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```
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
```