



2D Blocks for AutoCAD*

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Victaulic 2D Blocks for AutoCAD

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Victaulic 2D Blocks for AutoCAD

What is Victaulic 2D Blocks for AutoCAD?

Designed specifically for AutoCAD users, Victaulic 2D Blocks for AutoCAD is a dimensionally accurate, two (2) dimensional block library of the Victaulic product line created to assist with piping system layout drawings.

Drawn at full scale, blocks representing the complete size range of a given component are grouped together and stored on a single master sheet drawing. These master sheets can be used with AutoCAD **DesignCenter** in order to place individual components into piping drawings. Each block contains a common insertion point and connection nodes for ease of location and placement. Coupling blocks have two (2) nodes that represent the gap takeout that occurs when a coupling connects two (2) grooved piping components (fittings, valves and/or pipe). By using the nodes within the blocks in conjunction with the AutoCAD OSNAP commands, users can create accurate pipe cut lengths for reporting on bill of materials. See Node Visibility on page 7 for more information.

Once inserted into a drawing, the Victaulic piping components can be easily manipulated by using basic AutoCAD editing commands. In AutoCAD 2007 and later versions, the user is able to create custom Tool Palettes with the included block files. Refer to the AutoCAD help menu for more information about Tool Palettes.

In AutoCAD 2007 and up, pipe can be placed using predefined MLINEs or DLINE in AutoCAD LT. See AutoCAD help for more information on these commands.

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Victaulic 2D Blocks for AutoCAD

Naming Convention

Each component block is named according to a convention that represents its generic description, nominal imperial and metric size, product style, series or part number and its viewpoint orientation (see Fig. 1 below).

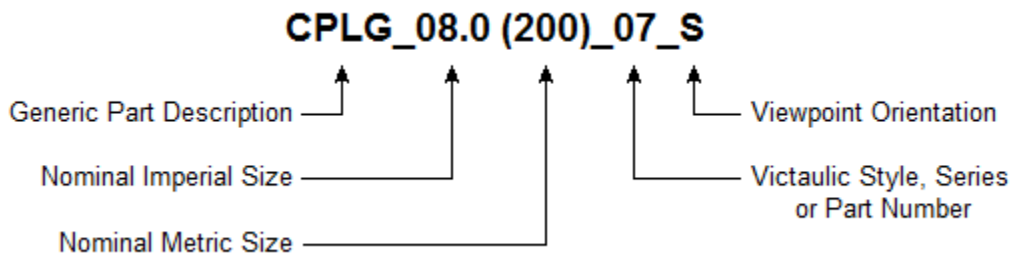


Fig. 1

Note:

OD sized components are designated with an "X" directly following the imperial size in the block name.

Example: **CAP_03.0X (76.1)_60_S.dwg** - This would be a side view of a 3" OD (76.1mm) No. 60 Cap

In addition, elbows include a degree designation before the imperial size.

Example: **ELBOW_90_06.0 (150)_10_T.dwg** - This is a top view of a 6" (150mm) 90 Degree No. 10 Elbow

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Downloading

Victaulic 2D Blocks for AutoCAD is available for download at the following web address . . .

www.victaulic.com/en/downloads/cad-files-software/vic-blocks-2d/

The full set of 2D blocks can be downloaded by clicking [Download Complete Package](#) near the top of the selection list.

- or -

1. Locate the piping module(s) required.
Note: Clicking the  will expand the list of available piping components for that module.
2. Select [Download](#) next to the required module
3. Choose a computer location to save the downloadable ZIP file to

Installation

1. Extract the block DWG files from the downloaded ZIP file to a computer system drive location
Example: C:\Victaulic\VB2D\IPS\ where IPS is the module that was downloaded.
2. Launch AutoCAD
3. Start DesignCenter (type **DC** or press **Ctrl + 2** on the keyboard to open the dialog box)
4. In the Folder List area of the DesignCenter dialog box, navigate to the required piping component
Example: Coupling_Style_07_Zero-Flex_Rigid_[2D].dwg
5. Click on **Blocks** and the dialog box will be populated with the available components
(See Fig. 2 on page 6)

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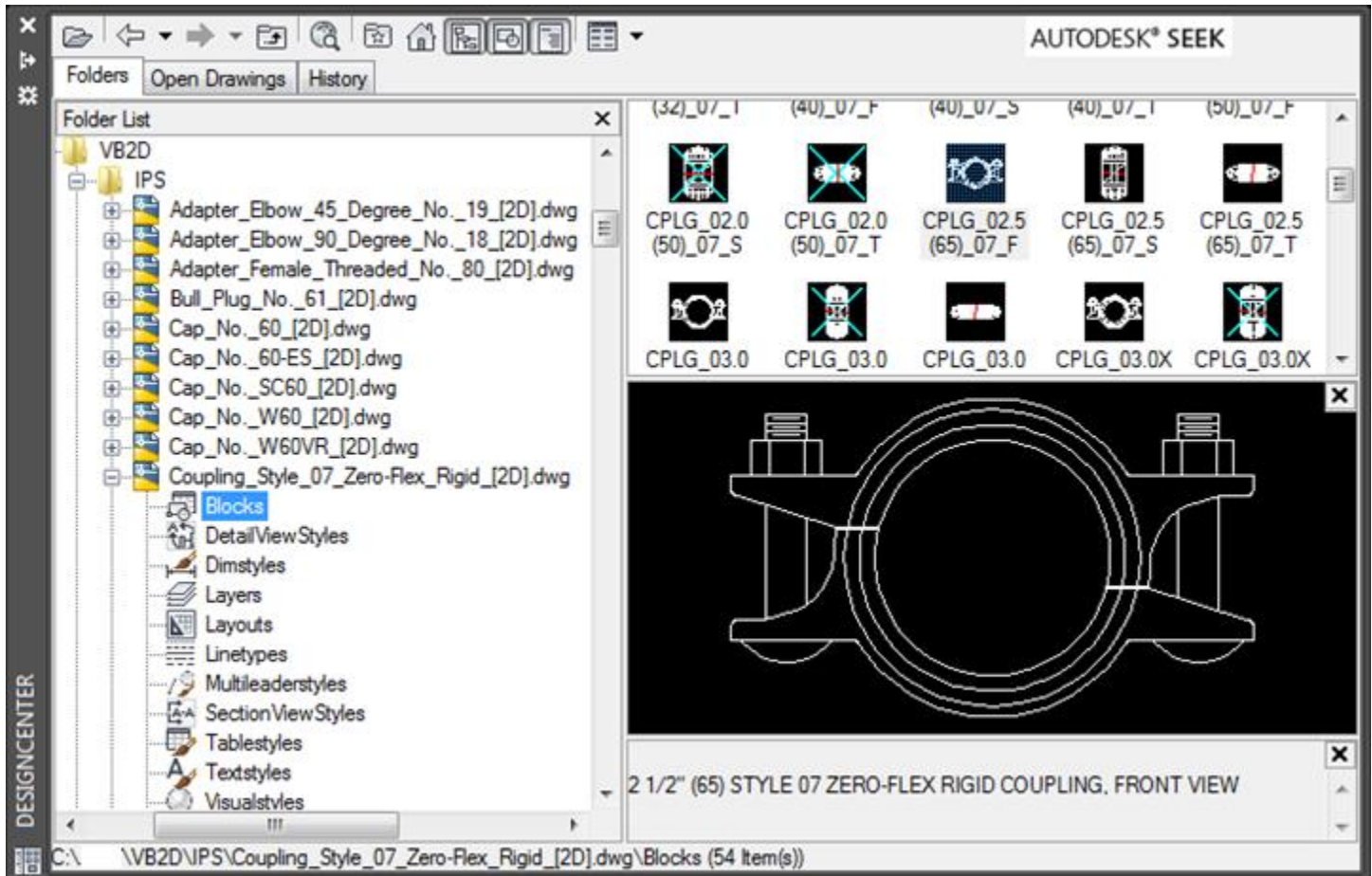


Fig. 2

See AutoCAD help for more information on DesignCenter

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Helpful Information

Node Visibility

Every 2D block contains an AutoCAD node (POINT) at each connection location that can aid in placing piping components. In order to see these nodes more easily, set the **PDMODE** variable to **3** and set **PDSIZE** to **0**. These nodes will be displayed as a cyan colored "X" (see Fig. 3 below).

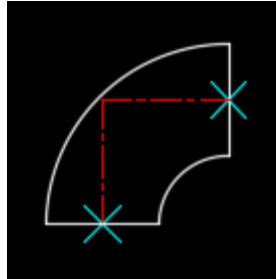
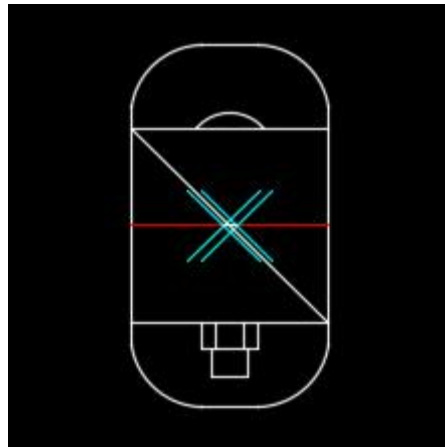


Fig. 3

By turning on the AutoCAD Node Object Snap (OSNAP), the user can effortlessly place connecting piping components. See AutoCAD help for more information on using Object Snaps.

Most Victaulic coupling blocks contain two (2) nodes that represent the gap takeout required for accurate pipe cut lengths. These nodes are very close together and can be difficult to differentiate on larger couplings (see Fig. 4 below).

Care should be taken when attaching to and/or from couplings for proper results. As a general rule, the left node is also the insertion point for a coupling.



Side View of a Coupling
Fig. 4



Victaulic 2D Blocks for AutoCAD

Helpful Information

CPLG-FILL Layer in Rigid Couplings

Rigid couplings include the CPLG-FILL layer. This layer provides the user a graphical way to discern between rigid and flexible couplings on piping layout drawings (see Fig. 5 below).



Fig. 5

Mechanical-T and Cross Placement

The Victaulic Mechanical-T and Cross are designed to be placed one (1) half at a time. This allows the creation of multiple configurations without excessive file size.

The block insertion point is the centerline of the pipe run (see Fig. 6 below). To place a Mechanical-T or Cross, simply use DesignCenter to select the desired block by its pipe run and outlet size, place the block in the piping layout and then attach the required corresponding block using the node/insertion point of the first block to complete the component (see Fig. 7 below).

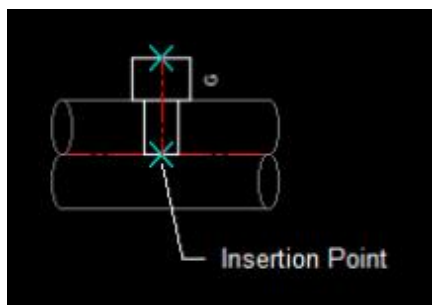


Fig. 6

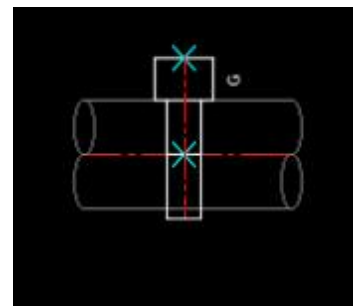


Fig. 7

