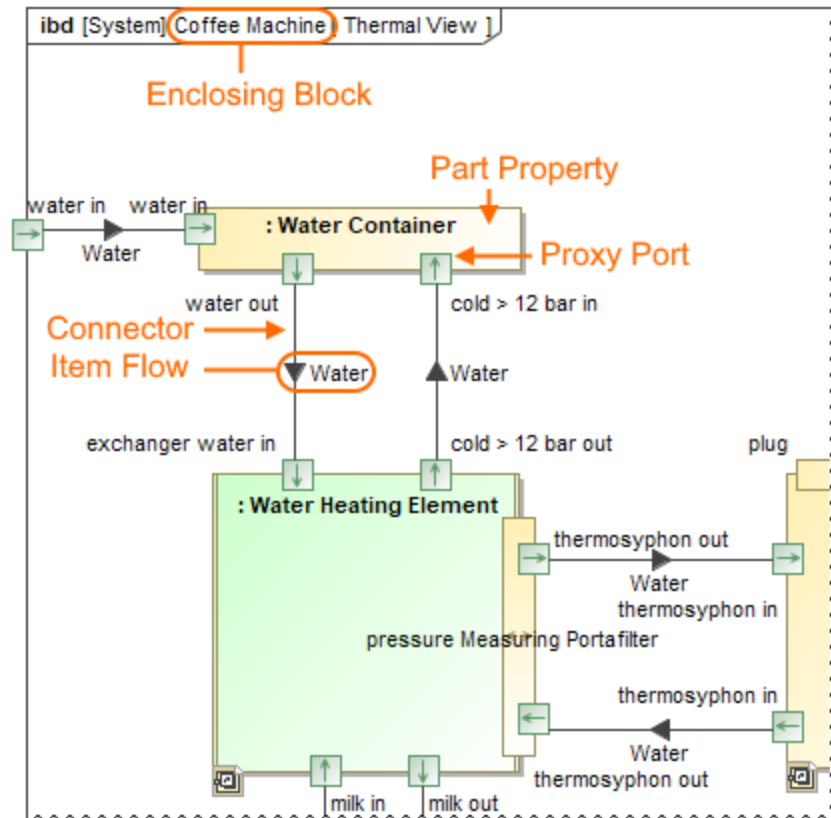


## Connecting Blocks in SysML Internal Block Diagram

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`.