

Table 6 - Mapping table for piping_component_characterization UoF (continued)

Application element	AIM element	Source	Rules	Reference path
angle (concluded)	<p style="text-align: center; color: red;"> iTeh STANDARD PREVIEW (standards.iteh.ai) ISO 10303-227:2001 https://standards.iteh.ai/catalog/standards/siv/2562cb1d-1ba4-44f2-8ac1-1c6c32f86db3/iso-10303-227-2001 </p>			<pre> #2: (piping_component_class <= characterized_object characterized_definition = characterized_object characterized_definition <- property_definition.definition property_definition represented_definition = property_definition represented_definition <- property_definition_representation.definition property_definition_representation property_definition_representation.used_representation -> {representation representation.name = `y type lateral fitting class dimensions`} representation (representation.items[i] -> {representation_item (representation_item.name = `maximum angle`) (representation_item.name = `minimum angle`)}) ([representation.items[i] -> {representation_item representation_item.name = `maximum angle`}]) [representation.items[i] -> {representation_item representation_item.name = `minimum angle`}]) representation_item => measure_representation_item <= {measure_with_unit => plane_angle_measure_with_unit} measure_with_unit [measure_with_unit.value_component] [measure_with_unit.unit_component] </pre>

Table 6 - Mapping table for piping_component_characterization UoF (continued)

Application element	AIM element	Source	Rules	Reference path
centre_to_end_1_length	[measure_with_unit.value_component] [measure_with_unit.unit_component]	41 41	15, 16	#1: (piping_component_definition <= product_definition characterized_product_definition = product_definition characterized_product_definition characterized_definition = characterized_product_definition characterized_definition <= property_definition.definition property_definition => product_definition_shape <= [shape_aspect.of_shape {shape_aspect shape_aspect.description = `centre`} shape_aspect <= shape_aspect_relationship.relatng_shape_aspect] [shape_aspect.of_shape {[shape_aspect => plant_item_connector] [shape_aspect shape_aspect.description = `end 1`}] shape_aspect <= shape_aspect_relationship.related_shape_aspect] shape_aspect_relationship => dimensional_location dimensional_characteristic = dimensional_location dimensional_characteristic <= dimensional_characteristic_representation.dimension dimensional_characteristic_representation dimensional_characteristic_representation.representation -> shape_dimension_representation <= shape_representation <= {representation representation.name = `y type lateral fitting dimensional shape`}

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Table 6 - Mapping table for piping_component_characterization UoF (continued)

Application element	AIM element	Source	Rules	Reference path
<p>centre_to_end_1_length</p> <p>(concluded)</p>	<p style="text-align: center; color: red;">iTeH STANDARD PREVIEW (standards.iteh.ai)</p> <p style="text-align: center; color: red;">ISO 10303-227:2001 https://standards.iteh.ai/catalog/standards/siv/2562cb1d-1ba4-44f2-8cc1-1c6c32f86db3/iso-10303-227-2001</p>			<pre> representation representation.items[i] -> {representation_item representation_item.name = `centre to end 1 length'}) #2: (piping_component_class <= characterized_object characterized_definition = characterized_object characterized_definition <- property_definition.definition property_definition represented_definition = property_definition represented_definition <- property_definition_representation.definition property_definition_representation property_definition_representation.used_representation -> {representation representation.name = `y type lateral fitting class dimensions'} representation (representation.items[i] -> {representation_item (representation_item.name = `maximum centre to end 1 length') (representation_item.name = `minimum centre to end 1 length'}}) ([representation.items[i] -> {representation_item representation_item.name = `maximum centre to end 1 length'}] [representation.items[i] -> {representation_item representation_item.name = `minimum centre to end 1 length'}}]) representation_item => measure_representation_item <= {measure_with_unit => length_measure_with_unit} </pre>

Table 6 - Mapping table for piping_component_characterization UoF (continued)

Application element	AIM element	Source	Rules	Reference path
centre_to_end_2_length	[measure_with_unit.value_component] [measure_with_unit.unit_component]	41 41	15, 16	#1: (piping_component_definition <= product_definition characterized_product_definition = product_definition characterized_product_definition characterized_definition = characterized_product_definition characterized_definition <= property_definition.definition property_definition => product_definition_shape <= [shape_aspect.of_shape {shape_aspect shape_aspect.description = `centre`} shape_aspect <= shape_aspect_relationship.relatng_shape_aspect] [shape_aspect.of_shape {[shape_aspect => plant_item_connector] [shape_aspect shape_aspect.description = `end 2`}] shape_aspect <= shape_aspect_relationship.related_shape_aspect] shape_aspect_relationship => dimensional_location dimensional_characteristic = dimensional_location dimensional_characteristic <= dimensional_characteristic_representation.dimension dimensional_characteristic_representation dimensional_characteristic_representation.representation -> shape_dimension_representation <= shape_representation <= {representation representation.name = `y type lateral fitting dimensional shape`}

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Table 6 - Mapping table for piping_component_characterization UoF (continued)

Application element	AIM element	Source	Rules	Reference path
<p>centre_to_end_2_length</p> <p>(concluded)</p>	<p style="text-align: center; color: red;">iTeH STANDARD PREVIEW (standards.iteh.ai)</p> <p style="text-align: center; color: red;">ISO 10303-227:2001 https://standards.iteh.ai/catalog/standards/siv/2562cb1d-1ba4-44f2-8cc1-1c6c32f86db3/iso-10303-227-2001</p>			<pre> representation representation.items[i] -> {representation_item representation_item.name = `centre to end 2 length'}) #2: (piping_component_class <= characterized_object characterized_definition = characterized_object characterized_definition <- property_definition.definition property_definition represented_definition = property_definition represented_definition <- property_definition_representation.definition property_definition_representation property_definition_representation.used_representation -> {representation representation.name = `y type lateral fitting class dimensions'} representation (representation.items[i] -> {representation_item (representation_item.name = `maximum centre to end 2 length') (representation_item.name = `minimum centre to end 2 length'}}) ([representation.items[i] -> {representation_item representation_item.name = `maximum centre to end 2 length'}] [representation.items[i] -> {representation_item representation_item.name = `minimum centre to end 2 length'}})) representation_item => measure_representation_item <= {measure_with_unit => length_measure_with_unit} </pre>

Table 6 - Mapping table for piping_component_characterization UoF (continued)

Application element	AIM element	Source	Rules	Reference path
centre_to_end_3_length	[measure_with_unit.value_component] [measure_with_unit.unit_component]	41 41	15, 16	#1: (piping_component_definition <= product_definition characterized_product_definition = product_definition characterized_product_definition characterized_definition = characterized_product_definition characterized_definition <= property_definition.definition property_definition => product_definition_shape <= [shape_aspect.of_shape {shape_aspect shape_aspect.description = `centre`} shape_aspect <= shape_aspect_relationship.relatng_shape_aspect] [shape_aspect.of_shape {[shape_aspect => plant_item_connector] [shape_aspect shape_aspect.description = `end 3`}] shape_aspect <= shape_aspect_relationship.related_shape_aspect] shape_aspect_relationship => dimensional_location dimensional_characteristic = dimensional_location dimensional_characteristic <= dimensional_characteristic_representation.dimension dimensional_characteristic_representation dimensional_characteristic_representation.representation -> shape_dimension_representation <= shape_representation <= {representation representation.name = `y type lateral fitting dimensional shape`}

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Table 6 - Mapping table for piping_component_characterization UoF (continued)

Application element	AIM element	Source	Rules	Reference path
<p>centre_to_end_3_length</p> <p>(concluded)</p>	<p style="text-align: center; color: red;">iTeH STANDARD PREVIEW (standards.iteh.ai)</p> <p style="text-align: center; color: red;">ISO 10303-227:2001 https://standards.iteh.ai/catalog/standards/siv/2562cb1d-1ba4-44f2-8cc1-1c6c32f86db3/iso-10303-227-2001</p>			<pre> representation representation.items[i] -> {representation_item representation_item.name = `centre to end 3 length'}) #2: (piping_component_class <= characterized_object characterized_definition = characterized_object characterized_definition <- property_definition.definition property_definition represented_definition = property_definition represented_definition <- property_definition_representation.definition property_definition_representation property_definition_representation.used_representation -> {representation representation.name = `y type lateral fitting class dimensions'} representation (representation.items[i] -> {representation_item (representation_item.name = `maximum centre to end 3 length') (representation_item.name = `minimum centre to end 3 length')}} ([representation.items[i] -> {representation_item representation_item.name = `maximum centre to end 3 length'}] [representation.items[i] -> {representation_item representation_item.name = `minimum centre to end 3 length'}}]) representation_item => measure_representation_item <= {measure_with_unit => length_measure_with_unit} </pre>

Table 6 - Mapping table for piping_component_characterization UoF (continued)

Application element	AIM element	Source	Rules	Reference path
end_1_connector	plant_item_connector	227		<pre> piping_component_definition <= product_definition characterized_product_definition = product_definition characterized_product_definition characterized_definition = characterized_product_definition characterized_definition <- property_definition.definition property_definition => product_definition_shape <- shape_aspect.of_shape {shape_aspect shape_aspect.description = `end 1`} shape_aspect => plant_item_connector </pre>
end_2_connector	plant_item_connector ISO 10303-227:2001 https://standards.iteh.ai/catalog/standards/siv/2562cb1d-1b14-44f2-8ec1-1c6c32f86db3/iso-10303-227-2001 (standards.iteh.ai)	227		<pre> piping_component_definition <= product_definition characterized_product_definition = product_definition characterized_product_definition characterized_definition = characterized_product_definition characterized_definition <- property_definition.definition property_definition => product_definition_shape <- shape_aspect.of_shape {shape_aspect shape_aspect.description = `end 2`} shape_aspect => plant_item_connector </pre>

Table 6 - Mapping table for piping_component_characterization UoF (concluded)

Application element	AIM element	Source	Rules	Reference path
end_3_connector	plant_item_connector	227		<pre> piping_component_definition <= product_definition characterized_product_definition = product_definition characterized_product_definition characterized_definition = characterized_product_definition characterized_definition <- property_definition.definition property_definition => product_definition_shape <- shape_aspect.of_shape {shape_aspect shape_aspect.description = `end 3`} shape_aspect => plant_item_connector </pre>

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Table 7 - Mapping table for piping_system_functional_characterization UoF

Application element	AIM element	Source	Rules	Reference path
LINE_BRANCH_- CONNECTION	line_branch_connection	227		<pre> line_branch_connection <= shape_aspect_relationship {shape_aspect_relationship [shape_aspect_relationship.description = `branch location`] [shape_aspect_relationship.relatng_shape_aspect -> shape_aspect shape_aspect.of_shape -> product_definition_shape <= property_definition property_definition.definition -> characterized_definition characterized_definition = characterized_product_definition characterized_product_definition characterized_product_definition = product_definition product_definition => plant_line_segment_definition] [shape_aspect_relationship.related_shape_aspect -> shape_aspect => plant_line_segment_termination]}}</pre>

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Table 7 - Mapping table for piping_system_functional_characterization UoF (continued)

Application element	AIM element	Source	Rules	Reference path
branch_sequence_id	shape_aspect_relationship.name	41		<pre> line_branch_connection <= {shape_aspect_relationship shape_aspect_relationship.relatng_shape_aspect -> shape_aspect shape_aspect.of_shape -> product_definition_shape <- [shape_aspect.of_shape shape_aspect shape_aspect.description = `termination 1`] [shape_aspect.of_shape shape_aspect shape_aspect.description = `termination 2']] shape_aspect_relationship shape_aspect_relationship.name </pre>
line_branch_connection to changed_line_ branch_connection	IDENTICAL MAPPING			
LINE_BRANCH_ TERMINATION	plant_line_segment_termination	227		<pre> plant_line_segment_termination <= shape_aspect </pre>
line_branch_termination to line_branch_ connection	PATH			<pre> plant_line_segment_termination <= shape_aspect <- shape_aspect_relationship.related_shape_aspect shape_aspect_relationship </pre>

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Table 7 - Mapping table for piping_system_functional_characterization UoF (continued)

Application element	AIM element	Source	Rules	Reference path
LINE_PIPING_- SYSTEM_- COMPONENT_- ASSIGNMENT	product_definition_relationship	41	1, 9, 11, 13, 14	{product_definition_relationship [product_definition_relationship.name = `realization'] [product_definition_relationship.relater_product_definition -> {product_definition => plant_line_segment_definition} product_definition product_definition.frame_of_reference -> product_definition_context <= application_context_element application_context_element.name = `functional definition'] [product_definition_relationship.related_product_definition -> {product_definition => piping_component_definition} product_definition product_definition.frame_of_reference -> product_definition_context <= application_context_element (application_context_element.name = `functional occurrence') (application_context_element.name = `physical occurrence')}]}
line_piping_system_- component_assignment to_changed_line_- assignment	IDENTICAL MAPPING			

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Table 7 - Mapping table for piping_system_functional_characterization UoF (continued)

Application element	AIM element	Source	Rules	Reference path
LINE_PLANT_ITEM_- BRANCH_CONNECTION	line_plant_item_branch_connection	227		<pre> line_plant_item_branch_connection <= shape_aspect_relationship {shape_aspect_relationship [shape_aspect_relationship.relating_shape_aspect -> shape_aspect shape_aspect.of_shape -> product_definition_shape <= property_definition property_definition.definition -> characterized_definition characterized_definition = characterized_product_definition characterized_product_definition characterized_product_definition = product_definition product_definition => plant_line_segment_definition] [shape_aspect_relationship.related_shape_aspect -> shape_aspect => plant_item_connector]} </pre>
branch_sequence_id	shape_aspect_relationship.name	41		<pre> line_plant_item_branch_connection <= {shape_aspect_relationship shape_aspect_relationship.relating_shape_aspect -> shape_aspect shape_aspect.of_shape -> product_definition_shape <- [shape_aspect.of_shape shape_aspect shape_aspect.description = `termination 1`] [shape_aspect.of_shape shape_aspect shape_aspect.description = `termination 2']}] shape_aspect_relationship shape_aspect_relationship.name </pre>

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Table 7 - Mapping table for piping_system_functional_characterization UoF (continued)

Application element	AIM element	Source	Rules	Reference path
line_plant_item_branch_- connection to changed_- line_plant_item_branch_- connection	IDENTICAL MAPPING			
LINE_PLANT_ITEM_- BRANCH_CONNECTOR	plant_item_connector https://standards.iteh.ai/catalog/standards/sist/2562c11d-1ba4-44f2-8ec1-1c6c32f86db8/iso-10303-227-2001 ISO 10303-227:2001 iteh STANDARD PREVIEW (standards.iteh.ai)	227	1, 9, 11, 13	plant_item_connector <= shape_aspect {shape_aspect [shape_aspect.description = `line plant item connector`] [shape_aspect.of_shape -> product_definition_shape <= property_definition property_definition.definition -> characterized_definition characterized_definition = characterized_product_definition characterized_product_definition characterized_product_definition = product_definition product_definition product_definition.frame_of_reference -> product_definition_context <= application_context_element application_context_element.name = `functional occurrence`]}
line_plant_item_branch_- connector to line_plant_- item_branch_connection	PATH			plant_item_connector <= shape_aspect <- shape_aspect_relationship.related_shape_aspect shape_aspect_relationship => line plant item branch connection

Table 7 - Mapping table for piping_system_functional_characterization UoF (continued)

Application element	AIM element	Source	Rules	Reference path
LINE_PLANT_ITEM_- CONNECTION	line_plant_item_connection	227		line_plant_item_connection <= shape_aspect_relationship {shape_aspect_relationship [shape_aspect_relationship.relating_shape_aspect -> shape_aspect => plant_line_segment_termination] [shape_aspect_relationship.related_shape_aspect -> {shape_aspect <= plant_item_connector} shape_aspect shape_aspect.of_shape -> product_definition_shape <= property_definition property_definition.definition -> characterized_definition characterized_definition = characterized_product_definition characterized_product_definition characterized_product_definition = product_definition (product_definition) (product_definition => externally_defined_plant_item_definition)}}
line_plant_item_- connection to changed_- line_plant_item_- connection	IDENTICAL MAPPING			

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