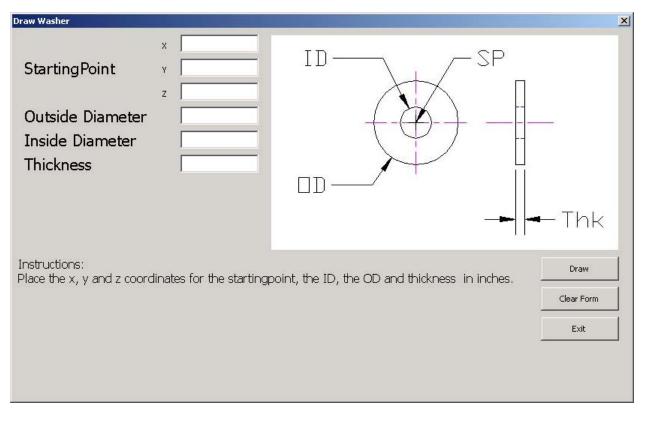
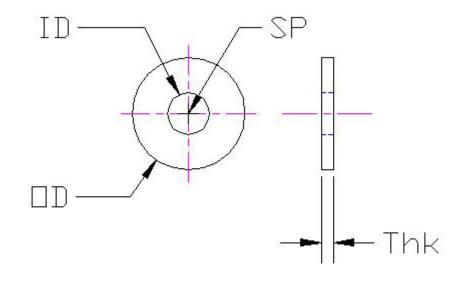
The Washer







Option Explicit Y4 = txtStartingpointY 'Public Function LineTypeExists(LinTyp As String) As Boolean Y1 = Y4 - OD/2 - 0.125'Dim LinType As AcadLineType Y2 = Y1 + 0.125'Dim hlt As Boolean Y3 = Y4 - ID / 2Y5 = Y3 + ID'Dim clt As Boolean 'If LinType.Name = "hidden" Then hlt = True Y6 = Y2 + OD'If LinType.Name = "center" Then clt = True Y7 = Y6 + 0.125'End Function Z1 = txtStartingpointZ Sub washer() 'Point assignment 'define the layers and linetypes P1(0) = X1Dim LinType As AcadLineType Dim objLayer As AcadLayer P1(1) = Y4Dim objNewlayer As AcadLayer P1(2) = Z1P2(0) = X2Dim objLinetype As AcadLineType P2(1) = Y4'define the starting and centerpoint arrays, width, height and radius P2(2) = Z1P3(0) = X3P3(1) = Y4Dim objLine As AcadLine Dim ObiCircle As AcadCircle P3(2) = Z1Dim P1(0 To 2) As Double P4(0) = X2P4(1) = Y1Dim P2(0 To 2) As Double P4(2) = Z1Dim P3(0 To 2) As Double P5(0) = X2Dim P4(0 To 2) As Double Dim P5(0 To 2) As Double P5(1) = Y7P5(2) = Z1P6(0) = X5Dim P6(0 To 2) As Double Dim P7(0 To 2) As Double P6(1) = Y2Dim P8(0 To 2) As Double Dim P9(0 To 2) As Double P6(2) = Z1P7(0) = X6P7(1) = Y2Dim P10(0 To 2) As Double Dim P11(0 To 2) As Double Dim P12(0 To 2) As Double P7(2) = Z1Dim P13(0 To 2) As Double P8(0) = X5Dim P14(0 To 2) As Double P8(1) = Y3P8(2) = Z1Dim P15(0 To 2) As Double Dim OD As Double P9(0) = X6Dim ID As Double P9(1) = Y3Dim Thk As Double P9(2) = Z1P10(0) = X4Dim X1 As Double P10(1) = Y4P10(2) = Z1Dim X2 As Double Dim X3 As Double P11(0) = X7P11(1) = Y4Dim X4 As Double Dim X5 As Double P11(2) = Z1P12(0) = X5Dim X6 As Double P12(1) = Y5Dim X7 As Double P12(2) = Z1P13(0) = X6Dim Y1 As Double P13(1) = Y5Dim Y2 As Double P13(2) = Z1Dim Y3 As Double P14(0) = X5Dim Y4 As Double Dim Y5 As Double Dim Y6 As Double Dim Y7 As Double Dim Z1 As Double 'let the point positions 0 1 and 2 accept data from the textboxes 'End If OD = txtODID = txtIDThk = txtThk'End If X2 = txtStartingpointXX1 = X2 - OD / 2 - 0.125X3 = X2 + OD / 2 + 0.125X4 = X3 + 1

X5 = X4 + 0.125

X7 = X6 + 0.125

X6 = X5 + Thk

P14(1) = Y6P14(2) = Z1P15(0) = X6P15(1) = Y6P15(2) = Z1'If Not clt = True Then ThisDrawing.Linetypes.Load "Center", "acad.lin" 'If Not hlt = True Then ThisDrawing.Linetypes.Load "Hidden", "acad.lin" 'Set Up Centerline and Hidden Layers Set objLayer = ThisDrawing.Layers.Add("Centerlines") objLayer.Color = acBlue objLayer.Linetype = "Center" Set objLayer = ThisDrawing.Layers.Add("Hiddenlines") objLayer.Color = acGreen objLayer.Linetype = "Hidden"

'Draw continuous lines

ThisDrawing.ActiveLayer = ThisDrawing.Layers("0") Set ObjCircle = ThisDrawing.ModelSpace.AddCircle(P2, ID /

- 2)
- Set ObjCircle = ThisDrawing.ModelSpace.AddCircle(P2, OD / 2)
 - Set objLine = ThisDrawing.ModelSpace.AddLine(P6, P7) Set objLine = ThisDrawing.ModelSpace.AddLine(P14, P15) Set objLine = ThisDrawing.ModelSpace.AddLine(P6, P14) Set objLine = ThisDrawing.ModelSpace.AddLine(P7, P15)

'Draw centerlines

```
ThisDrawing.ActiveLayer = ThisDrawing.Layers("Centerlines")
Set objLine = ThisDrawing.ModelSpace.AddLine(P1, P3)
Set objLine = ThisDrawing.ModelSpace.AddLine(P4, P5)
Set objLine = ThisDrawing.ModelSpace.AddLine(P10, P11)
```

'Draw hidden lines

ThisDrawing.ActiveLayer = ThisDrawing.Layers("Hiddenlines") Set objLine = ThisDrawing.ModelSpace.AddLine(P8, P9) Set objLine = ThisDrawing.ModelSpace.AddLine(P12, P13)

End Sub

Private Sub cmdClearform_Click() 'clear the form txtStartingpointX = "0.00" txtStartingpointY = "0.00" txtStartingpointZ = "0.00" txtOD = "0.00" txtID = "0.00" txtThk = "0.00"

End Sub

Private Sub cmdDraw_Click() 'draw the part washer End Sub

Private Sub cmdExit_Click() 'unload and end program Unload Me End End Sub