

| <Abstract Class>            |
|-----------------------------|
| Component Class Attribution |
| ComponentID                 |
| Code                        |
| Comment                     |
| ManufactureDate             |
| InstallDate                 |
| RemoveDate                  |
| AbandonDate                 |
| Length                      |
| Location                    |
| StartEngineeringStation     |
| EndEngineeringStation       |

| <Abstract Class>                       |
|--|
| CoterminousComponent Class Attribution |
| ComponentID                            |
| Code                                   |
| Comment                                |
| ManufactureDate                        |
| InstallDate                            |
| RemoveDate                             |
| AbandonDate                            |
| Length                                 |
| Location                               |
| StartEngineeringStation                |
| EndEngineeringStation                  |
| AssemblyID                             |
| PressureRating                         |

| <Concrete Class>            | <Concrete Class>                  | <Concrete Class>              | <Concrete Class>               | <Concrete Class>                        | <Concrete Class>                 |
|-----------------------------|-----------------------------------|-------------------------------|--------------------------------|---|----------------------------------|
| Cap                         | Compressor                        | Elbow                         | Flange                         | LauncherReceiver                        | Linepipe                         |
| ComponentID                 | ComponentID                       | ComponentID                   | ComponentID                    | ComponentID                             | ComponentID                      |
| Code                        | Code                              | Code                          | Code                           | Code                                    | Code                             |
| Comment                     | Comment                           | Comment                       | Comment                        | Comment                                 | Comment                          |
| ManufactureDate             | ManufactureDate                   | ManufactureDate               | ManufactureDate                | ManufactureDate                         | ManufactureDate                  |
| InstallDate                 | InstallDate                       | InstallDate                   | InstallDate                    | InstallDate                             | InstallDate                      |
| RemoveDate                  | RemoveDate                        | RemoveDate                    | RemoveDate                     | RemoveDate                              | RemoveDate                       |
| AbandonDate                 | AbandonDate                       | AbandonDate                   | AbandonDate                    | AbandonDate                             | AbandonDate                      |
| Length                      | Length                            | Length                        | Length                         | Length                                  | Length                           |
| Location                    | Location                          | Location                      | Location                       | Location                                | Location                         |
| StartEngineeringStation     | StartEngineeringStation           | StartEngineeringStation       | StartEngineeringStation        | StartEngineeringStation                 | StartEngineeringStation          |
| EndEngineeringStation       | EndEngineeringStation             | EndEngineeringStation         | EndEngineeringStation          | EndEngineeringStation                   | EndEngineeringStation            |
| AssemblyID                  | AssemblyID                        | AssemblyID                    | AssemblyID                     | AssemblyID                              | AssemblyID                       |
| PressureRating              | PressureRating                    | PressureRating                | PressureRating                 | PressureRating                          | PressureRating                   |
| CapManufacturer [RCL]       | CompressorManufacturer [RCL]      | ElbowManufacturer [RCL]       | FlangeManufacturer [RCL]       | LauncherreceiverManufacturer [RCL]      | LinepipeManufacturer [RCL]       |
| CapType [RCL]               | CompressorType [RCL]              | ElbowType [RCL]               | FlangeType [RCL]               | LauncherreceiverType [RCL]              | LinepipeType [RCL]               |
| CapMaterial [RCL]           |                                   | ElbowMaterial [RCL]           | FlangeMaterial [RCL]           |   | LinepipeMaterial [RCL]           |
| CapBoundSpecification [RCL] |                                   | ElbowBoundSpecification [RCL] | FlangeBoundSpecification [RCL] |   | LinepipeBoundSpecification [RCL] |
| CapSpecification            |                                   | ElbowSpecification            | FlangeType                     |   | LinepipeSpecification            |
| CapWeight                   |                                   | ElbowWeight                   | FlangeSpecification            |   | LinepipeYieldStrength            |
|                             |                                   |                               | FlangeClass                    |   | LinepipeGrade                    |
| CapSpecification [RCL]      |                                   | ElbowSpecification [RCL]      | FlangeSpecification [RCL]      |   | LinepipeSpecification [RCL]      |
| CapWeight [RCL]             |                                   | ElbowWeight [RCL]             | FlangeClass [RCL]              |   | LinepipeYieldStrength [RCL]      |
|                             |                                   |                               |                                |   | LinepipeGrade [RCL]              |
|                             | CompressorBoundType [RCL]         |                               |                                |   |                                  |
|                             | CompressorType                    |                               |                                |   |                                  |
|                             | CompressorStage                   |                               |                                |   |                                  |
|                             | CompressorThrow                   |                               |                                |   |                                  |
|                             | CompressorStroke                  |                               |                                |   |                                  |
|                             | CompressorStage [RCL]             |                               |                                |   |                                  |
|                             | CompressorThrow [RCL]             |                               |                                |   |                                  |
|                             | CompressorStroke                  |                               |                                |   |                                  |
| CapBoundDimension [RCL]     |                                   | ElbowBoundDimension [RCL]     |                                |   | LinepipeBoundDimension [RCL]     |
| CapNominalPipeSize          |                                   | ElbowAngle                    |                                |   | LinepipeNominalPipeSize          |
| CapOutsideDiameter          |                                   | ElbowNominalPipeSize          |                                |   | LinepipeOutsideDiameter          |
| CapWallThickness            |                                   | ElbowDiameterOutside          |                                |   | LinepipeWallThickness            |
| CapLength                   |                                   | ElbowWallThickness            |                                |   |                                  |
|                             |                                   | ElbowAngle [RCL]              |                                |   |                                  |
| CapNominalPipeSize [RCL]    | CompressorNominalPipeSize [RCL]   | ElbowNominalPipeSize [RCL]    | FlangeNominalPipeSize [RCL]    | LauncherreceiverNominalPipeSize [RCL]   | LinepipeNominalPipeSize [RCL]    |
| CapOutsideDiameter [RCL]    |                                   | ElbowDiameterOutside [RCL]    |                                |   | LinepipeOutsideDiameter [RCL]    |
| CapWallThickness [RCL]      | CompressorBoundManufacturer [RCL] | ElbowWallThickness [RCL]      |                                | LauncherreceiverBoundManufacturer [RCL] | LinepipeWallThickness [RCL]      |
|                             | CompressorManufacturer            |                               |                                | LauncherreceiverManufacturer            |                                  |
|                             | CompressorProductName             |                               |                                | LauncherreceiverProductName             |                                  |
|                             | CompressorModelNumber             |                               |                                | LauncherreceiverModelNumber             |                                  |
|                             | CompressorProductName [RCL]       |                               | FlangeInsulationType [RCL]     | LauncherreceiverProductName [RCL]       |                                  |
|                             | CompressorModelNumber [RCL]       |                               |                                | LauncherreceiverModelNumber [RCL]       |                                  |
|                             | CompressorSerialNumber            |                               |                                | LauncherreceiverSerialNumber            |                                  |
|                             | CompressorFuelType [RCL]          |                               |                                | LauncherreceiverName                    | LinepipeBendType [RCL]           |
|                             | CompressorPowerRating [UOM]       |                               |                                | LauncherreceiverClass [RCL]             | LinepipeSeamWeldType [RCL]       |

| LEGEND                                 |
|--|
| Bound Attributes                       |
| Independent Version of Bound Attribute |
| Independent Attribute                  |
| [RCL] Refers to a Reference Code List  |
| [UOM] Refers to a Unit Of Measure      |

|  |                                   |  |  |  |                                   |
|--|-----------------------------------|--|--|--|-----------------------------------|
|  | CompressorRatedFlow [UOM]         |  |  |  | LinepipeSeamWeldOrientation [RCL] |
|  | CompressorPressureSuction [UOM]   |  |  |  | LinepipeVerticalPosition [RCL]    |
|  | CompressorPressureDischarge [UOM] |  |  |  | LinepipeMinimumCoverDepth [UOM]   |
|  |                                   |  |  |  |                                   |
|  |                                   |  |  |  |                                   |
|  |                                   |  |  |  |                                   |
|  |                                   |  |  |  |                                   |
|  |                                   |  |  |  |                                   |



|  |                             |  |  |  |                         |
|--|-----------------------------|--|--|--|-------------------------|
|  | PumpPowerRating [UOM]       |  |  |  | ValveFunctionType [RCL] |
|  | PumpRatedFlow [UOM]         |  |  |  | ValveNumber [UOM]       |
|  | PumpPressureSuction [UOM]   |  |  |  | ValveModelNumber [UOM]  |
|  | PumpPressureDischarge [UOM] |  |  |  | ValveSerialNumber [UOM] |
|  |                             |  |  |  |                         |
|  |                             |  |  |  |                         |
|  |                             |  |  |  |                         |
|  |                             |  |  |  |                         |



| <Concrete Class>  |
|-------------------|
| <b>PMLDataset</b> |
| DatasetID         |
| Code              |
| Name              |
| Comment           |
| DateTime          |
| DatasetVersion    |
| Application       |
| Author            |
| PMLVersion        |
| Language          |
| DefaultCRS        |

| <Concrete Class>             |
|------------------------------|
| <b>Pipeline</b>              |
| PipelineID                   |
| Code                         |
| Name                         |
| Comment                      |
| Number                       |
| Operator                     |
|                              |
|                              |
|                              |
|                              |
|                              |
| PipelineBoundType [RCL]      |
| PipelineClassification       |
| PipelineType                 |
| PipelineSubType              |
| PipelineClassification [RCL] |
| PipelineType [RCL]           |
| PipelineSubType [RCL]        |

| <Concrete Class>        |
|-------------------------|
| <b>Assembly</b>         |
| AssemblyID              |
| Code                    |
| Name                    |
| Comment                 |
| InstallDate             |
| OperationDate           |
| RemoveDate              |
| AbandonDate             |
| Length                  |
| StartEngineeringStation |
| EndEngineeringStation   |
| AssemblyBoundType [RCL] |
| AssemblyClassification  |
| AssemblyType            |
| AssemblySubType         |
| AssemblyClassification  |
| AssemblyType            |
| AssemblySubType         |

| LEGEND   |
|--|
| Bound Attributes                                 |
| Independent Version of Bound Attribute           |
| Independent Attribute                            |
| [RCL] References an External Reference Code List |
| [UOM] References a Unit Of Measure               |

<Concrete Class>

**Collection**

**CollectionID**

**Code**

**Name**

**Comment**

CollectionBoundType [RCL]

CollectionClassification

CollectionType

CollectionSubType

CollectionClassification [RCL]

CollectionType [RCL]

CollectionSubType [RCL]