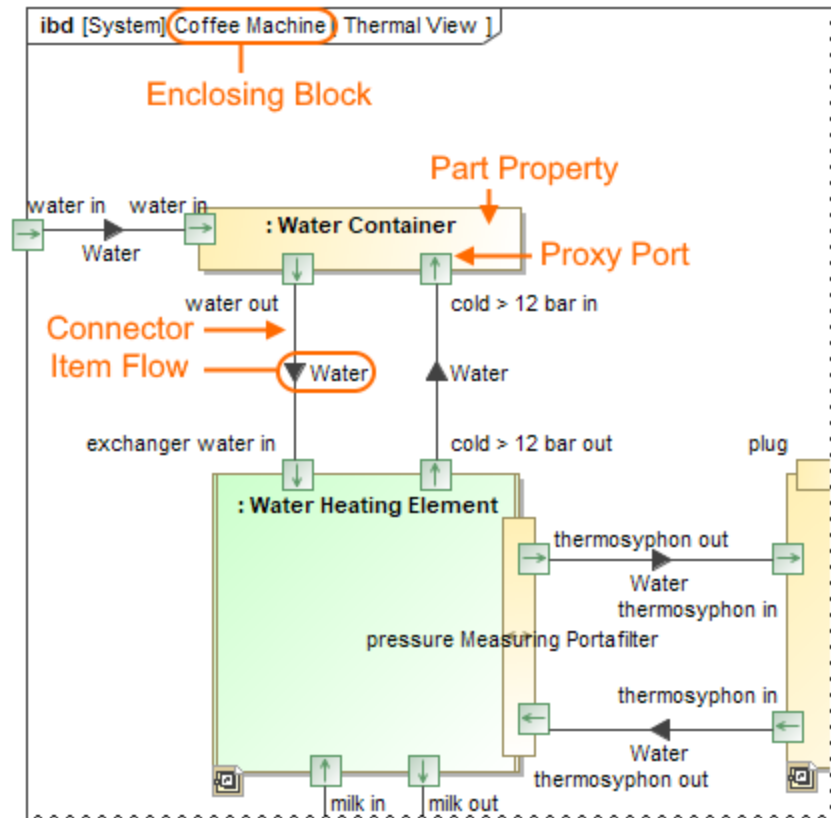


# Connecting Blocks in SysML Internal Block Diagram

After the composite [Blocks](#) are created in the [SysML Block Definition Diagram](#), they can be instantiated on the [SysML Internal Block Diagram](#) as [Part Properties](#). These Part Properties are assembled through the [Connectors](#), linking them directly or via their ports.



An internal structure of *Coffee Machine* Block where Part Properties are connected via Proxy Ports by using the Connector.

Read the following sections to learn how to connect Part Properties in the [SysML Internal Block Diagram](#):

- [Creating a relationship](#)
- [Connecting parts through interface](#)
- [Creating Item Flow](#)
- [Implied Connectors](#)
- [Autowiring function](#)
- [Enforce Ports Compatibility mode](#)
- [Using Association Block as Connector type](#)

## Sample model

The model used in the figure of this page is the **Coffee Machine** sample model. To open this sample do one of the following:

- Download [CoffeeMachine.mdzip](#).
- Find in modeling tool `<modeling tool installation directory>\samples\Simulation\CoffeeMachine.mdzip`.