



User Positioned Text

The **TextPos** feature is used to position various ISOGEN parameters at user defined locations on the user's own backing frames.

(Although *ISOGEN* offers users the option of using several supplied drawing frames, it is most likely that once you have become an established user, you will want to make your own frame design and have your isometrics plotted onto that).

To specify text positions, a User Positioned Text Definition file is created with a record for each required parameter. There is a definition file for each "isotype" in the subdirectories under each project. Each record in these files includes a code to identify the parameter and the XY coordinates at which the text is to be positioned. Further data is specified to define the character width and height. See example below.

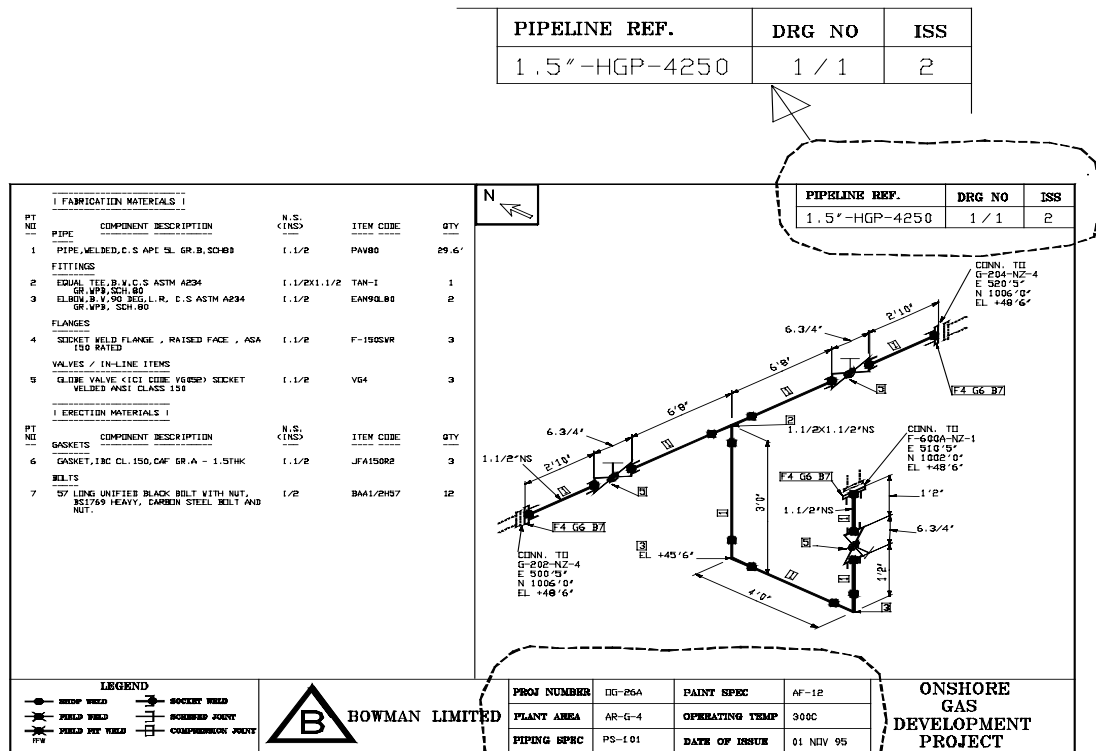
Examples of such parameters are

- ◆ the PIPELINE REFERENCE
- ◆ the PROJECT IDENTIFIER
- ◆ the PLANT AREA
- ◆ the PIPING SPECIFICATION
- ◆ the DATE OF ISSUE

Example

In the following example the **TextPos** feature has been used to locate data in a user defined backing frame at pre-defined positions on the isometric. Here, these positions are all in fixed boxes which are next to an associated box containing identification text.

e.g. **TextPos** has placed the pipeline reference 1.5" -HGP-4250 in the empty box allocated for that purpose. This is below the associated box containing the fixed descriptive wording PIPELINE REF which is part of the drawing frame.



PROJ NUMBER	DG-26A	PAINT SPEC	AF-12
PLANT AREA	AR-G-4	OPERATING TEMP	300C
PIPING SPEC	PS-101	DATE OF ISSUE	01 NOV 95

The definition file for this **TextPos** would be as follows:

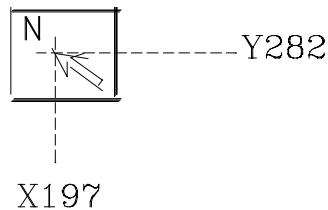
Text					! Heading line 1
ID	X	Y	Char	Char	! Heading line 2
No	Pos	Pos	Width	Height	! Heading line 3
-----	-----	-----	-----	-----	! Heading line 4
					! Heading line 5
-6	31200	27300	0	450	! PIPELINE REF
-8	40400	27300	0	450	! ISSUE NUMBER
-9	23400	3400	0	280	! PROJECT I/D
-10	23400	2200	0	280	! PLANT AREA
-11	23400	1000	0	280	! PIPING SPEC
-14	30600	1000	0	280	! PROCESSING DATE
-17	30600	3400	0	280	! PAINTING SPEC
-19	30600	2200	0	280	! OPERATING TEMP
-700	19700	28200			! NORTH ARROW
-702	37500	27300	0	450	! DRAWING NUMBER
-703	38500	27300	0	450	! NUMBER OF DRAWINGS

Explanatory Notes

1. All X and Y drawing positions and character height must be specified in 1/100 millimetre units. For Imperial Units (Feet and Inches), multiply by an additional 25.4
2. The 5 file heading lines shown above are all mandatory and must be present in the file
3. All Text I/D numbers are negative. The - sign preceding the number must appear in column position 1.
4. Data input is 'free-format' - this means the number of spacing-out characters between the data fields is not fixed.
5. Character Width should be set to zero (0) as this field is not yet operational.
6. The exclamation mark symbol (!) can be used to denote useful comments. Any data following it on a line of input will be ignored by the program.
7. You may completely eliminate an unwanted text item that would normally be generated on the isometric but which is not required (for example PLANT AREA) by setting both its X and Y data co-ordinates to zero (0).
8. You do not need create a POSITIONED-TEXT file if you are using the standard ISOGEN drawing frame and are therefore not using the **TextPos** feature.

The North Arrow

TextPos may also be used to position the North Arrow. When doing this note from the sketch below where the X and Y fixing points are on the North Arrow.



TextPos identification numbers

The following tables list all the permissible **TextPos** numbers in the **ISOGEN** system.



<u>Isogen Record</u>	<u>Description</u>	<u>PCF Equivalent</u>
-6 *	Pipeline Name	PIPELINE-REFERENCE
-7 *	Spool Prefix Identifier	SPOOL-PREFIX
-8 *	Revision Identifier	REVISION
-9 *	Project Name	PROJECT-IDENTIFIER
-10 *	Batch Reference / Plant Area Name	BATCH or AREA
-11 *	Piping Specification Name	PIPING-SPEC
-12 *	Pipeline Nominal Pressure Class / Rating	NOMINAL-CLASS or NOMINAL-RATING
-13 *	Line Type Identifier	PIPELINE-TYPE
-14 *	IDF creation Date(or system Date – see option switch6)	DATE-DMY
-15 *	Insulation Specification Name	INSULATION-SPEC
-16 *	Tracing Specification Name	TRACING-SPEC
-17 *	Painting Specification Name	PAINTING-SPEC
-18 *	Specific Gravity of Pipeline contents	SPECIFIC-GRAVITY
-19 *	Pipeline Temperature	PIPELINE-TEMP
-23 *	Standard Bend Radius for Pipeline	BEND-RADIUS <i>in Pipe Header Data</i>
-24	Bend Radius for individual bend	BEND-RADIUS <i>in Component Data</i>
-25 *	System Isometric Name	SYSTEM-ISOMETRIC-REFERENCE
-28 *	User Defined Spool Name	SPOOL-IDENTIFIER
-29 *	Equipment / Vessel Trim Name	EQUIPMENT-TRIM-REFERENCE
-41 *	User Defined Miscellaneous Specification Name	MISC-SPEC1
-42 *	User Defined Miscellaneous Specification Name	MISC-SPEC2
-43 *	User Defined Miscellaneous Specification Name	MISC-SPEC3
-44 *	User Defined Miscellaneous Specification Name	MISC-SPEC4
-45 *	User Defined Miscellaneous Specification Name	MISC-SPEC5
-61 *	COMPIPE Area Identification record (Redundant)	COMPIPE-AREA
-62 *	COMPIPE Drawing Number record (Redundant)	COMPIPE-DRAWING-NO
-63 *	COMPIPE Description record (Redundant)	COMPIPE-DESCRIPTION
-90 *	Pipeline Isometric Drawing sequence Number	PIPELINE-DRAWING-SEQUENCE-NUMBER
-91 *	Spool Sheet Isometric Drawing sequence Number	SPOOL-DRAWING-SEQUENCE-NUMBER
-92 *	Client Drawing Name	CLIENT-DRAWING-IDENTIFIER



-130 *	General Weld Prefix	WELD-PREFIX-GENERAL
-131 *	Fabrication Weld Prefix	WELD-PREFIX-FABRICATION
-132 *	Erection (Site / Field) Weld Prefix	WELD-PREFIX-ERECTION
-133 *	Offshore Weld Prefix	WELD-PREFIX-OFFSHORE
-134 *	Fabrication Support Weld Prefix	SUPPORT-WELD-PREFIX-FABRICATION
-135 *	Erection Support Weld Prefix	SUPPORT-WELD-PREFIX-ERECTION
-136 *	Offshore Support Weld Prefix	SUPPORT-WELD-PREFIX-OFFSHORE

	User Defined Attribute Block	
<u>Isogen Record</u>	<u>Description</u>	<u>PCF Equivalent</u>
-600 *	Attributes -600 to -699 are for User Defined	ATTRIBUTE0 to
to -699 *	attributes in Isogen	ATTRIBUTE99

	Minus 700 Series – TextPos	
<u>Isogen Record</u>	<u>Description</u>	<u>PCF Equivalent</u>
-700 *	North Arrow X-Y Position on isometric	Use a -700 record in the POSITIONED-TEXT file
-701	Spare	



-702 *	Drawing (Sheet) Number	Use a -702 record in the POSITIONED-TEXT file
-703 *	Number of Drawings (Sheets)	Use a -703 record in the POSITIONED-TEXT file
-704 *	Total Weight for a Drawing	
-705 *	Total Fabrication Weight	
-706 *	Total Erection Weight	
-707 *	Total Offshore Weight	
-708 *	Flange Part Number (Flat Spools)	
-709 *	Flange Rotation Angle (Flat Spools)	
-710 *	Total Weight Unlisted Items	
-711 *	Total Weight of Pipeline	
-712 *	Total Wet (Full) Weight of Pipeline	
-713 *	Total Insulation Weight for Pipeline	
-714 *	C of G Position of Dry (Empty) Pipeline	
-715 *	C of G Position of Dry Pipeline + Insulation	
-716 *	C of G Position of Wet (Full) Pipeline	
-717 *	C of G Position of Wet Pipeline + Insulation	
-718 *	Total Pipeline Fabrication Weight	
-719 *	Total Pipeline Erection Weight	
-720 *	Total Pipeline Offshore Weight	
-721 *	Zone 1 Identifier STORK	
-722 *	Zone 2 Identifier STORK	
-723 *	Zone 3 Identifier STORK	
-724 *	STORK Sequence Number	
-725 *	Spool Weight (Style 4 Material List)	
-726 *	Spool C of G Position (Style 4 Material List)	
-727 *	Weld Diameter Inches (Spools)	
-728 *	Spool C.L. Length	
-729 *	Spool Erection Factor	
-730 *	Pipeline Erection Factor	
-731 *	Weld Diameter Inches (Pipeline)	
-732 *	Location Point - to nearest Steelwork Stanchion	
-733 *	Location Point - above nearest Floor Level	