



Description

TextPos is used to output and position Pipeline Attribute and Heat Treatment / NDE text into their required locations on the Isometric.

In addition it can also be used for positioning special symbols such as the North arrow and Barcodes.



| | | | | | | | | | | | | | | | |
|-----------------|--|---------|--|------------------|--|-------|--|-----------------|--|----------|--|---|--|----------------------|--|
| | | | | JOB NO. | | 09121 | | PROJECT | | P-500 | | CLIENT | | IRANZD CHEMICALS LTD | |
| P & ID FROM | | 300-020 | | DESIGN TEMP. | | 280 | | MATERIAL | | CARB STL | | <div style="display: flex; align-items: center;"> <div style="border: 2px solid black; border-radius: 50%; width: 60px; height: 60px; display: flex; align-items: center; justify-content: center; margin-right: 10px;"> ALIAS </div> <div> <p>ALIAS LIMITED</p> <p>STUART ROAD MANOR PARK</p> <p>RUNCORN CHESHIRE U.K.</p> <p>TELEPHONE 44 (0) 1928 579311</p> </div> <div style="margin-left: 10px;"> <p>DRG. NO.</p> <p>A2</p> </div> </div> | | | |
| P & ID TO | | 300-020 | | OPERATING PRESS. | | 21 | | INSULATION CODE | | HC | | | | | |
| UNIT NUMBER | | 300 | | DESIGN PRESS. | | 31.5 | | DESIGN CODE | | DC14 | | | | | |
| SERVICE CODE | | PB | | TEST PRESS. | | 42 | | HEAT TRACING | | | | | | | |
| PAINT CODE | | P11 | | TEST TYPE | | T4 | | SPOOLED BY | | TSR | | <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p>PIPELINE REFERENCE</p> <p>4-ATR-6000</p> </div> <div> <p>DRG. NO.</p> <p>2 / 2</p> </div> <div style="margin-left: 10px;"> <p>ISS.</p> <p>1</p> </div> </div> | | | |
| OPERATING TEMP. | | 230 | | INSULATION THKS. | | 90 | | CHECKED BY | | | | | | | |

Text shown in blue are all attributes, all of this type of information can be positioned anywhere on the final drawing using the TextPos function.



TextPos (Text Positioning)

Spoolgen TextPos is contained in the **FULLISO.OPT** and **SPOOLISO.OPT** files - like this :-

| Text I.D. | X-pos | Y-pos | Char Width | Char height | -----Table Controls----- | | | | | | | | | | | |
|-----------|-------|-------|------------|-------------|--------------------------|-------------|-------------|--------------|-----------|------------|-----------|------------|------------|-----------|----------|------------|
| | | | | | offset in X | offset in Y | No. of cols | No. of lines | Table dir | Text just. | Text rot. | Text Layer | Text thick | Text font | Bar code | Text trunc |
| -6 | 51900 | 750 | 100 | 400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -8 | 220 | 343 | 400 | 555 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| -11 | 2567 | 324 | 500 | 255 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| -14 | 2456 | 224 | 200 | 155 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |

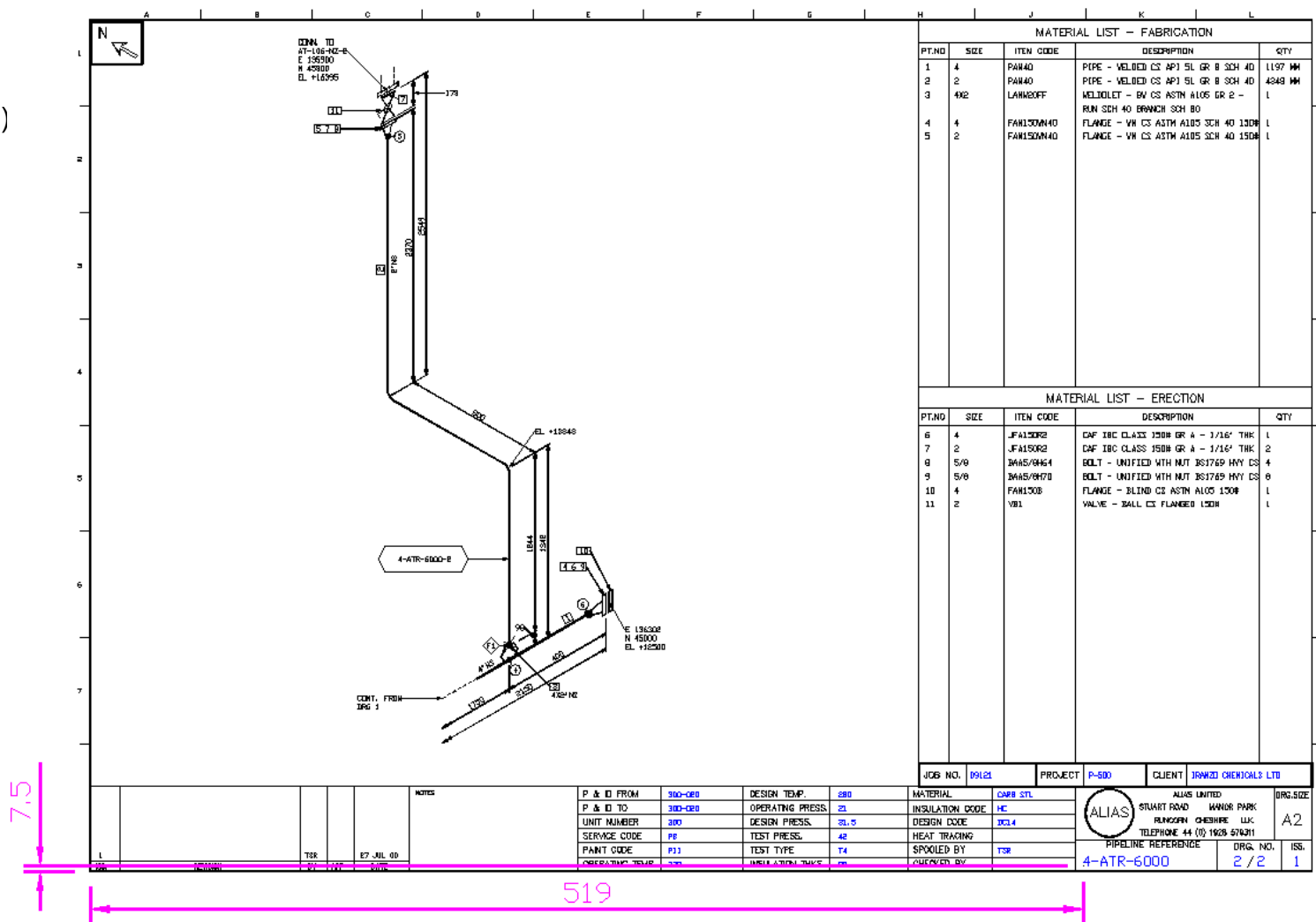
The first 3 lines (shown in red) are used only for description, the data below the descriptions define the position of the attributes. Each line represent the position of one attribute.

Looking at the first line, the -6 record is the pipeline Reference, the next slide shows how the it is defined.

[illegible]

400 = 4.0mm height

The bottom left must be set to 0,0





TextPos (Text Positioning)

There are 17 columns in total, here is the description of all.

| | | |
|-------------------------|-----------|---|
| Attribute record number | Column 1 | See next slide |
| X position | Column 2 | Entered in 1/110th mm's |
| Y Position | Column 3 | Entered in 1/100th mm's |
| Character width | Column 4 | Entered in 1/100th mm's |
| Character height | Column 5 | Entered in 1/100th mm's |
| Offset in X | Column 6 | Entered in 1/100th mm's |
| Offset in Y | Column 7 | Entered in 1/100th mm's |
| Number of Columns | Column 8 | Number |
| Number of lines | Column 9 | Number |
| Table direction | Column 10 | 0 = Horizontal, 1 = Vertical |
| Text Justification | Column 11 | 0 = Left, 1 = Right |
| Text Rotation | Column 12 | In Degrees, 0 = 0 degrees, 90 = 90 degrees (up) |
| Text layer | Column 13 | Number |
| Text Thickness | Column 14 | Thickness of string |
| Text Font | Column 15 | Font to use in Font Information File (.fif) |
| Bar Code | Column 16 | 1 = Barcode 39, 2 = Barcode 25, 2 = Barcode interleaved |
| Text Truncation | Column 17 | Enter maximum number of characters to output |



TextPos (Text Positioning)

VALID ISOGEN TEXT POSITIONABLE RECORDS

| Negative Text Records -1 to -199 records marked with an asterisk can be used with the 'Frame Text Positioning' facility | | |
|---|---|--------------------------------------|
| Isogen Record | Description | PCF Equivalent |
| -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 in Pipe Header Data |
| -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 |

Minus 700 Series – TextPos

| Isogen Record | Description | PCF Equivalent |
|---------------|---|---|
| -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 | |



TextPos (Text Positioning)

Cont...

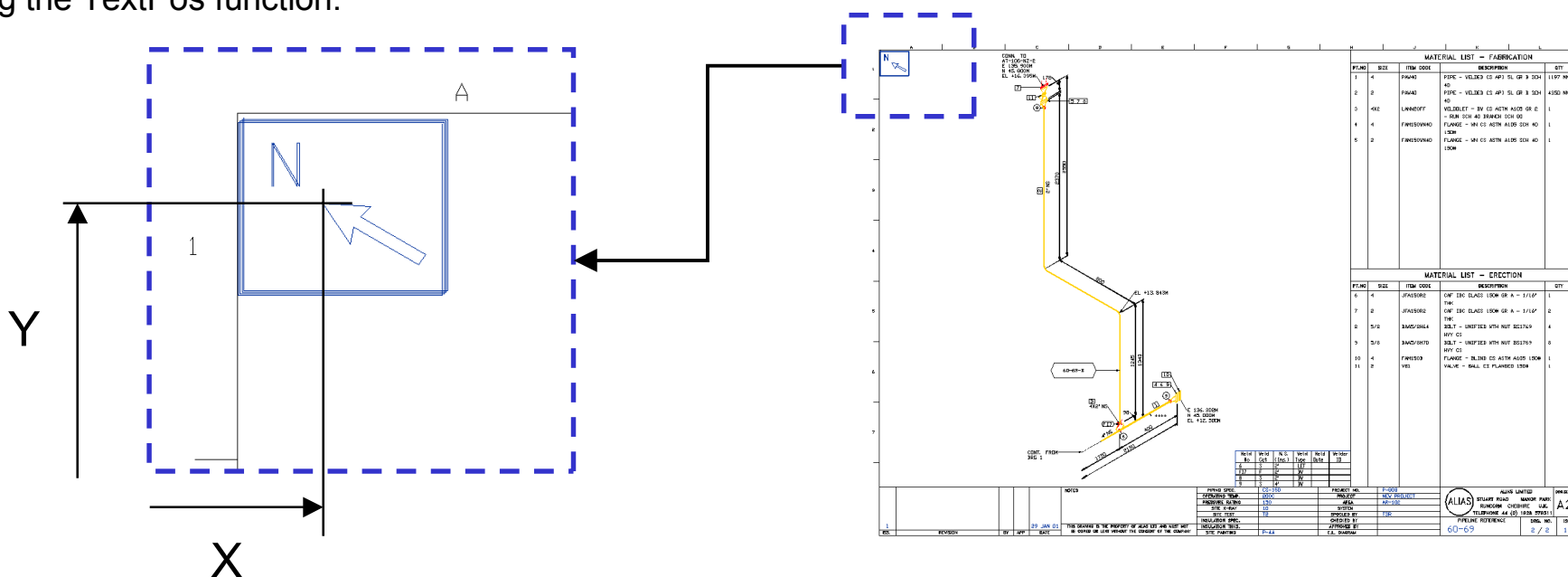
| | User Defined Attribute Block | |
|----------------------|--|-----------------------|
| <u>Isogen Record</u> | <u>Description</u> | <u>PCF Equivalent</u> |
| -600 * | Attributes -600 to -699 are for User Defined | ATTRIBUTE0 to |
| to -699 * | attributes in Isogen | ATTRIBUTE99 |

| | Alternative User Defined Attribute Block | |
|----------------------|---|------------------------|
| <u>Isogen Record</u> | <u>Description</u> | <u>PCF Equivalent</u> |
| -900 * | Records -900 to -999 are normally used for Fabricator defined Pipeline Attributes in Spoolgen | ATTRIBUTE100 to |
| to -999 * | and for Pipeline Attributes and Heat / NDE attributes extracted from -156 and -157 files | ATTRIBUTE199 |



Positioning the North Arrow

The north arrow generated by Spoolgen is positioned on the isometric using the TextPos function.



The tip of the arrow is the position that entered in the TextPos function. The record number is **-700**

To suppress the North arrow enter 0 0 for the X Y.