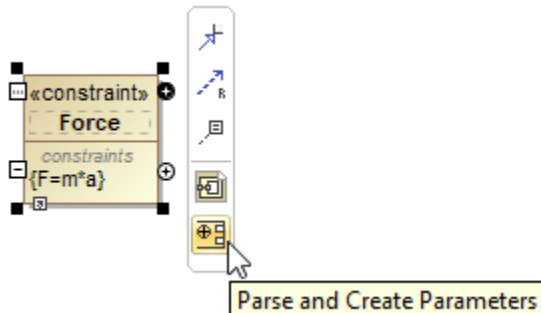


Defining Constraint Blocks

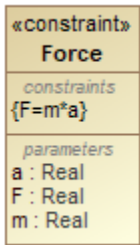
With a [Constraint Block](#), you can define parameters needed to calculate a formula. In a [Parametric diagram](#), Constraint Blocks are used as types of [Constraint Properties](#). You can use the same Constraint Block in several Contexts. Usually, constraints are stored in a library, where you will be able to export and reuse them in other models.

To create a Constraint Block

1. Open a [Block Definition Diagram](#) or [create a new one](#).
2. Click the **Constraint Block** button on the diagram palette, then click an empty space on the diagram pane. An unnamed constraint block is created.
3. Type a Constraint Block name directly on the shape of that element and press Enter.
4. In a constraints compartment, type a formula.
5. Create parameters. Click the Constraint Block. The smart manipulator appears. Click the **Parse and Create Parameters**.



6. According to the formula, parameters having default types assigned are created. If necessary, you may change the type of the particular parameter.



Related pages

- [SysML Block Definition Diagram](#)
- [Displaying parameters and properties](#)
- [Block](#)