

## Negative Text Records -1 to -199

Records marked with a asterisk can be used with the 'Frame Text Positioning' facility

Isogen Record	Description	PCF Name
-1	Overflow Text record	
-2	Spare	
-3	Text input for drawing Title Block	Data in <b>TITLE-BLOCK</b> file
-4	Special SKEY input	Data in <b>SPECIAL-INSTRUMENTS</b> file
-5	Used by CAD/C for PDMS Version Number	
-6 *	Pipeline Name	<b>PIPELINE-REFERENCE</b>
-7 *	Spool Prefix Identifier	<b>SPOOL-PREFIX</b>
-8 *	Revision Identifier	<b>REVISION</b>
-9 *	Project Name	<b>PROJECT-IDENTIFIER</b>
-10 *	Batch Reference / Plant Area Name	<b>BATCH</b> or <b>AREA</b>
-11 *	Piping Specification Name	<b>PIPING-SPEC</b>
-12 *	Pipeline Nominal Pressure Class / Rating	<b>NOMINAL-CLASS</b> or <b>NOMINAL-RATING</b>
-13 *	Line Type Identifier	<b>PIPELINE-TYPE</b>
-14 *	IDF creation Date	<b>DATE-DMY</b>
-15 *	Insulation Specification Name	<b>INSULATION-SPEC</b>
-16 *	Tracing Specification Name	<b>TRACING-SPEC</b>
-17 *	Painting Specification Name	<b>PAINTING-SPEC</b>
-18 *	Specific Gravity of Pipeline contents	<b>SPECIFIC-GRAVITY</b>
-19 *	Pipeline Temperature	<b>PIPELINE-TEMP</b>
-20	Component Material Item Code	<b>ITEM-CODE</b>
-21	Component Material Description	<b>DESCRIPTION</b>
-22	Component Tag / Name	<b>TAG</b> or <b>NAME</b>
-23 *	Standard Bend Radius for Pipeline	<b>BEND-RADIUS</b> <i>in Pipe Header Data</i>
-24	Bend Radius for individual bend	<b>BEND-RADIUS</b> <i>in Component Data</i>
-25	System Isometric Name	<b>SYSTEM-ISOMETRIC-REFERENCE</b>
-26	Change of Piping Specification	<b>PIPING-SPEC</b>
-27	BOP ( Bottom of Pipe ) Elevation value	<b>BOP-ELEVATION</b>
-28 *	User Defined Spool Name	<b>SPOOL-IDENTIFIER</b>

# Isogen Data Records

<b>Isogen Record</b>	<b>Description</b>	<b>PCF Name</b>
-29	Equipment / Vessel Trim Name	<b>EQUIPMENT-TRIM-REFERENCE</b>
-30	Pipeline Connection to another Pipeline (CONT ON)	<b>END-CONNECTION-PIPELINE</b>
-31	Pipeline Connection to Equipment Item (CONN TO)	<b>END-CONNECTION-EQUIPMENT</b>
-32	Pipeline termination at Open End (OPEN)	<b>END-POSITION-OPEN</b>
-33	Pipeline termination at Closed End (CLOSED)	<b>END-POSITION-CLOSED</b>
-34	Pipeline termination at Vent location (VENT)	<b>END-POSITION-VENT</b>
-35	Pipeline termination at Drain location (DRAIN)	<b>END-POSITION-DRAIN</b>
-36	Undefined termination - Only Co-ordinates output	<b>END-POSITION-NULL</b>
-37	User defined Message on a component	<b>MESSAGE</b>
-38	Pipeline Split Point indicator ( -38 + + + + )	<b>ISO-SPLIT-POINT</b>
-39	Unique Component Identifier	<b>UNIQUE-COMPONENT-IDENTIFIER</b>
-40	Compound Direction message on a component	<b>DIRECTION</b>
-41 *	User Defined Miscellaneous Specification Name	<b>MISC-SPEC1</b>
-42 *	User Defined Miscellaneous Specification Name	<b>MISC-SPEC2</b>
-43 *	User Defined Miscellaneous Specification Name	<b>MISC-SPEC3</b>
-44 *	User Defined Miscellaneous Specification Name	<b>MISC-SPEC4</b>
-45 *	User Defined Miscellaneous Specification Name	<b>MISC-SPEC5</b>
-46	Gearbox Orientation Direction Message	<b>GEARBOX</b>
-47	Break In Point Identification Name	<b>BIP-IDENTIFIER</b>
-48	1) System Isometric Drawing Split Point Indicator 2) Equipment Trim Isometric Split Point Indicator	<b>SYSTEM-SPLIT</b> <b>EQUIPMENT-TRIM-SPLIT</b>
-49	Induction Bend Start indicator + Identifier	<b>INDUCTION-START</b>
-50	Induction Bend End indicator	<b>INDUCTION-END</b>
-51	Used for Isogen internal processing	
-52	Used for Isogen internal processing	
-53	Used for Isogen internal processing	
-54	Used for Isogen internal processing	

# Isogen Data Records

Isogen Record	Description	PCF Name
-55	<b>1) FFI use</b> -55 ++++ FFI Split Point - No Weld -55 ++++ 1 WS FFI Split Point - with Site Weld -55 ++++ 1 WF FFI Split Point - with Field Fit Weld -55 ++++ 1 WO FFI Split Point - with Offshore Weld -55 SS28901 FFI Identifier (System Name + Program generated suffix)	
-55	<b>2) STORK Division I.D. and Sequence No. system</b> -55 12345 Sequence Number (Limited to five digits) -55 **A Division Identifier	
-55	<b>3) General Use</b> Bypass Closure ( -55 ++++B )  -55 ++++E Open End marker -55 B01 BIT Identifier	<b>BYPASS-CLOSURE-POINT</b>
-55	<b>4) Pipeline Start ( -55 ++++START )</b>	<b>START-CO-ORDS</b>
-56	Used for Isogen internal processing	
-57	Used for Isogen internal processing	
-58	Used for Isogen internal processing	
-59	Used for Isogen internal processing	
-60	Weld Type	<b>WELD-TYPE</b>
-61 *	COMPIPE Area Identification record ( Redundant )	<b>COMPIPE-AREA</b>
-62 *	COMPIPE Drawing Number record ( Redundant )	<b>COMPIPE-DRAWING-NO</b>
-63 *	COMPIPE Description record ( Redundant )	<b>COMPIPE-DESCRIPTION</b>
-64	Weight of Component or Pipe	<b>WEIGHT</b>
-65	Jacket Specification Name	<b>JACKET-SPEC</b>
-66 *	Isometric Drawing Output Plotfile Name	<b>OUTPUT-FILE-NAME</b>
-67	Weld Number - User Defined or Repeat	<b>REPEAT-WELD-IDENTIFIER</b>
-68	Weld Specification Name	<b>WELD-SPEC</b>
-69	Part Number – User Defined or Repeat	<b>REPEAT-PART-NUMBER</b>
-70	User Defined Message ( Output in Square Ended Box )	<b>MESSAGE-SQUARE</b>

# Isogen Data Records

<b>Isogen Record</b>	<b>Description</b>	<b>PCF Name</b>
-71	User Defined Message ( Output in Diamond Ended Box )	<b>MESSAGE-POINTED</b>
-72	User Defined Message ( Output in Round Ended Box )	<b>MESSAGE-ROUND</b>
-73	User Defined Message ( Output in Triangular Box )	<b>MESSAGE-TRIANGLE</b>
-74	User Defined Message ( Output in Diamond shaped Box )	<b>MESSAGE-DIAMOND</b>
-75	User Defined Message ( Output in a Circle )	<b>MESSAGE-CIRCLE</b>
-76	Multiple Component Port Reference	<b>PORT-REFERENCE</b>
-77	Pipe Allowance	
-78	Detailed Sketch Filename Information Note Filename	<b>DETAIL-SKETCH-IDENTIFIER</b>
-79	Remark Identification Number <b>N.B.</b> Remarks may be attached to either a WELD or a COMPONENT	1) <b>WELD-REMARK-NUMBER</b> 2) <b>COMPONENT-REMARK-NUMBER</b>
-80	Component - Optional Material Description record	<b>Any User Defined Word</b>
-81	Component - Optional Material Description record	<b>Any User Defined Word</b>
-82	Component - Optional Material Description record	<b>Any User Defined Word</b>
-83	Component - Optional Material Description record	<b>Any User Defined Word</b>
-84	Component - Optional Material Description record	<b>Any User Defined Word</b>
-85	Component - Optional Material Description record	<b>Any User Defined Word</b>
-86	Component - Optional Material Description record	<b>Any User Defined Word</b>
-87	Component - Optional Material Description record	<b>Any User Defined Word</b>
-88	Component - Optional Material Description record	<b>Any User Defined Word</b>
-89	Component - Optional Material Description record	<b>Any User Defined Word</b>
-90 *	Pipeline Isometric Drawing sequence Number	<b>PIPELINE-DRAWING-SEQUENCE-NUMBER</b>
-91 *	Spool Sheet Isometric Drawing sequence Number	<b>SPOOL-DRAWING-SEQUENCE-NUMBER</b>
-92 *	Client Drawing Name	<b>CLIENT-DRAWING-IDENTIFIER</b>
-93	Highest Site Assembly Identification Number used.	<b>HIGHEST-ASSEMBY-NUMBER</b>
-94	Highest Spool Number used ( Repeatability function )	<b>HIGHEST-SPOOL-NUMBER</b>

Isogen Data Records

<b>Isogen Record</b>	<b>Description</b>	<b>PCF Name</b>
-95	Highest Unique Identifier Number used ( Repeatability function )	<b>HIGHEST-UNIQUE-IDENTIFIER</b>
-96	Highest Pipe Support Weld Number used ( Repeatability function )	<b>HIGHEST-SUPPORT-WELD-NUMBER</b>
-97	Highest Weld Number used ( Repeatability function )	<b>HIGHEST-WELD-NUMBER</b>
-98	Highest Part Number used ( Repeatability function )	<b>HIGHEST-PART-NUMBER</b>
-99	Pipeline Isometric or Spool Isometric Re-plotting indicator	<b>REPLOT</b>
-100 *	IDF or PCF Input filename	
-101	Drawing Frame ( Backing Sheet ) Input filename	<b>DRAWING-FRAME</b>
-102 *	Isometric Output Plotfile Name Prefix characters	<b>PLOTFILE-PREFIX</b>
-103	User Defined Symbols Input filename	<b>BINARY-SYMBOLS</b>
-104	Material Control Output filename	<b>MATERIAL-CONTROL</b>
-105	Messages Output filename	<b>MESSAGE</b>
-106	PDMS Error Message file ( CADC only - not used by Alias )	
-107	PDMS 'Resume' identifier ( CADC only - not used by Alias )	
-108	Printed Material List Output filename	<b>PRINTED-MATERIAL-LIST</b>
-109	Centreline Length Summary Output filename	<b>CENTRELINE-LENGTH</b>
-110	Centreline Length / Insulation Output filename	<b>CENTRELINE/INSULATION-LENGTH</b>
-111	Stressing Interface Output filename	
-112	Pipe Support Summary Output filename	<b>SUPPORT-SUMMARY</b>
-113	Pipe Support Data Output filename - Binary	
-114	Pipe Support Information Output filename	<b>SUPPORT-INFORMATION-FILE</b>
-115	Materials - Sheet Output filename	<b>MATERIAL/SHEET-IDENTIFICATION</b>
-116	Cut Pipe List Summary Output filename ( Overwrite )	<b>CUT-LIST-SUMMARY</b>
-117	Repeatability Return Output filename	<b>REPEATABILITY-RETURN</b>
-118	COMPIPE - LINE and MTO filenames ( Redundant )	
-119	Font Input filename ( CADC only - not used by Alias )	
-120	Welding Definition File Input filename	<b>WELDING-DEFINITION</b>
-121	Material List Remarks Input filename	<b>REMARKS</b>

Isogen Data Records

<b>Isogen Record</b>	<b>Description</b>	<b>PCF Name</b>
-122	Materials Definition File Input filename	<b>MATERIAL-LIST-DEFINITION</b>
-123	Data Definition File Input filename	<b>DRAWING-DEFINITION</b>
-124	Detail Sketch directory Input name	<b>DETAIL-SKETCH-DIRECTORY</b>
-125	1) Weld Summary Output filename ( Append )	<b>WELD-SUMMARY-APPEND</b>
-126	2) Weld Summary Output filename ( Overwrite )	<b>WELD-SUMMARY-OVERWRITE</b>
-127	1) Bending Information Output filename ( Append )	<b>BENDING-FILE-APPEND</b>
-128	2) Bending Information Output filename ( Overwrite )	<b>BENDING-FILE-OVERWRITE</b>
-129	Cut List Summary Output filename ( Append )	<b>CUT-LIST-SUMMARY-APPEND</b>
-130 *	General Weld Prefix	<b>WELD-PREFIX-GENERAL</b>
-131 *	Fabrication Weld Prefix	<b>WELD-PREFIX-FABRICATION</b>
-132 *	Erection ( Site / Field ) Weld Prefix	<b>WELD-PREFIX-ERECTION</b>
-133 *	Offshore Weld Prefix	<b>WELD-PREFIX-OFFSHORE</b>
-134 *	Fabrication Support Weld Prefix	<b>SUPPORT-WELD-PREFIX-FABRICATION</b>
-135 *	Erection Support Weld Prefix	<b>SUPPORT-WELD-PREFIX-ERECTION</b>
-136 *	Offshore Support Weld Prefix	<b>SUPPORT-WELD-PREFIX-OFFSHORE</b>
-137	User Defined Message ( Output in a Double Circle )	<b>MESSAGE-DOUBLE-CIRCLE</b>
-138	User Defined Message ( Output in a Ellipse )	<b>MESSAGE-ELLIPSE</b>
-139	User Defined Message ( Universal )	
-140	Function Definition Input filename	<b>FUNCTION-DEFINITION</b>
-141	Component Information Input filename	<b>COMPONENT-INFORMATION</b>
-142	Insulation Weights Input filename	<b>INSULATION-WEIGHT</b>
-143	Specific Gravity Input filename	<b>SPECIFIC-GRAVITY</b>
-144	Weight/C of G Output filename ( Append )	<b>WEIGHT/COFG-SUMMARY-APPEND</b>
-145	Weight/C of G Output filename ( Overwrite )	<b>WEIGHT/COFG-SUMMARY-OVERWRITE</b>
-146	Bolting Information Input filename	<b>BOLT-INFORMATION-FILE</b>
-147	STORK - Data Output Transfer file to ACCESS system	<b>REGISTRATION-INFO-FILE</b>
-148	STORK - Data Output Transfer file to ACCESS system	<b>FABRICATION-INFO-FILE</b>
-149	STORK - Data Output Transfer file to ACCESS system	<b>ERECTION-INFO-FILE</b>
-150	Traceability Output filename	<b>TRACEABILITY-FILE</b>

# Isogen Data Records

<b>Isogen Record</b>	<b>Description</b>	<b>PCF Name</b>
-151	STORK – Attribute storage file	<b>ATTRIBUTE-FILE</b>
-152	Text Font Definition Input filename ( Alias – Version 8 Isogen )	<b>FONT-INFO-FILE</b>
-153	Bulk Materials Output filename	<b>BULK-MATERIAL-LIST</b>
-154	Spool Information Output filename	<b>SPOOL-INFORMATION-FILE</b>
-155	Site Weld Information Output filename	<b>SITE-WELD-INFO-FILE</b>
-156	Pipeline Attributes Input filename	<b>PIPELINE-ATTRIBUTES-FILE</b>
-157	Heat Treatment/NDE Input filename	<b>HEATTREATMENT/NDE-FILE</b>
-158	Drawing Information Cross Reference Output Filename	<b>DRAWING-CROSS-REF-FILE</b>
-159	Bending Database filename	<b>BENDING-DATABASE-FILE</b>
-160	Bending Report filename	<b>BENDING-REPORT-FILE</b>
-161	User Defined Symbols filename (Ascii format)	<b>ASCII-SYMBOLS</b>
-162	Drawing Report filename	<b>DRAWING-REPORT-FILE</b>
-163	Site Assembly filename (append)	<b>SITE-ASSEMBLY-FILE-APPEND</b>
-164	Site Assembly filename (Overwrite)	<b>SITE-ASSEMBLE-FILE-OVERWRITE</b>
-165	Pipe Cutting filename (Vernon machine)	<b>PIPE-CUTTING-FILE</b>
-166	Bore Equivalence Table filename	<b>BORE-EQUIVALENCE-FILE</b>
-167	Frame Location Table filename	<b>REFERENCE-PLANE-DEFINITION</b>
-168	Spool Attribute Input filename	<b>SPOOL-ATTRIBUTE-FILE</b>
-169	Stressing / Material Input filename	<b>USER-SPECIFIED-MATERIAL-FILE</b>

-170 to -179	Spool Attributes	<b>SPOOL-ATTRIBUTE1 to SPOOL-ATTRIBUTE10</b>
-180 to -189	Weld Attributes	<b>WELD-ATTRIBUTE1 to WELD-ATTRIBUTE10</b>
-190 to -199	Component / Assembly Attributes	<b>COMPONENT-ATTRIBUTE1 to COMPONENT-ATTRIBUTE10 or ASSEMBLY-ATTRIBUTE1 to ASSEMBLY-ATTRIBUTE 10</b>

<b>Atext Records</b>	
<b>Isogen Record</b>	<b>Alternative Text Characters</b>
-201	E
-202	N
-203	W
-204	S
-205	EL +
-206	EL -
-207	NS
-208	CONN. TO
-209	CONT. ON
-210	F
-211	G
-212	B
-213	SPINDLE
-214	MM
-215	REDUCING FLANGE
-216	OFFSET
-217	MITRE
-218	LOBSTER
-219	REINFORCED
-220	LEFT LOOSE
-221	FFW
-222	FALL
-223	DEGREES (left blank)
-224	:
-225	% (left blank)
-226	GRAD
-227	PER M
-228	PER FT



# Isogen Data Records

<b>Isogen Record</b>	<b>Alternative Text Characters</b>
-229	SCREWED END
-230	VENT (used in conjunction with -34 record)
-231	BEND
-232	SPEC
-233	C
-234	(default blank – used as an alternative part number prefix for liners/nuts)
-235	COMMENCE
-236	S
-237	"
-238	'
-239	DRAIN (used in conjunction with -35 record)
-240	(used in conjunction with -32 record)
-241	(used in conjunction with -33 record)
-242	(used in conjunction with -36 record)
-243	(used with reducers IE - FLAT)
-244	UP
-245	DOWN
-246	NORTH
-247	SOUTH
-248	EAST
-249	WEST
-250	DATE
-251	PROJECT NO.
-252	BATCH REF
-253	PIPING SPEC
-254	ISS
-255	DRG
-256	OF
-257	SPL
-258	JAN
-259	FEB

# Isogen Data Records

<b>Isogen Record</b>	<b>Alternative Text Characters</b>
-260	MAR
-261	APR
-262	MAY
-263	JUN
-264	JUL
-265	AUG
-266	SEP
-267	OCT
-268	NOV
-269	DEC
-270	THERMAL INSULATION SPEC
-271	TRACING SPEC
-272	PAINTING SPEC
-273	LG
-274	(default blank - used as delimiter for spool id)
-275	SWEPT TEE
-276	CONT. FROM
-277	ORIFICE FLANGE
-278	DIAL FACE
-279	L
-280	TAPPING
-281	TAIL
-282	WINDOW
-283	FLAT (used when reducer flat in skew)
-284	TEE BEND
-285	RATING FLANGE
-286	default blank - used for screwed end message on erection fittings)
-287	ORIENTATION DIRECTION
-288	PIPE
-289	MATL
-290	INSUL

# Isogen Data Records

<b>Isogen Record</b>	<b>Alternative Text Characters</b>
-291	TRACE
-292	PAINT
-293	null - used for spec change -41 record
-294	null - used for spec change -42 record
-295	null - used for spec change -43 record
-296	null - used for spec change -44 record
-297	null - used for spec change -45 record
-298	TEE ELBOW
-299	COMDACE ITEM CODE DELIMETER
-300	FABRICATION MATERIALS
-301	PT
-302	NO
-303	COMPONENT DESCRIPTION
-304	N.S.
-305	ITEM CODE
-306	QTY
-307	PIPE
-308	FITTINGS
-309	FLANGES
-310	ERECTION MATERIALS
-311	GASKETS
-312	BOLTS
-313	VALVES / IN-LINE ITEMS
-314	INSTRUMENTS
-315	SUPPORTS
-316	PIPE SPOOLS
-317	PIPE NS
-318	CL LENGTH
-319	CUT PIPE LENGTHS
-320	PIECE
-321	NO
-322	CUT

# Isogen Data Records

<b>Isogen Record</b>	<b>Alternative Text Characters</b>
-323	LENGTH
-324	REMARKS
-325	(default blank - used for spool separators)
-326	PLD BEND
-327	LOOSE FLG
-328	FF WELD
-329	M
-330	INS
-331	MM
-332	PAGE
-333	PIPELINE REF
-334	S (used to signify special end flange)
-335	WITH SPECIAL RATING FLANGE(S) (SEE ISO)
-336	SYSTEM REF
-337	D BEND RADIUS
-338	BEND RADIUS
-339	MISCELLANEOUS COMPONENTS
-340	INDUCTION BEND ID -
-341	EQUIPMENT TRIM MATERIALS
-342	NOZZLE REF -
-343	CONTINUED
-344	END CONNECTOR
-345	AND
-346	GEARBOX ORIENTATION
-347	(used for continuations on – material list)
-348	(used for continuations from – material list)
-349	PP
-350	REDUCING ELBOW
-351	FABRICATED (PULLED) BEND
-352	WEIGHT
-353	KGS
-354	LBS

# Isogen Data Records

<b>Isogen Record</b>	<b>Alternative Text Characters</b>
-355	TOTAL WEIGHT - THIS DRG
-356	U
-357	B
-358	W
-359	(default blank - used for bolt units)
-360	FT
-361	FT-INS
-362	END\$ONE
-363	END\$TWO
-364	ITEM\$CODE
-365	(default blank - used for part\$no on cut list)
-366	SQ.CUT
-367	BEVEL
-368	SCREWED
-369	SHAPED
-370	MITRED
-371	OFFSHORE MATERIALS
-372	REMARKS
-373	REM
-374	ANGLE
-375	WELDS
-376	FAB
-377	EREC
-378	OFF
-379	TOTAL FABRICATION WEIGHT
-380	TOTAL ERECTION WEIGHT
-381	TOTAL OFFSHORE WEIGHT
-382	TOTAL WEIGHT UNLISTED ITEMS
-383	* (missing weight character)
-384	TANGENT+
-385	
-386	(default blank – used for insulation length)

# Isogen Data Records

Isogen Record	Alternative Text Characters
-387	(default blank – used for heat tracing length)
-388	TANGENTIAL CONNECTION
-389	OFFSET CONNECTION
-390	FROM ? ORIGIN
-391	
-392	MULTIPLE
-393	ADD MATERIAL
-394	TOT
-395	? (used in conjunction tracing controller part number on isometric drawing)
-396	(default blank – used in conjunction with angle on isometric drawing)
-397	
-398	(default blank – used to control output of reference plane volume name on isometric)
-399	
-400	TRACED PIPE (used on standard Isogen drawing frame)
-401	LAGGED PIPE (used on standard Isogen drawing frame)
-402	PIPE SUPPORT (used on standard Isogen drawing frame)
-403	COMPJ JOINT (used on standard Isogen drawing frame)
-404	SCREWED JOINT (used on standard Isogen drawing frame)
-405	SOCKET WELD (used on standard Isogen drawing frame)
-406	FIELD WELD (used on standard Isogen drawing frame)
-407	SHOP WELD (used on standard Isogen drawing frame)
-408	used for box at bottom of drawing e.g. (pulled bend radius is 3x nominal pipe bore)
-409	used for box at bottom drawing e.g. (all flanges 150p rating unless stated otherwise)
-410	[1] DENOTES PIPE SPOOL NO 1 DENOTES PARTS LIST NO
-411	SITE CONNECTION (used on standard Isogen drawing frame)
-412	WELD SHOP WELD WELDER VISUAL NDT HARD S.R FAB.QA
-413	NO   /FLD PROC  ID  ACCEPT NO   NO    ACCEPT
-414	S
-415	F
-416	O

# Isogen Data Records

<b>Isogen Record</b>	<b>Alternative Text Characters</b>
-417	BW
-418	SW
-419	MW
-420	LUG
-421	SOF
-422	SOB
-423	LET
-424	SLW
-425	SEAL WELD
-426	GROOVED
-427	FLARED
-428	SCREWED
-429	J
-430	J
-431	SOCKET
-432	TAP DIRECTION
-433	SET ON
-434	STUB IN
-435	OFFSET DIRECTION
-436	JACKET SPEC
-437	
-438	
-439	
-440	
-441	
-442	
-443	
-444	
-445	
-446	
-447	
-448	

# Isogen Data Records

Isogen Record	Alternative Text Characters
-449	
-450	B.O.P.
-451	TAPPING CONNECTION
-452	UNACCEPTABLE SPLIT
-453	MM-
-454	CONNECTION ORIENTATION
-455	(elevations at flange face IE ?\$FLANGE FACE)
-456	SEE DETAIL ?
-457	MITRE ?
-458	(default blank - used for metric bore units)
-459	(spare - not used)
-460	BEAM\$?
-461	COLUMN\$?
-462	?\$BUILDING CL
-463	CL EQUIPMENT\$?
-464	CL PIPELINE\$?
-465	?\$FLOOR LEVEL
-466	?\$WALL
-467	GRID LINE\$?
-468	(default blank - used for user defined reference description)
-469	TANGENTIAL CONNECTION
-470	SUPPORT LOCATION
-471	LOCATION-POINT?
-472	NO.?
-473	OF
-474	ABOVE
-475	(default blank - used to trigger drawing identifiers in Spoolgen)
-476	(default blank - used for drawing identifiers in Spoolgen)
-478	J
-481	E
-482	N
-483	W



# Isogen Data Records

<b>Isogen Record</b>	<b>Alternative Text Characters</b>
-484	S
-485	U
-486	D
-487	*** REFERENCE FLAT ***
-488	*** REFERENCE SPINDLE ***
-489	*** REFERENCE SUPPORT ***
-490	*** REFERENCE BRANCH ***
-491	*** REFERENCE WINDOW ***
-492	FLAT DIRECTION
-493	SPINDLE DIRECTION
-494	SUPPORT DIRECTION
-495	BRANCH DIRECTION
-496	WINDOW DIRECTION
-497	FLANGE ROTATION ?
-498	(default blank - SITE WELD)
-499	SHOP TEST WELD
-500	SHOP TEST
-501	(default blank - OFFSHORE WELD)
-502	SUPPORT
-503	SPOOL ID
-504	(default blank - used for ffw weld category)
-507	RPD
-508	LF
-509	L4
-510	(default blank - used for part no / weld delimiter
-511	PAD
-512	TACK WELD
-513	TW
-514	REINFPAD
-515	REINFORCEMENT PAD FOR@
-516	TRN
-517	5 (used to indicate manual weld)

# Isogen Data Records

<b>Isogen Record</b>	<b>Alternative Text Characters</b>
-518	1 (used to indicate automatic weld)
-519	EB (used in weld box)
-520	RL (used in weld box)
-521	FW
-522	default blank (reinforced set-on tee)
-523	default blank (reinforced angled set-on tee)
-524	default blank (angled se-ton tee)
-525	default blank (half coupling weld)
-526	default blank (reinforced tee / pad to main)
-527	default blank (reinforced tee / pad to branch)
-528	default blank (trunnion d2 type weld)
-529	default blank (trunnion d4 type weld)
-530	default blank (trunnion d5 type weld)
-531	default blank (trunnion d6 type weld)
-532	default blank (trunnion d7 type weld)
-533	FI
-534	RL
-535	SU
-536	VL
-537	default blank (used for style 3/4 pipe quan units)
-538	default blank (used for bolting data)
-539	.
-540	default blank (used for alternative bolting n.s.)
-541	_N (used to identify general information note)
-542	_S (used to identify special information note)
-543	default blank (used for special information note)
-544	default blank (used for showing additional material)
-545	/ (used for additional material delimiter)
-546	I (used for plot file naming extension character)
-547	_ (used as underline character on user specified material list)
-548	? (used with horizontal skew angle)
-549	? (used with vertical skew angle)

## Isogen Data Records

<b>Isogen Record</b>	<b>Alternative Text Characters</b>	
-550	default blank	(used with nominal size message for reducing tees)
-551	default blank	(used with nominal size message for equal tees)
-552	default blank	(used with nominal size message for reducing concentric fitting)
-553	default blank	(used with nominal size message for reducing eccentric fitting)

<b>-600 Series User Defined Attributes</b>		
<b>Isogen Record</b>	<b>Description</b>	<b>PCF Name</b>
-600 to * -699	Attributes -600 to -699 are for User Defined attributes in Isogen	<b>ATTRIBUTE0</b> to <b>ATTRIBUTE99</b>

# Isogen Data Records

<b>-700 Series Records</b> (Can be output using TextPos)		
<b>Isogen Record</b>	<b>Description</b>	<b>PCF Name</b>
-700 *	North Arrow X-Y Position on isometric	Use a -700 record in the <b>POSITIONED-TEXT</b> file
-701	Spare	
-702 *	Drawing (Sheet) Number	Use a -702 record in the <b>POSITIONED-TEXT</b> file
-703 *	Number of Drawings (Sheets)	Use a -703 record in the <b>POSITIONED-TEXT</b> 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 )	

# Isogen Data Records

<b>Isogen Record</b>	<b>Description</b>	<b>PCF Name</b>
-728 *	Spool C.L. Length	
-729 *	Spool Erection Factor	
-730 *	Pipeline Erection Factor	
-731 *	Weld Diameters (Pipeline)	
-732 *	Location Point - to nearest Steelwork Stanchion	
-733 *	Location Point - above nearest Floor Level	
-734 *	Pipeline Nominal Sizes	
-735 *	Pipeline Centreline Lengths	
-736 *	Pipeline Insulation Lengths	
-737 *	Pipeline Heat Tracing Lengths	
-738 *	Pipeline Surface Area	
-739 *	Drawing Surface Area	
-740 *	Spool Surface Area	
-741 *	Fitting Shapes / Symbols and associated description	
-742 *	Equipment Name	
-743 *	Nozzle Name	
-744 *	Nozzle Identifier	
-745 *	Pipeline Reference	
-746 *	Nozzle Size	
-747 *	Nozzle World Co-ordinates	
-748 *	Nozzle Relative Co-ordinates	
-749 *	Location Point index number	
-750 *	Location Point (forward and aft)	
-751 *	Location Point (transverse)	
-752 *	Location Point (elevation)	
-753 *	Number of Welds on Drawing	
-754 *	Last Weld Number / Identifier on drawing	
-755 *	System Date	
-756 *	System Time	
-757 *	User Name	

# Isogen Data Records

<b>Isogen Record</b>	<b>Description</b>	<b>PCF Name</b>
-758 *	Volume Name (Reference Plane Sub-Volume)	
-759 *	Weld Diameters – Fabrication (Pipeline)	
-760 *	Weld Diameters – Erection (Pipeline)	
-761 *	Weld Diameters – Offshore (Pipeline)	
-762 *	Spool Number (without prefix)	
-763 *	Number of Spools on Pipeline	

**AText's -800 to -899**

These AText's are used in Spoolgen Probing and FFI

<b>Isogen Record</b>	<b>Alternative Text Characters</b>
-800	BEND
-801	ELBOW
-802	OLET
-803	TEE
-804	CROSS
-805	REDUCER
-806	TEE REDUCER
-807	REDUCING FLANGE
-808	TEE BEND/ELBOW
-809	ANGLE VALVE
-810	3 WAY VALVE
-811	4 WAY VALVE
-812	INSTRUMENT
-813	MISC COMPONENT
-814	PIPE
-815	FIXED PIPE
-816	PIPE BLOCK
-817	FLANGE
-818	LJSE FLANGE
-819	BLIND FLANGE
-820	CONNECTOR
-821	BACKING NUT
-822	CLAMP
-823	MISC HYGENIC COMPONENT
-824	CAP
-825	COUPLING
-826	UNION
-827	VALVE
-828	TRAP
-829	VENT



# Isogen Data Records

<b>Isogen Record</b>	<b>Alternative Text Characters</b>
-830	FILTER
-831	SUPPORT
-832	INSTRUMENT TEE
-833	WELD
-834	NONE
-835	Unused
-836	Unused
-837	Unused
-838	Unused
-839	Unused
-840	Changed to Bend
-841	Flange set to Loose
-842	Detail Sketch ?
-843	Support changed to Fabrication
-844	Support changed to Erection
-845	Support changed to Offshore
-846	Tack Weld
-847	Support Weld(s added
-848	Automatic Weld
-849	Shop Test
-850	REDUCING-CONCENTRIC
-851	REDUCING-ECCENTRIC
-852	STUB/BACKING PAIR
-853	SCREWED
-854	SLIP-ON J TYPE
-855	SLIP-ON
-856	SOCKET-WELD
-857	WELD-NECK
-858	SLIP-ON ORIFICE
-859	WELD-NECK ORIFICE
-860	LAP-JOINT RING
-861	LAP-JOINT STUB END

## Isogen Data Records

<b>Isogen Record</b>	<b>Alternative Text Characters</b>
-862	UNKNOWN
-863	Material added
-864	General Information Note - ?
-865	Specific Information Note - ?
-866	Weld deleted
-867	Support Weld(s deleted
-868	Spool Name deleted
-869	Flow Arrow deleted
-870	Message deleted
-871	Detail Sketch deleted
-872	Information Note deleted
-873	Additional Material deleted
-874	Loose Flange un-set
-875	Location point added
-876	Location point deleted
-877	FLOOR/WALL PENETRATION
-878	FLOW ARROW
-879	INSULATION SYMBOL
-880	MESSAGE
-881	Drawing Identifier deleted
-882	Default Start
-883	Pipeline Start
-884	Default Bypass Closure
-885	What is this used for ?????
-886	Bypass Closure
-889	
-890	Coupling Added
-891	Coupling Deleted

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

<b>Negative Text Records -1000 to -1099</b>		
<b>Isogen Record</b>	<b>Description</b>	<b>PCF Name</b>
-1000	Unique Identifier	<b>UNIQUE-IDENTIFIER</b>
-1001	Spare	
-1002	Spare	
-1003	Spare	
-1004	Material Control Output filename (Overwrite)	<b>MATERIAL-CONTROL-OVERWRITE</b>
-1005	Spool Information Output filename (Overwrite)	<b>SPOOL-INFORMATION-FILE-OVERWRITE</b>
-1006	Spare	
-1007	Spare	
-1008	Spare	
-1009	Spare	
-1010	Spare	
-1011	Spare	
-1012	Spare	
-1013	Spare	
-1014	Spare	
-1015	Spare	
-1016	Spare	
-1017	Spare	
-1018	Spare	
-1019	Spare	
-1020	Spare	
-1021	Cut Pipe Length (specified in 100 <sup>th</sup> mm)	<b>CUT-PIPE-LENGTH</b>
-1022	Weld Thickness Rating (specified in 100 <sup>th</sup> mm)	<b>THICKNESS-RATING</b>
-1023	Bend Sequence Identifier	
-1024	Spare	
-1025	Spare	
-1026	Spare	

<b>Negative Text Records -1000 to -1099</b>		
<b>Isogen Record</b>	<b>Description</b>	<b>PCF Name</b>
-1027	Spare	
-1028	Spare	
-1029	Spare	
-1030	Stiffness Plus in East direction	<b>STIFFNESS-PLUS</b>
-1031	Stiffness Plus in North direction	<b>STIFFNESS-PLUS</b>
-1032	Stiffness Plus in Up direction	<b>STIFFNESS-PLUS</b>
-1033	Stiffness Minus in West direction	<b>STIFFNESS-MINUS</b>
-1034	Stiffness Minus in South direction	<b>STIFFNESS-MINUS</b>
-1035	Stiffness Minus in Down direction	<b>STIFFNESS-MINUS</b>
-1036	Rotational Stiffness Plus in East direction	<b>ROTATIONAL-STIFFNESS-PLUS</b>
-1037	Rotational Stiffness Plus in North direction	<b>ROTATIONAL-STIFFNESS-PLUS</b>
-1038	Rotational Stiffness Plus in Up direction	<b>ROTATIONAL-STIFFNESS-PLUS</b>
-1039	Rotational Stiffness Minus in West direction	<b>ROTATIONAL-STIFFNESS-MINUS</b>
-1040	Rotational Stiffness Minus in South direction	<b>ROTATIONAL-STIFFNESS-MINUS</b>
-1041	Rotational Stiffness Minus in Down direction	<b>ROTATIONAL-STIFFNESS-MINUS</b>
-1042	Gap Plus local in East direction	<b>GAP-PLUS</b>
-1043	Gap Plus local in North direction	<b>GAP-PLUS</b>
-1044	Gap Plus local in Up direction	<b>GAP-PLUS</b>
-1045	Gap Minus local in West direction	<b>GAP-MINUS</b>
-1046	Gap Minus local in South direction	<b>GAP-MINUS</b>
-1047	Gap Minus local in Down direction	<b>GAP-MINUS</b>
-1048	Rotational Gap Plus local in East direction	<b>ROTATIONAL-GAP-PLUS</b>
-1049	Rotational Gap Plus local in North direction	<b>ROTATIONAL-GAP-PLUS</b>
-1050	Rotational Gap Plus local in Up direction	<b>ROTATIONAL-GAP-PLUS</b>
-1051	Rotational Gap Minus local in West direction	<b>ROTATIONAL-GAP-MINUS</b>
-1052	Rotational Gap Minus local in South direction	<b>ROTATIONAL-GAP-MINUS</b>
-1053	Rotational Gap Minus local in Dowd direction	<b>ROTATIONAL-GAP-MINUS</b>
-1054	Coefficient of Friction in X direction	<b>COEFFICIENT-OF-FRICTION</b>
-1055	Coefficient of Friction in Y direction	<b>COEFFICIENT-OF-FRICTION</b>

Isogen Data Records

<b>Negative Text Records -1000 to -1099</b>		
<b>Isogen Record</b>	<b>Description</b>	<b>PCF Name</b>
-1056	Coefficient of Friction in Z direction	<b>COEFFICIENT-OF-FRICTION</b>
-1057	Select Spring	<b>SELECTSPRING</b>
-1058	Variability	<b>VARIABILITY</b>
-1059	Allow Short Springs	<b>ALLOWSHORTSPRINGS</b>
-1060	Maximum Travel	<b>MAXTRAVEL</b>
-1061	Number of Springs	<b>NUMBEROFSPRINGS</b>
-1062	Manufacturer	<b>MANUFACTURER</b>
-1063	Spare	
-1064	Weight of Reinforcement Pad	<b>WEIGHT</b>
-1065	Spare	
-1066	Spare	
-1067	Spare	
-1068	Spare	
-1069	Spare	
-1070	Spare	
-1071	Spare	
-1072	Spare	
-1073	Spare	
-1074	Spare	
-1075	Spare	
-1076	Spare	
-1077	Spare	
-1078	Spare	
-1079	Spare	
-1080	Spare	
-1081	Spare	
-1082	Spare	
-1083	Spare	
-1084	Spare	
-1085	Spare	

<b>Negative Text Records -1000 to -1099</b>		
<b>Isogen Record</b>	<b>Description</b>	<b>PCF Name</b>
-1086	Spare	
-1087	Spare	
-1088	Spare	
-1089	Spare	
-1090	Spare	
-1091	Spare	
-1092	Spare	
-1093	Spare	
-1094	Spare	
-1095	Spare	
-1096	Spare	
-1097	Spare	
-1098	Spare	
-1099	Spare	