

ISOMETRIC IFC - CHECK LIST

Line Number	021601WSS0005	Stress CN / Level	N° 035	Level: II																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Information to be attached: Master Copy of PID: YES <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N° 800124-026-PID-0021-015 Rev. 1 PID Modification Sheet: YES <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N° Rev. Equipment Vendor Dwg.: YES <input checked="" type="checkbox"/> N/A <input type="checkbox"/> N° Rev. Instrument Dwg.: YES <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N° Rev. Project By-Pass ⁽⁴⁾ : YES <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N° Rev. SPO Approved Isometric: YES <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Rev. Extraction Date: SIT Approved Isometric: YES <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Rev. Extraction Date:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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<table border="1" style="width: 100%;"> <thead> <tr> <th>N°</th> <th>SHORT DESCRIPTION</th> <th>RESOLVED (✓)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>					N°	SHORT DESCRIPTION	RESOLVED (✓)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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<div style="display: flex; justify-content: space-between;"> <div style="width: 65%;"> <p style="text-align: center;">A VERIFICAR / TO BE CHECKED</p> <p style="text-align: center;">Revision By : (D) Designer / (LDG) Design Leader / (ST) Stress Specialist / (LST) Stress Leader / (SP) Supports Specialist / (LSP) Supports leader / (M) Materials / (SL) Spooler / (CHK) Issuer / (L) Discipline Lead</p> <p style="text-align: center;">Revision By : (D) Designer / (LDG) Design Leader</p> <table border="1" style="width: 100%;"> <thead> <tr> <th rowspan="2">Iso Information</th> <th rowspan="2">Equipment</th> <th rowspan="2">Line Design</th> <th rowspan="2">Stress</th> <th rowspan="2">Supports</th> <th rowspan="2">Materials</th> <th rowspan="2">Final Check</th> <th colspan="4">IFC</th> </tr> <tr> <th>REV 0</th> <th>REV 1</th> <th>REV 2</th> </tr> </thead> <tbody> <tr> <td>N° de línea según PID y lista de líneas / Line Nbr. according to PID and line list</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td>X⁽¹⁾</td> <td>1st-Chk⁽²⁾</td> <td>2nd-Chk⁽³⁾</td> </tr> <tr> <td>Datos de la línea según lista de líneas / Line data according to line list</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>Clase de tubería según PID y Lista de Líneas / Piping class according to PID and Line List</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>Vínculo E3D con Diagrams (Process Unit, Temp Operación, Numeracion TODAS válvulas manuales) / Link between E3D and Diagrams (Process Unit, Op Temp, ALL manual valves Tagged)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>Diámetro de la línea indicado en número de línea en el cajetín / Line diameter indicated in the line number in the title block</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>Equipo modelado según plano Vendor válido para generar isométrica IFC / Equipment modelled according Vendor drawing valid for Isometric IFC generation</td> <td>Código / Code: 2 <input type="checkbox"/> 3 <input type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Nombre de tubuladuras según PID y plano Vendor / Name of nozzle according to PID and Vendor drawing</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Rating y diámetro de tubuladuras según plano Vendor / Rating and diameter of nozzles according to vendor drawing</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Posición y elevación de tubuladuras según plano Vendor / Position and elevation of nozzles according to Vendor drawing</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="7">Revision By : (D) Designer / (LDG) Design Leader</td> <td colspan="4">By: D By: LDG</td> </tr> <tr> <td>Línea sin colisión (verificación incluyendo la nube de puntos) / Line is clash free (checked including points cloud)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>Comentarios de SPO a líneas críticas recibidos e implementados antes de extracción final para emisión / Process comments to critical lines received and implemented before final extraction for issuance</td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Verificación contra P&ID y Lista de Líneas / Check Iso vs P&ID and Line List : Correcta referencia de la continuidad de la isométrica en líneas nuevas, líneas existentes u otra hoja de la isométrica en los extremos de línea y sus ramales, incluyendo elevaciones y coordenadas / Correct continuity isometric reference to new lines, existing lines or other isometric sheet in each end of the line and its branches including elevations and coordinates</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>Verificación contra P&ID / Check Iso vs P&ID : Elementos en línea incluidos, secuencia de picajes, pendiente, sentido de flujo, numeración de instrumentos, cambios de especificación, cumplimiento de notas / in-line components included, branch sequence, slope, flow direction, instrument numbering, pipe class breaks, notes accomplishment</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>Verificación contra P&ID / Check Iso vs P&ID : Longitudes requeridas de entrada y/o salida a equipos, distancias y/o elevaciones mínimas o máximas requeridas, formación de condensados / Required inlet and/or outlet lengths to equipments, minimum or maximum distances and/or elevations, condensate generation</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>Comentarios de SIT a recibidos e implementados antes de extracción final para emisión / Instrumentation comments received and implemented before final extraction for issuance</td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Verificación contra Planos de Vendor o Hook-up Instrumentacion / Check Iso vs Instrument Vendor Drawings or Hook-up : Tamaño de las válvulas de control y de seguridad, instalación de acuerdo a hook-up / Size of control valves and safety valves, instrument installation according to hook-up</td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Picajes según tabla de picajes correspondiente / Branch configuration according to correspondent branch table</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>Ventosas y drenajes de Procesos según requerimientos de PIDs y de puntos altos y bajos para prueba hidrostática y modelados según "assembly" correspondiente / Process vents and drains according PID requirements and high and low points for hydrostatic test and modelled according proper assembly</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>Verificación de distancia mínima entre soldaduras / Check minimum distance between welds</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>Notas explicativas adicionales incorporadas / Additional clarification notes added</td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="7">Revision By : (ST) Stress Specialist / (LST) Stress Leader</td> <td colspan="4">By: ST By: LST</td> </tr> <tr> <td>El cálculo de stress disponible no está pendiente de revisión en curso / Available stress calculation is not awaiting for revision</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>Los requisitos según el cálculo de stress están incorporados (si son aplicables) / Stress calculation requirements have been added (if applicable)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td colspan="7">Revision By : (SP) Supports Specialist / (LSP) Supports leader</td> <td colspan="4">By: SP By: LSP</td> </tr> <tr> <td>La línea está soportada por completo y la lista de soportes está actualizada en el excel extraído del E3D / Line is completely supported and support list updated according file from E3D</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>Concepto de soporte y separación máxima entre soportes / Support concept and support spans</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>Requerimientos de soportes estan de acuerdo al cálculo de stress y ajustados con el especialista de Stress / Support requirements according to stress calculation note are included and adjusted jointly with stress specialist</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>Numeración correcta de los soportes / Supports correctly numbered</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>Código de soportes correctamente indicados (STD - SPC - COM - MRS - PRF) / Support code correctly indicated (STD - SPC - COM - MRS - PRF)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>Markado de elementos soldados de los soportes en Iso Spool preliminar correspondiente / Mark-up of welded supports components in the correspondent preliminary Iso Spool</td> <td></td> <td>N/A</td> <td></td> <td></td> <td></td> <td></td> <td>-----</td> <td>-----</td> <td>-----</td> <td>-----</td> </tr> <tr> <td colspan="7">Revision By : (M) Materials</td> <td colspan="4">By: M</td> </tr> <tr> <td>La Línea pertenece a alguna o varias categorías de Criticidad. La Línea está listada en la Lista de Líneas Críticas de Materiales. Sus isométricas requieren Verificación exhaustiva / The Line belongs to some or several categories of Criticality. The Line is listed in the Critical Material Lines List. The isometrics require exhaustive verification</td> <td></td> <td>N/A</td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Todos los materiales están identificados en la isométrica y se encuentran listados en el listado de materiales / All materials are identified in the isometric and are listed in the BOM</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Añadidos elementos especiales de tubería en Línea de acuerdo a PIDs última revisión y lista de especiales de tubería (Verificar en adicional correcta Numeración, criterios de Posicionamiento en diseño si aplican) / Inclusion of special piping elements in line according to PIDs latest review and Special Piping Material List (Verify identification number, piping design location criteria if applicable)</td> <td></td> <td>N/A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>N° de identificación de válvulas manuales (según PID) / Identification number of manual valve (according to PID)</td> <td></td> <td>N/A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Todas las juntas y pernos colocadas según tipo requerido (RF, FF, Bolts, Machine Bolts) / All gaskets and bolts placed according required type (RF, FF, Bolts, Machine Bolts)</td> <td></td> <td>N/A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Extensión de volante de válvula modelada y reflejada en lista de materiales de la isométrica / Valves axis extension modelled and reflected in Isometric BOM</td> <td></td> <td>N/A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Válvulas colocadas según PID y Piping Class / Valves placed according PID an Piping Class</td> <td></td> <td>N/A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="7">Revision By : (CHK) Issuer</td> <td colspan="4">By: CHK</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1st-Chk⁽²⁾</td> <td>2nd-Chk⁽³⁾</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td>X</td> <td>✓</td> <td>X</td> </tr> <tr> <td>La isométrica verificada por Procesos (SPO) se corresponde a la última revisión / The isometric verified by Process (SPO) corresponds to its last revision</td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>La isométrica verificada por Instrumentación (SIT) se corresponde a la última revisión / The isometric verified by Instrumentation (SIT) corresponds to its last revision</td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Las notas a mano están incorporadas en las isométricas / The hand-made annotation is included</td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>La revisión de los documentos para la verificación siguen siendo las actuales / Current revision of documents for checking are still the latest available</td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>El número de revisión y la fecha son correctos / The revision number and the date are correct</td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Todos los comentarios se han revisado para se incluidos o descartados / All comments have been checked to be included or discarded</td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Holds resueltos o en su defecto By-Pass aprobado / Holds resolved or instead By-Pass approved</td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> </div> <div data-bbox="684 1899 903 1919" data-label="Section-Header">SIGNATURES (Name and date)</div> <div data-bbox="39 1919 1540 2000" data-label="Table"> <table> <tr> <td>DESIGN LEADER (LD)</td><td>REVIEWED By Andrea Parranti at 12:50 pm, Nov 12, 2020</td><td>SUPPORTS LEADER (LSP)</td><td>REVIEWED By Fernando Perez Accordo at 5:02 pm, Nov 16, 2020</td><td>ISSUER (CHK)</td><td>REVIEWED By Jose G. Suarez at 5:38 pm, Dec 04, 2020</td></tr> <tr> <td>STRESS LEADER (LST)</td><td>REVIEWED By J. LL at 11:15 am, Dec 03, 2020</td><td>MATERIALS (M)</td><td>REVIEWED By Jose G. Suarez at 5:38 pm, Dec 03, 2020</td><td>DISCIPLINE LEAD (L)</td><td></td></tr> </table> </div> <div data-bbox="71 2009 119 2024" data-label="Section-Header">NOTES:</div> <div data-bbox="71 2031 1209 2101" data-label="List-Group"> <p>[1] If "X" marked, a "HOLD" note should be included in the Holds area for justification.</p> <p>[2] 1st checking round: Checker to place a (✓) or a (X) confirming or not Designer verification. A (✓) or a (X) should also be placed to confirm or reject any (X) mark placed by the Designer confirming or not the implicit HOLD.</p> <p>[3] 2nd checking round: Checker to place a (✓) to validate the points that were not confirmed in the 1st round and were corrected by respective Specialist.</p> <p>[4] If an isometric with HOLD is approved by IFC Leader for issuance, the correspondent By-Pass should be attached.</p> </div> <div data-bbox="1463 2179 1536 2192" data-label="Page-Footer">FSTL010 Rev 2</div></div>					Iso Information	Equipment	Line Design	Stress	Supports	Materials	Final Check	IFC				REV 0	REV 1	REV 2	N° de línea según PID y lista de líneas / Line Nbr. according to PID and line list							✓	X ⁽¹⁾	1st-Chk ⁽²⁾	2nd-Chk ⁽³⁾	Datos de la línea según lista de líneas / Line data according to line list							✓		✓		Clase de tubería según PID y Lista de Líneas / Piping class according to PID and Line List							✓		✓		Vínculo E3D con Diagrams (Process Unit, Temp Operación, Numeracion TODAS válvulas manuales) / Link between E3D and Diagrams (Process Unit, Op Temp, ALL manual valves Tagged)							✓		✓		Diámetro de la línea indicado en número de línea en el cajetín / Line diameter indicated in the line number in the title block							✓		✓		Equipo modelado según plano Vendor válido para generar isométrica IFC / Equipment modelled according Vendor drawing valid for Isometric IFC generation	Código / Code: 2 <input type="checkbox"/> 3 <input type="checkbox"/>										Nombre de tubuladuras según PID y plano Vendor / Name of nozzle according to PID and Vendor drawing											Rating y diámetro de tubuladuras según plano Vendor / Rating and diameter of nozzles according to vendor drawing											Posición y elevación de tubuladuras según plano Vendor / Position and elevation of nozzles according to Vendor drawing											Revision By : (D) Designer / (LDG) Design Leader							By: D By: LDG				Línea sin colisión (verificación incluyendo la nube de puntos) / Line is clash free (checked including points cloud)							✓		✓		Comentarios de SPO a líneas críticas recibidos e implementados antes de extracción final para emisión / Process comments to critical lines received and implemented before final extraction for issuance			✓								Verificación contra P&ID y Lista de Líneas / Check Iso vs P&ID and Line List : Correcta referencia de la continuidad de la isométrica en líneas nuevas, líneas existentes u otra hoja de la isométrica en los extremos de línea y sus ramales, incluyendo elevaciones y coordenadas / Correct continuity isometric reference to new lines, existing lines or other isometric sheet in each end of the line and its branches including elevations and coordinates							✓		✓		Verificación contra P&ID / Check Iso vs P&ID : Elementos en línea incluidos, secuencia de picajes, pendiente, sentido de flujo, numeración de instrumentos, cambios de especificación, cumplimiento de notas / in-line components included, branch sequence, slope, flow direction, instrument numbering, pipe class breaks, notes accomplishment							✓		✓		Verificación contra P&ID / Check Iso vs P&ID : Longitudes requeridas de entrada y/o salida a equipos, distancias y/o elevaciones mínimas o máximas requeridas, formación de condensados / Required inlet and/or outlet lengths to equipments, minimum or maximum distances and/or elevations, condensate generation							✓		✓		Comentarios de SIT a recibidos e implementados antes de extracción final para emisión / Instrumentation comments received and implemented before final extraction for issuance			✓								Verificación contra Planos de Vendor o Hook-up Instrumentacion / Check Iso vs Instrument Vendor Drawings or Hook-up : Tamaño de las válvulas de control y de seguridad, instalación de acuerdo a hook-up / Size of control valves and safety valves, instrument installation according to hook-up			✓								Picajes según tabla de picajes correspondiente / Branch configuration according to correspondent branch table							✓		✓		Ventosas y drenajes de Procesos según requerimientos de PIDs y de puntos altos y bajos para prueba hidrostática y modelados según "assembly" correspondiente / Process vents and drains according PID requirements and high and low points for hydrostatic test and modelled according proper assembly							✓		✓		Verificación de distancia mínima entre soldaduras / Check minimum distance between welds							✓		✓		Notas explicativas adicionales incorporadas / Additional clarification notes added			✓								Revision By : (ST) Stress Specialist / (LST) Stress Leader							By: ST By: LST				El cálculo de stress disponible no está pendiente de revisión en curso / Available stress calculation is not awaiting for revision							✓		✓		Los requisitos según el cálculo de stress están incorporados (si son aplicables) / Stress calculation requirements have been added (if applicable)							✓		✓		Revision By : (SP) Supports Specialist / (LSP) Supports leader							By: SP By: LSP				La línea está soportada por completo y la lista de soportes está actualizada en el excel extraído del E3D / Line is completely supported and support list updated according file from E3D							✓		✓		Concepto de soporte y separación máxima entre soportes / Support concept and support spans							✓		✓		Requerimientos de soportes estan de acuerdo al cálculo de stress y ajustados con el especialista de Stress / Support requirements according to stress calculation note are included and adjusted jointly with stress specialist							✓		✓		Numeración correcta de los soportes / Supports correctly numbered							✓		✓		Código de soportes correctamente indicados (STD - SPC - COM - MRS - PRF) / Support code correctly indicated (STD - SPC - COM - MRS - PRF)							✓		✓		Markado de elementos soldados de los soportes en Iso Spool preliminar correspondiente / Mark-up of welded supports components in the correspondent preliminary Iso Spool		N/A					-----	-----	-----	-----	Revision By : (M) Materials							By: M				La Línea pertenece a alguna o varias categorías de Criticidad. La Línea está listada en la Lista de Líneas Críticas de Materiales. Sus isométricas requieren Verificación exhaustiva / The Line belongs to some or several categories of Criticality. The Line is listed in the Critical Material Lines List. The isometrics require exhaustive verification		N/A					✓				Todos los materiales están identificados en la isométrica y se encuentran listados en el listado de materiales / All materials are identified in the isometric and are listed in the BOM											Añadidos elementos especiales de tubería en Línea de acuerdo a PIDs última revisión y lista de especiales de tubería (Verificar en adicional correcta Numeración, criterios de Posicionamiento en diseño si aplican) / Inclusion of special piping elements in line according to PIDs latest review and Special Piping Material List (Verify identification number, piping design location criteria if applicable)		N/A									N° de identificación de válvulas manuales (según PID) / Identification number of manual valve (according to PID)		N/A									Todas las juntas y pernos colocadas según tipo requerido (RF, FF, Bolts, Machine Bolts) / All gaskets and bolts placed according required type (RF, FF, Bolts, Machine Bolts)		N/A									Extensión de volante de válvula modelada y reflejada en lista de materiales de la isométrica / Valves axis extension modelled and reflected in Isometric BOM		N/A									Válvulas colocadas según PID y Piping Class / Valves placed according PID an Piping Class		N/A									Revision By : (CHK) Issuer							By: CHK											1st-Chk ⁽²⁾	2nd-Chk ⁽³⁾										✓	X	✓	X	La isométrica verificada por Procesos (SPO) se corresponde a la última revisión / The isometric verified by Process (SPO) corresponds to its last revision			✓								La isométrica verificada por Instrumentación (SIT) se corresponde a la última revisión / The isometric verified by Instrumentation (SIT) corresponds to its last revision			✓								Las notas a mano están incorporadas en las isométricas / The hand-made annotation is included			✓								La revisión de los documentos para la verificación siguen siendo las actuales / Current revision of documents for checking are still the latest available			✓								El número de revisión y la fecha son correctos / The revision number and the date are correct			✓								Todos los comentarios se han revisado para se incluidos o descartados / All comments have been checked to be included or discarded			✓								Holds resueltos o en su defecto By-Pass aprobado / Holds resolved or instead By-Pass approved			✓								DESIGN LEADER (LD)	REVIEWED By Andrea Parranti at 12:50 pm, Nov 12, 2020	SUPPORTS LEADER (LSP)	REVIEWED By Fernando Perez Accordo at 5:02 pm, Nov 16, 2020	ISSUER (CHK)	REVIEWED By Jose G. Suarez at 5:38 pm, Dec 04, 2020	STRESS LEADER (LST)	REVIEWED By J. LL at 11:15 am, Dec 03, 2020	MATERIALS (M)	REVIEWED By Jose G. Suarez at 5:38 pm, Dec 03, 2020	DISCIPLINE LEAD (L)	
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Vínculo E3D con Diagrams (Process Unit, Temp Operación, Numeracion TODAS válvulas manuales) / Link between E3D and Diagrams (Process Unit, Op Temp, ALL manual valves Tagged)							✓		✓																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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DESIGN LEADER (LD)	REVIEWED By Andrea Parranti at 12:50 pm, Nov 12, 2020	SUPPORTS LEADER (LSP)	REVIEWED By Fernando Perez Accordo at 5:02 pm, Nov 16, 2020	ISSUER (CHK)	REVIEWED By Jose G. Suarez at 5:38 pm, Dec 04, 2020																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
STRESS LEADER (LST)	REVIEWED By J. LL at 11:15 am, Dec 03, 2020	MATERIALS (M)	REVIEWED By Jose G. Suarez at 5:38 pm, Dec 03, 2020	DISCIPLINE LEAD (L)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

CONTINUE ON
023A3-021601-200-WSS-16SS21-0005_01
E 1014045
N 1038565
EL +117350

023-WES-STD-03272

CONTINUE ON
023A1-021601-200-WSS-16SS21-0005_01
E 1014045
N 1038565
EL +109850

N

MATERIAL LIST - FABRICATION

PT NO	N.S. (MM)	DESCRIPTION	IDENT	QTY
1	200	Pipes (Length), EN 10220, BE, EFW + 100% RT, -,/2.6MM EN 10217-7 Gr.X2CrNi19-11,	C1KV25FK	7.5M

PIPING DPT.

ISSUER

CHECKED

0	12/11/20	APN	LPD	OMC	IFC-ISSUED FOR CONSTRUCTION
REV	DATE	DWN	CHK	APP	DESCRIPTION

ALL dimensions to be checked in field prior to construction. Dimensions and routing shall be field adjusted, It is the piping contractors responsibility to check and verify all closing dimensions to equipment and make adjustments as required in field. ALL dimensions, elevations and coordinates are in millimeter unless noted otherwise. Fieldwelds and overlengths to be determined by piping contractor. Bolt holes to straddle horizontal and vertical centerline unless shown otherwise. Contractor will provide all necessary pipe supports.



NOTES:

For pipes < dn50 supporting to be studied and defined by construction contractor before line fabrication and installation.

REFERENCES / DOCUMENTS

LINE LIST	30201-042-001000-001
ISOMETRIC INDEX	30303-042-023000-200
PIPING SUPPORT	30207-042-021300-001

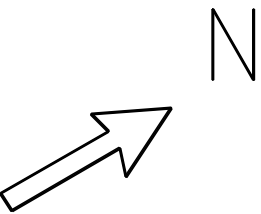
SPEC	16SS21
SYMBOLOLOGY	
Insulated Pipe	Insulated and Traced Pipe
<div>— — — —</div> <div>— — — —</div>	<div>— — — —</div> <div>— — — —</div>

PROJECT DESCRIPTION/LOCATION						
BUTTERFLY PROJECT/KREFELD						
PROCESS UNIT	DESIGN AREA	LINE NUMBER		TRAIN	SHEET	REV
026	023A2	021601-200-WSS-16SS21-0005		01	1 OF 1	0

CONTINUE ON
023A3-021601-200-WSS-16SS21-0005_01
E 1014045
N 1038565
EL +117350

023-WES-STD-03272

CONTINUE ON
023A1-021601-200-WSS-16SS21-0005_01
E 1014045
N 1038565
EL +109850



MATERIAL LIST - FABRICATION

PT NO	N.S. (MM)	DESCRIPTION	IDENT	QTY
1	200	Pipes (Length), EN 10220, BE, EFW + 100% RT, -,/2.6MM EN 10217-7 Gr.X2CrNi19-11,	C1KV25FK	7.5M

PIPING DPT.
MATERIALS
CHECKED
By Jose G. Suarez at 5:38 pm, Dec 03, 2020

0	12/11/20	APN	LPD	OMC	IFC-ISSUED FOR CONSTRUCTION
REV	DATE	DWN	CHK	APP	DESCRIPTION

ALL dimensions to be checked in field prior to construction. Dimensions and routing shall be field adjusted, It is the piping contractors responsibility to check and verify all closing dimensions to equipment and make adjustments as required in field. All dimensions, elevations and coordinates are in millimeter unless noted otherwise. Fieldwelds and overlengths to be determined by piping contractor. Bolt holes to straddle horizontal and vertical centerline unless shown otherwise. Contractor will provide all necessary pipe supports.


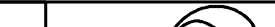
NOTES:

For pipes < dn50 supporting to be studied and defined by construction contractor before line fabrication and installation.

REFERENCES / DOCUMENTS

LINE LIST	30201-042-001000-001
ISOMETRIC INDEX	30303-042-023000-200
PIPING SUPPORT	30207-042-021300-001

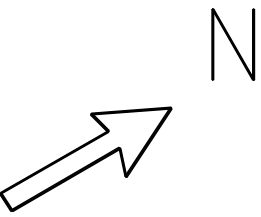
SPEC	16SS21
SYMBOLOLOGY	
Insulated Pipe	Insulated and Traced Pipe

PROJECT DESCRIPTION/LOCATION						
BUTTERFLY PROJECT/KREFELD						
PROCESS UNIT	DESIGN AREA	LINE NUMBER		TRAIN	SHEET	REV
026	023A2	021601-200-WSS-16SS21-0005		01	1 OF 1	0

CONTINUE ON
023A3-021601-200-WSS-16SS21-0005_01
E 1014045
N 1038565
EL +117350

023-WES-STD-03272

CONTINUE ON
023A1-021601-200-WSS-16SS21-0005_01
E 1014045
N 1038565
EL +109850



MATERIAL LIST - FABRICATION

PT NO	N.S. (MM)	DESCRIPTION	IDENT	QTY
1	200	Pipes (Length), EN 10220, BE, EFW + 100% RT, -,/2.6MM EN 10217-7 Gr.X2CrNi19-11,	C1KV25FK	7.5M

PIPING DPT.
STRESS
CHECKED
By J. LL at 11:14 am, Dec 03, 2020

PIPING DPT.
SUPPORTED
By mfernandez1 at 10:51 am, Nov 16, 2020

PIPING DPT.
SUPPORTS
CHECKED
By Fernando Perez Iacono at 5:02 pm, Nov 16, 2020

0	12/11/20	APN	LPD	OMC	IFC-ISSUED FOR CONSTRUCTION
REV	DATE	DWN	CHK	APP	DESCRIPTION

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NOTES:

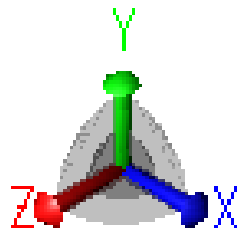
For pipes < dn50 supporting to be studied and defined by construction contractor before line fabrication and installation.

REFERENCES / DOCUMENTS

LINE LIST	30201-042-001000-001
ISOMETRIC INDEX	30303-042-023000-200
PIPING SUPPORT	30207-042-021300-001

SPEC	16SS21
SYMBOLOLOGY	
Insulated Pipe	Insulated and Traced Pipe
— — — —	— — — —
— — — —	— — — —

PROJECT DESCRIPTION/LOCATION						
BUTTERFLY PROJECT/KREFELD						
PROCESS UNIT	DESIGN AREA	LINE NUMBER		TRAIN	SHEET	REV
026	023A2	021601-200-WSS-16SS21-0005		01	1 OF 1	0



CONTINUE ON
023A3-021601-200-WSS-16SS21-0005_01
E 1014045
N 1038565
EL +117350

4502

200NS

7500

200NS

310

N

MATERIAL LIST - FABRICATION

PT NO	N.S. (MM)	DESCRIPTION	IDENT	QTY
1	200	Pipes (Length), EN 10220, BE, EFW + 100% RT, -, /2.6MM EN 10217-7 Gr.X2CrNi19-11,	C1KV25FK	7.5M

PIPING DPT.

STRESS
MASTER

By J. LL at 3:57 pm, Nov 12, 2020

0	12/11/20	APN	LPD	OMC	IFC-ISSUED FOR CONSTRUCTION
REV	DATE	DWN	CHK	APP	DESCRIPTION

ALL dimensions to be checked in field prior to construction. Dimensions and routing shall be field adjusted, It is the piping contractors responsibility to check and verify all closing dimensions to equipment and make adjustments as required in field. ALL dimensions, elevations and coordinates are in millimeter unless noted otherwise. Fieldwelds and overlengths to be determined by piping contractor. Bolt holes to straddle horizontal and vertical centerline unless shown otherwise. Contractor will provide all necessary pipe supports.



NOTES:

For pipes < dn50 supporting to be studied and defined by construction contractor before line fabrication and installation.

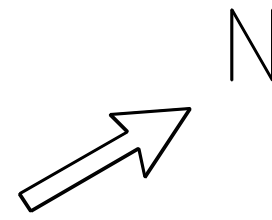
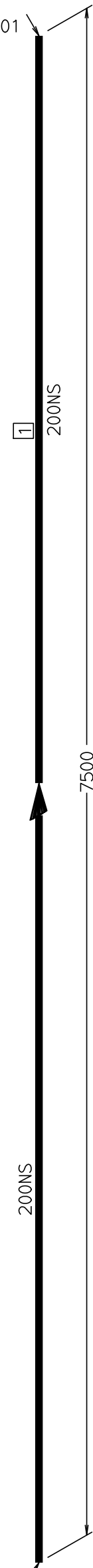
REFERENCES / DOCUMENTS

LINE LIST	30201-042-001000-001
ISOMETRIC INDEX	30303-042-023000-200
PIPING SUPPORT	30207-042-021300-001



SPEC	16SS21
SYMBOLOLOGY	
Insulated Pipe	Insulated and Traced Pipe
— — — —	— — — —
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PROJECT DESCRIPTION/LOCATION						
BUTTERFLY PROJECT/KREFELD						
PROCESS UNIT	DESIGN AREA	LINE NUMBER		TRAIN	SHEET	REV
026	023A2	021601-200-WSS-16SS21-0005		01	1 OF 1	0

CONTINUE ON
023A1-021601-200-WSS-16SS21-0005_01
E 1014045
N 1038565
EL +109850



MATERIAL LIST - FABRICATION				
PT NO	N.S. (MM)	DESCRIPTION	IDENT	QTY
1	200	Pipes (Length), EN 10220, BE, EFW + 100% RT, -, /2.6MM EN 10217-7 Gr.X2CrNi19-11,	C1KV25FK	7.5M

<div>PIPING DPT. DESIGNED <i>By apereznune at 11:57 am, Nov 12, 2020</i></div>					<div>PIPING DPT. DESIGN CHECKED <i>By Andrea Ferranti at 12:42 pm, Nov 12, 2020</i></div>				
0	12/11/20	APN	LPD	OMC	IFC-ISSUED FOR CONSTRUCTION				
REV	DATE	DWN	CHK	APP	DESCRIPTION				
<p>ALL dimensions to be checked in field prior to construction. Dimensions and routing shall be field adjusted, it is the piping contractors responsibility to check and verify all closing dimensions to equipment and make adjustments as required in field. All dimensions, elevations and coordinates are in millimeter unless noted otherwise. Fieldwelds and overlengths to be determined by piping contractor. Bolt holes to straddle horizontal and vertical centerline unless shown otherwise. Contractor will provide all necessary pipe supports.</p>									
PROJECT DESCRIPTION/LOCATION BUTTERFLY PROJECT/KREFELD					 TechnipFMC				
PROCESS UNIT	DESIGN AREA		LINE NUMBER				TRAIN	SHEET	REV
026	023A2		021601-200-WSS-16SS21-0005				01	1 OF 1	0