

Go²VALVES



QUICK GUIDE

Set | Calculate | Export

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GETTING STARTED

You can access the design software on our website via this link




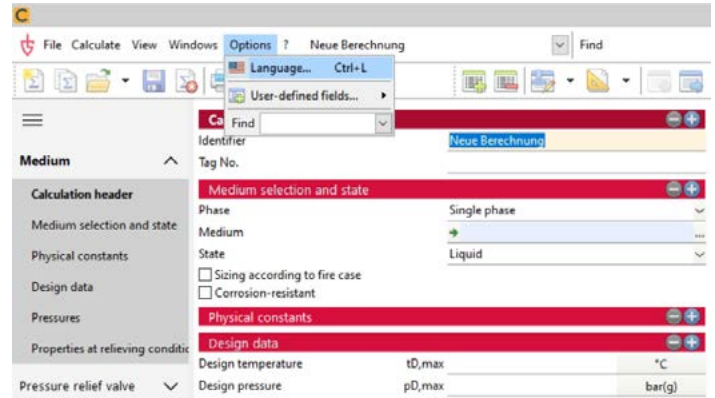
After filling in the online form (first name, last name, e-mail, company), you will receive a **one-time link valid for 24 hours**.

The data you provide in the form will be stored locally at GOETZE. We use this data to check your identity and to verify the forwarding of the one-time link. Your data will be treated confidentially, not passed on to third parties and deleted on request.

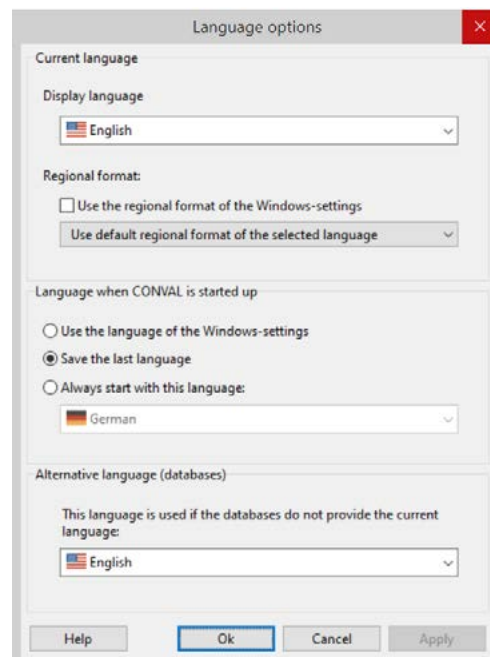
1. SETTINGS

1.1 LANGUAGES

Options 
 Language 



Select desired language 



1.2 MANDATORY FIELDS

Mandatory fields must be filled in, they are highlighted in colour



Calculation header	
Identifier	Neue Berechnung
Tag No.	
Medium selection and state	
Phase	Single phase
Medium	+
State	Gaseous
Gas	Gas, dry (Standard conditions)
<input type="checkbox"/> Sizing according to fire case <input type="checkbox"/> Corrosion-resistant	
Physical constants	
Standard conditions	0°C, 1013.25 mbar
<input type="radio"/> Density (standard conditions)	ρ_N kg/m ³
<input type="radio"/> Specific gas constant	R J/(kg K)
<input checked="" type="radio"/> Molar mass	M kg/kmol
<input type="radio"/> Specific gravity	Sg -
Design data	
Design temperature	tD,max °C
Design pressure	pD,max bar(g)
Pressures	

1.3 UNITS

By clicking on „bar(g)“ further units can be displayed and selected if required.

Pressures	
Set pressure	pSet bar(g)
<input checked="" type="checkbox"/> Overpressure	fpA at(a)
Relieving pressure	p0 at(g)
Back pressure	pb atm(a)
Properties at relieving conditions	
Temperature of fluid	t0 ftH2O(a)
Real gas factor	Z ftH2O(g)
Density of fluid	ρ inH2O(a)
Isentropic exponent	κ inHg(a)
	inHg(g)
	kgf/cm ² (a)
	kgf/cm ² (g)
	kp/cm ² (a)
	kp/cm ² (g)
	kPa(a)
	kPa(g)
	lbf/ft ² (a)
	lbf/ft ² (g)

This also works for the other points, e.g. for „Substance data for blow-off capacities“

Click on the units on the right

Pressures	
Set pressure	pSet bar(g)
<input checked="" type="checkbox"/> Overpressure	fpA 10.0 %
Relieving pressure	p0 bar(g)
Back pressure	pb 0.0 bar(g)
Properties at relieving conditions	
Temperature of fluid	t0 °C
Real gas factor	Z -
Density of fluid	ρ kg/m ³
Isentropic exponent	κ -

2. CALCULATION

2.1 IDENTIFIER

The identifier is also used as the file name.

2.2 PARAMETER

Medium = Air

Design temperature = 20 °C

Design pressure = 10 bar(g)

Volume flow rate = 1000 Nm³/h

Dropdown menus can be opened using the arrow on the right-hand side. Here in the example: Selection between standard conditions and operating conditions.

Calculation header	
Identifier	File Name
Tag No.	
Medium selection and state	
Phase	Single phase
Medium	<input checked="" type="checkbox"/> Air
State	<input checked="" type="checkbox"/> Super critical
Gas	Gas, humid (Standard conditions)
Humidity	Gas, dry (Standard conditions)
Relative humidity	<input type="checkbox"/> ϕ
<input type="checkbox"/> Sizing according to fire case <input type="checkbox"/> Corrosion-resistant	
Physical constants	
Standard conditions	0°C, 1013.25 mbar
Design data	
Design temperature	tD,max °C
Design pressure	pD,max bar(g)
Pressures	
Set pressure	pSet 10.0 bar(g)
<input type="checkbox"/> Overpressure	fpA %
Relieving pressure	p0 10.0 bar(g)
Back pressure	pb 0.0 bar(g)
Properties at relieving conditions	


2.3 REQUIRED FLOW CAPACITY


Here one can choose between mass flow rate & volume flow rate.

Further units can be selected by clicking on m³/h 

Required flow capacity	
<input type="checkbox"/> Sizing according to fire case	
<input type="radio"/> Mass flow rate	qm kg/h
<input type="radio"/> Volume flow rate (standard conditi...	qn,dry m ³ /h
<input checked="" type="radio"/> Volume flow rate (standard conditi...	qn,hum m ³ /h
Valve selection	
Calculation standard	ISO 4126:2016
Valve manufacturer	
Series	
Material	
Valve selection	
<input type="button" value="Select valve"/>	
<input type="checkbox"/> Valve from database	
Valve configuration	
<input type="checkbox"/> Lift stopper	s,lim mm
<input type="checkbox"/> Balanced bellows available	
<input type="checkbox"/> Upstream rupture disc	


2.4 VALVE SELECTION

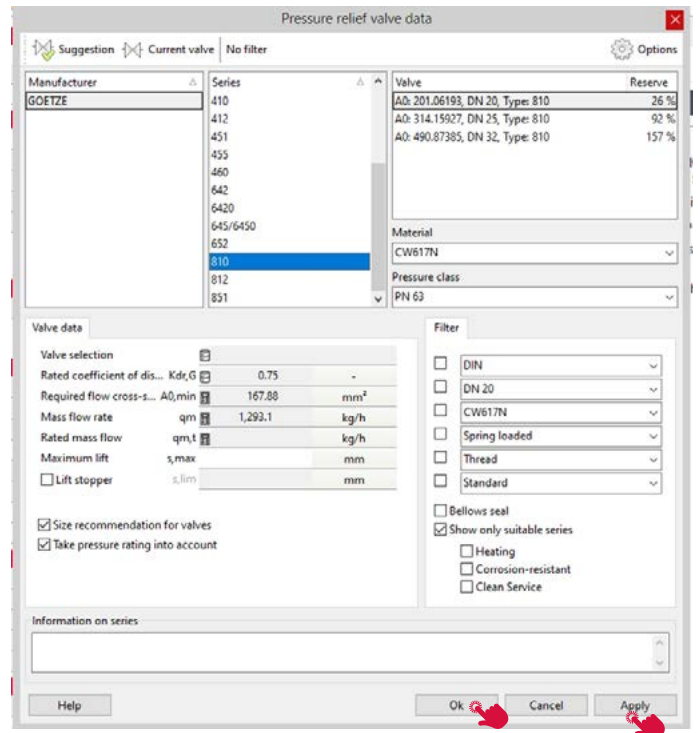
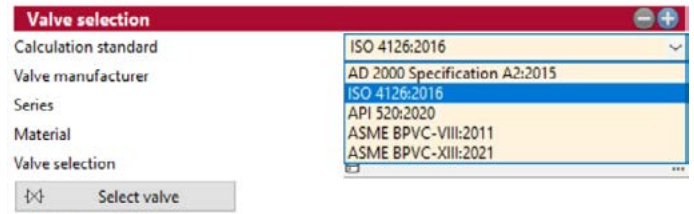
Selection of the calculation standard via the drop-down menu 

Select valve 

The valves that can be considered for the previously selected parameters are displayed.


By clicking on „Apply“ , the selected valve is used for the calculation.

Confirm with „Ok“  and the calculation is carried out.



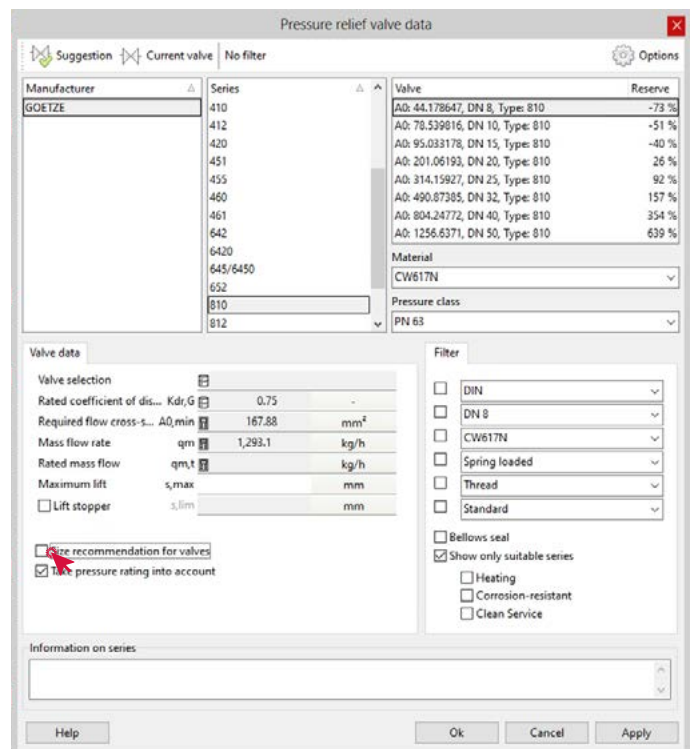
NOTE

A certain valve already exists, the calculation is to be carried out subsequently and is not displayed in the valve recommendations?

Then please remove the tick from „Size recommendation for valves“ 

- Size recommendation for valves
- Take pressure rating into account


Now all GOETZE series and nominal sizes are displayed and the valve can be freely selected.

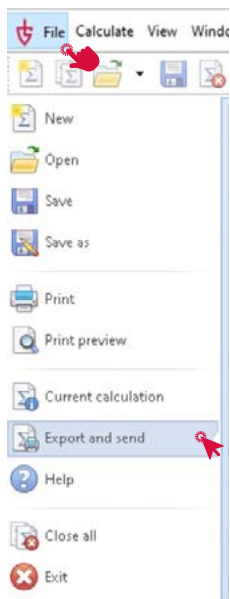


3. DATA EXPORT

3.1 SAVE

The calculation in our example is now complete and can be saved.

Click on „File“  to save the calculation as a file (CSR) or directly as a PDF.

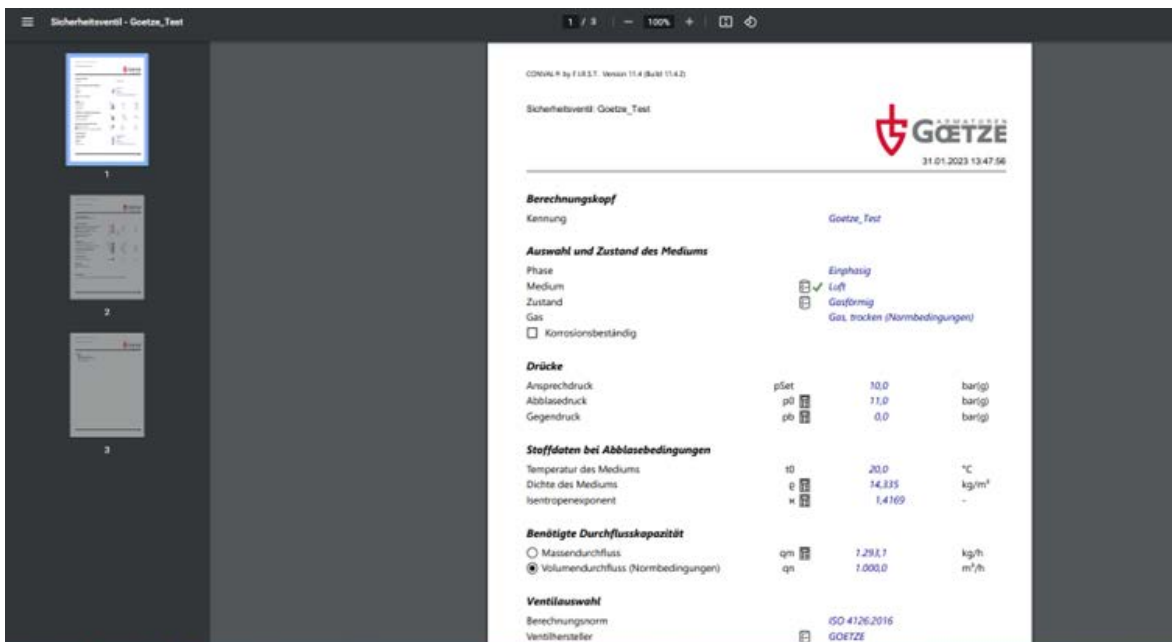


If a PDF is to be saved:


„Export and send“

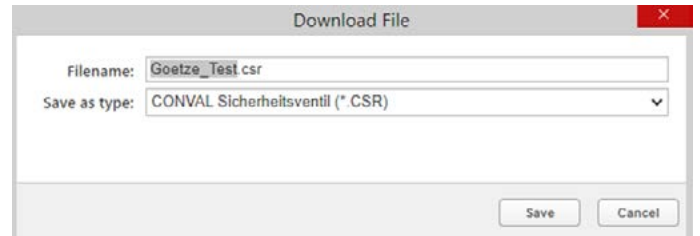
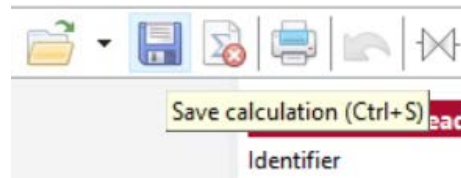
Click on the PDF document and the calculation opens as a PDF.

Required flow capacity			
<input type="checkbox"/>	Sizing according to fire case		
<input type="radio"/>	Mass flow rate	qm	1,293.1 kg/h
<input checked="" type="radio"/>	Volume flow rate (standard conditions)	qn	1,000.0 m³/h
Valve selection			
Calculation standard		ISO 4126:2016	
Valve manufacturer		GOETZE	
Series		810	
Material		CW617N	
Valve selection		A0: 201.06193, DN 20, Type: 810	
Select valve			
<input checked="" type="checkbox"/> Valve from database			
Valve configuration			
<input type="checkbox"/>	Lift stopper	s,lim	mm
<input type="checkbox"/>	Upstream rupture disc		
Pressure relief valve			
Rated coefficient of discharge (gas/vap... Kdr,G		0.79	
<input checked="" type="radio"/>	Narrowest flow cross-section	A0	201.06 mm²
<input type="radio"/>	Narrowest flow diameter	d0	16.0 mm
Nominal diameter of inlet		DN1 DN 20	
Pressure class of inlet		PN1 PN 63	
<input checked="" type="checkbox"/> Open discharge			
Results			
Required discharge coefficient for A0		Kdr,min	0.626
Required flow cross-section for Kdr		A0,min	159.38 mm²
Rated mass flow		qm,t	1,631.3 kg/h
Rated volume flow		qn,t	1,261.5 m³/h
Flow reserve		R	26.154 %



Click on the disc symbol to save the calculation.

Click on „Save“  to save the calculation as a CSR file on the PC.

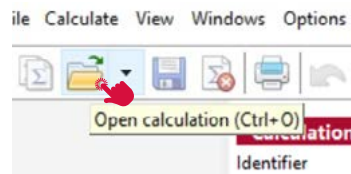


3.2 FILE UPLOAD

If required, the calculation can be uploaded and edited again.

To do this, click on the folder symbol. 

Search for the file, select it and click on „Upload“
The saved calculation can now be edited again.



NOTE

A file upload and thus a re-editing is only possible with a CSR file. PDF files can NOT be uploaded and imported again!

Goetze KG Armaturen - We know how to handle pressure

The competence of Goetze KG Armaturen has been in demand for more than 70 years. Our wealth of experience is as broad and varied as our areas of application for our high-performance fittings.

500.000 VALVES PER YEAR

out of a wide product portfolio – „Made in Germany“

-270 °C TO +400 °C

uncompromising performance

GERMANY, LUDWIGSBURG

USA, China, United Kingdom, Brazil | Own Distributors

0,2 BAR – 1500 BAR

extensive pressure range



SHORT DELIVERY TIMES AROUND THE GLOBE

Benefit from the short global delivery times for all our products. All orders can generally be processed within 3-5 working days. You're in a hurry? Then use our express production and your order can be ready for dispatch within 48 hours.



WIDE RANGE OF PRODUCTS

Our well thought-out families of products cover every industrial application: liquids of all kinds, gases, technical vapours and steam. Individual customer solutions and new developments go hand in hand in the development process. In the meantime, this mixture has resulted in a comprehensive and high-quality product range.



RELIABLE COMPETENCE

Technical consulting is not only the focus of our in-house team. We provide support for our customers throughout the entire life cycle of the valve and assist those persons who have to work with the fittings every day by providing you with the necessary information and instruction.



HIGH STANDARDS

Not only the products but also the materials used have to meet the highest standards. This is why the materials are examined by trained personnel as soon as they arrive. After production, each individual valve is subjected to an ISO-certified quality control test before it is allowed to leave the factory.

YOUR CONTACT TO US

Goetze KG Armaturen

Robert-Mayer-Straße 21 Fon: +49 (0) 7141 / 488 94 60 info@goetze.de
D-71636 Ludwigsburg Fax: +49 (0) 7141 / 488 94 88 www.goetze-group.com