Function GetFlangeOffsetDistance(strFlangeType As String, strFlangeEnd As String, dblFlangeSize As Double) As Double

' This function determines what the initial flange offset distance should be for any end connection based on its

' flange type, flange end connection, and size

' It's pretty straight forward and just assigns empirically derived offset values based on the type of end connection

Dim dblFlangeOffsetDistance As Double

If strFlangeType = "Welding Neck" Then

If dblFlangeSize = 3 in Then dblFlangeOffsetDistance = 8.5 in

If dblFlangeSize = 4 in Then dblFlangeOffsetDistance = 9 in

If dblFlangeSize = 6 in Then dblFlangeOffsetDistance = 9.5 in

If dblFlangeSize = 8 in Then dblFlangeOffsetDistance = 10 in

Else

If dblFlangeSize = 3 in Then dblFlangeOffsetDistance = 6.25 in

If dblFlangeSize = 4 in Then dblFlangeOffsetDistance = 6.31 in

If dblFlangeSize = 6 in Then dblFlangeOffsetDistance = 6.56 in

If dblFlangeSize = 8 in Then dblFlangeOffsetDistance = 6.5 in

End If

If strFlangeEnd = "Valve" Then dblFlangeOffsetDistance = dblFlangeOffsetDistance + 1 in

GetFlangeOffsetDistance = dblFlangeOffsetDistance

End Function