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## **PSVPlus 7.0 RELEASE NOTES**

The following notes apply to Release 7.0 of PSVPlus™, and earlier versions.

### Backward Compatibility with earlier releases:

The [calculation files](#) with extensions [.vap](#), [.liq](#), [.stm](#), [.mxa](#), [.mxc](#), [.mxd](#), prepared with previous versions of PSVPlus™ can be immediately opened and used with this new release.

The [MS Access databases](#) (extension .mdb) created with versions from 5.1 and newer will be converted upon opening. The databases created with PSV Plus 4.2 or earlier also will be converted. However some information may be lost due to software architecture changes. You may contact us at [support@psvplus.com](mailto:support@psvplus.com) to recover version 4.2 or earlier databases.

### Main New features of Release 7.0

- ü Improved Graphical interface;
- ü Added API 2000 for storage tanks normal and emergency venting;
- ü Added Noise and reaction forces calculation;
- ü Updated 2-phase calculations to be in compliance with API 520 8th Ed.
- ü Added utilities for database better management such as DB duplication, merge and compact and repair functions;
- ü Added in the General Settings the option to customize PSV's orifices, in accordance with actual Manufacturers data;
- ü Added Design Temperature and Valve material fields for better PSV type and flanges identification in full accordance with API 526.
- ü Added the Overall Relief Load Summary report in the DB environment to summarize cumulative and maximum single discharges from each unit of the plant;
- ü Interface to Aspen HYSYS to allow automatic import of physical properties;
- ü Interface to Aspen Flarenet to allow automatic import / export of PSV's data and calculation results;
- ü Added valve browser form to show all valves included in a database and open their calculations directly;
- ü Improved Database Environment User Interface;
- ü Added % orifice used field to give more visibility to available design margin;
- ü Added Vessel / Safety valve Design Code field;
- ü Added Instrumentation datasheet form and report for PSV full mechanical specification.