr>
<tr>
<td>S S /EE EPDM EPDM            250 (121) Red STD. III</td>
</tr>
<tr>
<td>S S /NH Neoprene CSM         212 (100) Green STD. III</td>
</tr>
<tr>
<td>X X /NN Neoprene Neoprene    225 (107) Blue STD. II</td>
</tr>
<tr>
<td>S S /NP Neoprene Nitrile     225 (107) Yellow STD. II</td>
</tr>
</tbody>
</table>

**Notes:**
- All products are reinforced with tire cord and metal materials.
- * Products mark (S) are in stock items.
- ** All NN, NH & NP elastomer designated joints meet the Coast Guard Requirements and conform to ASTM F 1123-87.

**Proco 261R Series Molded Wide Arch**

Proco Style 261R molded wide arch expansion joints have the lowest spring rates of any expansion joints currently on the market. They also boast low forces to deflect, and are built to withstand even the most rigorous piping system configurations. They allow for axial compression or axial extension, and lateral deflection as well as angular and torsional movements.

**PROCO STYLE 440-BD**

The Proco Style 440-BD Molded Expansion Joints can be used for corrosive applications that are found in industries such as chemical-petrochemical, industrial process piping systems, power generation plants, pulp/paper plants, water and wastewater sewage, and pollution control systems. Wherever metallic joints, lap joints, or PTFE and FEP-lined rubber expansion joints were previously used, the Proco Style 440-BD can also be used.

**Features:**
- Absorption of pipe-wall and fluid-borne noise
- Reduction of system stress and strain
- Isolation of mechanical vibration and motion
- Superior "Flex Life" and strength
- Tested force pound and spring rate tables
- Coated flanges and factory set limit bolts
- Chemical service capability at minimal cost
- Elimination of electrolysis
- Protection against start up and surge forces

**EXPANSION JOINT SOLUTION FOR PLASTIC PIPING SYSTEMS**

The Proco Style 440-BD Molded Expansion Joints are specifically designed for use with plastic or FRP piping systems. 440- Proco Series 440 Molded PTFE Expansion Joints can be used for corrosive applications. Both models can also be used for connections off tanks.

**Features:**
- Absorption of pipe-wall and fluid-borne noise
- Reduction of system stress and strain
- Isolation of mechanical vibration and motion
- Superior "Flex Life" and strength
- Tested force pound and spring rate tables
- Coated flanges and factory set limit bolts
- Chemical service capability at minimal cost
- Elimination of electrolysis
- Protection against start up and surge forces

**SEE PAGE 18 FOR MORE DETAILS ON EXPANSION JOINTS**
Tank Accessories

Ladders & Seismic Restraint Systems
OSHA compliant ladders are available with and without cages in fiberglass and steel construction. Cable restraint systems are available that meet 150 mph wind load and IBC seismic requirements.

Variety of Manways
A wide variety of manways are available from 8” to 24” size in threaded vented styles, 12” to 24” in hinged styles, and 14” to 24” in bolted and sealed “vapor tight” styles.

Insulation and Heat Tracing
A heating element and thermostat can be installed to allow regulation of temperature. In temperature sensitive applications, Snyder tanks can be insulated with rigid urethane foam. The insulation carries an R-16 rating and has a chemical and weather resistant acrylic latex mastic coating.

Double Flanged Fittings with PE Encapsulated Bolts
Increase corrosion resistance without jeopardizing bolted fitting strength by utilizing Snyder’s encapsulated bolted fittings which ensure no metals come in contact with interior liquids. Available with PVC, CPVC, or PP flanges and with 316 SS, Titanium or Hastelloy encapsulated bolts.

Stainless Steel Bolted Fittings
For maximum sealing power and fitting strength, Snyder specially cast, 316 stainless steel fitting to provide long-term durability and leak resistance.
Tank Accessories

Snyder Flexmaster™

In recent years, a variety of expansion joint products have been utilized to help alleviate the stress generated at the tank and piping interface points. While some of these products can be an expensive alternative in steel tank installations, none provide the degree of expansion required in a plastic tank, which is why Snyder engineering has been compelled to develop a solution to this age-old problem.

The Flexmaster™ is a uniquely designed flexible tank connection that allows a tank’s sidewall to move freely, which substantially reduces stress at fitting locations, resulting in longer, trouble-free tank installations.

It’s a well known fact within the tank manufacturing industry that the majority of all tank failures occur at a fitting location. This is because, the rigidity of a tank’s plumbing connection apparatus typically does not allow the tank sidewall to expand and contract adequately, which creates a stress point that ultimately becomes the cause of failure at some stage within a tank’s useful life.

Bottom Line, Flexmaster will increase the useful life of your company’s tanks while reducing the risk of premature tank failures, which will ultimately result in more profits. Flexmaster is constructed of the same polyethylene resin as the tank, which guarantees superior chemical resistance at a lower cost than traditional expansion joints.

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>5390100N95401L</td>
<td>2” Flange Connector Assembly - HDLPE</td>
</tr>
<tr>
<td>5390100N99601L</td>
<td>2” Flange Connector Assembly - XLPE</td>
</tr>
<tr>
<td>5390000N95401L</td>
<td>3” Flange Connector Assembly - HDLPE</td>
</tr>
<tr>
<td>5390000N99601L</td>
<td>3” Flange Connector Assembly - XLPE</td>
</tr>
</tbody>
</table>

Snyder Ultrasonic Level Indicator

Snyder’s Ultrasonic Level Indicator allows a simple and reliable non-contact level measurement of fluids in a vertical single wall or double wall polyethylene tank.

Ultrasonic sensors transmit pulsed waves of high frequency sound. If the sound wave meets a reflective object, such as liquid, it bounces back toward the sensor. The sensor records the information and calculates the distance to the object.

Snyder’s Ultrasonic Level Indicator system provides a visual display of liquid level in tank showing gallonage in measurements of hundreds of gallons along with 4-20 mA output for other alarm or control systems as well as four independent contacts capable of handling 10 amps each. Each contact can be programmed to operate in different opening and closing methods (7 modes). Contacts can be used to control pumps, valves, alarms, etc.

Benefits
- Easy to install
- Self-contained sensor is virtually maintenance free
- Internal temperature compensation
- Provides visual level, switch, controller and transmitter capabilities
- Replacement of multi-point float, conductivity and pressure switches
- Tank inventory monitoring and logistics improvement
- Process control – filling and emptying tanks

Features
- Provides switch, controller and transmitter capabilities.
- All plastic construction with NEMA 4X rating.
- Replacement of multi-point float, conductivity and pressure switches.
- Range: 20 foot
- Dead band: 12 inches
- Signal output: 4-20 mA
- Supply voltage: 110 or 220 VAC and 24 VDC
- Contact amperage: 10 amps
- Number of contacts: 4
- Connection: 2” NPT standard
- Accuracy: 0.25% of range (with no temperature gradient)
Process Technology Electric Immersion Heaters

Fluoropolymer (PTFE) Heaters
Compatible with virtually any chemistry. Sizes up to 18 kilowatt, single or three phase. Large variety of standard and custom configurations for over-the-side and tank bottom installations. Screw plug and flange heaters in sizes from ½-inch screw plug (100 Watt) to 6-inch flange (18 kW). Thermal overtemperature protection standard (except screw plug). cULus and CE.

Metal Heaters
Variety of materials to match your application (titanium, 316 and 304 stainless steel, and plain steel). Sizes up to 54 kW. Standard and custom configurations for over-the-side and bottom installations in open tanks. Screw plug and flange heaters in titanium and 316 stainless, sizes from ½-inch screw plug (100 Watt) to 6-inch flange (72 kW). Thermal overtemperature protection standard (except screw plug) cULus and CE.

Special Application Heaters
We specialize in unique and difficult applications. Configurations available include: quartz heaters, phosphate heaters, lab heaters, flexible riser heaters, deep tank heaters, Varipower™ heaters, EASYPLUG™ heaters (heater plugs into the control, the control plugs into the wall).

Process Technology Inline Heaters

Water Heaters
Point of use electric water heaters for industrial applications. Excellent for DI spray rinse, precision cleaning, reverse osmosis water, city water, and salt water. Integrated heater and control system. Wall mounted up to 72 kW, floor mounted up to 144 kW. Single pass or recirculation. All titanium or stainless steel wetted parts. Custom controls available. cULus.

Chemical/Solvent Heaters
Optimum solution for heating solvents and IPA! 316SS Electropolished heaters for Surface Finishing and Solvent applications. Up to 36 kW and temperature range up to 180°C. Single pass or recirculation. All 316 stainless steel wetted parts. Custom controls available. UL823, UL499, CSA 22.2 and CE certified.
Tank Controls

Process Technology Immersion Coils and Inline Exchangers

Metal Immersion Coils
Designed and built to your specific application needs. Grid coils (single and multi-layer), serpentine coils, helical coils and "U" coils. Standard and custom designs. Steam or water service for heating or cooling. Immersion liquid-to-liquid heating/cooling. Wide variety of materials available including: titanium, 316 stainless steel, and zirconium.

Fluoropolymer Immersion Coils
Rugged construction for difficult applications. Integral perforated fluoropolymer guards. Excellent chemical compatibility. 30 PSI steam, 60 PSI steam, or water service. Integral inlet/outlet manifolds for single point plumbing connections. Immersion liquid-to-liquid heater/cooling. Up to 46 square feet (4.3 square meters) exchangers are available.

Inline Heat Exchangers
Sized to your application. 316L stainless steel spiral plate (up to 15 square feet/1.4 square meters) design. Custom manufactured shell and tube fluoropolymer heat exchangers also available, contact factory for assistance.

Power Supplies

Power Supplies/Rectifiers
Now offering a wide range of highly accurate and precise DC, Pulse, and Pulse Reverse power supplies! Featuring output ranges from 0.001 amperes to 13,000 amperes.

Temperature and Liquid Level Controls

Temperature Controls
Wide range of styles available for your wet process application. Digital controls in 1/4, 1/8 and 1/16 DIN sizes. Combination controls for large heater installations up to 150 amp capacity. Custom designed central control stations. Fluoropolymer-covered temperature sensors included standard. Plastic enclosures for chemical resistance.

Liquid Level Controls
Conductivity and capacitive style level controls for the ultimate in reliability. Multi-level controls available (up to five levels in one probe assembly). Can be packaged and matched with our temperature controls. Several materials available for chemical compatibility.

Accessories
We offer a wide variety of accessories including: thermowells to stabilize temperature sensors in the tanks, digital timers to start heat up cycles, amp hour meters to measure rectifier output, solenoid valves to turn on/off heat exchangers, strainers to remove contaminants from steam lines, coil insulators to protect metal heat exchangers from stray electrical current, vacuum breakers for protecting fluoropolymer heat exchangers in steam lines from collapse, and rigid temperature sensors.

www.fabcoplastics.com