



# HEXAGON

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## Symbol allocation

### General Settings

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## Document History

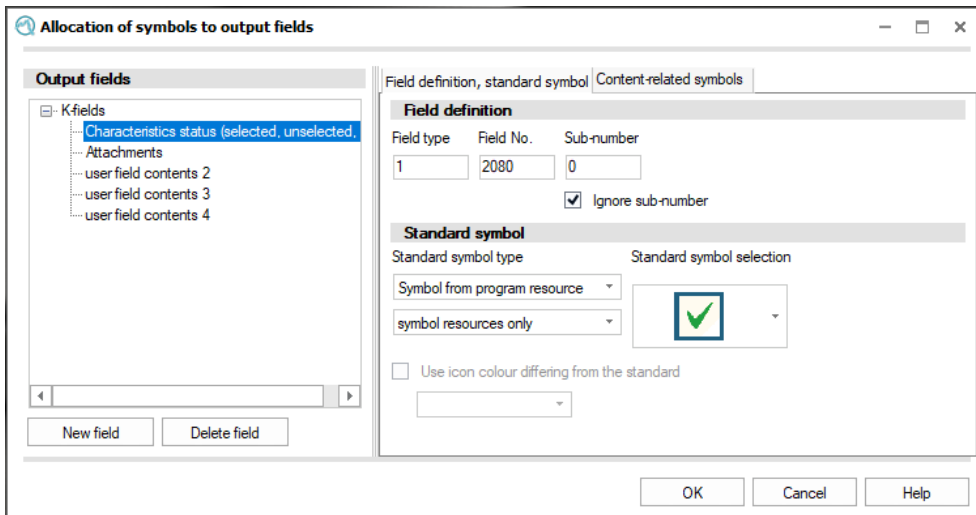
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	26.11.2021	SJ	Translation

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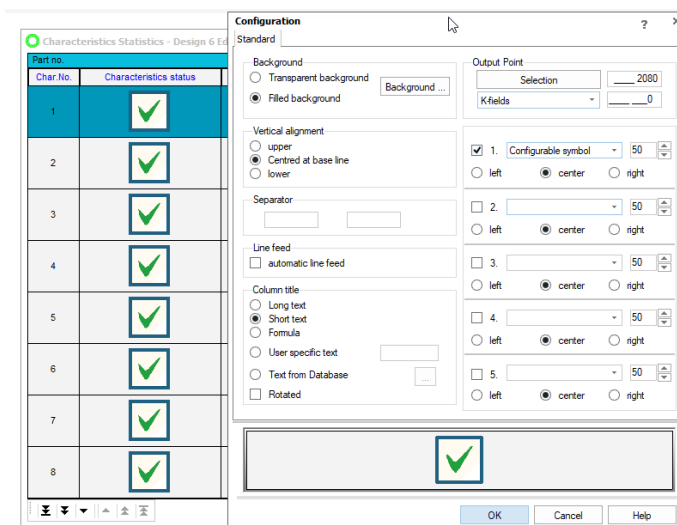
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# 1 Symbol Allocation - Functionality

With the symbol allocation, a fixed symbol or a content-dependent symbol can be allocated to an output point such as K fields or result fields.



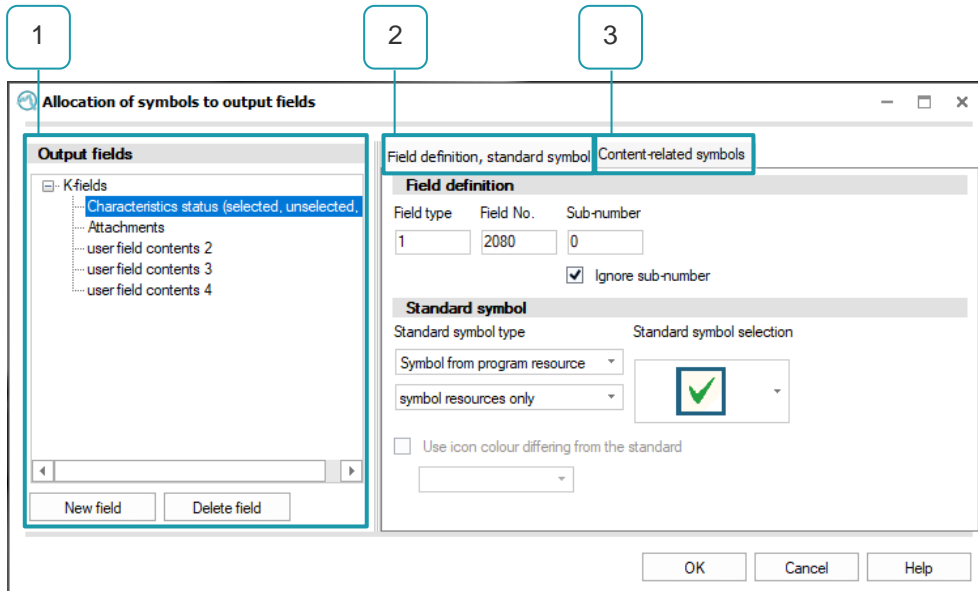
When outputting the field, the symbols can be displayed as "Configurable Symbol" in different graphics.



The configuration of the symbol allocation is saved globally. This means it is independent of the user and module and is configured once for all users, groups and modules.

## 2 Handling the symbol allocation

The dialogue "Allocation of symbols to output fields" is available for configuring the symbol allocation. It is called up via *File | Configuration | General Settings | General Settings 1* and the button "Edit symbol allocation". The dialogue is divided into different areas.



1	Listing and management of the output fields.
2	<p>"Field definition, standard symbol" tab</p> <p>Configuration of the fixed symbol allocation (standard symbol). This symbol allocation shows the standard symbol if the output field has no content.</p>
3	<p>"Content-related symbols" tab</p> <p>Configuration of the content-dependent symbol allocation. The symbol allocation displays the symbol exclusively according to the content.</p>



The combination of fixed and content-related symbol allocation is possible.

## 2.1 Difference between a standard symbol and a content-related symbol - example

The following is a data set with eight characteristics. The fields characteristic number (K2001) and characteristic abbreviation (K2003) are considered.

	K2001	K2002	K2003
	Characteristic Number	Characteristic Description	Characteristic Abbreviation
1.1	1	Model A1	a
1.2	1	Model A2	a
1.3	1	Model B	b
1.4	2	Model C1	b
1.5	XX	Model C2	
1.6	3	Model C3	
1.7	YY	Model C4	
1.8	4	Model D	

### Requirement K2001 - Content-related symbol allocation

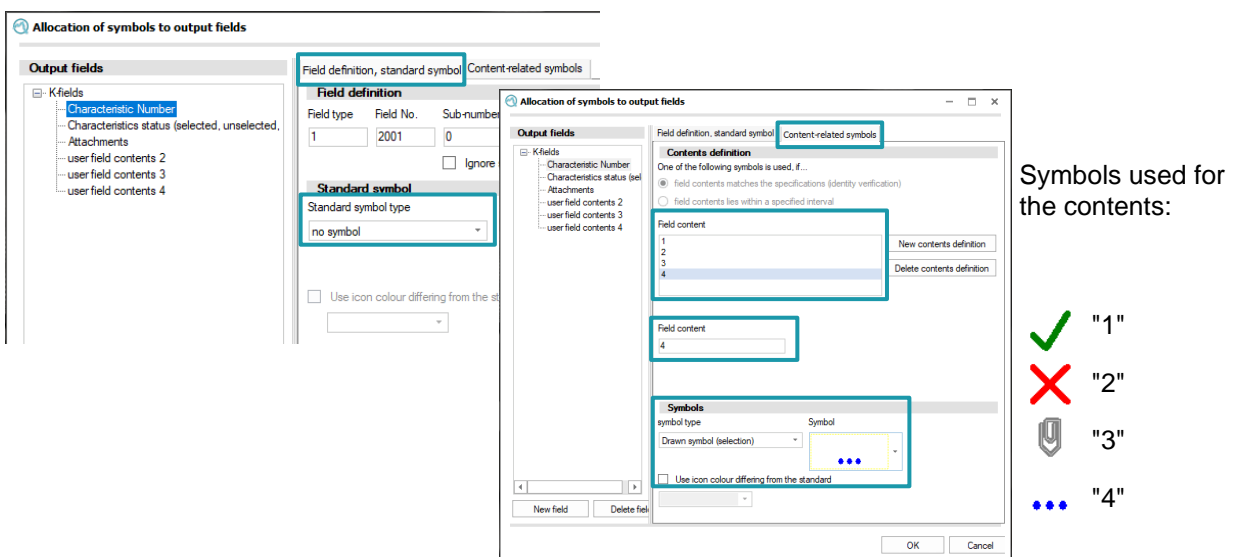
A symbol is to be displayed in the field characteristic number (K2001) according to the content. For the numeric content, one symbol is to be configured per number. If the content is not numeric, NO symbol is to be displayed.

### Requirement K2003 -fixed symbol allocation with a standard symbol

A different symbol is to be displayed for the field characteristic abbreviation (K2003) if the content corresponds to "b". If the content is different, the standard symbol is to be displayed.

### Solution

No standard symbol is allocated for the output field characteristic number (K2001). In the "Content-related symbols" tab, an entry with its own symbol is created for each of the numerical contents "1", "2", "3" and "4".

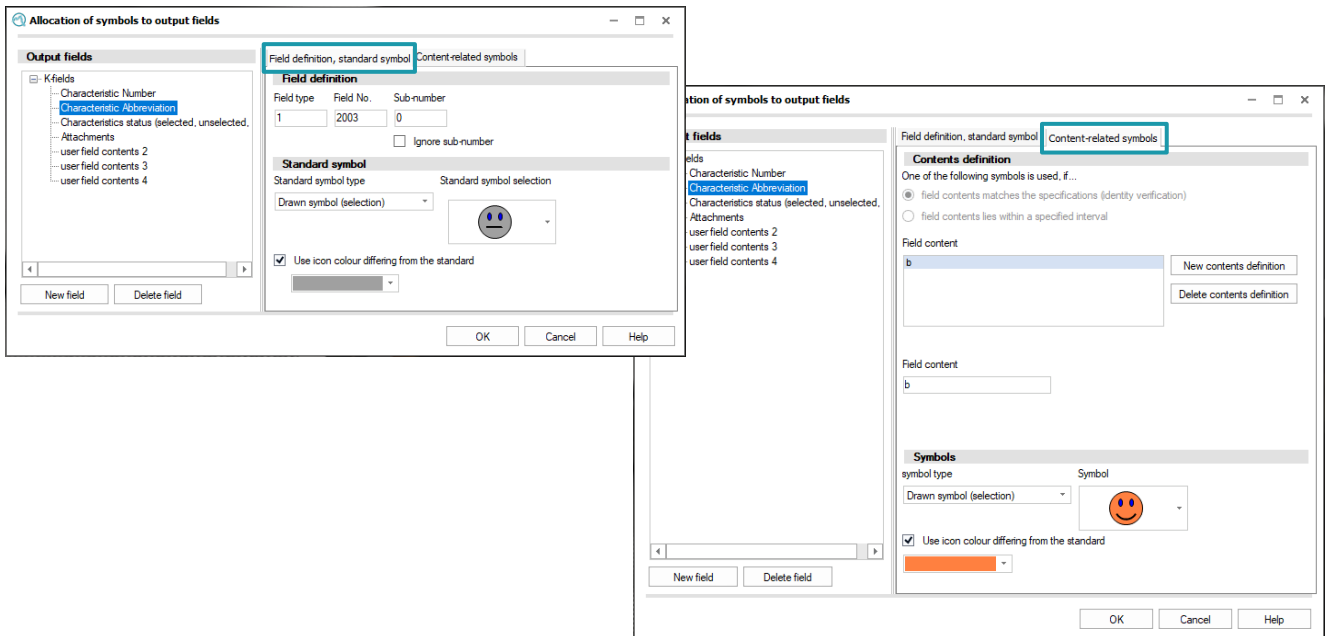


Symbols used for the contents:

- ✓ "1"
- ✗ "2"
- 📎 "3"
- "4"

A standard symbol is allocated for the output field characteristic abbreviation (K2003). This configuration first defines that the standard symbol is always used.

In addition, a symbol is allocated to the content "b" in the tab "Content-related symbols". This configuration defines a content-related exception rule.




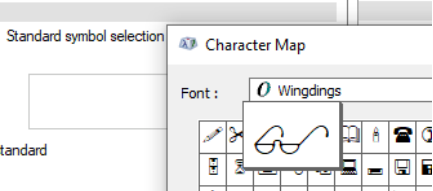

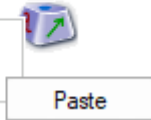






The result with standard symbol and without symbol.



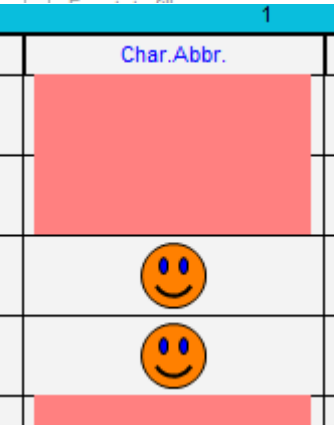
Characteristics Statistics - Design 8		
Part no.	1	
Char.No.	Char.Descr.	Char.Abbr.
✓	Model A1	☹️
✓	Model A2	☹️
✓	Model B	😊
✗	Model C1	😊
	Model C2	☹️
📎	Model C3	☹️
	Model C4	☹️
⋮	Model D	☹️

## 3 Symbol definition

Various types of symbols are provided for the configuration of fixed and content-related symbol allocation. The type of symbol can be selected via the drop-down menu.

<p><b>Standard symbol</b></p> <p>Standard symbol type</p> <p>no symbol</p>	<p>No symbol is drawn.</p>		
<p><b>Standard symbol</b></p> <p>Standard symbol type</p> <p>Drawn symbol (selection)</p>	<p>Selection of symbols.</p>  <p>With the additional option, the colour can be changed.</p> <p>Standard symbol type: Drawn symbol (selection)</p> <p>Standard symbol selection: </p> <p><input checked="" type="checkbox"/> Use icon color differing from the standard</p> <p></p>		
<p><b>Standard symbol</b></p> <p>Standard symbol type</p> <p>symbol from characteristics set</p>	<p>A symbol from the "Character Map" can be selected.</p>  <p>After selecting with "Copy", this is pasted with the "Paste" button.</p> <p>Standard symbol selection: </p> <p></p> <p>With the additional option, the colour can be changed.</p> <p><input checked="" type="checkbox"/> Use icon color differing from the standard</p> <p></p> <p>However, their effect only becomes visible during application.</p> <table border="1" data-bbox="699 1594 1008 1724"> <thead> <tr> <th>Char.Abb.</th> </tr> </thead> <tbody> <tr> <td></td> </tr> </tbody> </table>	Char.Abb.	
Char.Abb.			
			

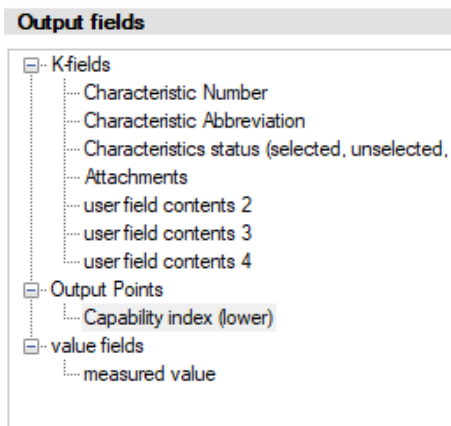


<p><b>Standard symbol</b></p> <p>Standard symbol type</p> <p>Symbol from program resource</p> <p>symbol resources only</p>	<p>Various symbols from the application or from the entire operating system can be selected:</p> <p><b>Standard symbol</b></p> <p>Standard symbol type      Standard symbol selection</p> <p>Symbol from program resource      </p> <p>all resources</p>
<p><b>Standard symbol</b></p> <p>Standard symbol type</p> <p>Symbole from image file</p>	<p>All symbols provided in the Q-DAS application are available for selection here.</p> <p>The path that is selected is defined in the paths, the path to the general image storage.</p>
<p><b>Standard symbol</b></p> <p>Standard symbol type</p> <p>Background in colour</p>	<p>With the option "Background in colour" the entire background is coloured. Any content is covered with the colour!</p> <p>Background color</p> <p></p> 

## 4 Management of the output fields

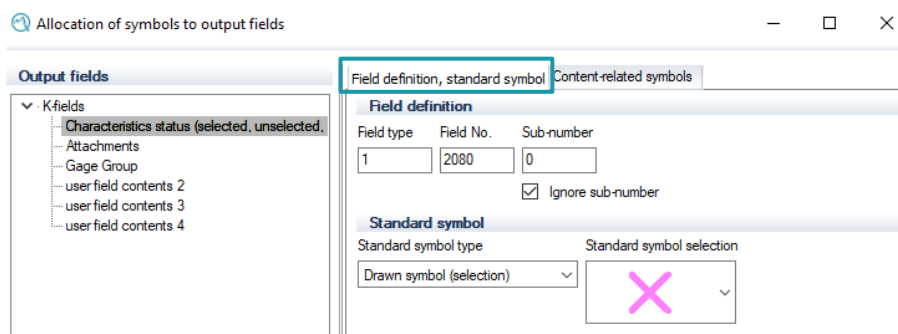
In the window area "Output fields", a new output field can be added using the button "New field" and then via the selection list. The "Delete field" button can be used to remove output fields that have already been created and configured. If settings are made on both tabs ("Field definition, standard symbol" and "Content-related symbols"), the content-related symbol applies first. If the content does not match any of the configurations defined here, the standard symbol is used.

After selecting various fields, they are subdivided in the view into K fields, output fields or value fields.



### 4.1 "Field definition, standard symbol" tab

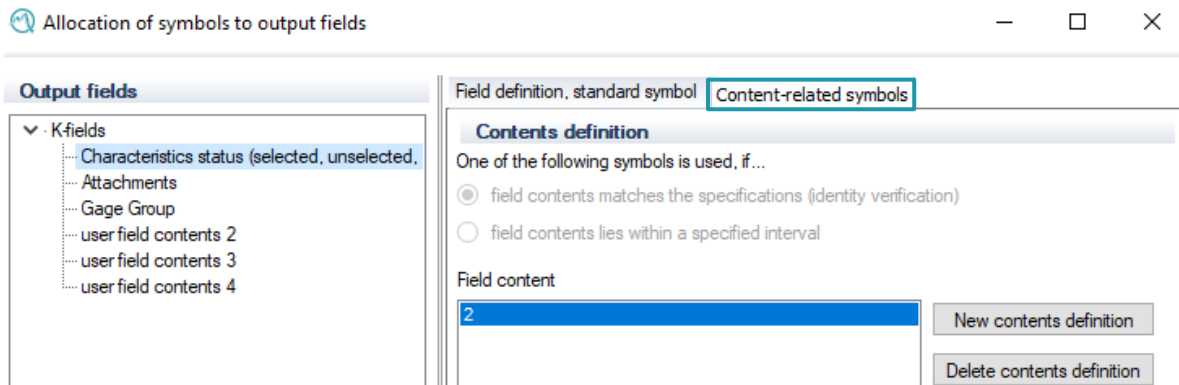
This tab is used to define the standard symbol for the previously selected output field. This can be displayed as a "configurable symbol" in various graphics, e.g., in the graphic "Characteristics Statistics".



The window area "Field definition" contains the details of the previously selected output field. By changing the "Field No.", the output field is redefined. Changing the "Field No." also affects the respective caption in the "Output Fields" area. By activating the option "Ignore sub-number", the symbol allocation is independent of the sub number. Only the field type and the field number then apply to the output field. Thus, a symbol can be allocated to several output points, i.e., to a complete output point range.

## 4.2 “Content-related symbols“ tab

This tab is used to define the content-related symbol for the previously selected output field.

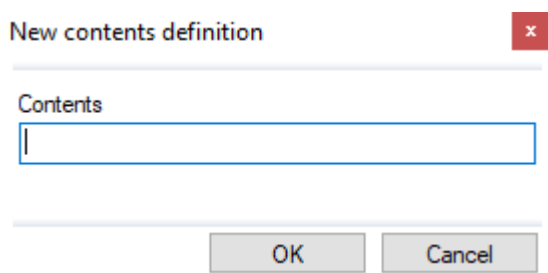


In the window area "Contents definition" a symbol can be allocated to an output point, depending on its contents. A combination of the assignment from the identity verification and interval check is not possible. In addition, it is important to note that after the first definition, only definitions of the same type can be added.

### 4.2.1 Identity verification

To check a content for a certain value, the option of the identity verification is to be activated. The entry in the respective output point is checked against the entry in the "Field content" area. If there is a match, the content-related symbol is displayed. If there is no match, the standard symbol is displayed.

The required content is specified via the "New content definition" button.



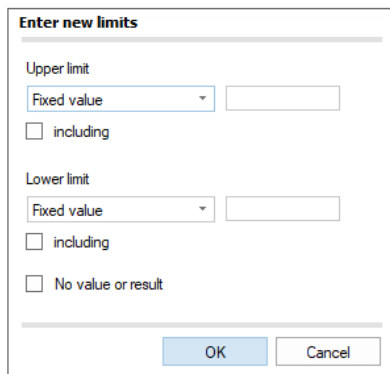
A specific symbol can be allocated to exactly this content. The content definition can be subsequently changed in the "Field content" area. Any other content definitions can be created.



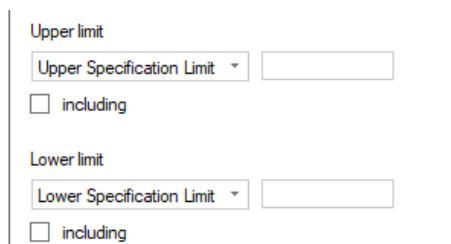
## 4.2.2 Interval verification

In order to check a content for a certain interval, the option Interval verification is to be activated. The entry in the respective output field is checked with the entry in the "Field content" area. If there is a match, the interval-related symbol is displayed. If there is no match, the standard symbol is displayed.

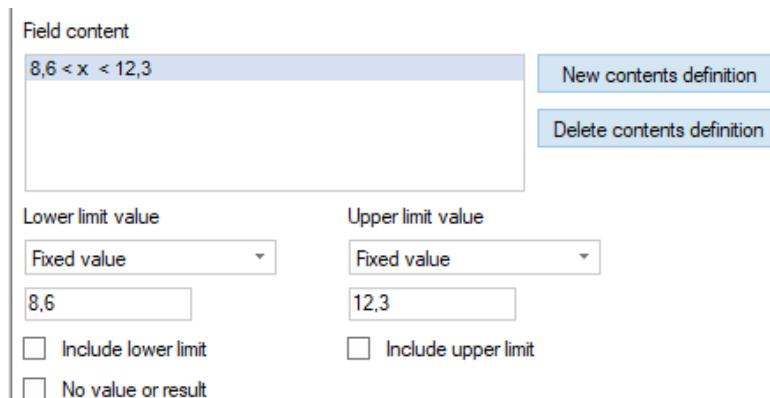
The limits for the interval (upper limit/lower limit) can be added via the "New contents definition" button.



In addition to the specification of fixed values, various types of limits, e.g., specification limits, can also be selected here.



For the interval definition, the content of the definition can also be changed subsequently.







A specific symbol can be assigned to exactly this content. Any other content definitions can be created.

## 5 Allocated symbols in the graphics

In addition to defining the symbol allocation, it is also necessary to configure the corresponding output fields for the symbol display in the graphics, e.g., the graphic "Characteristics Statistics".

After opening the graphic, the "Edit mode" must be activated via the "Graphic settings" tab in the ribbon bar. For existing columns for the desired output points, the configuration dialogue is called up via the "Change" option from the context menu of the column.

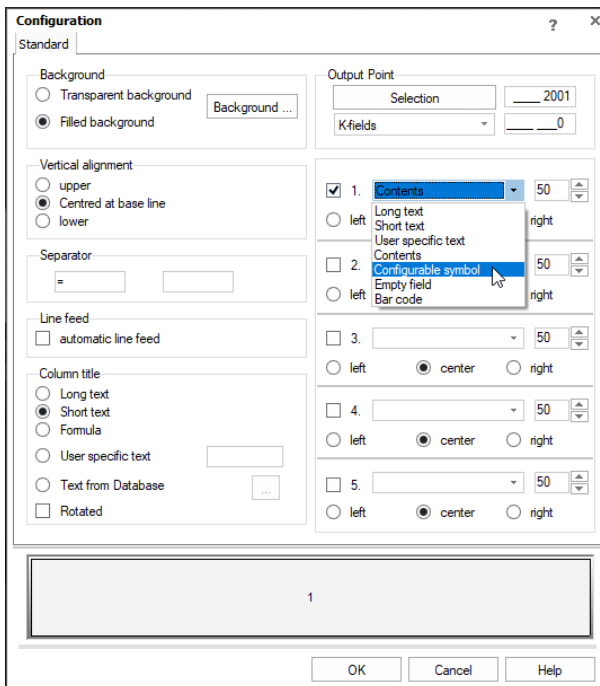
Part no.		
Char.No.	Char.Descr.	
1	Model A1	1
1		
1		

-  New column
-  Delete column
-  **Change**
-  Alternative output points ▶

In the "Configuration" dialogue, the content type is used to define which content is displayed in the graphic. With the entry "Configurable symbol" from the drop-down menu, the symbol is used according to the symbol allocation. The content type "Configurable symbol" is only available for output fields for which a symbol allocation has been stored.

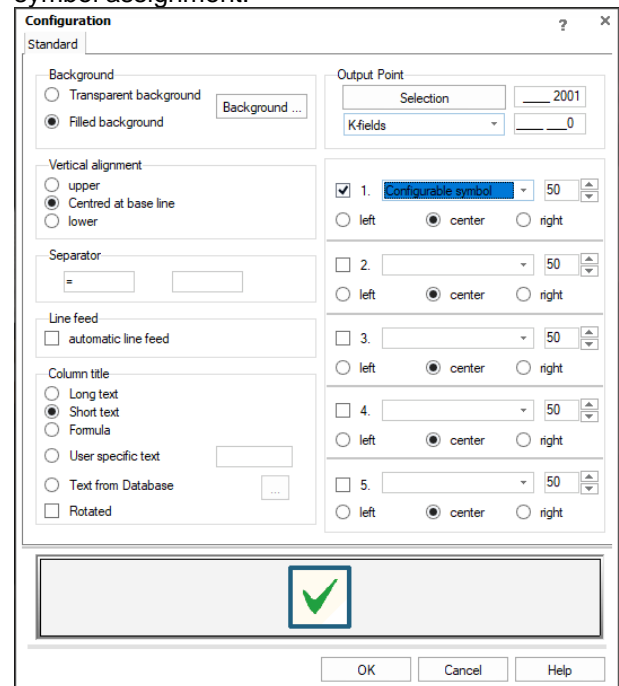
Changing the content type for the output field characteristic number (K2001)

Output field characteristic number (K2001) with the content type "Configurable symbol" according to the symbol assignment.



The Configuration dialog box shows the following settings:

- Background:** Filled background (selected)
- Vertical alignment:** Centred at base line (selected)
- Separator:** =
- Line feed:** automatic line feed (unchecked)
- Column title:** Short text (selected)
- Output Point:** Selection, K-fields: 0
- Content Type 1:** Contents (selected in dropdown menu)
- Content Type 2:** Configurable symbol (selected in dropdown menu)
- Content Type 3:** (empty)
- Content Type 4:** (empty)
- Content Type 5:** (empty)



The Configuration dialog box shows the following settings:

- Background:** Filled background (selected)
- Vertical alignment:** Centred at base line (selected)
- Separator:** =
- Line feed:** automatic line feed (unchecked)
- Column title:** Short text (selected)
- Output Point:** Selection, K-fields: 0
- Content Type 1:** Configurable symbol (selected in dropdown menu)
- Content Type 2:** (empty)
- Content Type 3:** (empty)
- Content Type 4:** (empty)
- Content Type 5:** (empty)