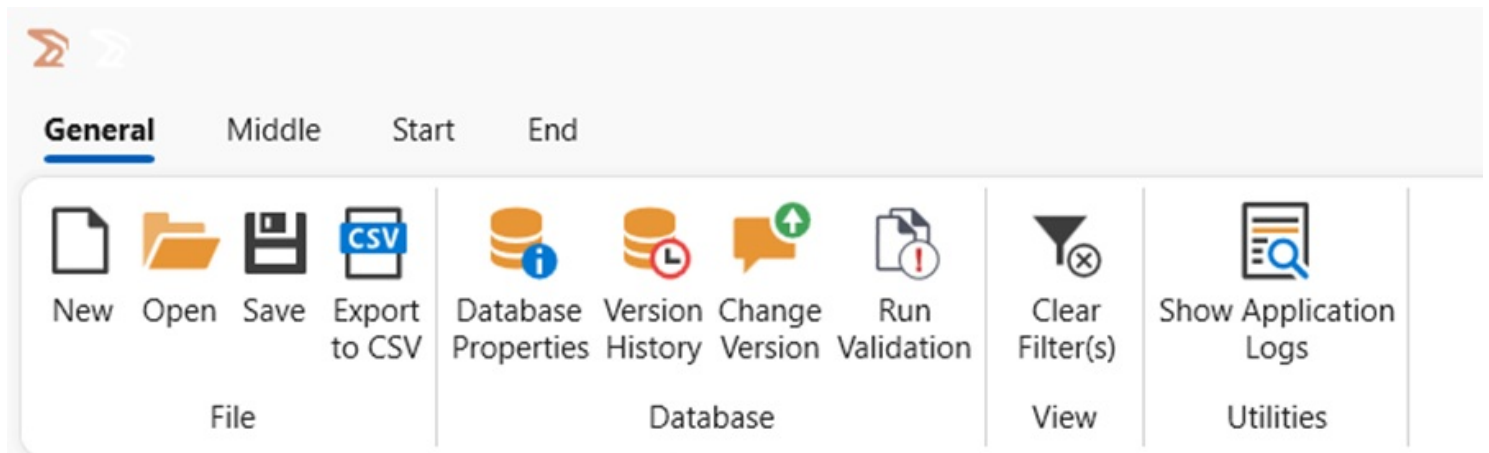


Validation

Three different validations are conducted in the welding database. The objective is to ensure the comprehensive integrity of all joint criteria.

1. Click on the button “Run validation” that is only in the general tab of the header of the welding db.



Validation
— □ ×

We found some recipe(s) with validation issues.

Invalid Records
Records with values out of range

Select/Deselect All

- MID_LA06-0-H152SC
- MID_LA06-0-V154SC
- MID_TE06-090-H130SB
- MID_TE06-090-V131SB
- MID_LA06-0-H132SB
- MID_LA06-0-V134SB
- MID_LA08-0-H252SC
- MID_LA08-0-V254SC
- MID_TE08-090-H230SB
- MID_LA08-0-H232SB
- MID_TE06-095-V161SC
- MID_TE06-100-V162SC
- MID_LR06-3-H133SB
- MID_LR06-3-H153SC

Duplicate Records
Records with identical and overlapping values

Select/Deselect All

- MID_LA06-0-H152SC and 5 other(s)
- MID_LA06-0-V154SC and 5 other(s)
- MID_LA06-0-H132SB and 5 other(s)
- MID_LA06-0-V134SB and 5 other(s)
- MID_TE06-090-H130SB and 4 other(s)
- MID_TE06-090-V131SB and 4 other(s)
- MID_LA08-0-H252SC and 4 other(s)
- MID_LA08-0-V254SC and 4 other(s)
- MID_LA08-0-H232SB and 4 other(s)
- MID_LA08-0-V234SB and 4 other(s)
- MID_TE08-090-H250SC 2 and 2 other(s)
- MID_TE08-090-H250SC and 2 other(s)
- MID_TE08-090-H230SB and 2 other(s)
- MID_TE08-090-V231SB and 2 other(s)

Identical Reference Ids
Reference Ids that are used by more than one record

Select/Deselect All

- MID_TE06-090-H150SC
- MID_TE08-090-H250SC 2

1.1 Invalid Records.

Invalid records are those containing at least one welding criteria that does not comply with the specified rules for them.

All records that have at least one  should be listed in the Invalid Records table.

1.2 Duplicate Records

- We categorize criteria into two types: single value-based and range-based.

- *Single value-based* criteria apply to the properties of Special Joint Type, Surface Finish, Part Interface Orientation, Aperture Angle, Floor Angle, Pass Number and Total Pass Number.
- The second type is *Range-based criteria*, which involve Weld Leg Size, Wall Height, Floor Width, Joint Edge Radius,

Wall Thickness, and Floor Thickness.

- Definition of DUPLICATE:

- Recipes are considered duplicates when:
 - All *single value-based* criteria are identical.
 - All *range-based* criteria overlap.

In the context of range-based criteria, overlap indicates the presence of a common region or at least one shared value between the two sets of values.

In the context of range-based criteria, overlap indicates the presence of a common region or at least one shared value between the two sets of values.

For example, if we have ranges [0,8] and [4,9], they overlap because 4 falls within the range of 0 and 8.

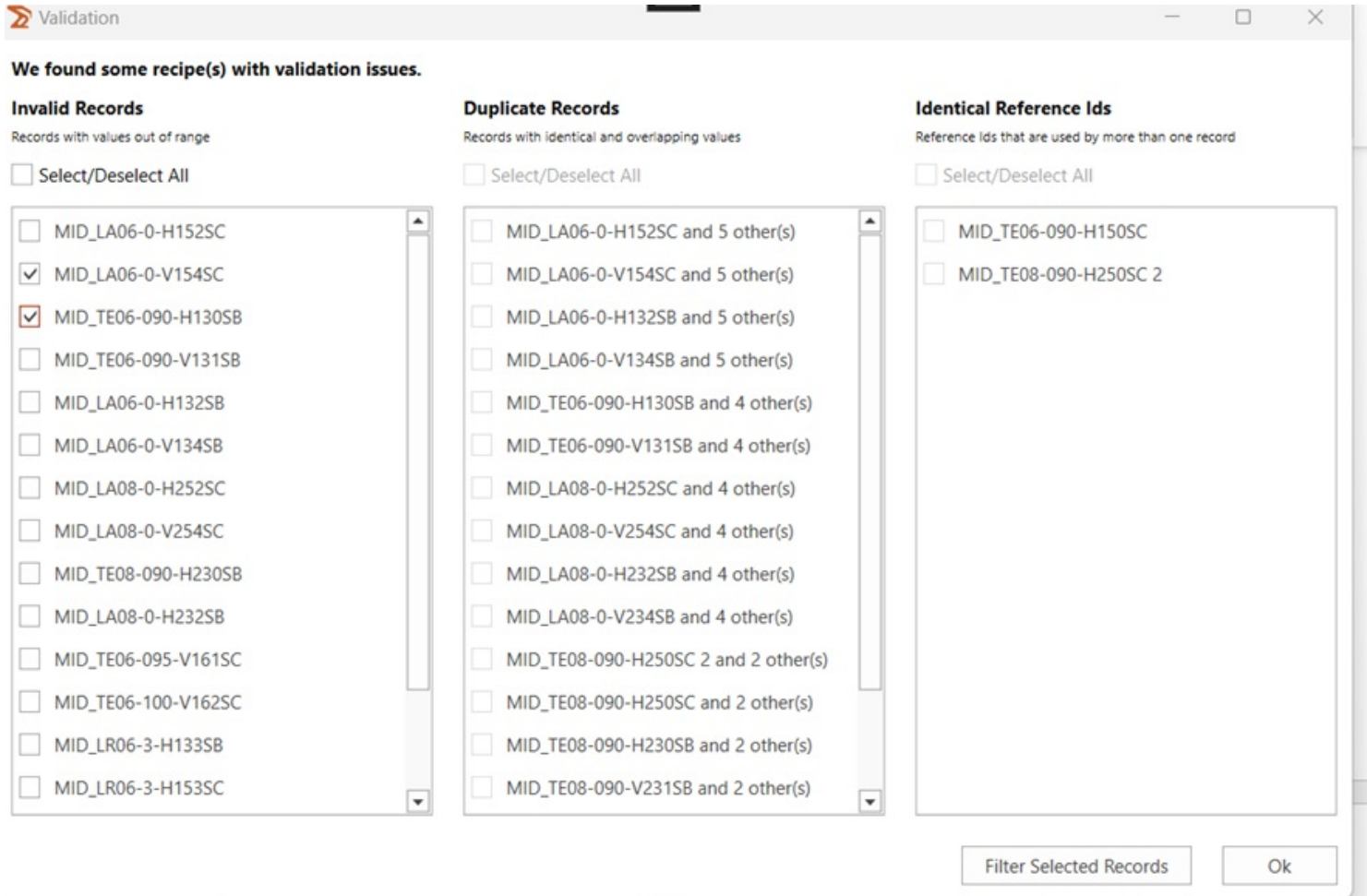
1.3 Identical References Ids

Identical reference IDs refer to at least two or more joint criteria sharing the same reference IDs.

2. Usage of the Validation window

The Validation window allows you to filter recipes based on their presence in each box.

However, there's a restriction: you can filter only one box at a time. To achieve this, simply check the checkboxes next to the Reference Ids corresponding to the desired box. Keep in mind that the list within each box contains MIDDLE, START, and END recipes all together.



2.1 Filter Selected Records Behavior

2.1.1 When you choose at least one Reference Id from one box, the other two sections become unclickable. Additionally, their "Select/Deselect All" buttons are disabled. This limitation ensures that you can only filter by one type of validation issue at a time.

2.1.2 After selecting your Reference Id(s), clicking on "Filter Selected Records" will present you with a list of filtered records in the welding database. These records correspond to the chosen Reference Id(s).

2.1.3 To view the filtered results, pay attention to whether they fall into the categories of MIDDLE, START, or END. Additionally, you can find the Reference Ids you've selected displayed at the bottom of the DB Viewer. In picture below, those are the two Invalid records that were checked in the Validation Window.

Information				Joint Characteristics					
Reference ID	Source	Active	Last Modified	Special Joint Type	Surface Finish	Weld Leg Size Min ≥	Weld Leg Size Max <	Wall Height Min ≥	Wall Height Max <
MID_TE06-090-H1305B	AGT	Active	1/31/2024 11:30:04 AM	Any	Sandblasted (Scale0)	0 mm	6.5 mm	8.5 mm	999 mm
MID_LA06-0-V1545C	AGT	Active	1/31/2024 11:30:04 AM	Any	Scaled (Scale100)	0 mm	6.5 mm	5.5 mm	8.5 mm

Count=2

Reference ID In MID_LA06-0-V1545C MID_TE06-090-H1305B

2.1.4 You can conveniently choose or unselect all elements listed in one of the validation boxes using the “Select/Deselect All” feature. This streamlines your selection process.

2.1.5 In the Duplicate Records section, each recipe with at least one duplicate is grouped by reference ID. When you encounter a label like “ReferenceID and X other(s),” it signifies that the specified reference ID has X number of duplicates associated with it. If you select these duplicates and click on “Filter,” you’ll be able to view the reference ID along with the X elements it is duplicated with.

Validation

We found some recipe(s) with validation issues.

Invalid Records
Records with values out of range

Select/Deselect All

- MID_LA06-0-H152SC
- MID_LA06-0-V154SC
- MID_TE06-090-H130SB
- MID_TE06-090-V131SB
- MID_LA06-0-H132SB
- MID_LA06-0-V134SB
- MID_LA08-0-H252SC
- MID_LA08-0-V254SC
- MID_TE08-090-H230SB
- MID_LA08-0-H232SB
- MID_TE06-095-V161SC
- MID_TE06-100-V162SC
- MID_LR06-3-H133SB
- MID_LR06-3-H153SC

Duplicate Records
Records with identical and overlapping values

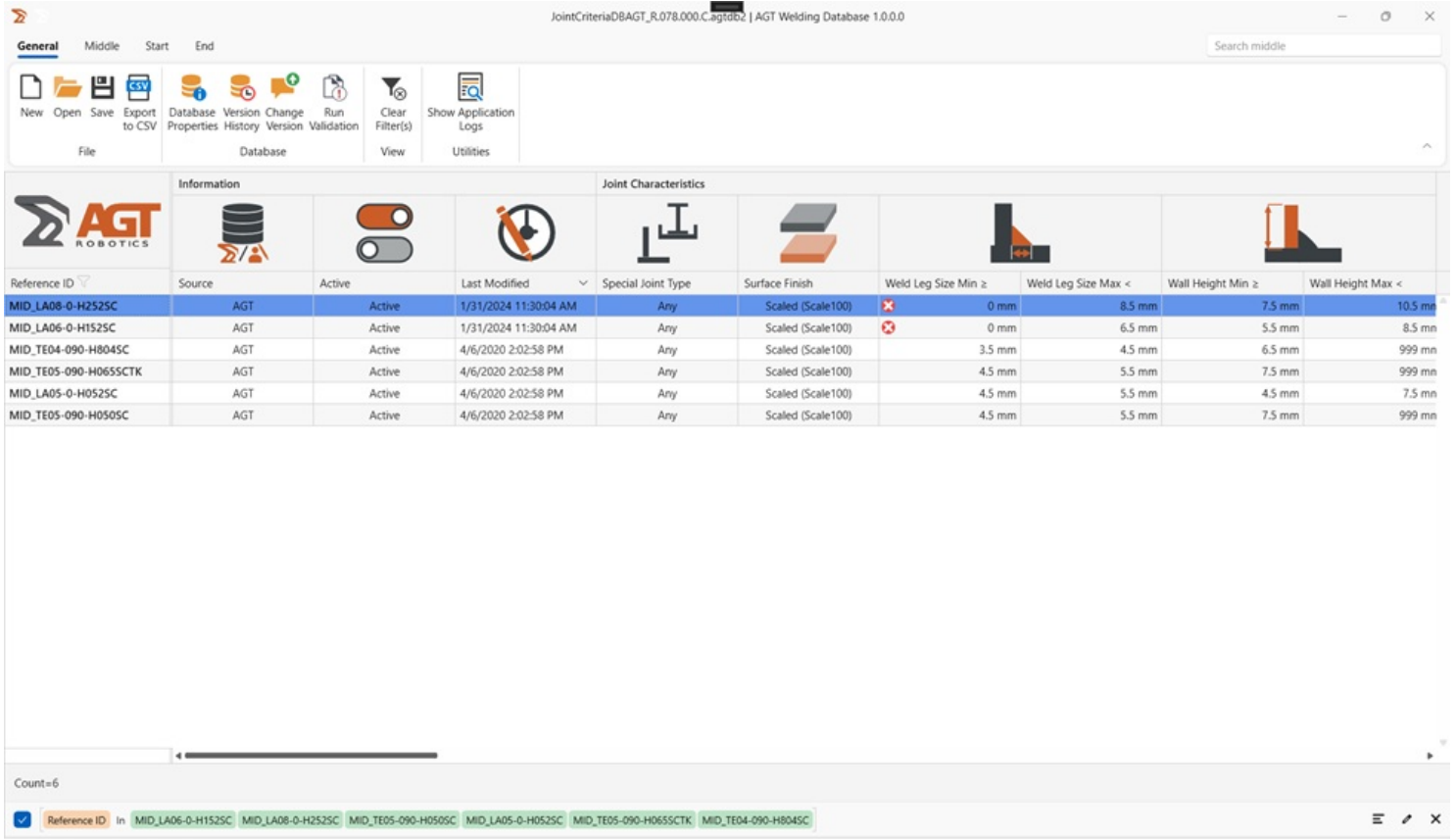
Select/Deselect All

- MID_LA06-0-H152SC and 5 other(s)
- MID_LA06-0-V154SC and 5 other(s)
- MID_LA06-0-H132SB and 5 other(s)
- MID_LA06-0-V134SB and 5 other(s)
- MID_TE06-090-H130SB and 4 other(s)
- MID_TE06-090-V131SB and 4 other(s)
- MID_LA08-0-H252SC and 4 other(s)
- MID_LA08-0-V254SC and 4 other(s)
- MID_LA08-0-H232SB and 4 other(s)
- MID_LA08-0-V234SB and 4 other(s)
- MID_TE08-090-H250SC 2 and 2 other(s)
- MID_TE08-090-H250SC and 2 other(s)
- MID_TE08-090-H230SB and 2 other(s)
- MID_TE08-090-V231SB and 2 other(s)

Identical Reference Ids
Reference Ids that are used by more than one record

Select/Deselect All

- MID_TE06-090-H150SC
- MID_TE08-090-H250SC 2



JointCriteriaDBAGT_R.078.000.C:\agt002 | AGT Welding Database 1.0.0.0

General Middle Start End

Search middle

New Open Save Export to CSV Database Version Change Run Clear Show
 Properties History Version Validation Filter(s) Application
 File Database View Utilities

Information Joint Characteristics

Reference ID	Source	Active	Last Modified	Special Joint Type	Surface Finish	Weld Leg Size Min ≥	Weld Leg Size Max <	Wall Height Min ≥	Wall Height Max <
MID_LA08-0-H2525C	AGT	Active	1/31/2024 11:30:04 AM	Any	Scaled (Scale100)	0 mm	8.5 mm	7.5 mm	10.5 mm
MID_LA06-0-H1525C	AGT	Active	1/31/2024 11:30:04 AM	Any	Scaled (Scale100)	0 mm	6.5 mm	5.5 mm	8.5 mm
MID_TE04-090-H8045C	AGT	Active	4/6/2020 2:02:58 PM	Any	Scaled (Scale100)	3.5 mm	4.5 mm	6.5 mm	999 mm
MID_TE05-090-H0655CTK	AGT	Active	4/6/2020 2:02:58 PM	Any	Scaled (Scale100)	4.5 mm	5.5 mm	7.5 mm	999 mm
MID_LA05-0-H0525C	AGT	Active	4/6/2020 2:02:58 PM	Any	Scaled (Scale100)	4.5 mm	5.5 mm	4.5 mm	7.5 mm
MID_TE05-090-H0505C	AGT	Active	4/6/2020 2:02:58 PM	Any	Scaled (Scale100)	4.5 mm	5.5 mm	7.5 mm	999 mm

Count=6

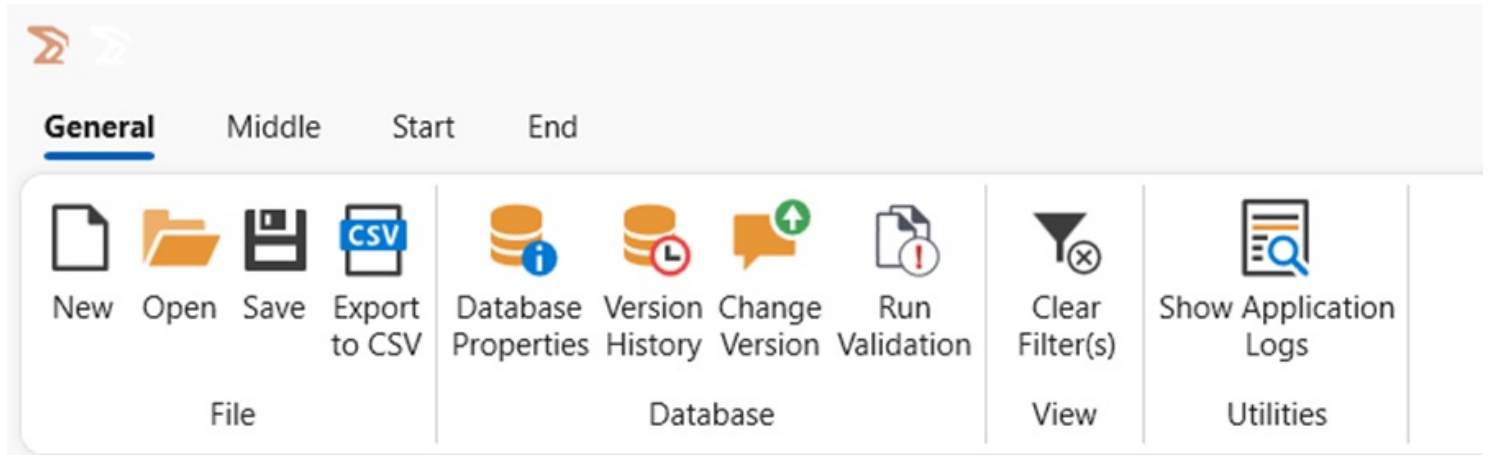
Reference ID In MID_LA06-0-H1525C MID_LA08-0-H2525C MID_TE05-090-H0505C MID_LA05-0-H0525C MID_TE05-090-H0655CTK MID_TE04-090-H8045C

2.2 OK Button Behavior:

- When you click the **“OK”** button in the validation window, it **immediately takes you back to the welding database** without applying any joint criteria filtering. This occurs even if you’ve selected specific validations.
- To view filtered results, you’ll need to click on the **“Filter Selected Records”** option.

2.3 Clear Filter Button:

- The **“Clear Filter”** button allows you to **remove all filters** and return to the initial state.
- It’s accessible from any tab within the application.
- This button works for all types of filters activated in the application.



3. Usage of the Save Window

The “Save” button serves a dual purpose: it not only displays all three types of validation errors currently in the database but also allows you to save any changes made, even if there are duplicates or errors present. You can always revisit the “Run Validation” button to review and address any issues before finalizing the save.

JointCriteriaDBAGT_R.078.000.C.agtdb2 | AGT Welding Database 1.0.0.

General Middle Start End

New Save

We found some recipe(s) with validation issues.

Invalid Records
Records with values out of range

- MID_LA06-0-H152SC
- MID_LA06-0-V154SC
- MID_TE06-090-H130SB
- MID_TE06-090-V131SB
- MID_LA06-0-H132SB
- MID_LA06-0-V134SB
- MID_LA08-0-H252SC
- MID_LA08-0-V254SC
- MID_TE08-090-H230SB
- MID_LA08-0-H232SB
- MID_TE06-095-V161SC
- MID_TE06-100-V162SC
- MID_LR06-3-H133SB
- MID_LR06-3-H153SC
- MID_TE08-090-V231SB
- MID_LR08-4-H233SB
- MID_LA08-0-V234SB

Duplicate Records
Records with identical and overlapping values

- MID_LA06-0-H152SC and 5 other(s)
- MID_LA06-0-V154SC and 5 other(s)
- MID_LA06-0-H132SB and 5 other(s)
- MID_LA06-0-V134SB and 5 other(s)
- MID_TE06-090-H130SB and 4 other(s)
- MID_TE06-090-V131SB and 4 other(s)
- MID_LA08-0-H252SC and 4 other(s)
- MID_LA08-0-V254SC and 4 other(s)
- MID_LA08-0-H232SB and 4 other(s)
- MID_LA08-0-V234SB and 4 other(s)
- MID_TE08-090-H250SC 2 and 2 other(s)
- MID_TE08-090-H250SC and 2 other(s)
- MID_TE08-090-H230SB and 2 other(s)
- MID_TE08-090-V231SB and 2 other(s)
- MID_TE06-095-V161SC and 1 other(s)
- MID_TE06-100-V162SC and 1 other(s)
- MID_LR08-4-H233SB and 1 other(s)

Identical Reference Ids
Reference Ids that are used by more than one record

- MID_TE06-090-H150SC
- MID_TE08-090-H250SC 2

Save Cancel