

The logo for PNEUFLUID, consisting of a circular icon with a stylized 'X' inside, followed by the word 'PNEUFLUID' in a bold, sans-serif font.

User manual

USER MANUAL

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USER MANUAL

PNEUFLUID MAIN FEATURES



PNEUFLUID is a free web-based tool for designing pneumatic diagrams. The main software features are:

- It runs on Google Chrome and Microsoft Edge browsers, nothing to install or download
- Quick selection of ISO 1219 pneumatic symbols by navigating a library organized like PNEUMAX catalog
- PNEUMAX products database integration: catalog codes stored together with technical characteristics are efficiently connected with the relevant pneumatic symbols
- Guided product code configuration procedure based on required technical specifications
- Actuators full code creation including the desired stroke values
- Visualization of major features of air treatment components such as pressure range, filtration grade and bowl capacity
- Symbols for assembling modular groups such as valve manifolds and air preparation units
- Multi-page diagrams with editable drawing title block
- Drawing export to pdf/dxf format
- Bill of materials creation and export to csv format

USER MANUAL

SOFTWARE LAYOUT

Pneumatic component selection

Jumping reference symbols

Insert free text button

Current working sheet

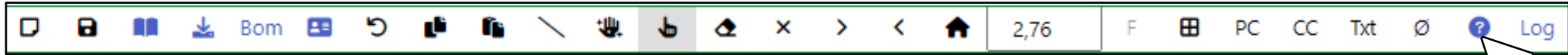
Drawing entities used in the current working sheet

The screenshot shows the PNEUFLUID software interface. At the top, there is a menu bar with options like 'Bom', 'PC', 'CC', 'Txt', and 'Log'. Below the menu bar is a toolbar with various icons. On the left side, there is a sidebar with several sections: '+Add item' (highlighted with a red box and arrow), 'Free text' (highlighted with a red box and arrow), 'Sheet:' (with tabs 1, 2, 3, 4, 5, where tab 1 is selected), and 'Drawing entities:' (a list of components used in the current sheet, highlighted with a red box and arrow). The main area displays a pneumatic circuit diagram with various components like valves, cylinders, and sensors. At the bottom right, there is a technical drawing table with fields for 'DRAWN BY', 'DATE', 'CHECKED BY', 'DATE', 'PROPERTY OF', 'PROJECT NAME', 'MACHINE MODEL', 'DESCRIPTION', 'MOUNTING LOCATION', 'PROJECT NAME', 'SCALE', 'SHEET', 'DRAWING NUMBER', and 'DRAFTER'.

Command buttons

Online help

Send debug log



Download the [user manual](#).

Menu buttons

- New document
- Save document to local storage
- Open last saved document
- Download file in pdf/dxf/px formats
- Bom** Generate bill of materials
- Edit title block
- Undo
- Copy selection
- Paste selection
- Toggle grid
- Insert new tubing
- Use multiple selection window
- Use single click selection
- Delete selection
- Reset selection
- Next symbol variant (rotation, mirroring)
- Previous symbol variant (rotation, mirroring)
- F** Freeze components
- PC** Hide/show product code
- CC** Hide/show class code
- Txt** Hide/show user notes
- Hide/show tubing data

Mouse controls

Right button+drag: pan

Mouse wheel: zoom in/zoom out

Left button: select items

Keyboards shortcuts

ESC: reset current selection

Ctrl+C: copy selection

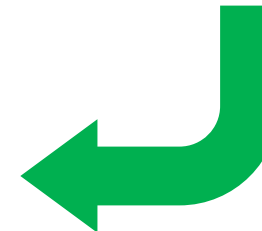
Ctrl+P: paste selection

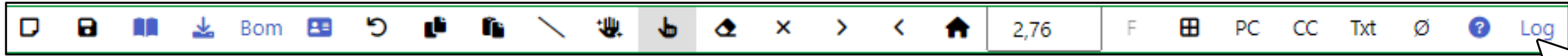
Ctrl+Z: undo last operations

Supported browsers

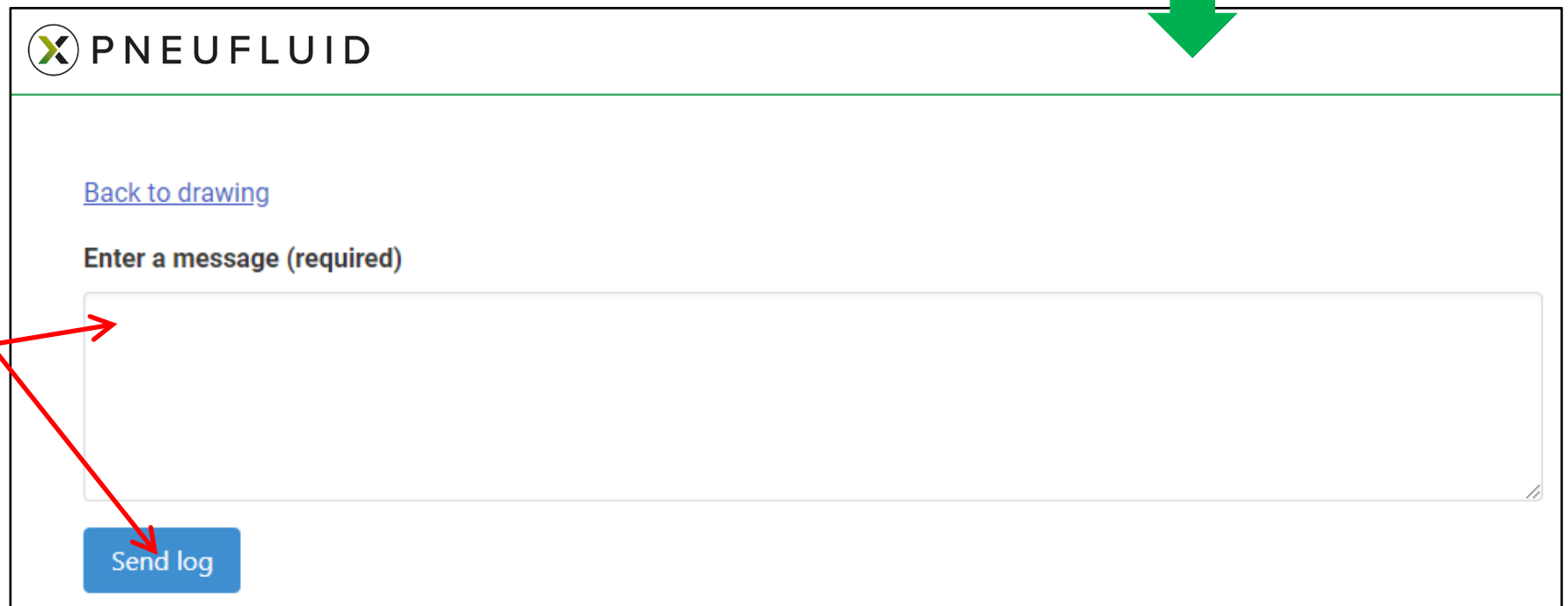
- Google Chrome
- Microsoft Edge

Click on *Online help* button to check out the available commands





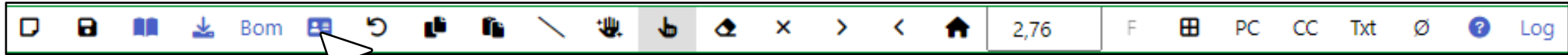
1. Click on *Send debug log* button



2. Type a message and send a debug log about the current drawing to Pneufuid Support

USER MANUAL

DRAWING TITLE BLOCK



Click here to select sheet size and edit title block data



DRAWING FORMAT AND DATA

Sheet format: Scale:

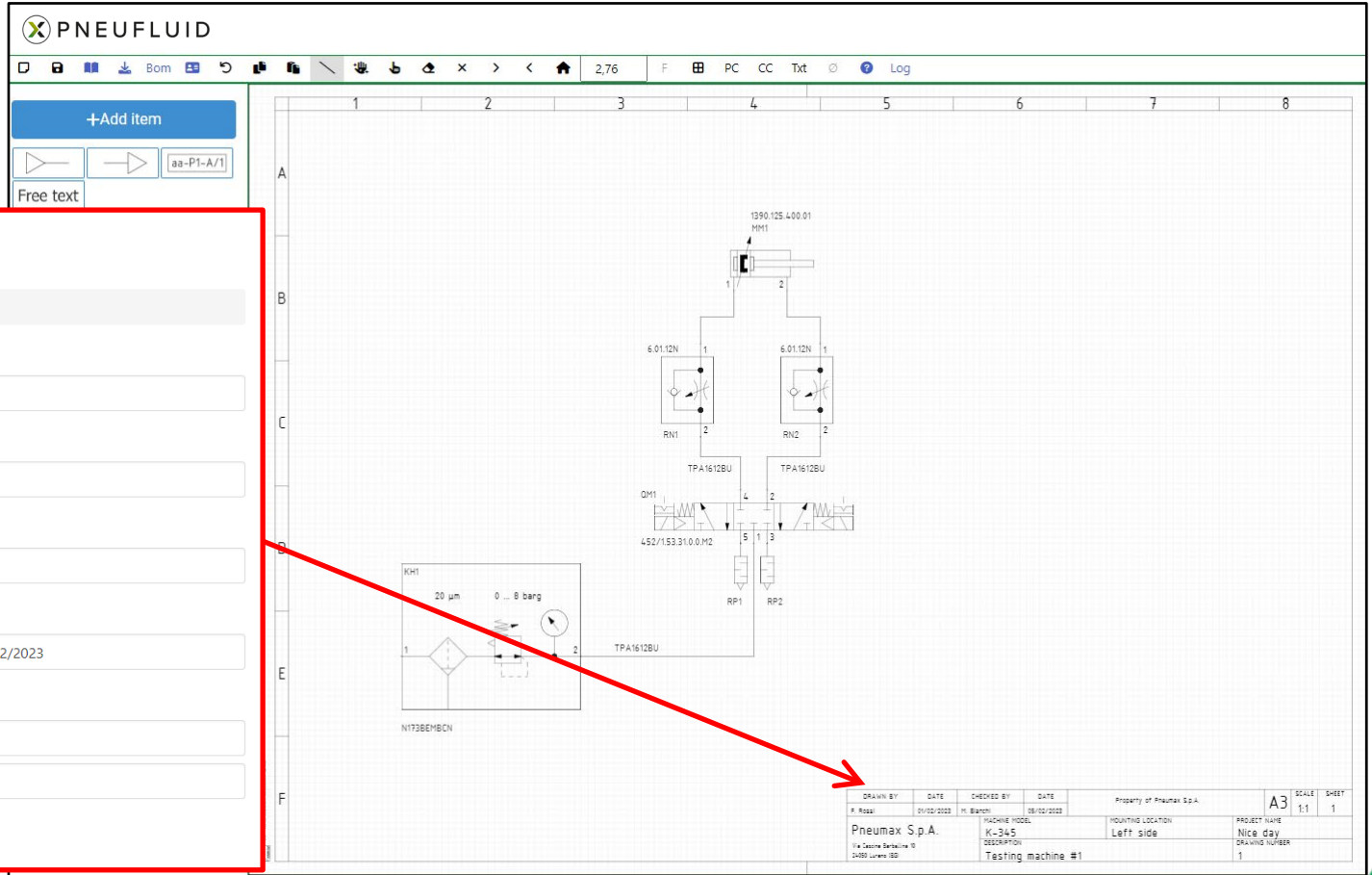
Drawing number: Description:

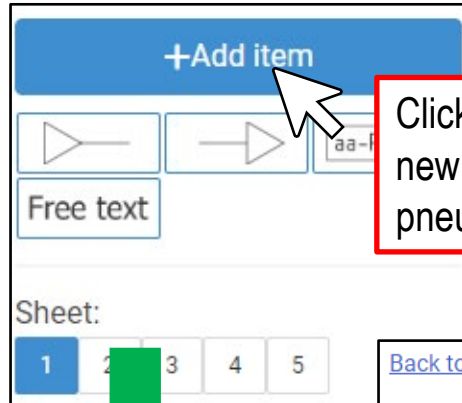
Company Name: Company Info 1: Company Info 2:

Machine model: Mounting location: Project name:

Drawn by: Date: Checked by: Date:

Copyright:

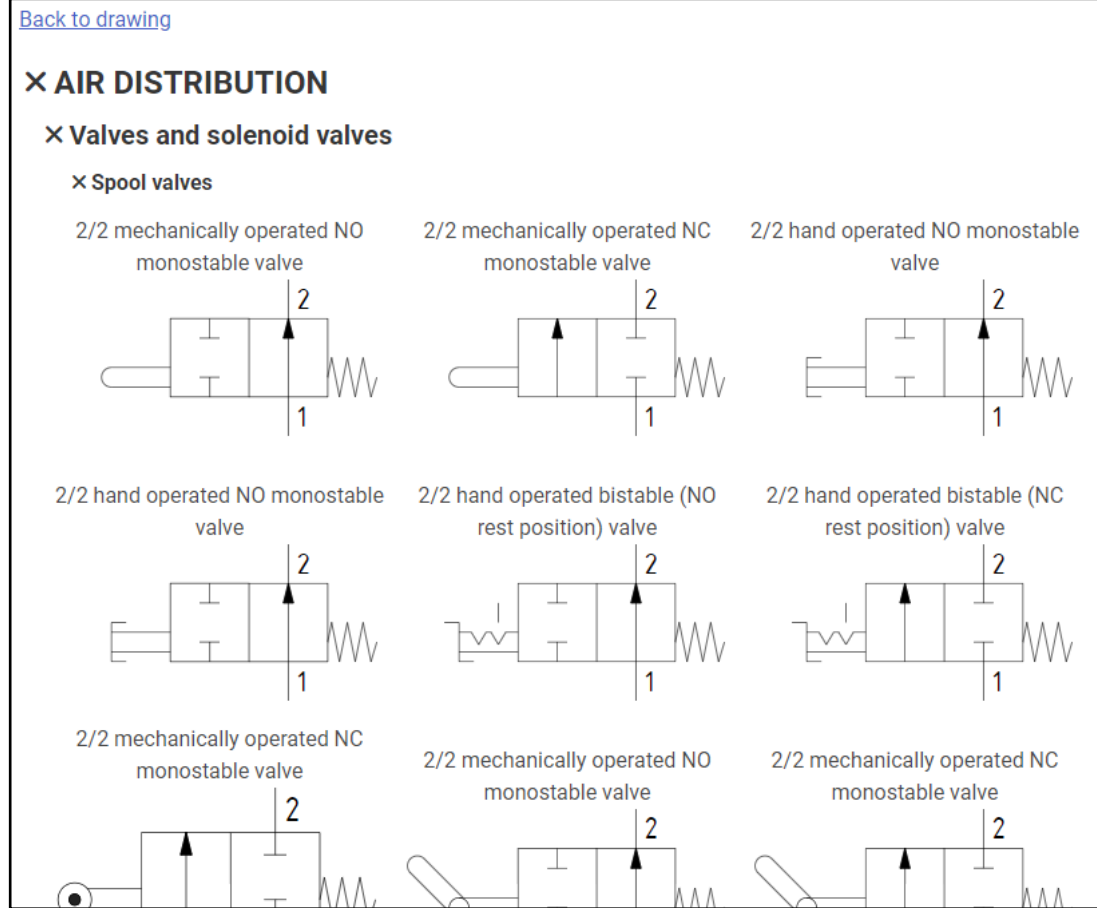




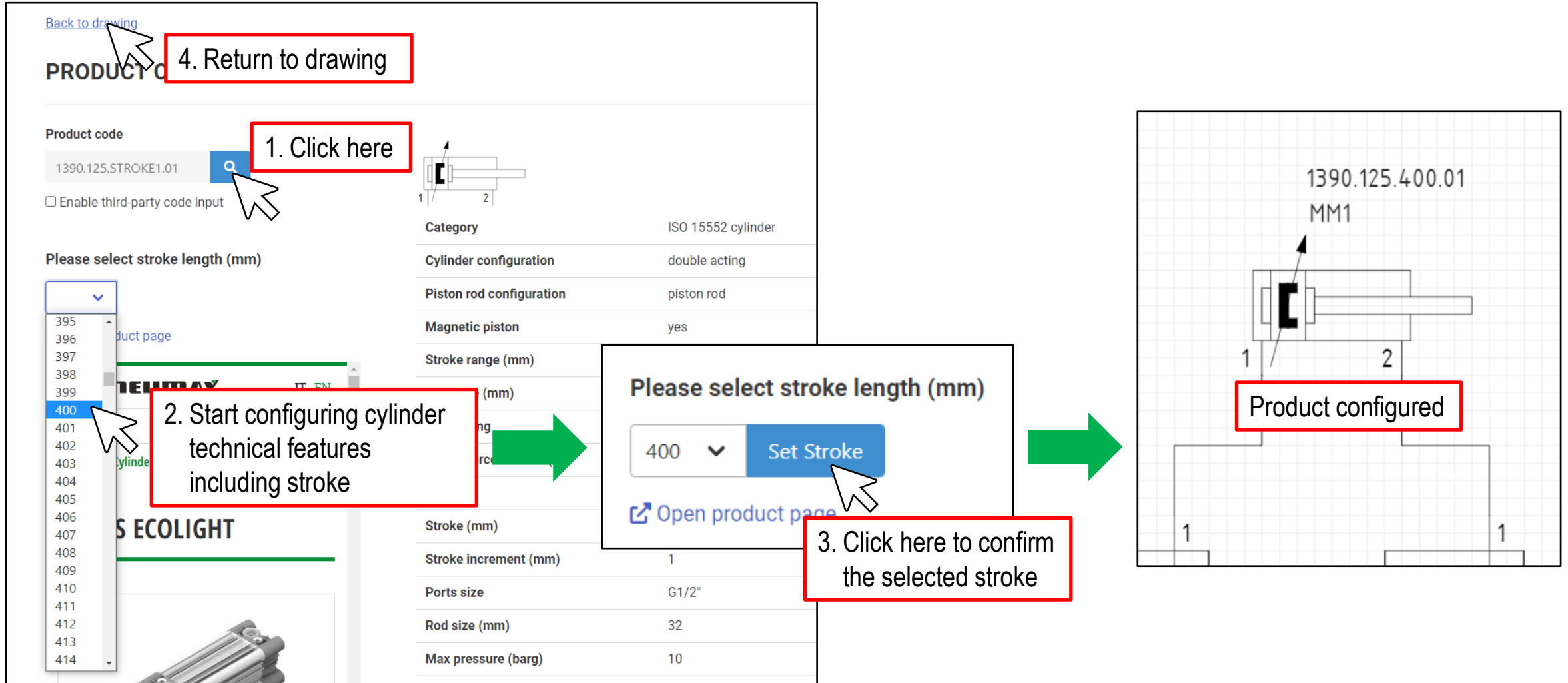
Click here to insert a new component into the pneumatic diagram

- [Back to drawing](#)
- × AIR DISTRIBUTION
 - > Valves and solenoid valves
 - > Valve manifolds
 - > Accessories
 - > VACUUM
 - > PROCESS AUTOMATION
 - > AIR TREATMENT
 - > PNEUMATIC ACTUATION
 - > AUTOMOTIVE
 - > FITTINGS

- [Back to drawing](#)
- × AIR DISTRIBUTION
 - × Valves and solenoid valves
 - > Spool valves
 - > Direct acting solenoid valves
 - > Poppet valves
 - > NAMUR valves
 - > Valve manifolds
 - > Accessories
 - > VACUUM
 - > PROCESS AUTOMATION
 - > AIR TREATMENT
 - > PNEUMATIC ACTUATION
 - > AUTOMOTIVE
 - > FITTINGS



The screenshot displays the PNEUFLUID software interface. On the left, a sidebar contains a '+Add item' button, a 'Free text' input field, and a 'Sheet:' section with tabs 1 through 5. Below this is a 'Drawing entities:' list with items like 'Supply| No product code', 'MM1| No product code', and 'RN1| No product code'. The main workspace shows a hydraulic circuit diagram with a cylinder component labeled 'MM1' and two solenoid valves labeled 'RN1' and 'RN2'. A mouse cursor is positioned over the cylinder component. On the right, a panel contains a 'Product code' input field with a search icon and a 'User notes' section with a refresh icon. A 'Log out' button is visible in the top right corner. Three red-bordered callout boxes provide instructions: '1. Single selection mode' points to the top toolbar; '2. Click on component' points to the cylinder; '3. Click here to define product code' points to the search icon in the product code field. At the bottom of the interface, a status bar displays technical details: 'Mode: single_select | Mouse: (208.05, 56.39) | Pointer: (207.50, 57.50) | Snap: (0.00, 0.00) | Pan: (-398.32, -64.37) | Zoom: 6 | Local storage usage: 162.11 KB | Pneumatix by Pneumax Spa, powered by Trix Srl'.



[Back to drawing](#)

PRODUCT CODE

Product code: 1390.125.STROKE1.01

Enable third-party code input

Please select stroke length (mm)

395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414

1. Click here

2. Start configuring cylinder technical features including stroke

Category	ISO 15552 cylinder
Cylinder configuration	double acting
Piston rod configuration	piston rod
Magnetic piston	yes
Stroke range (mm)	
Stroke (mm)	
Stroke increment (mm)	1
Ports size	G1/2"
Rod size (mm)	32
Max pressure (barg)	10

3. Click here to confirm the selected stroke

4. Return to drawing

Product configured

1390.125.400.01
MM1

The screenshot displays the PNEUFLUID software interface. On the left, there is a sidebar with a '+Add item' button, a search bar containing 'aa-P1-A/1', and a 'Free text' input field. Below this is a 'Sheet:' section with tabs numbered 1 to 5, and a 'Drawing entities:' list containing various components like 'Supply', 'MM1', 'RN1', 'RN2', 'RP1', 'RP2', 'KH1', and 'QM1'. The main workspace shows a pneumatic circuit diagram with components labeled MM1 (1390.125.400.01), RN1, RN2, QM1, RP1, and RP2. A mouse cursor is positioned over a component in the diagram, and another is over the search icon in the 'Product code' field on the right. The right sidebar contains 'Product code' and 'User notes' fields. At the bottom, a status bar provides technical details: 'Mode: single_select | Mouse: (217.46, 169.67) | Pointer: (217.50, 170.00) | Snap: (0.00, 0.00) | Pan: (-151.32, -222.37) | Zoom: 5 | Local storage usage: 162.11 KB | Pneumatix by Pneumax Spa, powered by Trix Srl'.

[Back to drawing](#)

3. Return to drawing

PRODUCT CONFIGURATOR

Product code

Enable third-party code input

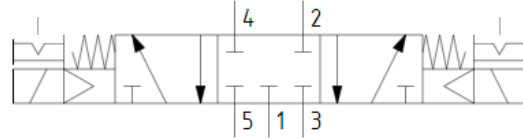
Please select an item:

1. Click here

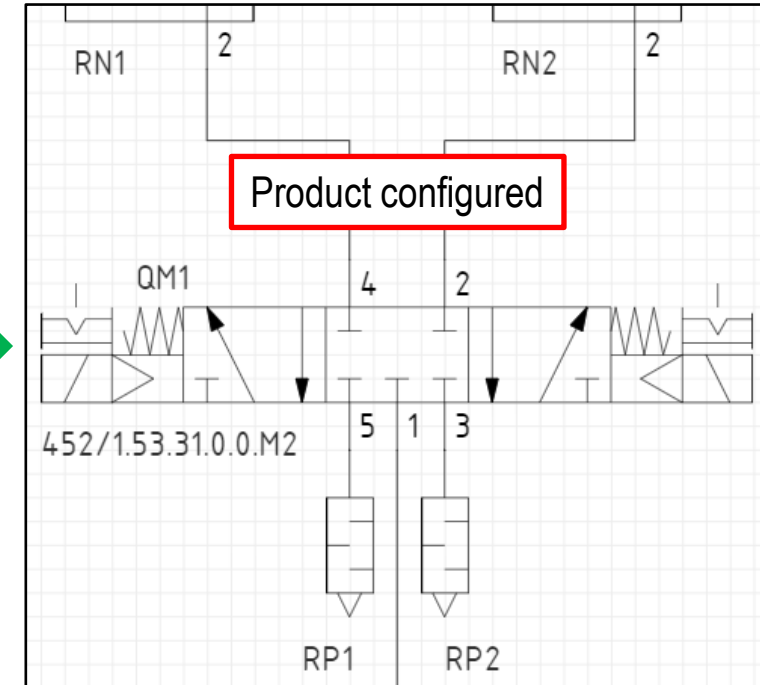
Solenoid pilot

- supplied separately, 90° configuration
- supplied separately, inline configuration

2. Start configuring product technical features



Function	5/3 valve
Configuration	closed centers
Actuation	electro-pneumatic
Working ports size	G1/2"
Max pressure (barg)	10
Temperature range (°C)	-5 ... +50
Temperature range (min)	3500
Fluid	clean unlubricated
Body material	aluminium
Miscellaneous	C-UR-US certified
Orifice diameter (mm)	15
Series	400



1. Single selection mode

2. Click on component

3. Click here to define product code

Product code

User notes

Mode: single_select | Mouse: (115.06, 226.07) | Pointer: (115.00, 225.00) | Snap: (0.00, 0.00) | Pan: (13.68, -445.37) | Zoom: 5 | Local storage usage: 162.11 KB | Pneumatix by Pneumax Spa, powered by Trix Srl

[Back to drawing](#)

PRODUCT 3. Return to drawing

Product code

Enable third-party code input

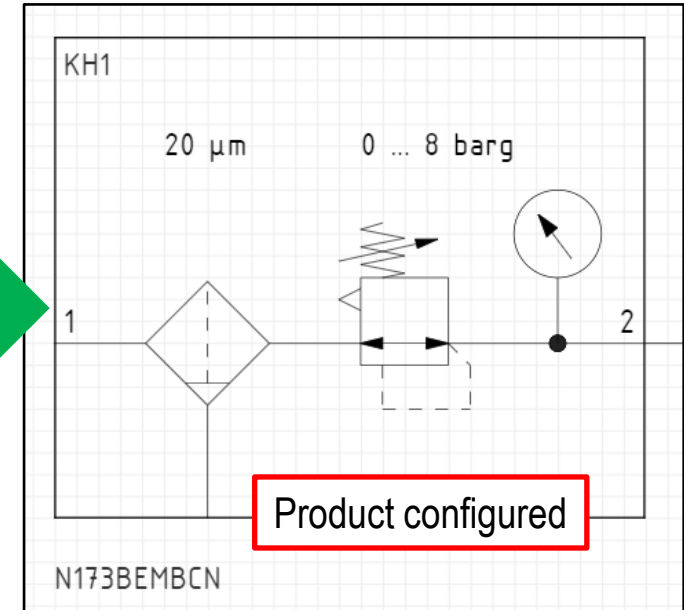
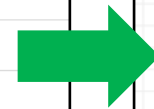
Please select an item 1. Click here

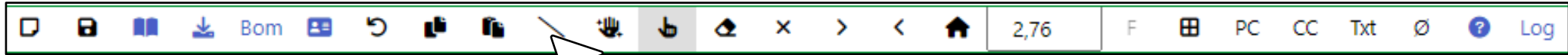
Miscellaneous

- PA bowl with engineered polymer guard
- PA bowl with metal guard
- PC bowl with engineered polymer guard
- PC bowl with metal guard
- metal bowl

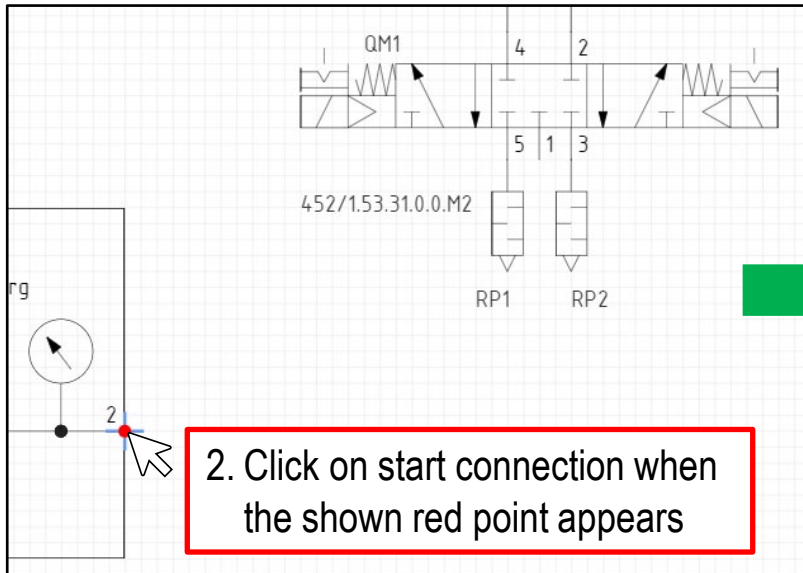
2. Start configuring product technical features

	Function	filter regulator with semi-automatic drain
	Configuration	relieving regulator with left-to-right flow pressure gauge
	Adjustment	manual
	Working ports size	G1/2"
	Pressure range (barg)	0 ... 8
		13
		-5 ... +50
		20
	Nominal flow rate (NI/min)	3300
	Fluid	compressed air
	Certification	II 3G Ex h IIC T5 Gc X, II 3D Ex h IIIC T98°C Dc X
	Body material	engineered polymer
	Connections material	metal threaded inserts
	Series	Airplus

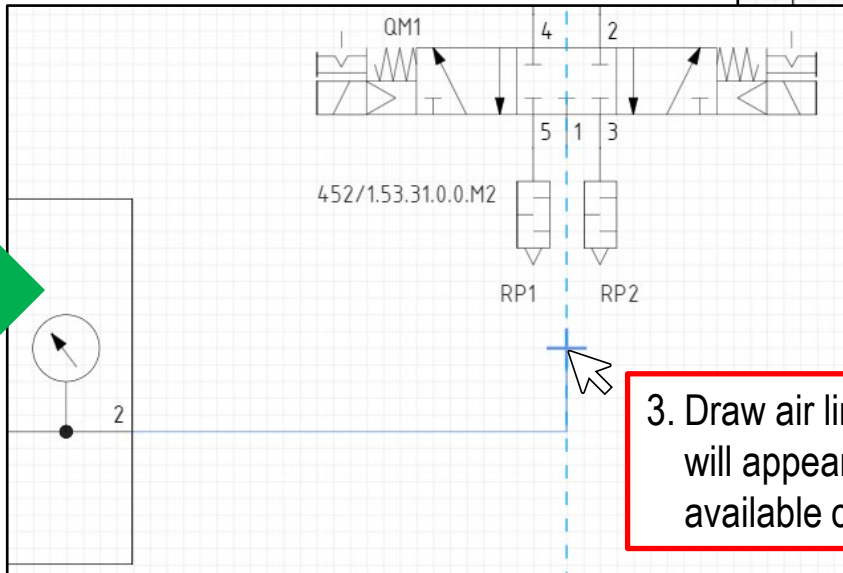
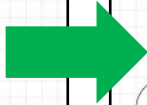




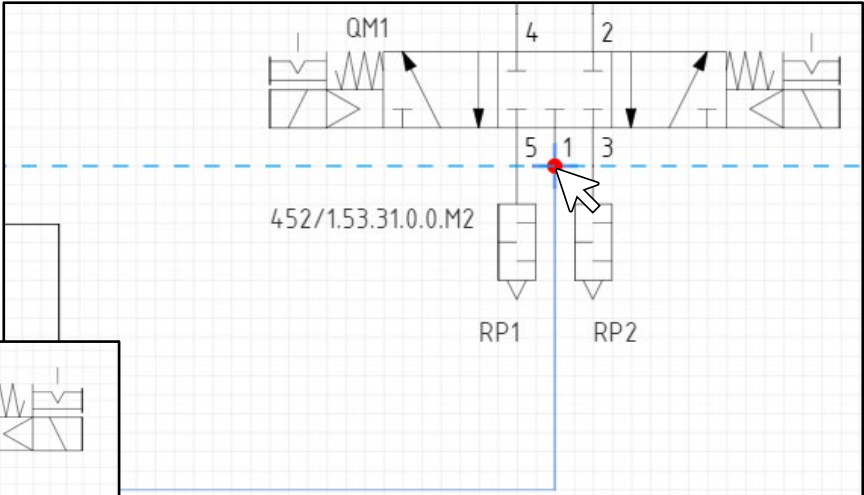
1. Click on *Insert new tubing* button to draw air lines



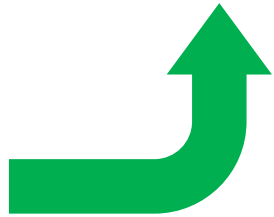
2. Click on start connection when the shown red point appears



3. Draw air line path (dashed lines will appear to guide towards available connections)



4. Click on end connection when the shown red point appears



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1. Single selection mode

2. Click on an air line vertex when the shown red point appears

3. Click here to define product code

4. Type tube length (optional)

5. Choose whether supply or pilot air line is concerned

Mode: single_select | Mouse: (190.46, 216.07) | Pointer: (190.00, 215.00) | Snap: (190.00, 215.00) | Pan: (13.68, -445.37) | Zoom: 5 | Local storage usage: 162.11 KB | Pneumatix by Pneumax Spa, powered by Trix Srl

1. Click here

2. Start configuring product technical features

3. Return to drawing

Product configured

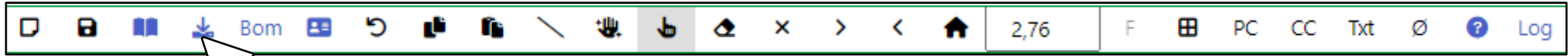
Product code	TPA1612BU
Application	other
Function	tubing
Tubing O.D. (mm)	ø16
Tubing I.D. (mm)	ø12
Min/Max temperature (°C)	-40 ... +65
Material	polyurethane/co
Colour	light blue
Family code	TPAY
Product code	TPA1612BU
Product link	https://pneuma
Full description	FUNCTION: tubi (°C): -40 ... +65.
Family code	TPAY

452/1.53.31.0.0.M2
RP1
TPA1612BU
ø16/12 (10 m)

The screenshot shows the PNEUFLUID software interface with a pneumatic diagram. The diagram includes a central cylinder (MM1) and two solenoid valves (RN1 and RN2) connected to air sources (TPA1612BU). Three numbered steps are overlaid on the interface:

- 1. Click here to add new free text to the pneumatic diagram**: A red box highlights the 'Free text' button in the left-hand toolbar.
- 2. Place text on desired position**: A red box highlights a blue 'Enter text' button placed on the grid near the cylinder.
- 3. Type free text**: A red box highlights a text input field in the top right corner with a mouse cursor pointing to it.

At the bottom of the interface, the following status information is visible: Mode: single_select | Mouse: (255.76, 34.91) | Pointer: (255.00, 35.00) | Snap: (0.00, 0.00) | Pan: (-689.32, -209.37) | Zoom: 7 | Local storage usage: 162.17 KB | Pneumatix by Pneumax Spa, powered by Trix Srl



1. Click here

EXPORT FILE

Download PNX Download PDF/DXF

2. Download a PNEUFLUID file (*.pnx)

EXPORT FILE

Download PNX Download PDF/DXF

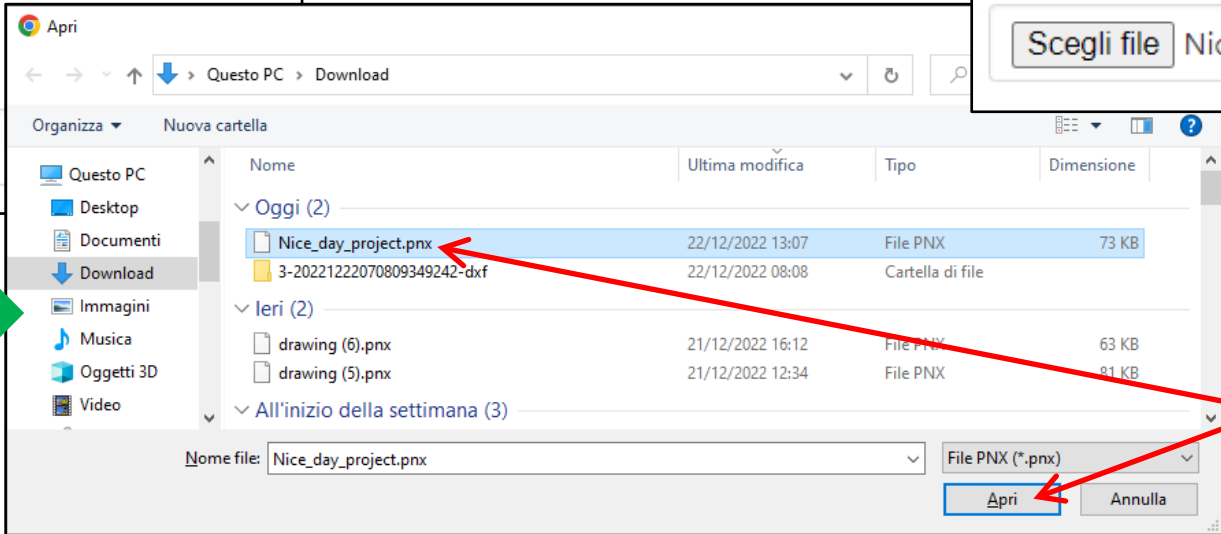
IMPORT FILE

Scegli file Nice_day_project.pnx Import PNX

IMPORT FILE

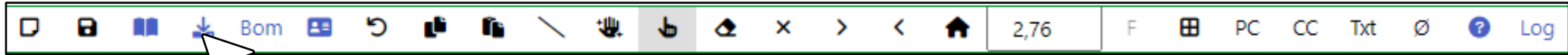
Scegli file Nessun file selezionato

3. Upload a PNEUFLUID file (*.pnx)



5. Complete the import procedure

4. Select and open a pnx file stored locally



1. Click here



EXPORT FILE

Download PNX Download PDF/DXF

IMPORT FILE

Scegli file Nessun file selezionato Import PNX

2. Download current drawing dxf/pdf files



EXPORT FILE

[Click here to download PDF file](#)

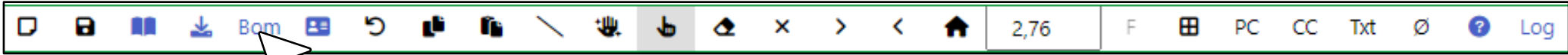
[Click here to download DXF file](#)

IMPORT FILE

Scegli file Nessun file selezionato Import PNX

3. Complete pdf download

3. Complete dxf download

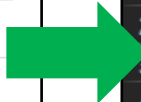


Click here to create a bill of materials (BOM)



Position	Product code	Description	Quantity
1	1390.125.400.01	double acting with piston rod	1
2	6.01.12N	flow control unidirectional 1-to-2 valve	2
3	N173BEMBCN	filter regulator with semi-automatic drain	1
4	452/1.53.31.0.0.M2	5/3 electro-pneumatic closed centers valve	1
5	TPA1612BU	tubing	20 m

Export CSV



	A	B	C	D
1	Position	Product Code	Description	Quantity
2	1	1390.125.400.01	double acting with piston rod	1
3	2	6.01.12N	flow control unidirectional 1-to-2 valve	2
4	3	N173BEMBCN	filter regulator with semi-automatic drain	1
5	4	452/1.53.31.0.0.M2	5/3 electro-pneumatic closed centers valve	1
6	5	TPA1612BU	tubing	20 m

Click here to export BOM csv file

[Back to drawing](#)

3. Return to drawing

PRODUCT CONFIGURATOR

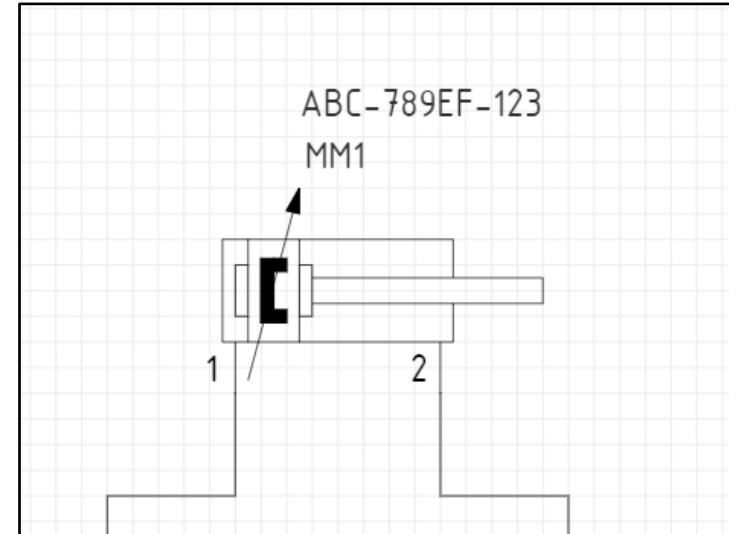
Product code

ABC-789EF-123

2. Type third-party product code

Enable third-party code input

1. Flag to enable third-party product code manual input



BILL OF MATERIALS

Position	Product code	Description	Quantity
1	ABC-789EF-123	Third-party code	1
2	6.01.12N	flow control unidirectional 1-to-2 valve	2
3	N173BEMBCN	filter regulator with semi-automatic drain	1
4	452/1.53.31.0.0.M2	5/3 electro-pneumatic closed centers valve	1
5	TPA1612BU	tubing	20 m

[Export CSV](#)