FULLY DIMENSIONED OBJECT – SW_09 IN CLASS OBJECT

REVIEW THE 10 BASIC DIMENSIONING GUIDELINES

1. STEP 1 – ADD CENTER LINES AND ANY MISSING CENTER MARKS
2. STEP 2 – DIMENSION HEIGHT, WIDTH & DEPTH
3. STEP 3 – SIZE & LOCATE ALL FEATURES
4. ADD ANY APPROPRIATE NOTES (SCALE CHANGES, SYMMETRY, ETC)

A. ESTABLISH HEIGHT, WIDTH & DEPTH AFTER DRAWING CENTERMARKS AND CENTERLINES. PLACE H, W & D IN MOST CHARACTERISTIC VIEW (DEPTH = 2 * R1.00, WIDTH = 2.00 + R1.00, HEIGHT = 2.00). YOU SHOULD ALWAYS AVOID DIMENSIONING TO CURVED SURFACES USING LINEAR DIMENSIONS. THUS IT WOULD BE INCORRECT TO ESTABLISH THE WIDTH IN THIS DRAWING WITH A SINGLE END TO END DIMENSION.

B. DIMENSION NEGATIVE CYLINDERS (HOLES) WHERE THEY APPEAR AS CIRCLES.

C. DIMENSION POSITIVE CYLINDERS WHERE THEY APPEAR AS RECTANGLES.

D. DIMENSION RADII WITH AN ‘R’ DESIGNATION.

E. DIMENSION DIAMETERS WITH A ‘Ø’ DESIGNATION.

F. ESTABLISH SIZE AND LOCATION OF FEATURES IN THEIR MOST CHARACTERISTIC VIEW.

G. SYMMETRY NOTE. WITHOUT THE NOTE, DIMENSIONING WOULD HAVE BEEN MUCH MORE DIFFICULT.

H. AVOID DIMENSIONING TO HIDDEN LINES.

I. SCALE CHANGE NOTE.

J. VISIBLE GAP BETWEEN EXTENSION LINE AND FEATURE