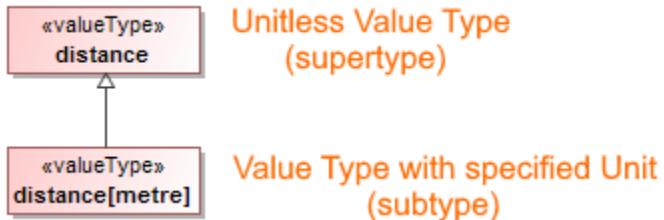


Value Type

A Value Type is defined as a stereotype of UML Data Type to establish a more neutral term for system values that may never be given a concrete data representation. A Value Type adds an ability to carry a [units](#) of measure of a [Quantity Kind](#) associated with the value.



Use the QUDV model library to find all standard value types.



When specifying the Value Type for a [Value Property](#), you can select one of the following:

- Unitless Value Type.
- Value Type with specified unit.

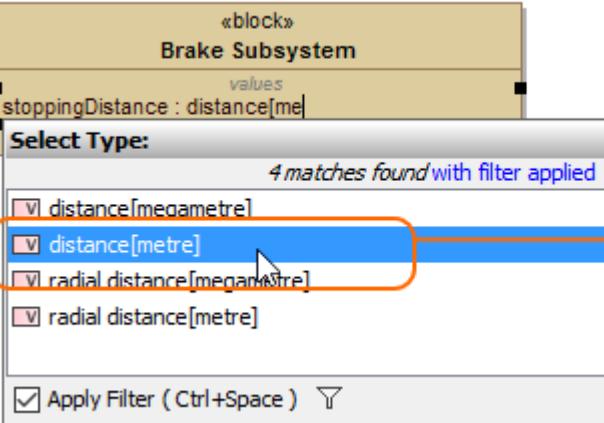
Look at the table below to see the differences.



- If you cannot find the Value Type you need, you can create a custom Value Type. [Learn how to create a custom Value Type >>](#)

If you want to specify the Value Type for a Value Property, follow the procedures in the [Using Units](#) page.

Value Type	Name construction	Purpose	Example
Unitless	Quantity name, e.g. distance.	Use this to create a general-purpose model. Instance Specifications and its Slots can contain different units of the same Block.	<p>The screenshot shows a 'Select Type:' dialog box. At the top, it says 'Brake Subsystem' and 'stoppingDistance : dista'. Below that is a list titled 'Select Type:' with the subtext '110 matches found with filter applied'. The list contains several items, each preceded by a small checkbox and a minus sign: 'distance', 'distance[attometre]', 'distance[centimetre]', 'distance[decametre]', 'distance[decimetre]', 'distance[exametre]', and 'distance[femtometre]'. At the bottom of the list is a checkbox for 'Apply Filter (Ctrl+Space)' followed by a clear button. An orange arrow points from the text 'Unitless Value Type' to the 'distance' item in the list.</p>

With specified units	Quantity and unit names, e.g. distance[metre].	Use this to create a specific-purpose model. Instance Specifications and its Slots can contain the same units of the same Block.	 <p>«block» Brake Subsystem values stoppingDistance : distance[metre]</p> <p>Select Type: 4 matches found with filter applied</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> distance[megaametre] <input checked="" type="checkbox"/> distance[metre] <input checked="" type="checkbox"/> radial distance[megaametre] <input checked="" type="checkbox"/> radial distance[metre] <p><input checked="" type="checkbox"/> Apply Filter (Ctrl+Space) ▾</p>
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Related diagrams

- [SysML Block Definition Diagram](#)