

Process, Power and Marine Division

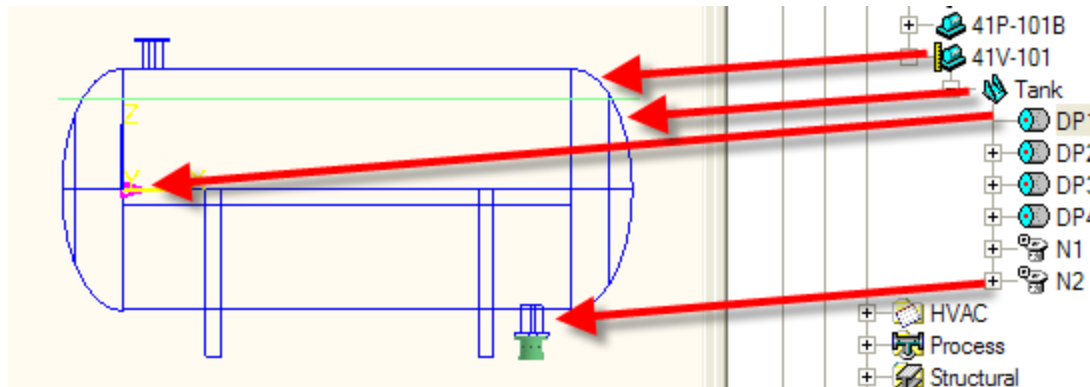
SmartPlant 3D Equipment Functions

Management Overview Training



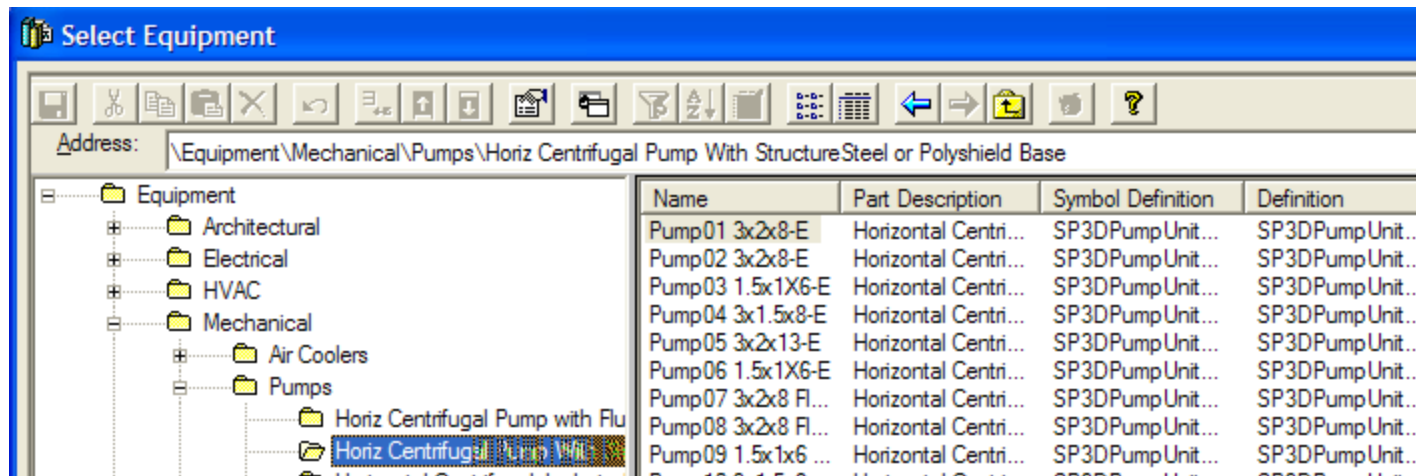
Hierarchical data model

- Equipment, component, shape, nozzle



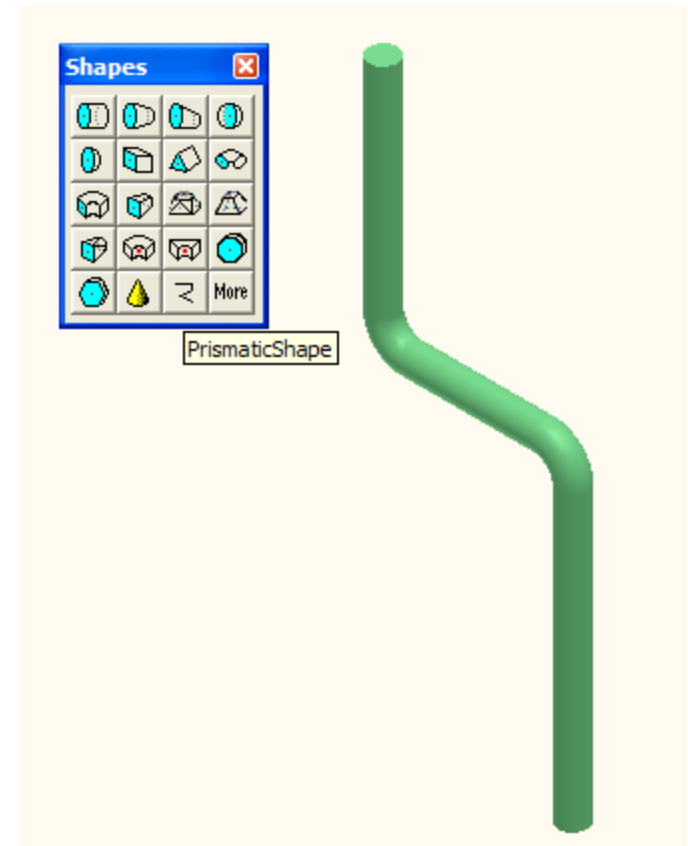
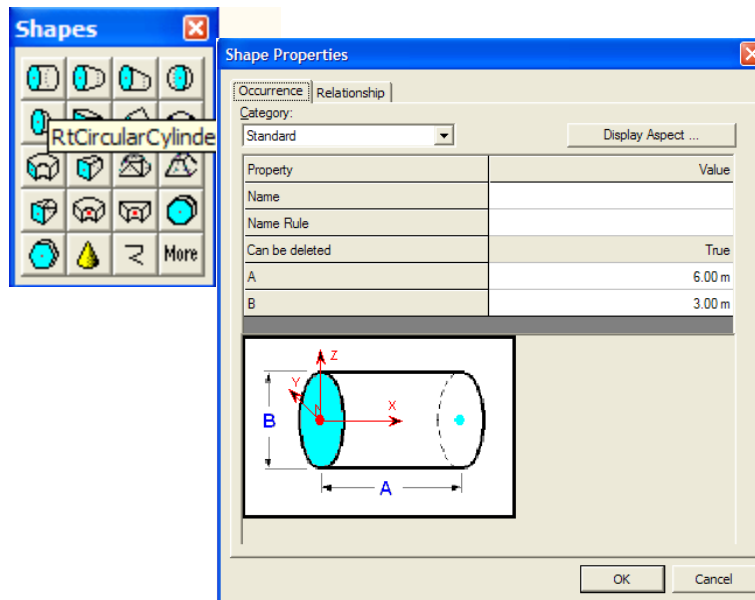
Catalog and Design Equipment

- Both catalog (pre-built) and design (user-built) equipment available



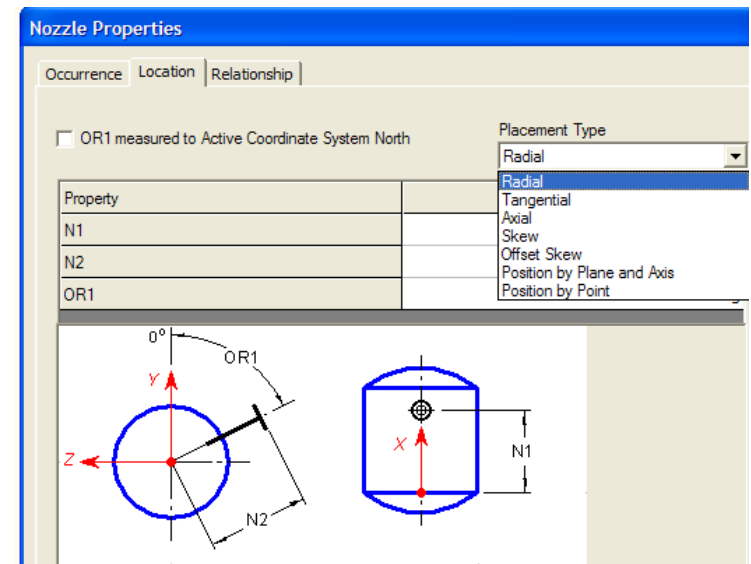
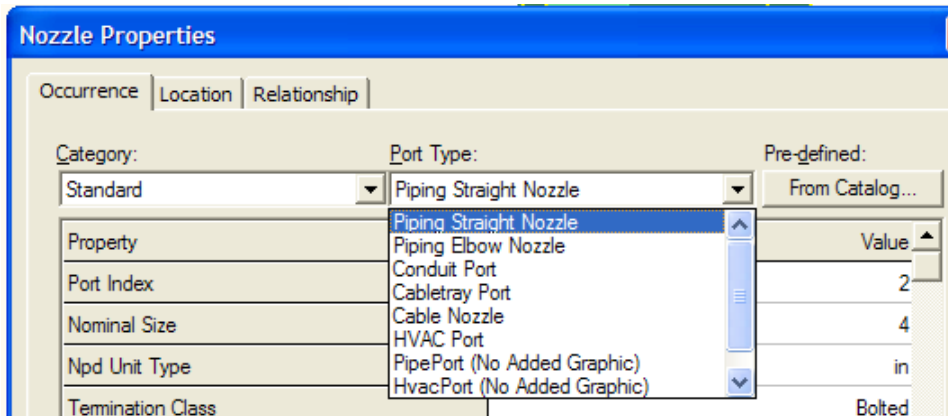
Shapes

- Standard and prismatic shapes (shape along path)



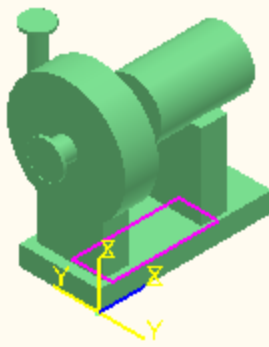
Nozzles

- Nozzles of multiple disciplines and multiple placement types



Foundation Ports

- Foundation ports allow specification of bolt hole locations



Foundation Port Properties

Occurrence | Location | Relationship | Holes | Configuration

Category: Standard Port Type: Foundation Port Pre-defined: From Catalog...

Property	Value
Type	Rectangular foundation port
Name	PumpFoundationPort
Default Foundation	BlockEqpFndn
Hole Diameter	0.05 m
Can be deleted	

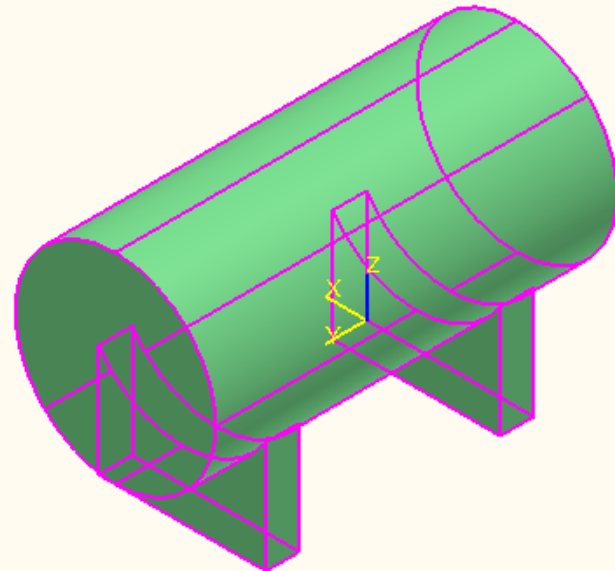
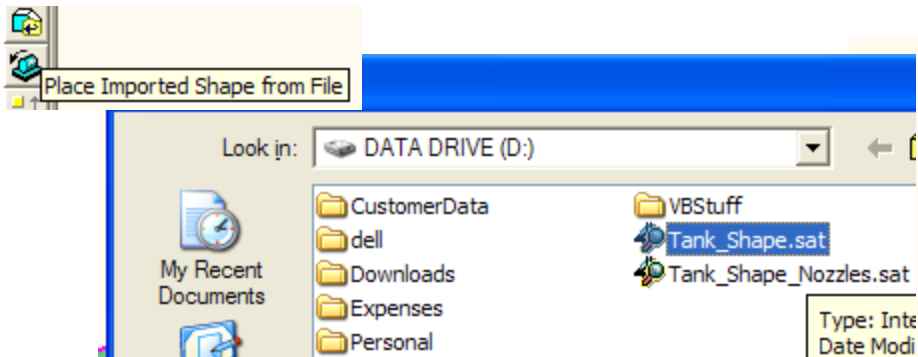
Foundation Port Properties

Occurrence | Location | Relationship | Holes | Configuration

Hole Number	X Coordinate	Y Coordinate	Hole Diameter	Mounting Thickness
1	0.25 m	-0.15 m	0.05 m	
2	0.25 m	-0.45 m	0.05 m	
3	1.05 m	-0.45 m	0.05 m	
4	1.05 m	-0.15 m	0.05 m	

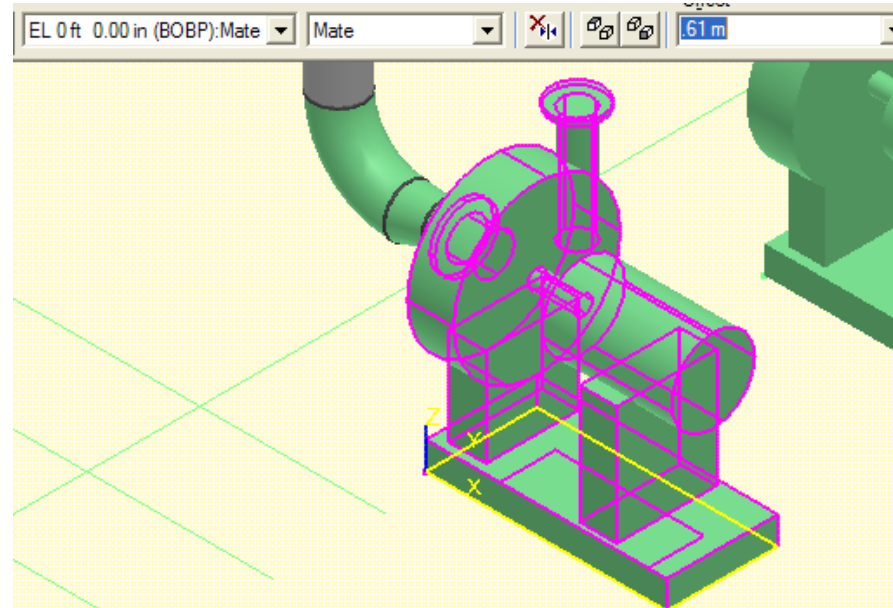
External Data

- Ability to get external data in SAT or DGN format for physical representation



Relationships

- Ability to create persisted relationships between equipment and other objects



Solid Modeling

- Solid modeling features available in V2008