**Tank Fittings and Adapters**

To add to the versatility of your shipping, storage and material handling containers, Fabco offers a complete range of accessories. Each is engineered and manufactured to work precisely with the container it’s designed for. Accessories include bulkhead fittings with gaskets, welded bosses, ball valves, covers, tank stands and flexible connectors.

**FITTINGS:**
The Standard threaded fittings recommended for our polyethylene tanks are the welded polyethylene female Boss and the removable PVC Bulkhead fitting. Half and full welded couplings are also available. All threaded fittings are standard NTA.

**VALVES:**
PVC True Union ball valves and polypropylene gate valves are available. The PVC TU ball valve permits easy disconnect without disturbing plumbing and has replaceable seats and seals. An economy tap is available for small tank applications and is used with either a threaded boss or bulkhead fitting.

**CUSTOM PLACEMENT OF VALVES AND FITTINGS:**
FABCO is ready to help with your specific requirements and can assemble a tank-accessory package that will uniquely meet your storage, mixing or dispensing application.

**ORDER INFORMATION:**
When ordering a tank with fitting(s) installed, identify the connection, type, size, and exact location. If positioning is critical to the installation, it is recommended that a dimensional drawing accompany the order. If installing your own fittings, cut holes at least 1/16” (1.59 mm) larger in diameter than piece to be installed. Care must be taken to allow clearance of inside flange or bottom inside radius of tank.

**Notes:**
- Identify fitting and specify its exact location. If installing your own fittings, cut holes at least 1/16 in. larger in diameter than piece to be installed. Care must be taken to allow clearance of inside flange.
- The standard threaded fitting recommended for polyethylene tanks is a removable P.V.C. Adaptor (Bulkhead or Compression Fitting) with FEMALE N.P.T. and Neoprene Gaskets. Where chemical reaction does not permit P.V.C. and Neoprene Fittings, Polyethylene welded Boss with FEMALE N.P.T. can be used as an alternative.
- Welded poly bosses full and half couplings, and gusseted flanged nozzles are available for installation on all containers.
- Fabricated options such as baffles, interior piping, welded covers and tank extensions are available.
- Special and custom sizes available on request.
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-100™ 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 an 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.

Flexi-Joint Connections

This unique product is a built-in shock absorber. It can absorb movement & stress, accommodate pipe misalignment, surge force protection, and isolate pump vibration. It allows you to install direct to a tank with confidence. Available in a variety of diameters.
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.

Liquid Level Assemblies
Liquid levels can be monitored more closely with external sight gauges and ultrasonic level sensors.

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.

Flexmaster
A uniquely designed flexible tank connection that allows a tank’s sidewall to move freely, substantially reducing stress at fitting locations resulting in longer, trouble free tank installations.

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.

ALL DIMENSIONS AND US GALLON CAPACITIES ARE NOMINAL AND SUBJECT TO CHANGE
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.

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>5390100N95401</td>
<td>2” Flange Connector Assembly - HDLPE</td>
</tr>
<tr>
<td>5390100N99601</td>
<td>2” Flange Connector Assembly - XLPE</td>
</tr>
<tr>
<td>5390000N95401</td>
<td>3” Flange Connector Assembly - HDLPE</td>
</tr>
<tr>
<td>5390000N99601</td>
<td>3” Flange Connector Assembly - XLPE</td>
</tr>
</tbody>
</table>

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 tanks 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.

SUMO™

Snyder Industries’ unique molded drain fitting, the SUMO™, has been developed from knowledge accumulated from over 50 years of rotationally molding polyethylene tanks. The SUMO™ was designed to help ensure maximum liquid drainage from vertical bulk storage tanks.

**Maximum Drainage:**
Using standard bulkhead fittings as outlets for vertical storage tanks can leave as much as 9” of liquid in the bottom of the tank. This means the tank is keeping your product, and your money. The SUMO™ provides maximum drainage so the product gets to your customer. It also helps reduce unscheduled maintenance downtime due to build up of sediment.

**Ease of Installation:**
Because SUMO™ is molded into the tank, pipe and fitting assembly is also easier with no secondary siphon tube assembly required.

Snyder is able to encapsulate either a stainless steel, hastelloy, or titanium insert into the wall of the tank. This encapsulated insert is then sealed off from the liquid contents of the tank by the two O-rings that are installed on a specially machined male adapter.

The SUMO™ provides a metal reinforcement completely isolated from any chemical attack.

Maximum tank drainage results from the SUMO™ being molded at the knuckle radius of the tank.