



Introduction.

1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

These **Training Lectures for VALVESTAR® 7** must be used by all teachers of VALVESTAR 7 to ensure the most efficient training and the highest quality of training.

VALVESTAR® 7, the sizing tool of LESER, is more than only a calculation tool:

- VALVESTAR® is a calculation tool for Safety Valves according all world wide known and used rules and standards
- VALVESTAR® is a sizing tool for LESER Safety Valves with an option configuration tool
- VALVESTAR® is a product register of LESER Safety Valves with all the product specific data in "VALVE INFO"
- VALVESTAR® is a medium database with several specific liquid- and gaseous medium data



Introduction.

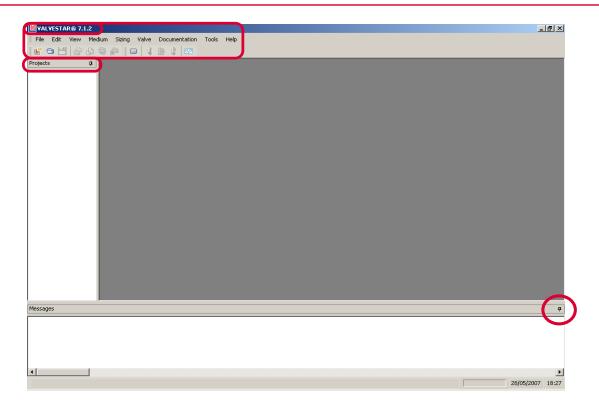
1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

- VALVESTAR® is a visual database with all drawings of LESER Safety Valves and spotlights of possible options
- VALVESTAR® is a documentation tool with three different types of documents and many different available formats.
- VALVESTAR® is easy to handle with the Wizard which leads you through the sizing



Introduction. Pop-up view of VALVESTAR 7.1.2 and higher.

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Service condition: Air, Set pressure = 10bar g, required massflow = 11500kg/h

Valve construction: Type 441, semi nozzle, Carbon Steel body (1.0619/WCB),

closed bonnet, lifting device cap H4

1. Step: How to start



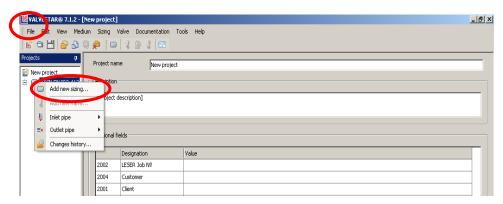
or: see next page



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1. Step: How to start

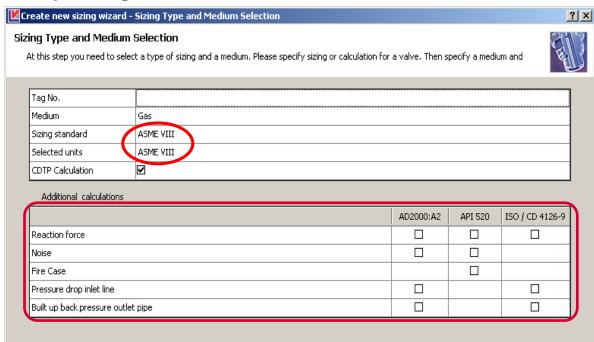






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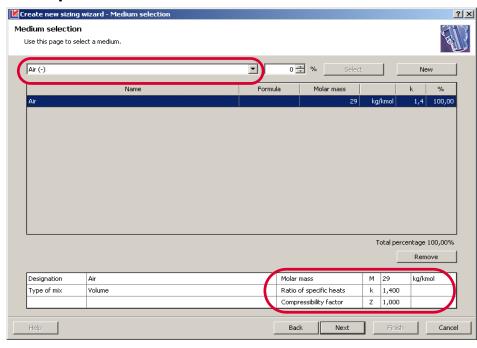
2. Step: Sizing standard and additional calculation





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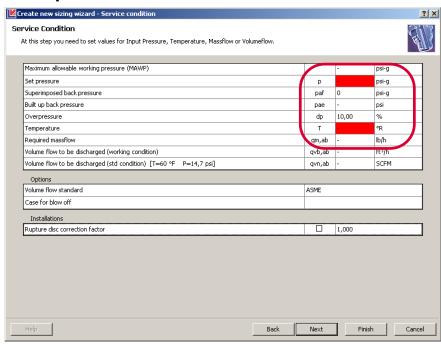
3. Step: Medium database and medium selection





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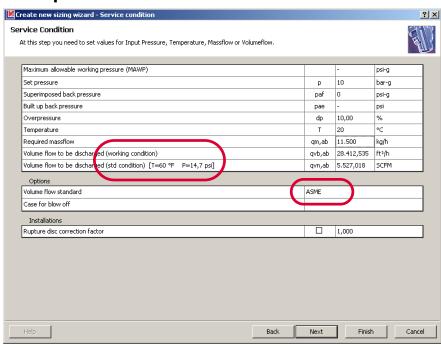
4. Step: Service condition





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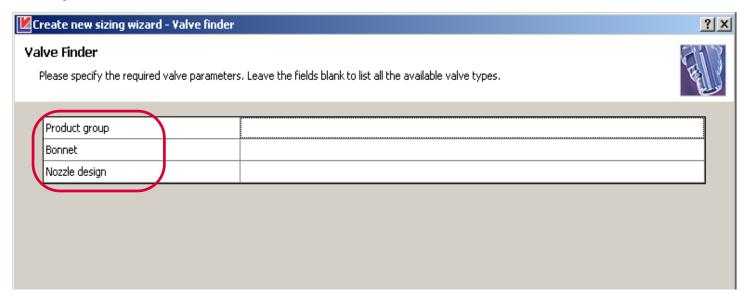
5. Step: Service condition





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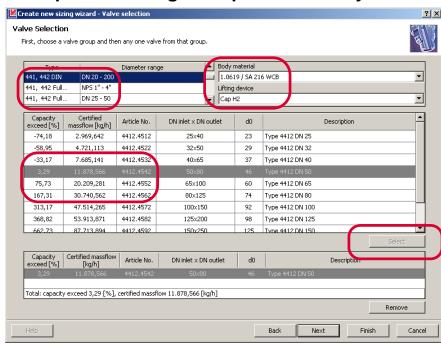
6. Step: Valve Finder





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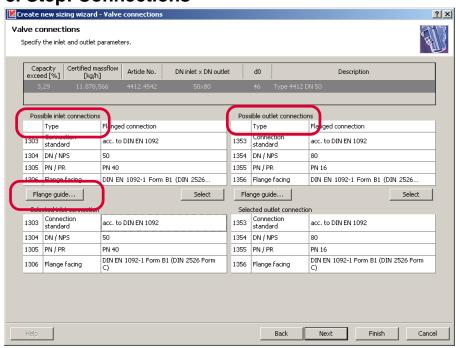
7. Step: Processing of all possible safety valves





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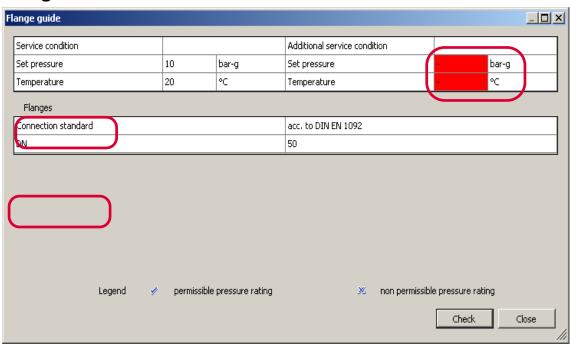
8. Step: Connections





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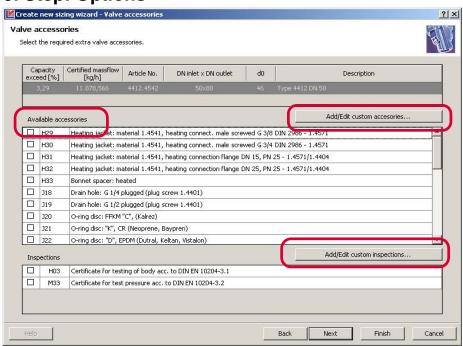
Flange Guide





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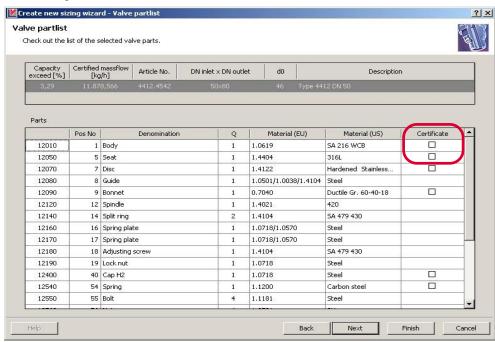
9. Step: Options





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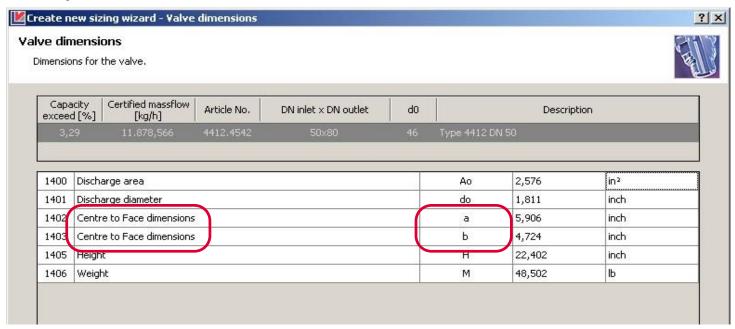
10. Step: Materialist





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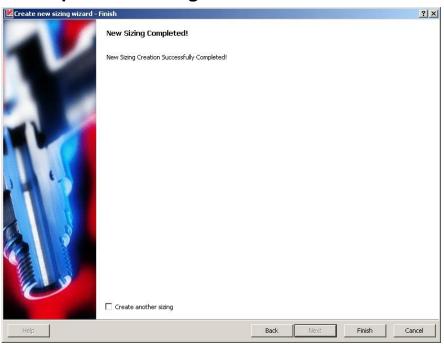
11. Step: Valve Dimensions





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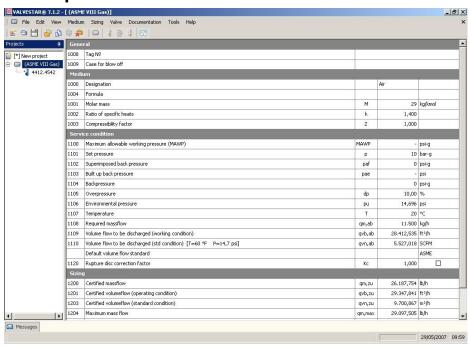
12. Step: Finish Sizing





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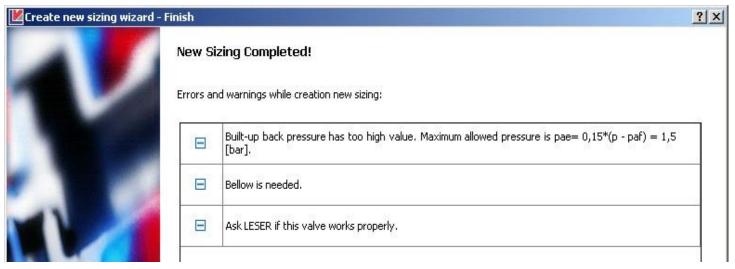
13. Step: Valve Calculation





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14 Step: ERRORs and Warnings



Errors and warnings are shown at the end of a sizing or: during sizing, indicated by the **flashing yellow label**. Click on the symbol for a listing of the errors and warnings.





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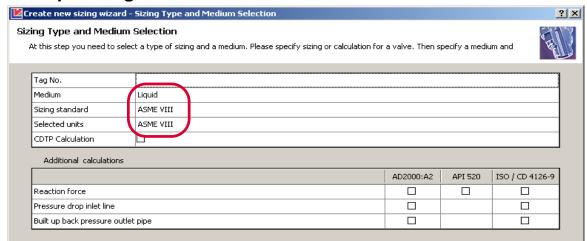
Service condition: Heavy Oil, Set pressure = 500 bar g, Temperature 20°C,

required massflow = 100000kg/h, viscosity = 0,038 Pa s.

Valve construction: Type 526, Fullnozzle, Carbon Steel body (1.0619/WCB), closed bonnet, lifting

divice cap H2, stainless steel bellows design.

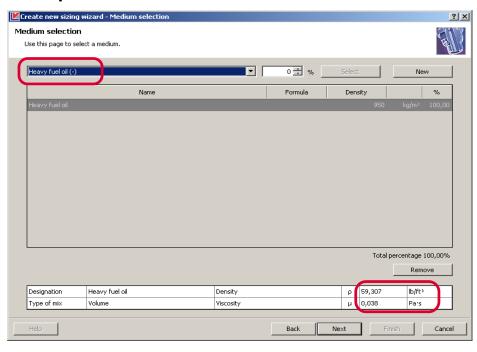
1. Step: Sizing Standard and additional calculation





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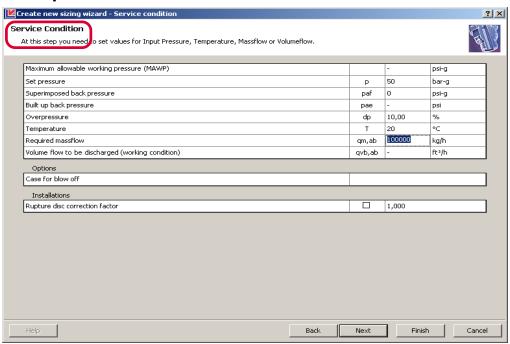
2. Step: Medium database and medium selection





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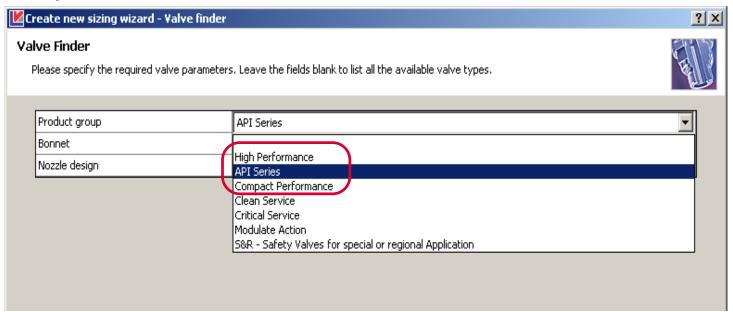
3. Step: Service condition





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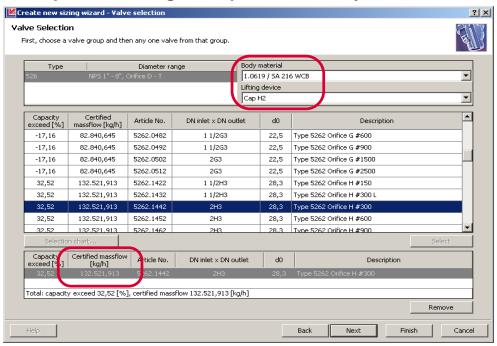
4. Step: Valve Finder





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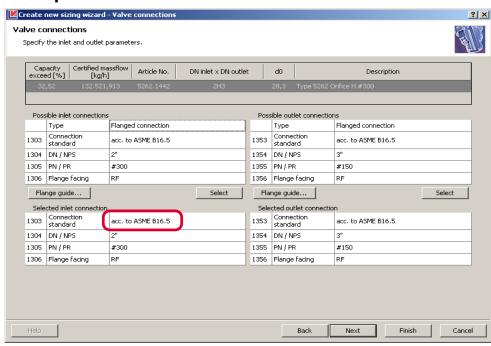
5. Step: Processing of all possible safety valves





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6. Step: Connection





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7. Step: Sizing finished

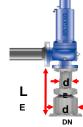




Sizing of the inlet line. Attention: Inlet line with different cross sections

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- According to AD 2000 A2 and ISO 4126-9 the provided formulas for the inlet pressure drop calculation consider only one cross section within the inlet line
- The inlet pressure drop calculation within VALVESTAR is based on the formulas described in the according standards
- In reality, the isometry of the inlet line shows sometimes different cross section
- VALVESTAR uses the inner diameter d_E which is related to the maximum developed pipe length L_E for the calculation of the inlet pressure drop
- If there are differing diameters (d_{DN}) to d_E within the inlet line the resulting zeta values of those sections and components have to be transferred by the following formula:





Sizing of the inlet line. Attention: Inlet line with different cross sections

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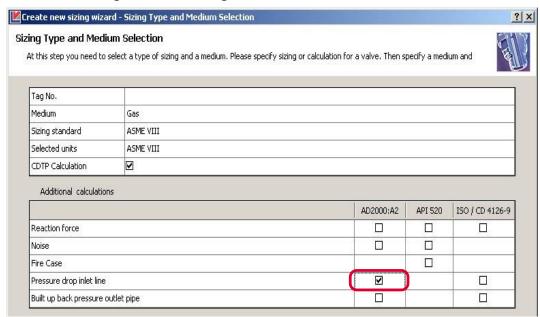
- The transferred zeta values can be inserted as shown in the next slides.
- Without the transformation of zeta values, VALVESTAR can not be used correctly for cases with different cross sections



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1. Step: Additional calculation

When starting a new sizing:

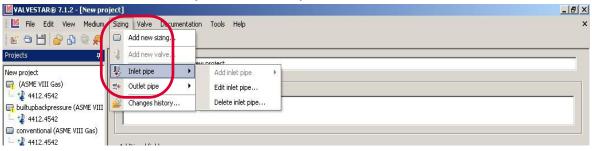


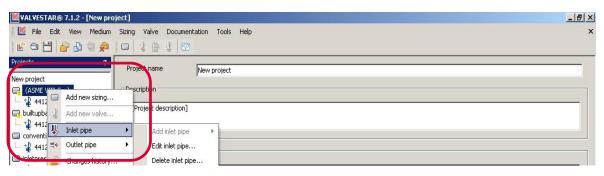


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1. Step: Additional calculation

You can also start inlet pressure drop calculation in menu

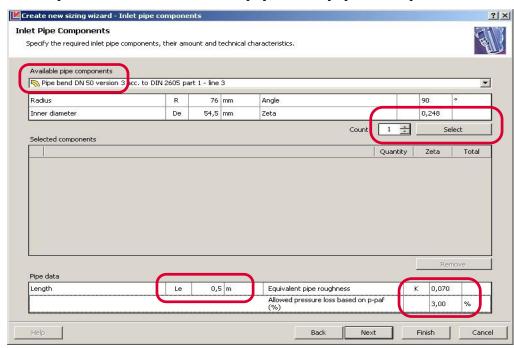






1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

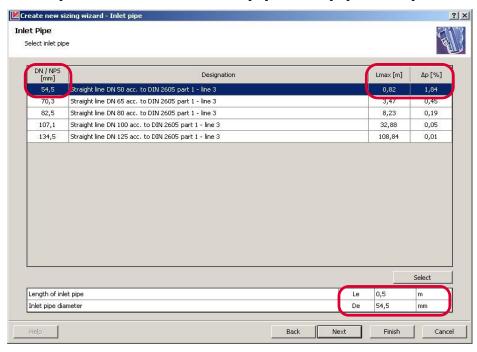
2. Step: Dimension of inlet pipe and pipe components





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3. Step: Dimension of inlet pipe and pipe components



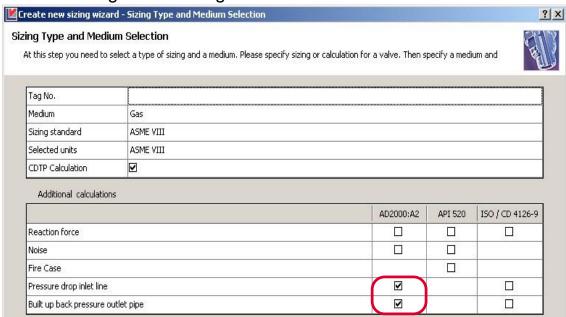


Sizing of built-up backpressure.

1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

1. Step: Dimension of inlet pipe and pipe components

When starting a new sizing:



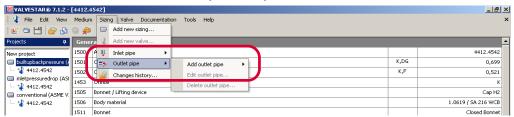


Sizing of built-up backpressure.

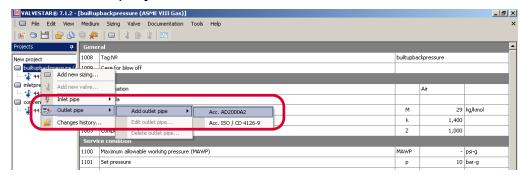
1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

1. Step: Dimension of outlet pipe and pipe components

You can also start built-up backpressure calculation in menu



... or start in project three

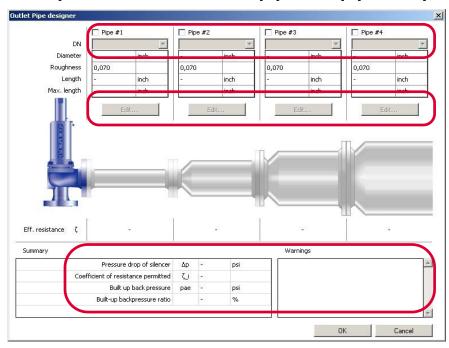




Sizing of built-up backpressure.

1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

2. Step: Dimension of outlet pipe and pipe components

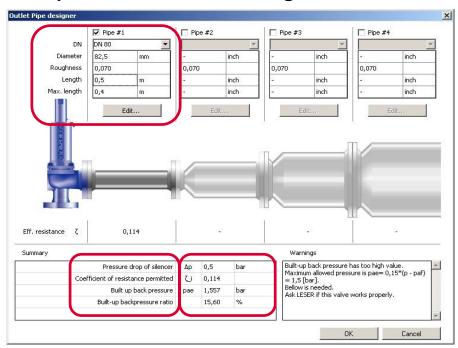




Sizing of built-up backpressure.

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3. Step: Calculation and warning



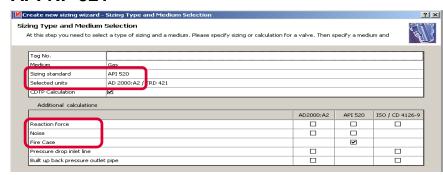


1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

3. Step: Calculation and warning

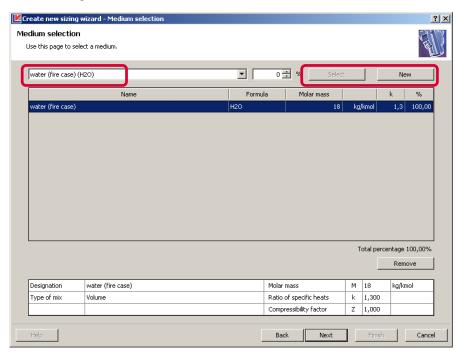
Service condition: water, temperature = 20°C, Set pressure = 10bar g, effect of fire on the wetted surface of vessel, wetted surface = 10m², no drainage, bare vessel, heat of evaporation 1998,5 kJ/kg

Valve construction: Type 526, full nozzle, Carbon Steel body (1.0619/WCB), closed bonnet, lifting device cap H2



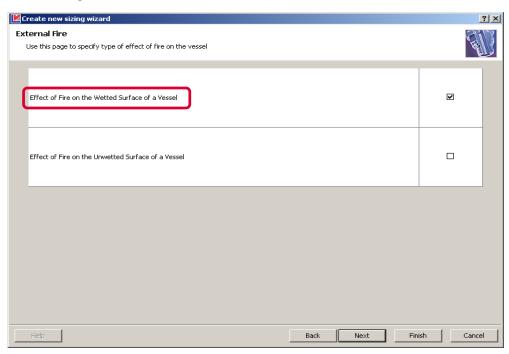


1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares



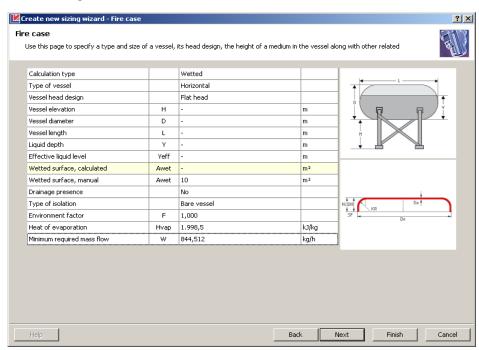


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Service condition: hot water, temperature = 150°C, Set pressure = 10bar g, required massflow

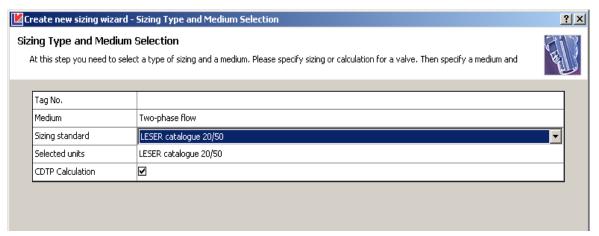
= 10000 kg/h

Valve construction: Type 441, semi nozzle, Carbon Steel body (1.0619/WCB), closed bonnet,

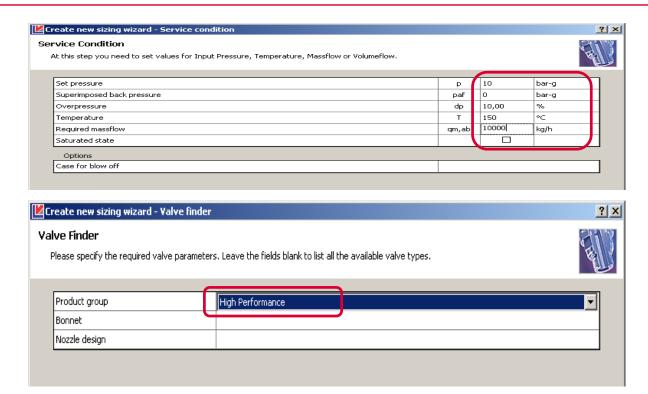
lifting device cap H2, evaporation while depressuring from 10bar g to

environmental pressure in case

of blow off.

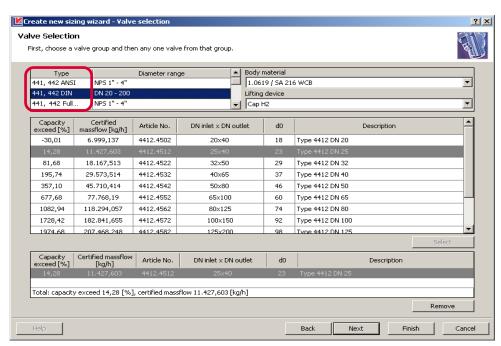








1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

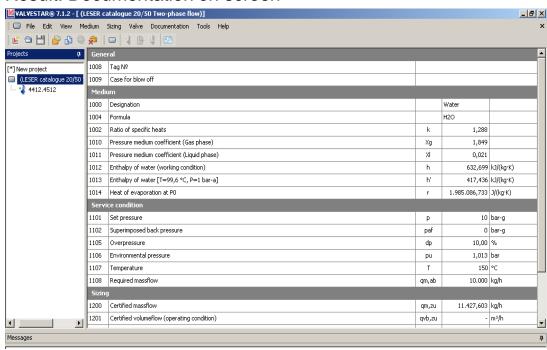


All the next steps until finish are not shown.



1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

Result: Documentation on screen



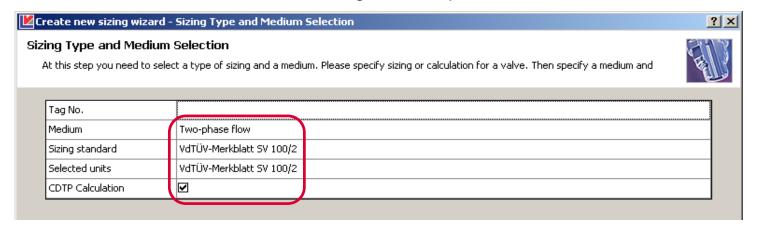


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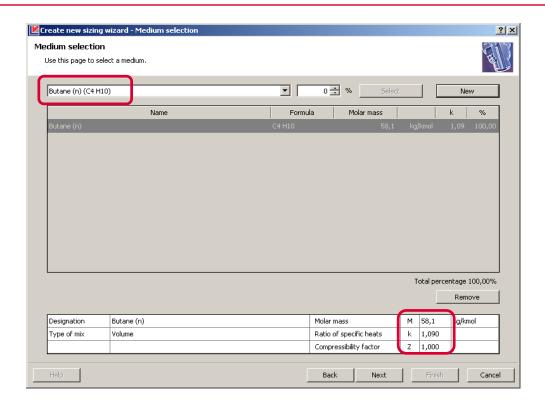
Service condition: Butane, Set pressure = 10bar g, required massflow = 10000kg/h

Valve construction: Type 441, semi nozzle, Carbon Steel body (1.0619/WCB),

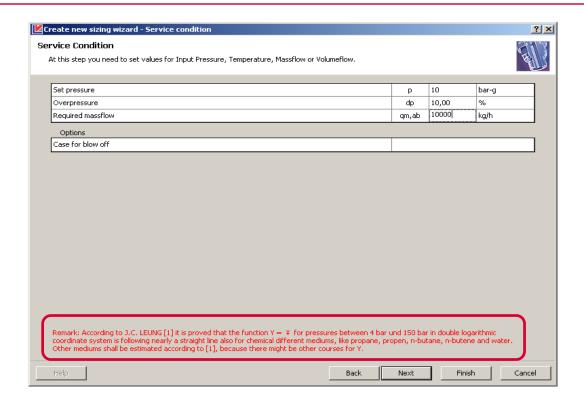
closed bonnet, lifting device cap H2



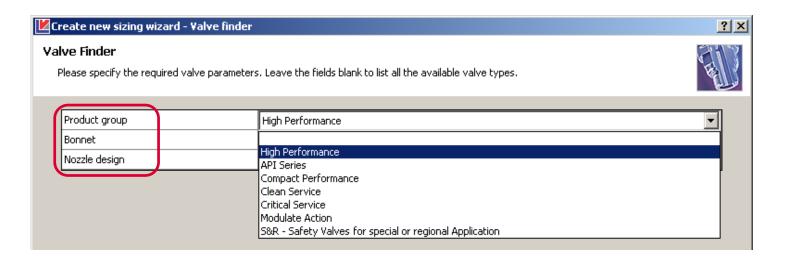




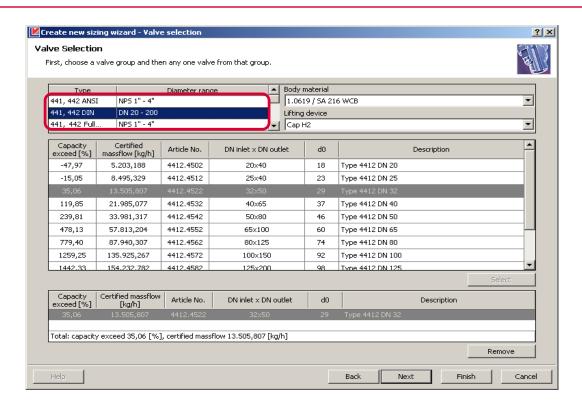








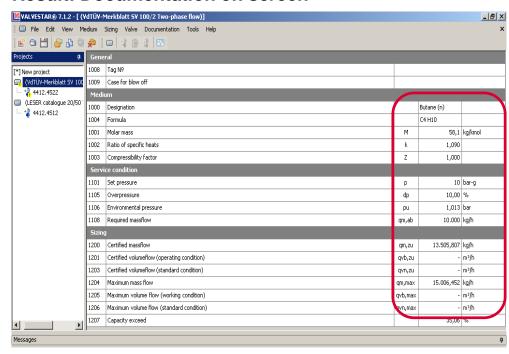






1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

Result: Documentation on screen





Two Phase Flow. Omega method according API 520 Appendix D.

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Service condition: Propene; Set pressure = 10bar g,

required massflow = 10000kg/h

Valve construction: Type 441, semi nozzle, Carbon Steel

body (1.0619/WCB),

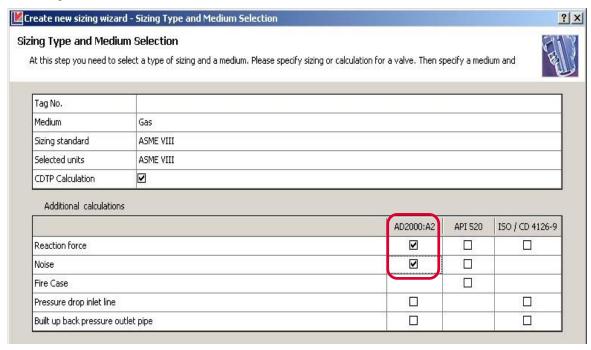
closed bonnet, lifting device cap H2



Additional Sizings, Noise Level, Reaction Forces.

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1. Step: Reaction force and noise level

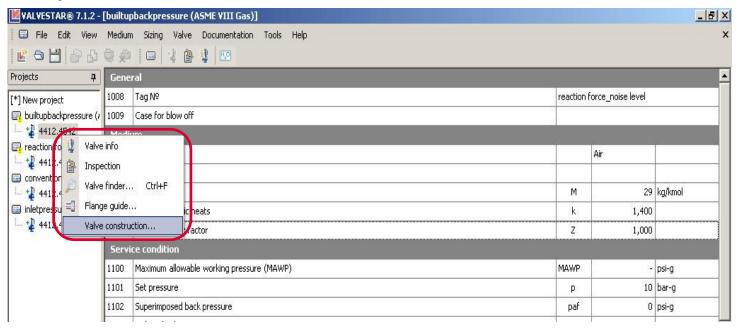




Additional Sizings, Noise Level, Reaction Forces.

1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

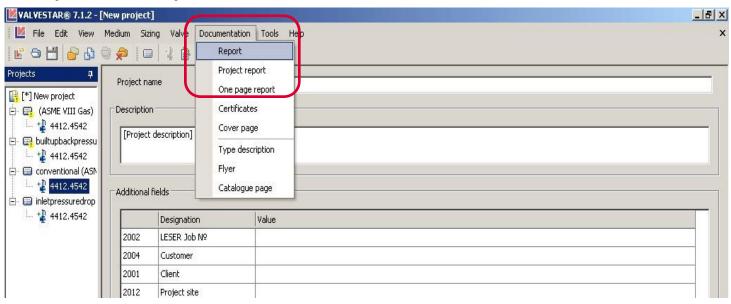
1. Step: Reaction force and noise level





1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

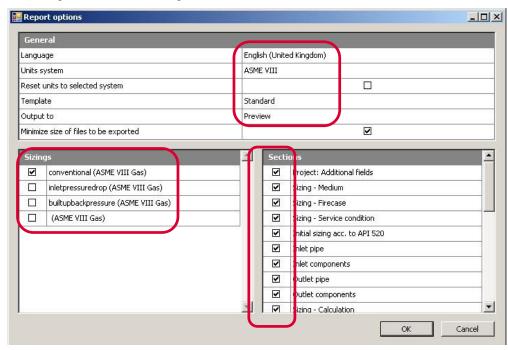
1. Step: Create a report



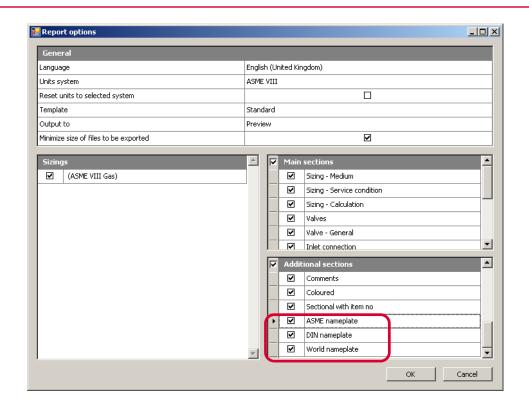


1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

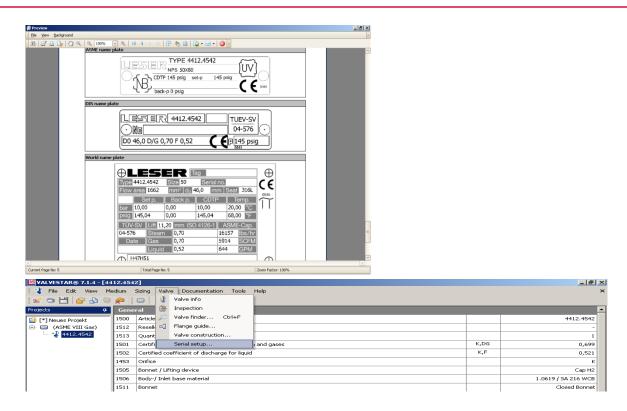
1. Step: Create a report



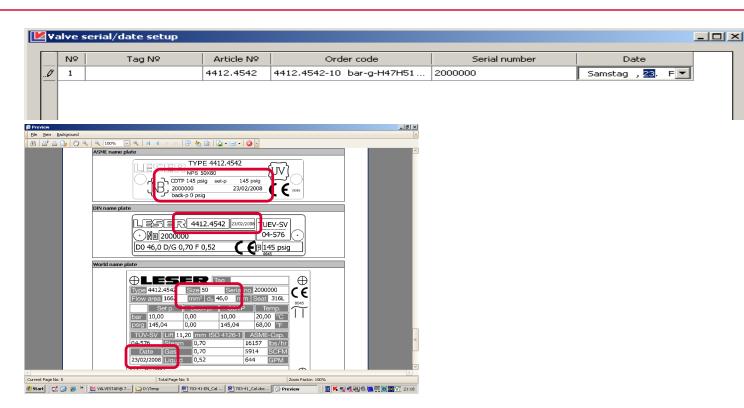








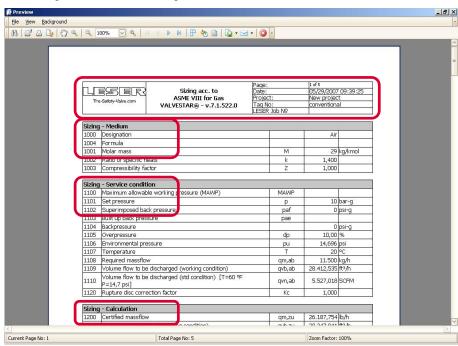






1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

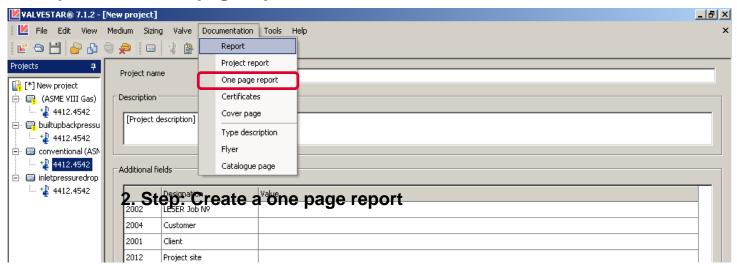
1. Step: Create a report





1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

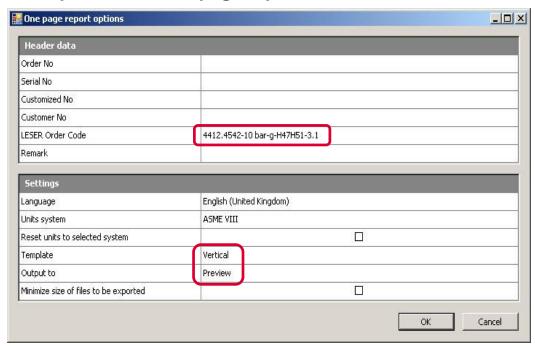
2. Step: Create a one page report





1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

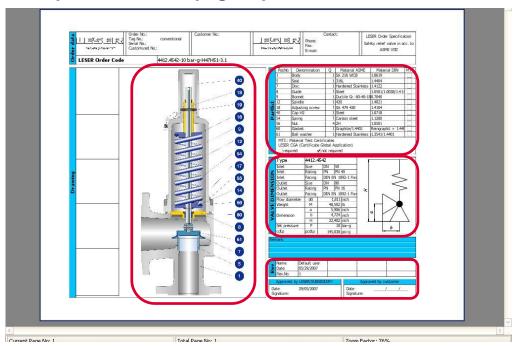
2. Step: Create a one page report





1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

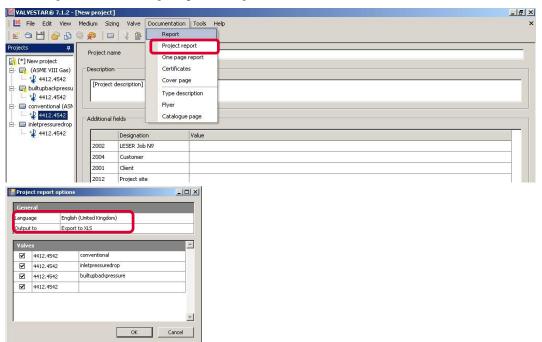
2. Step: Create a one page report





1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

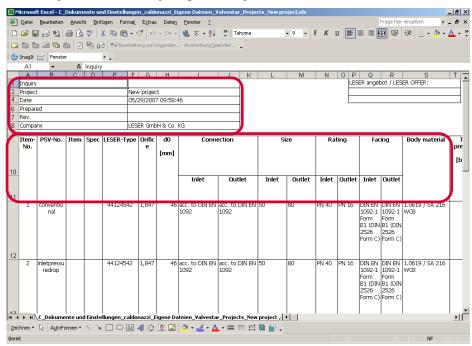
3. Step: Create a project report





1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

3. Step: Create a project report

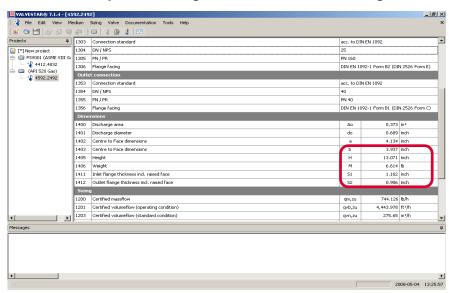




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

What is new for dimensions S1, S2, c?

These data have been added to the database for all slip on flange based safety valve and all full nozzle safety valve to get the correct bolt length or thread length.

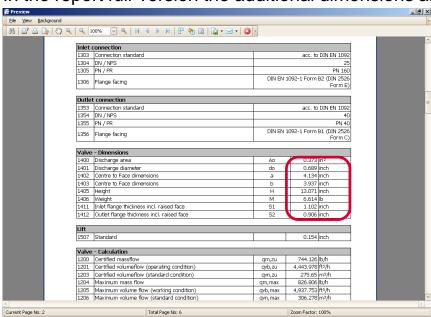




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

How I find it in the documentation

In the report full-version the additional dimensions are listed if these are available

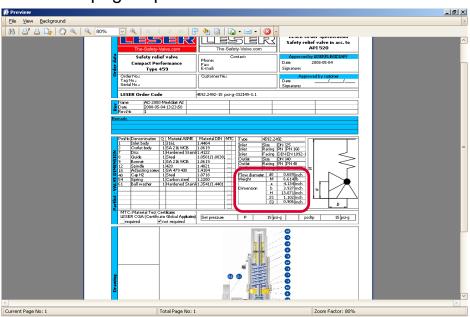




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

How I find it in the documentation

In the one-page report the additional dimensions are listed if these are available

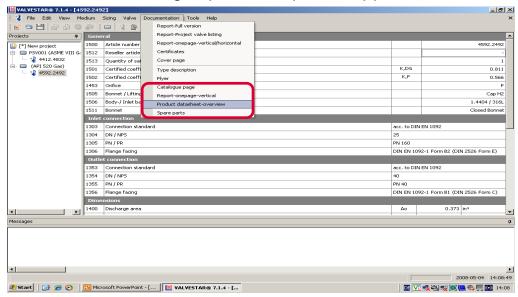




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

What is the Product datasheet?

The product datasheet is an overview of a single safety valve and its main features like drawing, dimensions and weight, possible options, approval, ...

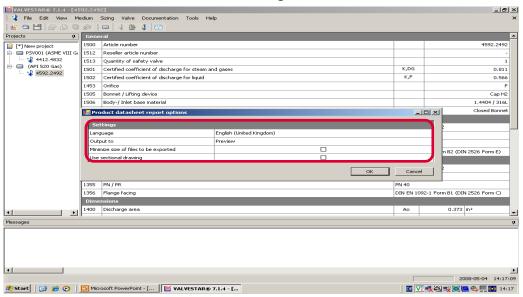




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

What is the Product datasheet?

For product datasheet two different drawings as main drawing could be selected: coloured drawing as standard and sectional drawing if needed.

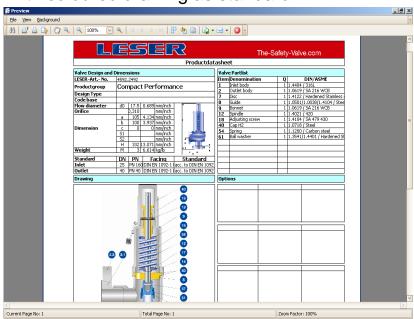




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

What is the Product datasheet?

With coloured drawing as standard

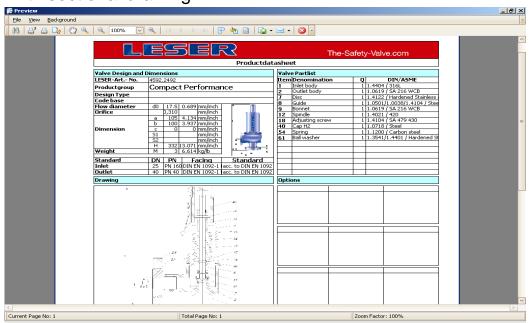




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

What is the Product datasheet?

With sectional drawing

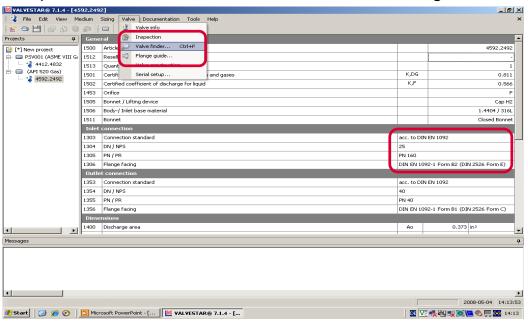




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

What is different to a report or one-page report?

The product datasheet is also available without sizing, with the feature "Valve finder"

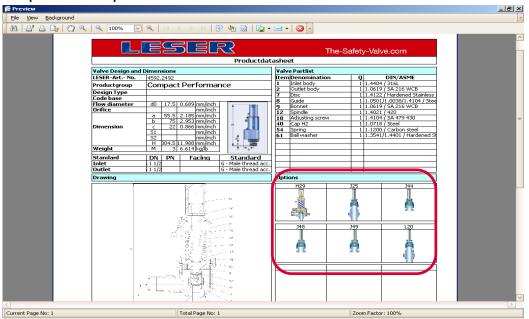




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

What is different to a report or one-page report?

All possible options are listed and shown

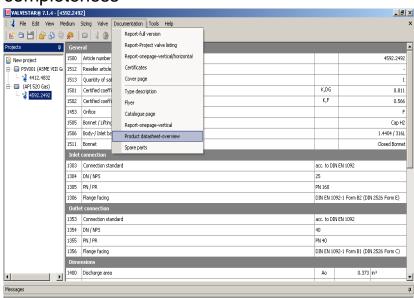




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

What is the report one-page-vertical?

This report is an advanced one-page report with additional data which are necessary for completeness

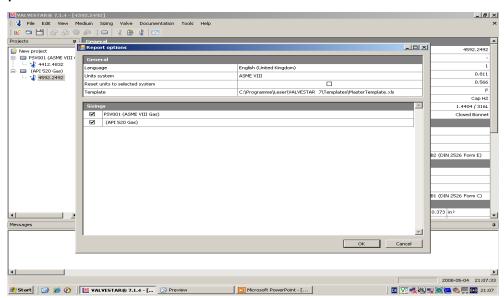




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

What is the report onepage-vertical?

This report is available as xls-file to change data for future redesign. The source of template is preset.

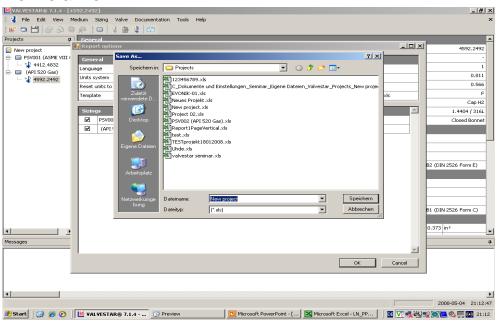




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

What is the report one-page-vertical?

Define a file

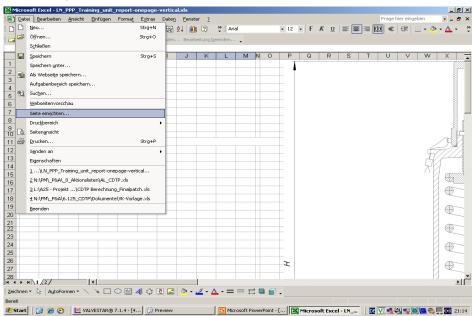




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

What is the report one-page-vertical?

The page has to be adjusted to an A4-format

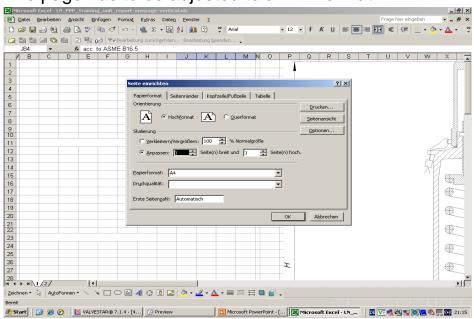




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

What is the report one-page-vertical?

The page has to be adjusted to an A4-format

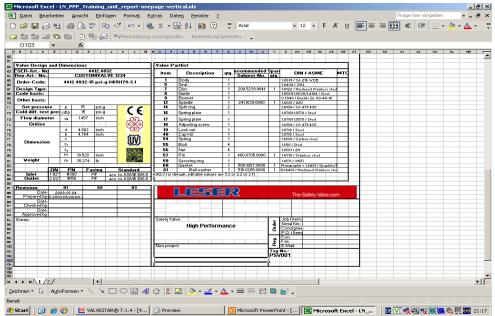




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

What is the report one-page-vertical?

The EXCEL-file can be added with additional data from user. Main data are picked from sizing data

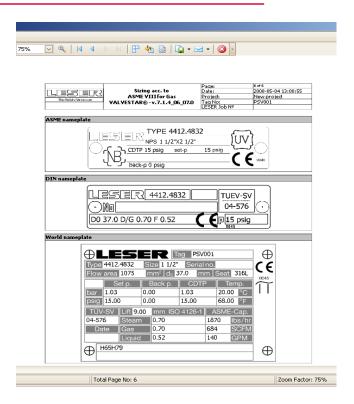




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

What is the feature "name plate"?

Three current nameplates are printed in the "report full-version"

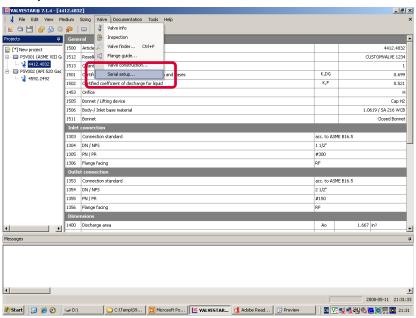




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

How can I add data to the initial "name plate"?

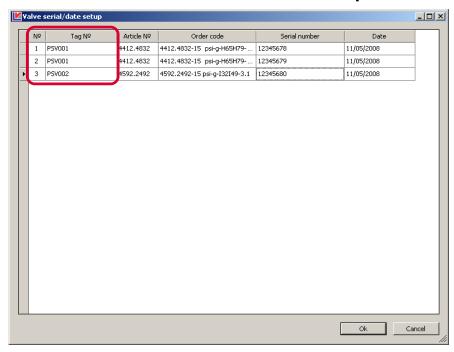
It is possible to add serial numbers and date of delivery later





1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

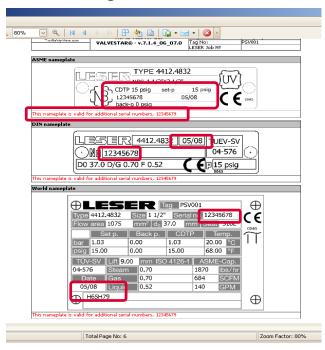
How can I add data to the initial "name plate"?



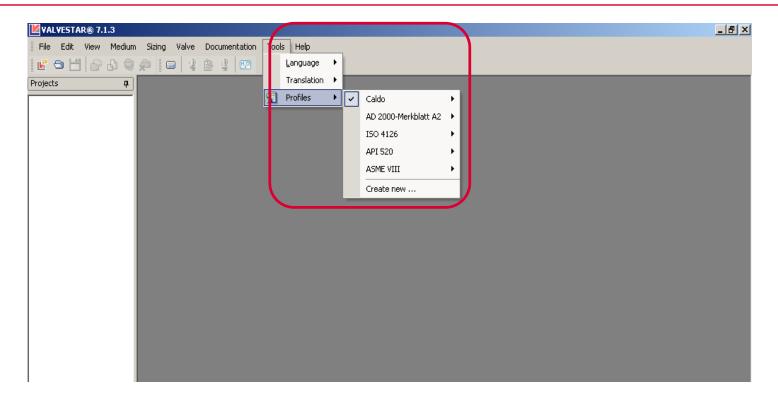


1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

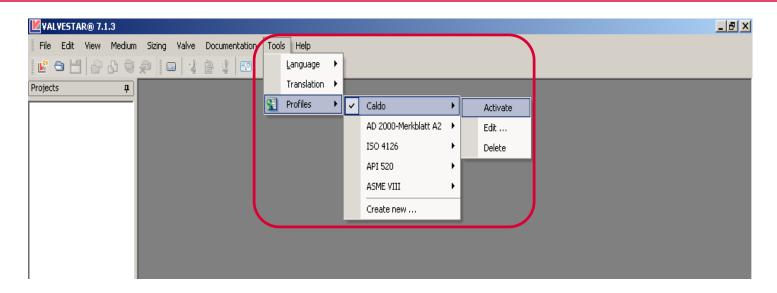
After adding, what is new on "name plate"?



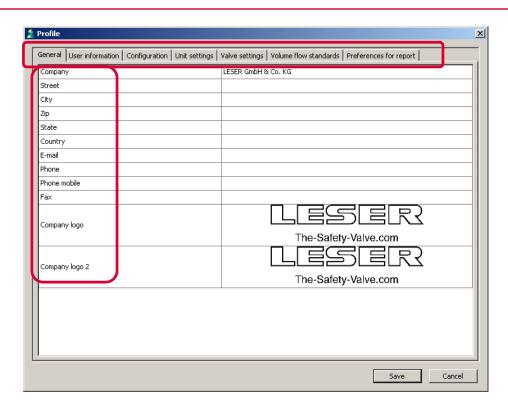




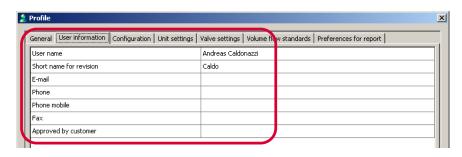




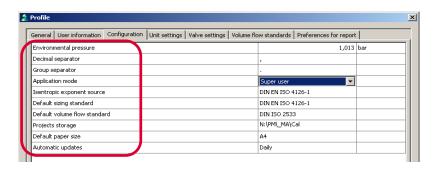








Default user	Andreas Caldonazzi			
08/15/2007 07:25:16	08/17/2007 11:47:28			
1	2			
		Default user Andreas Caldonazzi 08/15/2007 07:25:16 08/17/2007 11:47:28 1 2		





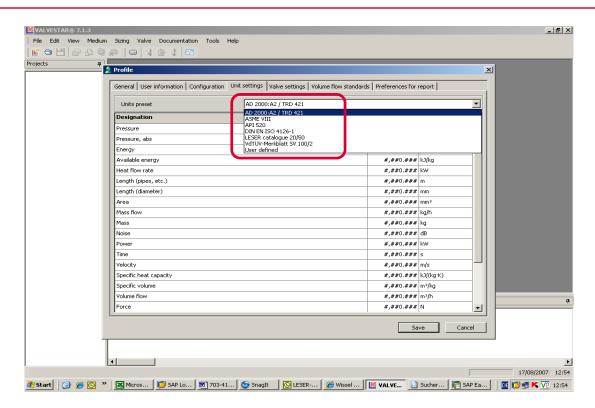
General User information Configuration	Unit settings Valve settings Volume flow standards Preferences for report
User name	Andreas Caldonazzi
Short name for revision	Caldo
E-mail	
Phone	
Phone mobile	
Fax	
Approved by customer	

Name	Default user	Andreas Caldonazzi		
Date	08/15/2007 07:25:16	08/17/2007 11:47:28		
Rev.No	1	2		

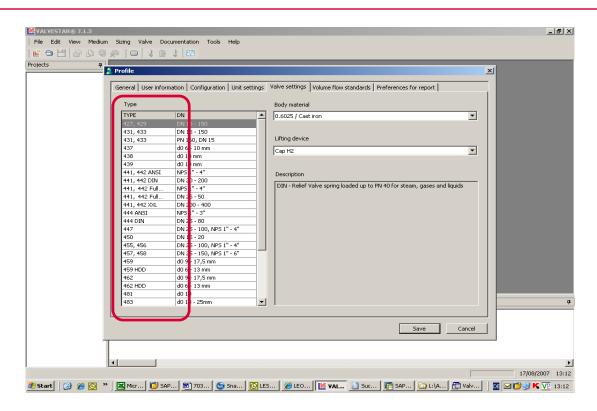


ieneral User informati <mark>o</mark> n Configuration U <mark>n</mark> it settings Valve settings Volume f	low standards Preferences for report	
Environmental pressure	1,013 bar	
Decimal separator	,	
Group separator		
Application mode	Super user	
Isentropic exponent source	DIN EN ISO 4126-1	
Default sizing standard	DIN EN ISO 4126-1	
Default volume flow standard	DIN ISO 2533	
Projects storage	N:\PM_MA\Cal	
Default paper size	A4	
Automatic updates	Daily	





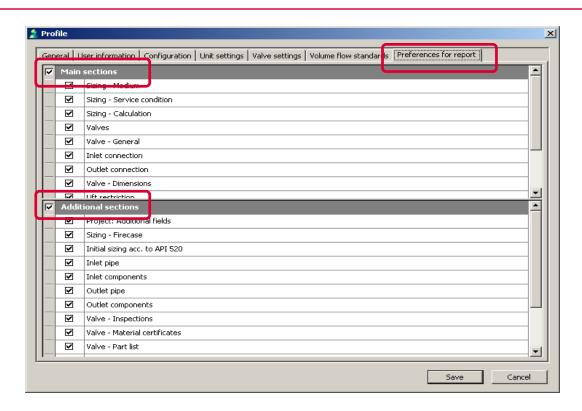






General User information Configuration Unit settings Valve settings Volume flow standards Preferences for report						
Denomination	Abbreviation	Temperature	Unit	Pressure	Unit	Volume flow unit
Standard conditions acc. to DIN ISO 2533	DIN ISO 2533	15	°C	101.325	Pa	m³/h
Physical standard conditions	Physical	0	°C	1,013	bar	m³/h
Technical standard conditions	Technical	20	°C	1	atm	m³/h
Chemical standard conditions	Chemical	25	°C	1,013	bar	m³/h
Standard conditions acc. to DIN 1343	DIN 1343	0	°C	101.325	Pa	Cm³/h
Standard conditions acc. to ASME Code	ASME	60	۰F	14,7	psi	SCFM
User defined 1	U1	15	°C	101.325	Pa	m³/h
User defined 2	U2	15	°C	101.325	Pa	m³/h
User defined 3	U3	15	°C	101.325	Pa	m³/h



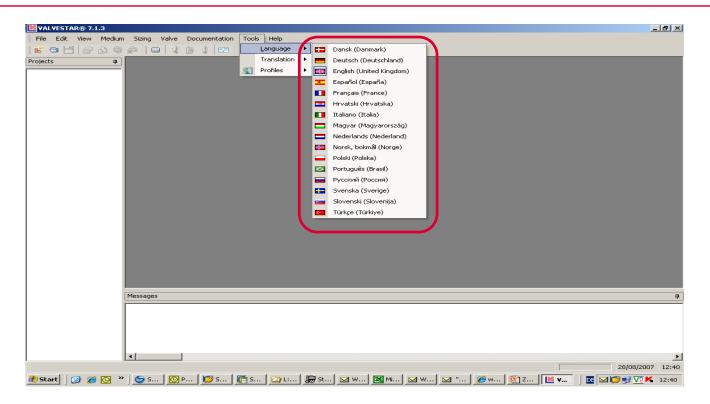




user informat	tion Configuration Unit settings Valve settings Volume flow standards Preferences for repor	references for optioncode				
	Add/Ed	dit custom inspections				
mspection	Y					
H03	LESER CGA: Inspection certificate 3.1 acc. to DIN EN 10204, Declaration of conformity acc. t	to PED				
M33	Certificate for test pressure acc. to DIN EN 10204-3.2					
N04	test report special surface Ra value in µm					
	Add/Edit co	ustom material certificates				
Material c	sertificates					
H01	Material test certificate for body acc. to DIN EN 10204-3.1					
L23	Material test certificate for disc acc. to DIN EN 10204-3.1					
L24	Inspection certificate stud/nut: EN 10204-3.1.B					
L30	Material test certificate for bonnet acc. to DIN EN 10204-3.1					
L31	Material test certificate for Cap / lever cover acc. to DIN EN 10204-3.1					
L34	Inspection certificate outlet body: EN 10204-3.1.B					
L59	Inspection certificate oddet body. EN 10204-3.1.B					
L60	Inspection certificate seat/1022ie. EN 10204-3.1.B					
N07	Material test certificate for studs acc, to DIN EN 10204-3.1					
N08	Material test certificate for suds acc. to DIN EN 10204-3.1					
1400	Macerial test certificate for fluts acc, to bit it in 10204-3.1					

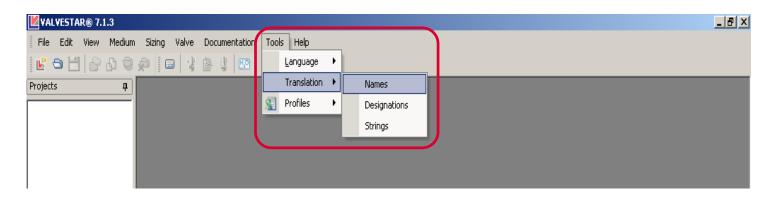


Language.



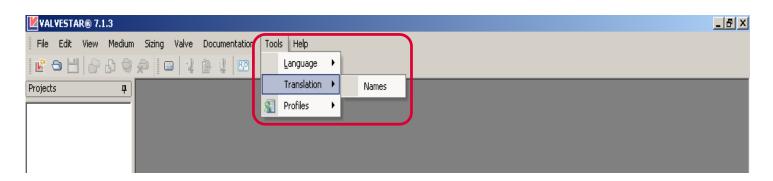


Translation.

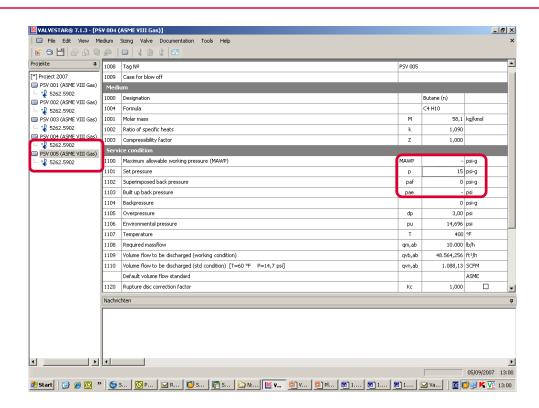




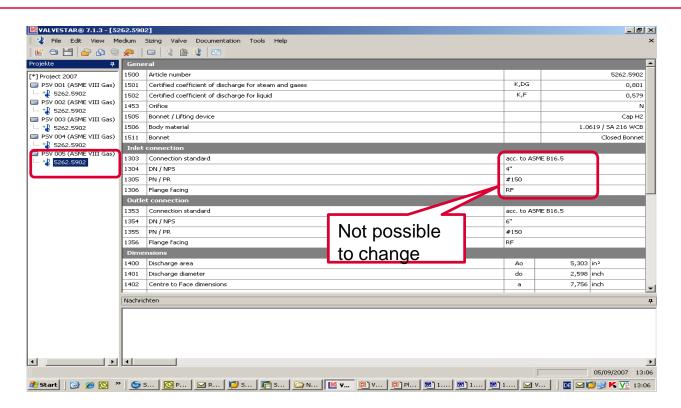
Translation.



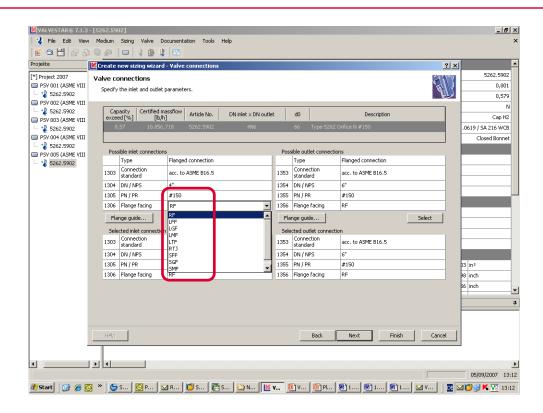










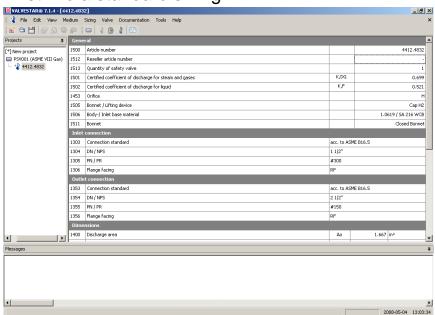




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

How to manually input a reseller article no.

First: Do a standard sizing

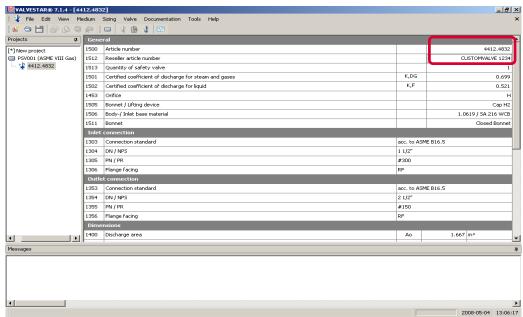




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

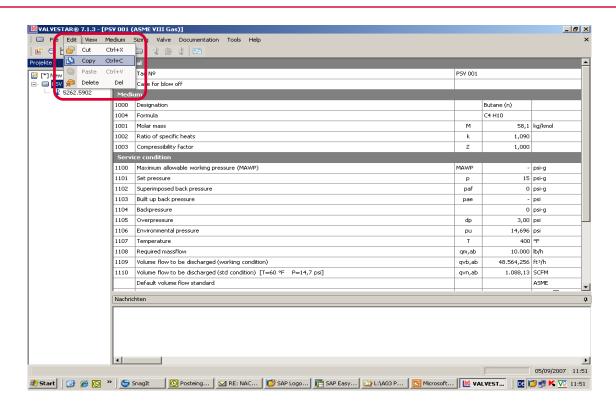
How to manually input a reseller article no.

Second: Add a reseller article no.



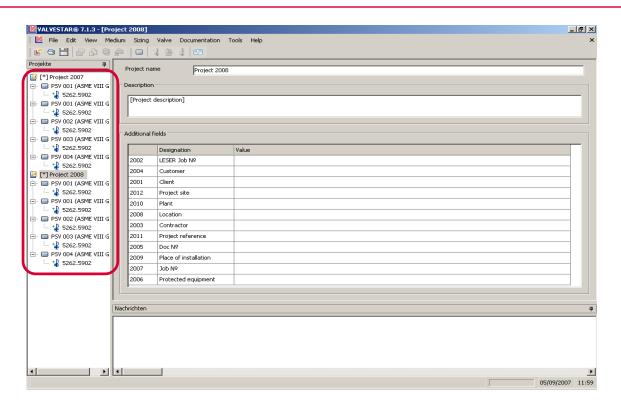


Copy and Paste.





Copy and Paste.

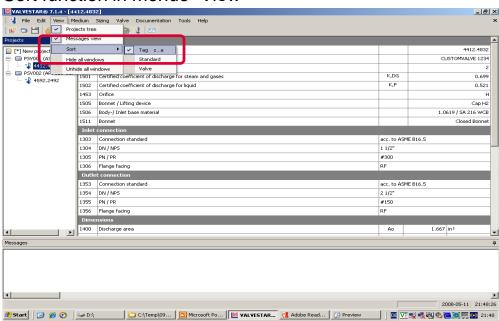




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

What are the features for better handling?

Sort function in menue "View"

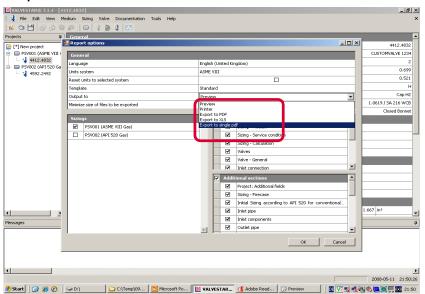




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

What are the features for better handling?

Printing in one pdf-file for all sizings of one project can be done with documentation "report full-version"

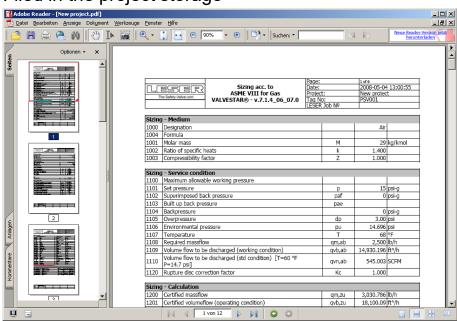




1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

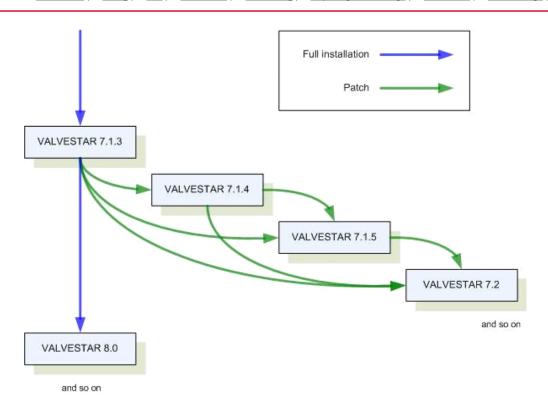
Where is the pdf-filed automatically?

Filed in the project storage"



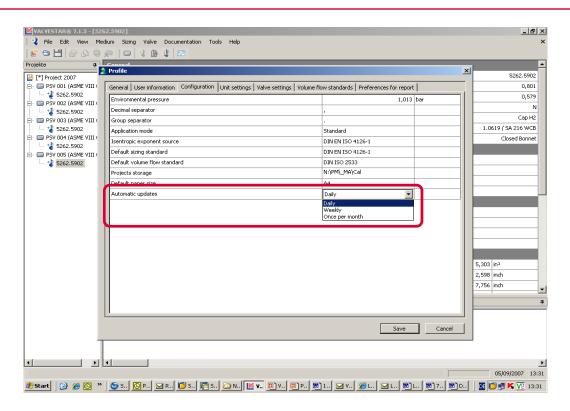


Update via Internet.



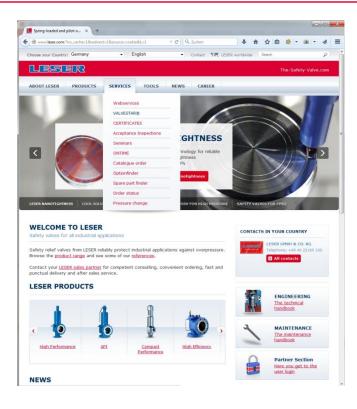


Update via Internet.





Update via Internet. Homepage – www.leser.com.



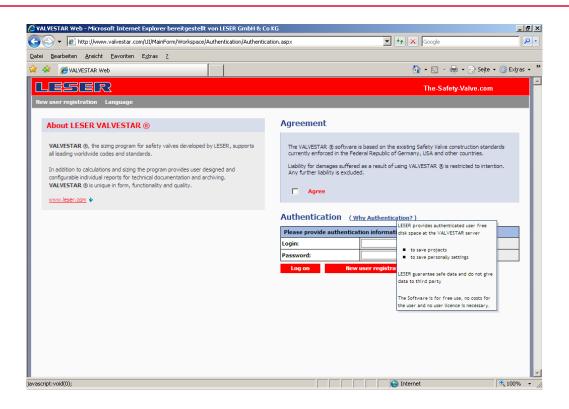


Update via Internet. www.leser.com/en/services/valvestar.





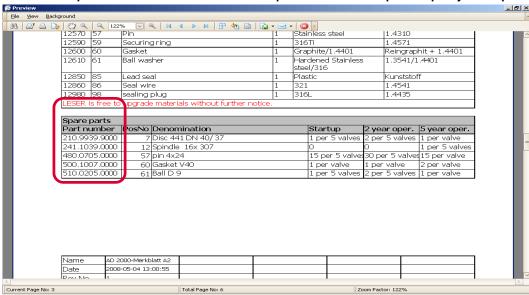
www.valvestar.com.





What is the new feature spare parts?

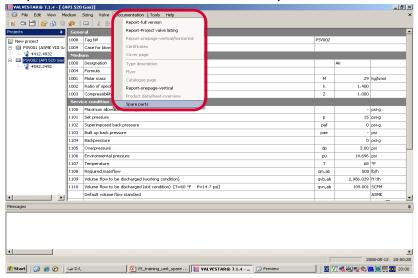
Two different listings of spare parts are available. Listing while single sizing in the "report full-version" and a spir list of complete project spare parts.





What is a spir list and how I generate a spir list?

A spir list is a summerize of spare parts which are generated of a complete project. If equal parts are used in different sized valves this will affect the maximum quantity of parts which are shown in the spir list





Spare Parts.

1. Introduction | 2. Sizing | 3. Fire | 4. Two Phase | 5. Add. Sizing | 6. Reporting and Settings | 7. Translation | 8. Data Change | 9. Copy and Paste | 10. Internet | 11. Spares

What is a spir list and how I generate a spir list?

