Function GetFlangeFilename(strFlangeType As String, strFlangeEnd As String, dblSize As Double) As String

' This function determines the full path and filename of the end connection that is needed, based on the flange type,

' flange end connection, and size

Dim strFilename As String

' If the end connection is "Open", then we just return a flange part

If strFlangeEnd = "Open" Then

strFilename = LIBRARY\_PATH & "Flanges\ASME B16.5 Flange " & strFlangeType & " - Class 150 " & dblSize & ".ipt"

' If the end connection is "Capped", then we find which pre-created assembly includes the desired flange and cap

' The files in the library were setup with a consistent naming convention so that it was easy to derive the filenames

' based on this information

ElseIf strFlangeEnd = "Capped" Then

strFilename = LIBRARY\_PATH & "Flanges\" & strFlangeType & " to Blind - " & dblSize & ".iam"

' If the end connection is "Valve", then we find which pre-created assembly includes the desired flange and butterfly valve

' The files in the library were setup with a consistent naming convention so that it was easy to derive the filenames

' based on this information

Else

strFilename = LIBRARY\_PATH & "Valves\Butterfly\" & dblSize & " Inch\" & strFlangeType & " to Threaded Valve - " & dblSize & ".iam"

End If

' Set our resulting filename string to the GetFlangeFilename function so that it can be returned to our calling statement

GetFlangeFilename = strFilename

End Function