

**Guideline Specifications Threaded Penetrations****Guideline Specifications****Threaded Penetration Fittings****About the Product**

Diversified's threaded penetration Fittings shall consist of a machined Acetal Body, a mating machined Acetal Nut and an Alcryn boot over molded onto the body.

Bodies and Nuts are manufactured with CNC machine cut modified ACME threads. Thread design shall not allow threads to jump when tightening.

The over molded boot shall have a conical seal design that will allow the penetration to seal to round or flat surfaces. Conduit penetrations shall seal without leaking to 24" diameter pipes, or risers. The Alcryn sealing surface shall have ribs and grooves creating multiple seals to a flat or round surface. Ribs and grooves shall also accommodate any bonding agent applied to the penetration or mating surface and shall promote the even spreading of the sealing agent.

Penetrations shall be installed in a single hole. Holes shall be made using standard size domestic hole saws. The product number of the penetrations fitting defines the hole saw to be used. Thus a B2 penetration shall be installed in a 2" hole.

Threaded Penetrations are available in single sided and double sided configurations.

Penetration fittings shall be available in all sizes used in the Petroleum Equipment Industry.

B2 Series shall be available for ½", ¾" & 1" rigid Conduits

B3.5 Series shall be available for 1 ½" nominal through 2" LCX and 75mm Pipes

B5 Series shall be available for 2" nominal through 3" LCX pipes

B6 Series shall be available for pipes up to 4" nominal and 4" LCX pipes

Penetrations are also available in all metric sizes from 32mm through 110 mm pipes.

B2 series are available with inserts to convert penetrations for 1" rigid conduits to ¾", ½" and other custom sizes.

B3.5 & B5 series penetrations are available with step down reducers molded into the part. Step down reducers shall have molded in integral air valves. Typical applications would include 3" over 2" for FRP pipes, 63x50 mm pipes and 75x63mm pipes.

Guideline Specifications (PF-Bx & PF-BxD)

Provide "B" series penetration fittings as shown on the drawing or as otherwise specified. All penetrations shall have machine cut ACME threads. Products with molded threads shall not be acceptable. Provide penetration fittings for all sizes of pipe entering or leaving Tank sumps, UDC Sumps and transition sumps. All penetrations shall be designed to seal to flat and curved surfaces. Sealing surfaces shall have ridges and grooves to provide multiple sealing surfaces for each fitting. Install fittings using the recommended cleaners and sealants.

Provide double sided penetrations where indicated. Double sided fittings shall be provided with a rock guard that seals to the B series penetration fitting on the sump exterior and to the pipe penetrating the fitting.

Shipping, Restrictions & Data

Installation instructions shall be packaged with each box of fittings. Follow all installation instructions for this product.

Penetrations shall be third party approved and have been listed by UL to 1996 or later protocols.

All penetrations shall be made in the USA.

Use the following recommended products when installing these penetrations. –CH-DBC II Cleaner, and CH-DBB V Bonder.