

# **Midas Weak Link Software**

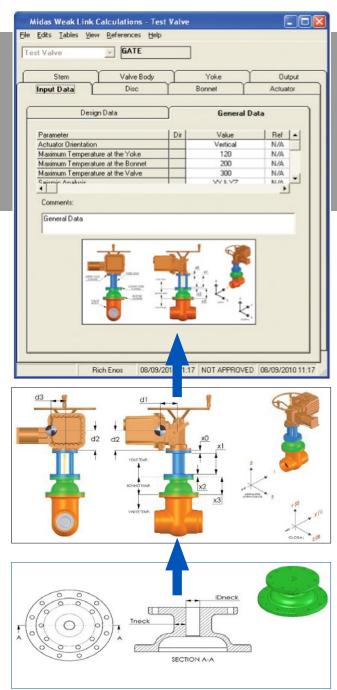
### **Software Description**

Teledyne's MIDAS-WL (Weak Link) analysis software is designed to perform a structural evaluation of motor operated valves (MOV's) MIDAS-WL ensures that the methods used by personnel to perform and document structural evaluations are consistent with current utility procedures and acceptance criteria. Another major benefit to MIDAS WL is that the effects of potential design modifications can be readily and systemically evaluated by simply changing the affected component dimensions.

The User's Manual documents the required analysis inputs for individual component including for example:

- Stems
- Stem/Disc connections
- Discs
- Yoke Legs
- Flanges
- Actuator & Bonnet Bolts
- Bonnet & Valve Necks
- Bonnet/Valve Flange

Two seismic combination methods are available, 2D-ABS(XY&YZ) and 3D-SRSS(XYZ).

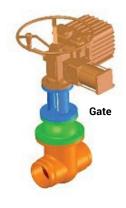


Valve Bonnet Neck Evaluation

MIDAS-WL is Appendix B – QA software that is controlled bythe utility. The software is customized to use site-specific design acceptance criteria and material properties. Integral security features restrict access/change privileges so inputs can only be checked and verified by different users with the proper sign-off authority.

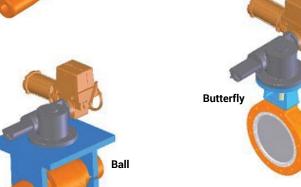
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#### Partial list of valve types includes:









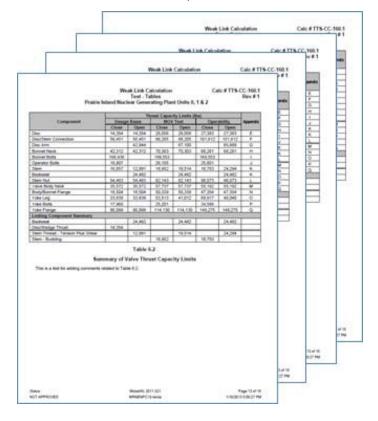


## **Design Database**

The heart of the MIDAS-WL software is a site-specific valve configuration design database. This database consists of one complete set of Work-In-Progress (WIP) tables that contains the Work-In-Progress (not approved) and As-Built (approved) valve configurations. The MIDASWL user always works on data in the WIP table. When a record is signed-off as approved then the record becomes the As-Built record. The MIDASWLQA database contains the controlled lookup design data, such as all dropdown options, material properties, acceptance criteria for pressure retaining and non-pressure retaining components.

# **Weak Link Report**

Full weak link analysis reports are available to view on screen or to send to the local printer.





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