Mixed Metric Workspace Environment Variables

This document will explain the variables used in a mixed metric workspace environment

These variables are defined in OPPowerPID\_Metric.pcf)

#Alternate unit scaling and configurations

ALT\_SCALE\_FACTOR=25.4

ALT\_ROUND\_OFF\_FOR\_SCALE\_FACTOR=2

ALT\_ROUND\_OFF\_FOR\_SCALE\_FACTOR\_FOR\_POINTS=4

ALT\_SIZE\_LIST=METRIC\_PIPE\_SIZES

ALT\_RUN\_SIZE=80

ALT\_RUN\_NOMINALSIZE=80

ALT\_BORDER\_LIST=METRIC\_BORDER\_LIST

ALT\_BUBBLE\_SIZE=2.0

ALT\_OVAL\_BUBBLE\_WIDTH\_SIZE=3.0

DEFAULT\_INSTRUMENT\_ANNOTATION\_CLASS=INSTRUMENT\_OVAL\_ANNOTATION

ALT\_USE\_METRIC\_SPEC\_MODE\_SIZE=True

BMF\_REPORT\_VALUES\_SCALE\_FACTOR=25.4

USE\_SCALE\_FOR\_ANNOTATION=True

# Variable Details

1. ALT\_SCALE\_FACTOR

Variable that controls the overall scaling for cells and offsets. Offsets include connection points, annotation offset, pipe run auto routing and gapping (padding).

1. ALT\_ROUND\_OFF\_FOR\_SCALE\_FACTOR

Variable that controls the decimal round off for scaling. This is useful for getting whole numbers.

Example:

Scale factor applied to value:

25.4 \* 0.125 = 3.175

Round off set to 0. Value returned

3.0

1. ALT\_ROUND\_OFF\_FOR\_SCALE\_FACTOR\_FOR\_POINTS

Same as above but applied to connection points.

1. ALT\_SIZE\_LIST

Variable that controls the SIZE property variable display. The value is the class name in schema that contains the array list of valid sizes.



1. ALT\_RUN\_SIZE

Variable that controls the default SIZE and DESIGN\_SIZE property values.

1. ALT\_RUN\_NOMINALSIZE

Variable that controls the default NOMINAL\_SIZE property value.

1. ALT\_BORDER\_LIST

Variable that controls the Border list display.



1. ALT\_BUBBLE\_SIZE

Variable that controls bubble radius size. The reason for this variable is that the bubble value would remain a constant size no matter the scaling value.

1. ALT\_OVAL\_BUBBLE\_WIDTH\_SIZE

Variable that controls the oval width size.

1. DEFAULT\_INSTRUMENT\_ANNOTATION\_CLASS

Variable that controls the class name that is used for the bubble annotation with Control Valves and Flow elements

1. ALT\_USE\_METRIC\_SPEC\_MODE\_SIZE

Variable that sets values to facilitate the querying of specs. This variable adds the “mm” to the SIZE value to query metric specs. It does not convert the size value to read imperial specs.

## Files and values not handled

Dgnlib and seed files contain metric values. The cell libraries are the same as in the imperial. Native MicroStation scales cells accordingly.

# To display Mixed Metric in Settings display.

In pcf file add the following variable

\_BMF\_USE\_MIXED\_METRIC\_UNITS=1

