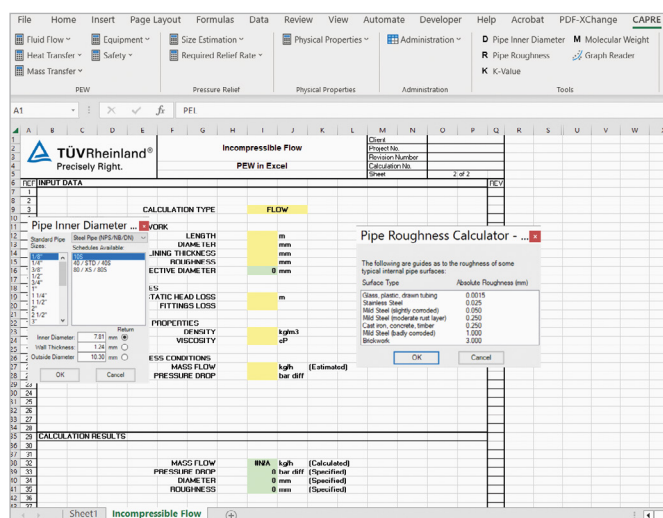# PEL CAPRE

## Improve the way that process engineers use Excel for calculations



**PEL CAPRE adds the reassurance of validated calculation methods to the functionality and flexibility of a spreadsheet.**



Calculations are an essential part of a process engineer's job. Undetected errors in calculations can result in poor design. Errors picked up late in design result in delays or costly modifications if equipment is installed. Spreadsheets are straight forward to use but this simplicity is also a weakness as they are hard to check and it is easy to make mistakes. Once created, spreadsheets are hard to maintain and tend to evolve over time as engineers modify them. Once this happens the validity of the original calculation is compromised. PEL CAPRE provides fully documented and validated pro formas and functions with extensive unit conversion capability.

### WHAT WE OFFER

PEL CAPRE is an Excel add-in that gives engineers an easy-to-use and flexible collection of calculations which are widely used, correctly implemented, and fully documented. In addition to calculation templates and tools which allow new users to start generating useful results immediately,

PEL CAPRE provides an innovative set of process engineering functions which can be part of any Excel spreadsheet and which remove the risk of errors in the handling of units of measurement. This increases the productivity of process engineers and improves the quality of engineering calculations.

### KEY FEATURES

- Over 30 easy to use pro forma spreadsheets addressing common engineering problems, such as fluid flow, equipment sizing and pressure-relief
- Excel functions for many process engineering equations to use in your own spreadsheets
- Built-in units conversion
- Thorough help documentation describes the use of functions and the basis of calculations
- 'Insert function' tool to help add individual PEL CAPRE functions to your own spreadsheets and produce your own datasheets
- Search for specific functions and make 'favourite' the most commonly used for easy access
- Change and create sets of units to be saved and used as default

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Precisely Right.
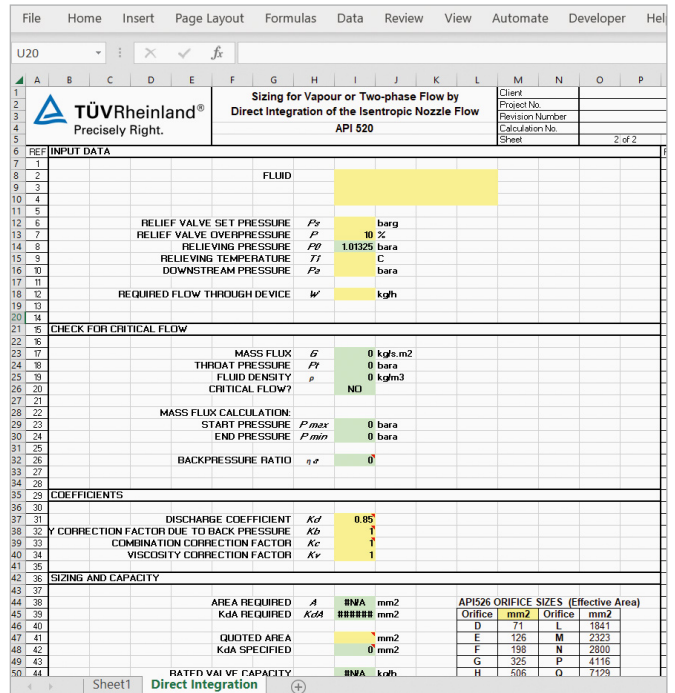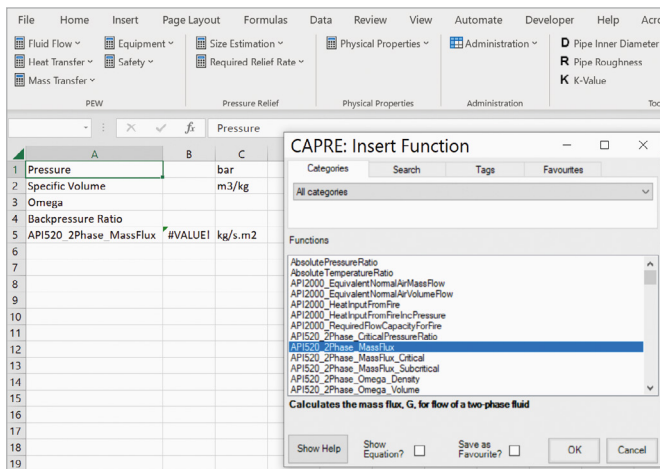
- Includes standard PEL Tools, such as pipe inner diameter, pipe roughness, K-Value and molecular weight, to insert values directly into spreadsheets
- Provides a simple system for inserting commonly used engineering equations into Excel to allow engineers to generate their own spreadsheets and datasheets quickly and efficiently

## BENEFITS

- Users can have complete confidence in the results
- Reduces risk of human errors in calculations – essential when working with safety critical equipment
- Allows engineers to be more efficient and productive
- Provides a documented record of calculations for audit
- Improves QA and standardises procedures by everyone using the same set of data and calculations
- PEL CAPRE can be licensed as an add-on to PEL or as a completely separate programme
- Reduces checking time as all calculations are in a standard format

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## WHY TÜV RHEINLAND?

We are leading pressure relief experts, having developed and licenced widely adopted methodology for pressure relief design management. We run IChemE accredited pressure relief courses and have trained hundreds of engineers in pressure relief design.

PEL software has been helping process engineers for over thirty years. It has a proven track record providing relevant and reliable engineering tools. The software is extremely easy to use and you can be up and running within minutes. We are constantly developing our software to improve functionality and usability.

Our range of training documentation includes a 60 second guide, reference guide and full user manual to ensure that you get the most out of the software. PEL CAPRE also has context sensitive online help. We pride ourselves on the quality of the support service we offer. The licence agreement provides unlimited hotline support via email and phone.

We can also provide training sessions at our offices or on-site.


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