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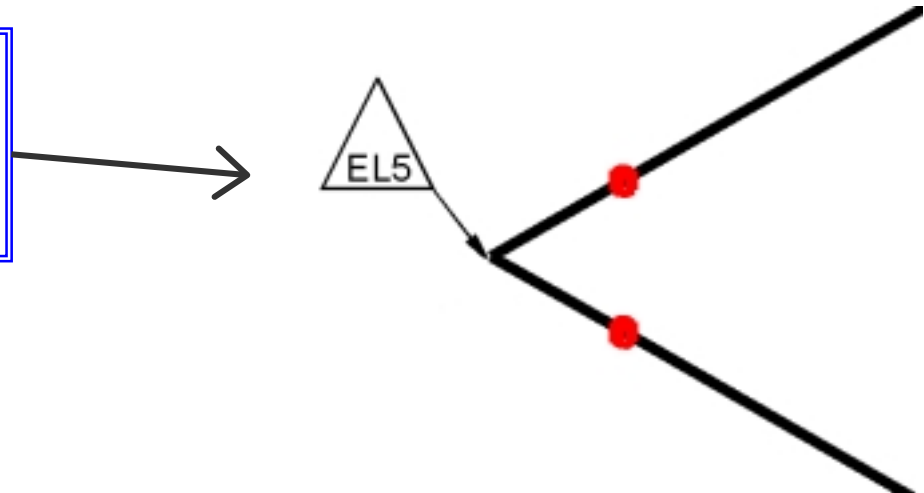
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In the 3D Piping Model User Defined Attributes can be input against individual components

They can then be extracted into the Piping Data File (IDF or PCF) and output against the components on the Isogen isometric and in certain output files

These attributes are called 'COMPONENT ATTRIBUTES'

This is an elbow with the
COMPONENT ATTRIBUTE
'EL5' output in a triangle shape
enclosure





Each individual component can have up to maximum of ten COMPONENT ATTRIBUTES added to it - and on the picture part of the isometric the attribute value can be enclosed in a variety of shapes (see slide number 4) - as defined in the Data Definition File (DDF)

The attribute values can also be listed in a dedicated column on the BOM and can be output in the following output files too -

- Printed BOM
- Material Control Output File
- Cut List Report on the isometric (for Pipe only)
- Cut List Output File (for Pipe only)



COMPONENT ATTRIBUTES are written out to the following record types -

1. In a PCF data file

In 'COMPONENT-ATTRIBUTE1' to 'COMPONENT-ATTRIBUTE10'

Example - PCF data record for a Component Attribute of 'EL5' on an Elbow

ELBOW

COMPONENT-ATTRIBUTE1 EL5

2. In an IDF file

In '-190' to '-199' record types

Example - IDF data record for a Component Attribute of 'EL5' on an Elbow

35 12500000 65500000 8859760 12500000 65500000 8875000 64 4, , 0, ELBW, 9000 1
-190 EL5
36 12500000 65500000 8875000 12500000 65515240 8875000 64 0, , 0, ELBW, 9000 1

COMPONENT ATTRIBUTES enclosures are defined in the Data Definition File (DDF) in a section named **COMPONENT-ATTRIBUTE-ENCLOSURES** like this -

COMPONENT-ATTRIBUTE-ENCLOSURES

COMPONENT-ATTRIBUTE_n MESSAGE-POINTED

This can be

MESSAGE-ROUND



MESSAGE-POINTED



MESSAGE-TRIANGLE



MESSAGE-DIAMOND



MESSAGE-SQUARE



MESSAGE-CIRCLE



MESSAGE-UNBOXED



Variable value multi COMPONENT ATTRIBUTES

Where there are multiple instances of a component type in the Piping Data File and the COMPONENT ATTRIBUTES have different values - the components may be reported on the BOM in two different ways -

Example - Data in the PCF for two elbow records -

ELBOW

COMPONENT-ATTRIBUTE1 EL1

ELBOW

COMPONENT-ATTRIBUTE1 EL2

How this condition is reported on the BOM depends on whether or not MATERIAL ACCUMULATION is set to ON or OFF - see the next slide

This example case is for two elbows where each elbow has a different Component Attribute value - EL1 and EL2

Case 1. When MATERIAL ACCUMULATION is set to ON

PT. NO.	COMP ATT	SIZE	ITEM CODE	DESCRIPTION	QUANTITY
2	MULTI	4	EEL90CFSTD-LBW	ELBOW, 90 DEG, FRG CS A234 WPB, STD WT, LR, BW	2

The word 'MULTI' (ATEXT -392) is listed to indicate that there are multiple attribute values

This method gives one material entry - with a Quantity of 2

Case 2. When MATERIAL ACCUMULATION is set to OFF

PT. NO.	COMP ATT	SIZE	ITEM CODE	DESCRIPTION	QUANTITY
5	EL1	4	EEL90CFSTD-LBW	ELBOW, 90 DEG, FRG CS A234 WPB, STD WT, LR, BW	1
6	EL2	4	EEL90CFSTD-LBW	ELBOW, 90 DEG, FRG CS A234 WPB, STD	1

Each attribute value is listed

This method gives two material entries - each with a Quantity of 1



MLD changes for Component Attributes

'COMPONENT-ATTRIBUTE_n' is a valid Data Item in the Material List Definition File (MLD) for all the following output types -

- Plotted BOM
- Printed BOM
- Material Control Output File
- Cut List Report on the isometric (Pipe only)
- Cut List Output File (Pipe only)

The Data Item entries in the MLD for the Style 3 BOM example on the previous page look like this -

STYLE3-DATA-ITEMS

'PT-NO'	375	2
'COMPONENT-ATTRIBUTE1'	390	6
'N. S. '	409	17
'ITEM-CODE'	438	16
'DESCRIPTION'	477	36
'QTY'	563	9

For full details of all the MLD features - see the slide set 'Material Lists MLD'