

# NetSkeme® March 2023

## What's New

The screenshot displays the NetSkeme software interface. On the left, a hydraulic schematic diagram is shown with various components labeled with callouts (1-10). The diagram includes a pump, valves, cylinders, and filters. On the right, a table lists the components used in the schematic.

ITEM	QTY	MODEL CODE	DESCRIPTION	MANUFACTURER
1	1	LN013	SHUT OFF AND BALL VALVE - LINE MOUNTED	BALL VALVES INC
2	1	PG2899	PRESSURE SENSOR WITH ANALOGUE DISPLAY	IFM
3	1	RDBALAN	DIRECT ACTING PRESSURE RELIEF VALVE	SUN HYDRAULICS
4	2	A02A2-PZN	DIRECT ACTING PRESSURE RELIEF VALVE	PARKER
5	2	DF-CPD-04-0100-N	PILOT TO CLOSE, CHECK VALVE, GUIDED BALL	DELTA POWER
6	2	2FRM6K2-1X/6QRV	FLOW CONTROL VALVE	BOSCH REXROTH
7	1	N5 K-3 25 X8.00-N-1.38-2-T-H-R-1-1	CYLINDER	EATON
8	1	45VQHS21AS11C30L	PUMP FIXED SINGLE	EATON
9	1	DSH125-59V	DIRECTION CONTROL VALVE	PARKER
10	1	LPS04SP15	FILTER	DONALDSON, FILTERS

At the bottom of the interface, there is a metadata table:

Assemble Date	Revision	Owner	Status
----	----	Schematic	Pending Approval
Created by	File	Sample Circuit	----
Approved by	----	----	----
----	----	----	----
----	11/16/2020	en	1/1

# NetSkeme® March 2023 What's New

## Enhanced FluidPowerTools.com

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# Enhanced FluidPowerTools.com

## Enhanced Model Data Search



# Enhanced Model Data Search

Search FluidPowerTools.com capabilities expanded

The screenshot shows the 'Insert NetSkeme Symbol' dialog box with three main sections:

- Search Filters:** A 'Manufacturer' dropdown menu set to 'All Manufacturers' and a 'Model Code' search field containing 'DG4V\*'. A red box highlights these two fields.
- Search Results:** A table listing search results with columns for 'Model Code', 'Rated Flow', and 'Manufacturer'. The row for 'DG4V-3-0B-M-\*-D-\*-60' is highlighted in blue. A red box highlights the entire table.
- Linked Symbols:** A section showing three hydraulic symbols for the selected model code. A red box highlights this section.

At the bottom of the dialog, it says 'Drag and Drop symbol into drawing.'

Filter by Manufacturer to search from. Also, can search by Model Code or Model Family

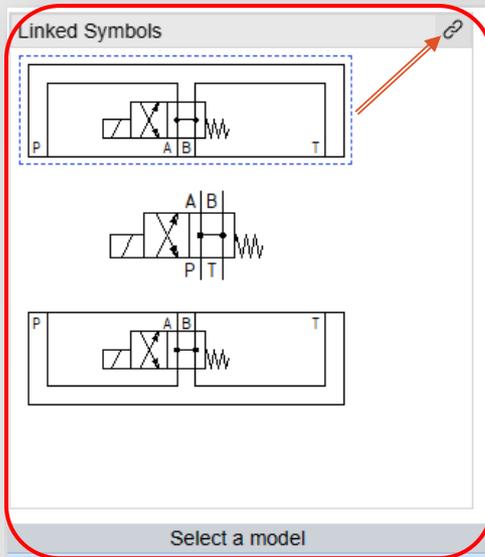
Select from available search results

View available linked symbols for the selected Model Code

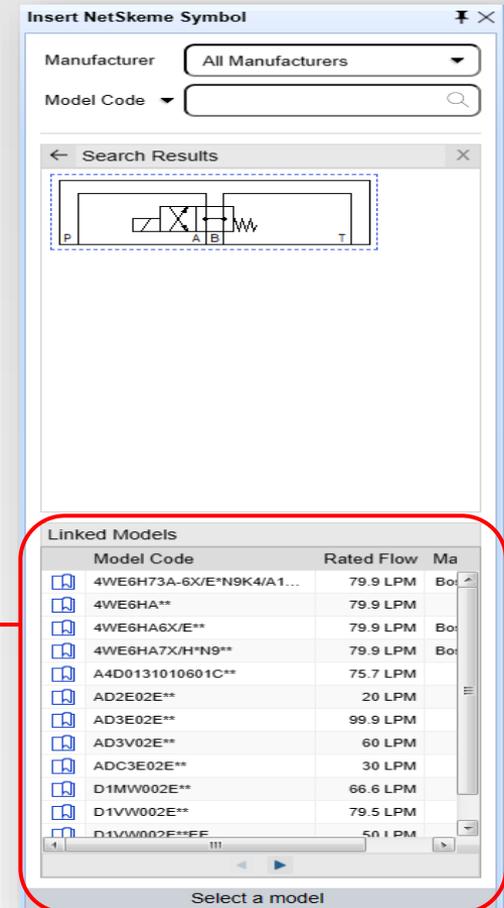


# Enhanced Model Data Search

Search for Linked Models for selected symbol



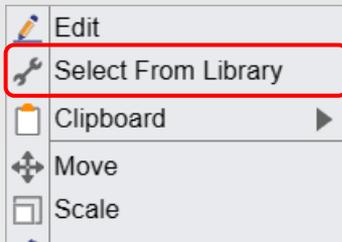
Search for other manufacturer linked models for selected symbol



View other manufacturer models for selected symbol

# Select From Library

## Search Models available for a Symbol



Initiate Select from Library command through the right click drop-down menu on a symbol

Set search criteria to assign model data, including the Rated Flow, Manufacturer, and specific Model Families

 The 'Select From Library' dialog box is shown with the following search criteria:
 

- Model Family: 4WE6, A4D013, AD3E
- Model Code: [Empty]
- Manufacturer: Any
- Rated Flow (LPM) +/- 10%: [Empty]
- Rated Pressure (bar) >=: [Empty]

 The 'Model linked to symbol' radio button is selected. A search results table is displayed below:
 

Model Code	Model Family	Manufacturer	Flow (LPM)	Pressure (bar)	Cavity
4WE6C**	4WE6	Hydac	79.9	350	D03
4WE6C6X/E**	4WE6	Bosch Rexroth	79.5	345	D03
4WE6C7X/H*N9**	4WE6	Bosch Rexroth	60.6	310	D03
4WE6D**	4WE6	Hydac	79.9	350	D03
4WE6D6X/E**	4WE6	Bosch Rexroth	79.5	345	D03
4WE6D73-6X/E*N9K4/A12**	4WE6	Bosch Rexroth	60.6	345	D03

Select from the available search results to assign Model Data to the selected symbol

**Note:** Select from library does not support Custom Netskeme Symbols.

# New Model Data Fields

Store more data with each symbol

The 'Edit Model' dialog box contains the following fields:

Field Name	Value
Exclude from Parts List	<input type="checkbox"/>
Item ID	1
Model Code	4WE6C**
Description	Direction Control Valve
Manufacturer	Hydac
Rated Flow	79.9 LPM
Rated Pressure	350 bar
Cavity/Footprint/Interface	D03
Voltage	

Buttons at the bottom: Data Sheet, OK, Cancel.

Select model data from the library and assign it to the selected symbol

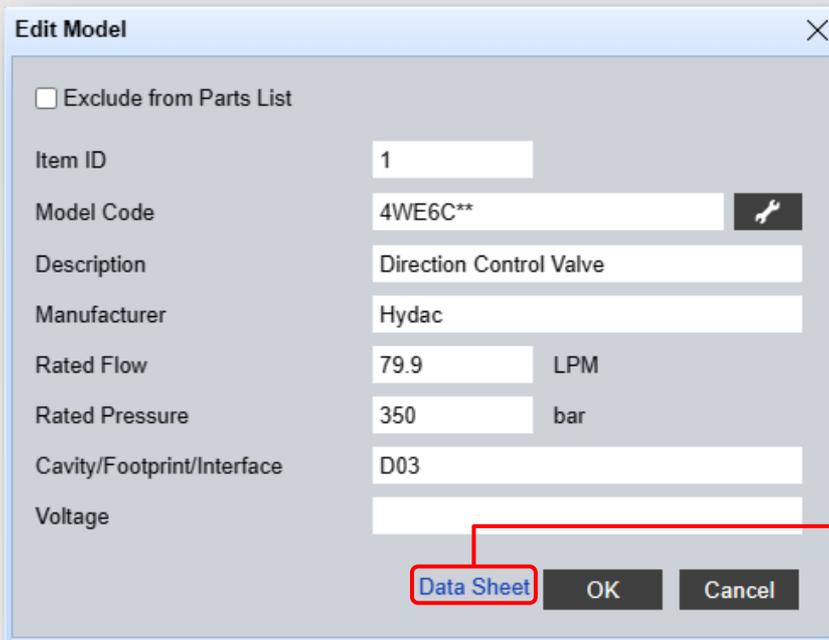
Expanded Model Data fields within the Edit command to assign more in-depth metadata provided by FluidPowerTools.com

## Note:

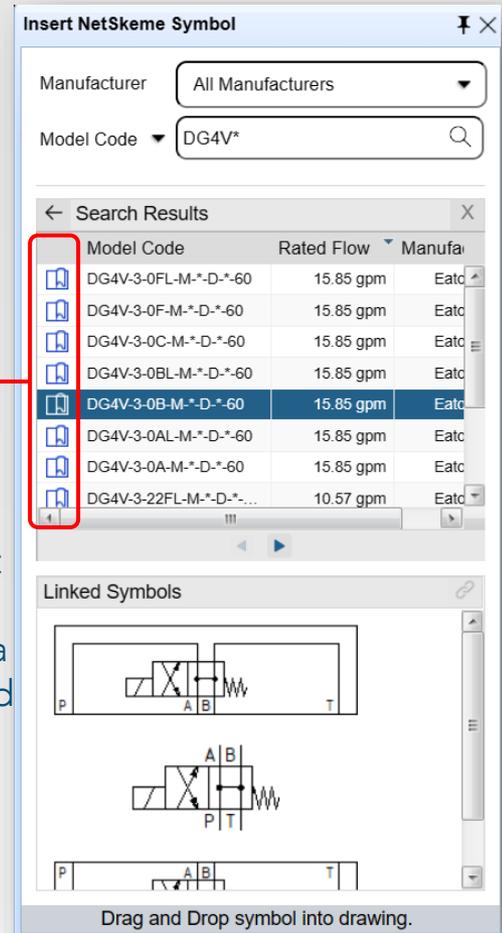
- Select from library does not support Custom Netskeme Symbols.
- Model Data fields vary by type of symbol/component.

# Data Sheets

Easily locate Data Sheets from FluidPowerTools.com



View available data sheets while searching for model data on FPT.com



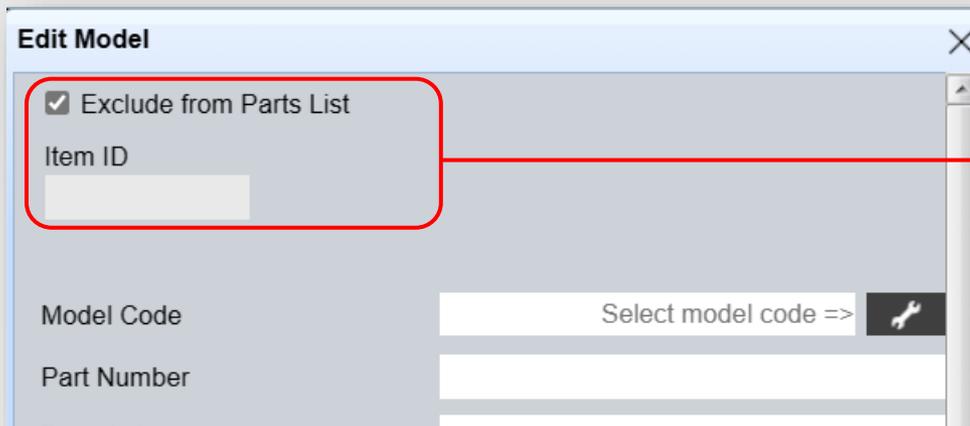
View the linked data sheet for a symbol that has been assigned model data through the Edit command

# Item ID Enhancements

Exclude from Parts List and Merged Models

# Exclude From Parts List

Remove components from the parts list

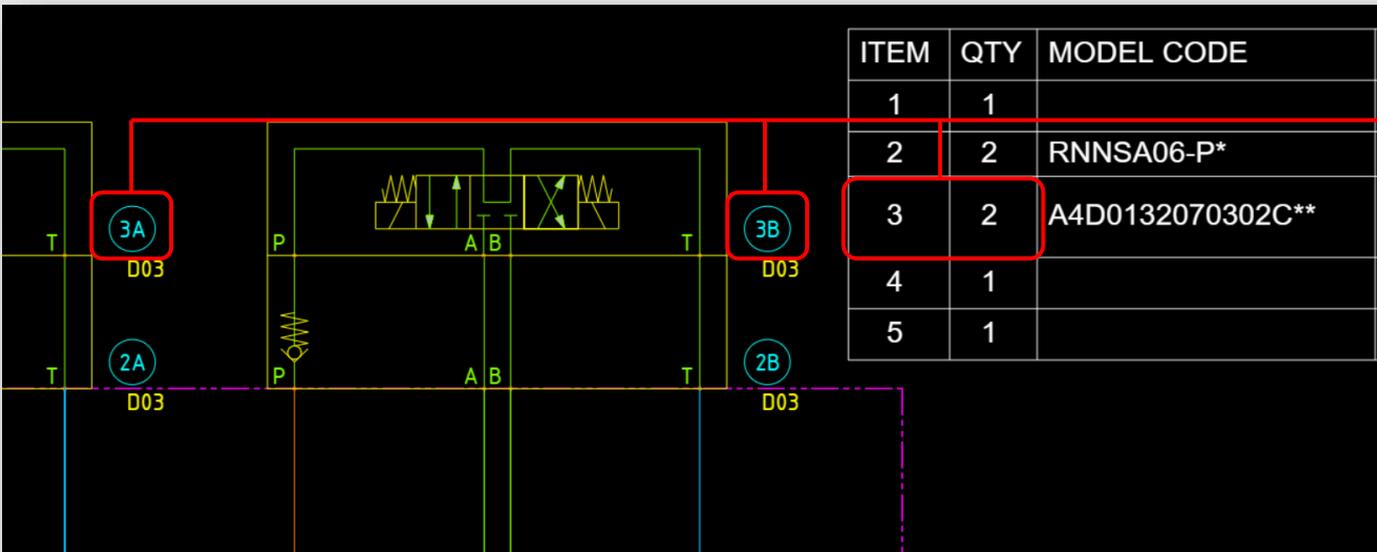


Easily exclude a component from the automatically created Parts List

**Note:** The item ID field will become uneditable and the Item ID will be removed from the drawing if the Exclude from Parts List checkbox is checked.

# Group Identical Components

## Identical Components grouped



Components with identical model data will be automatically assigned an alpha-numeric Item ID and grouped within the automatically created Parts List

### Notes:

- The Model Code, Manufacturer, and Description fields must be identical for the Parts List to group the components.
- The Item ID will follow an alpha-numeric numbering scheme automatically through the Reassign Item ID command.
- The Parts List will automatically update after running the Reassign Item ID command.

# New User Interface

Redesigned Ribbon and Context Menu



# New Ribbon Menu Icons

New and Improved Icons within the Ribbon Menu & Context Menu for easy comprehension

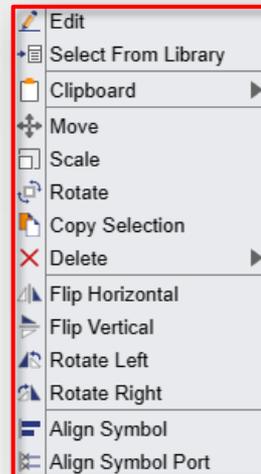
## Schematic Mode



## Symbol Build Mode

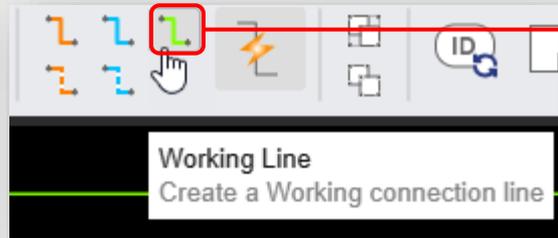


## New Context Menu Icons

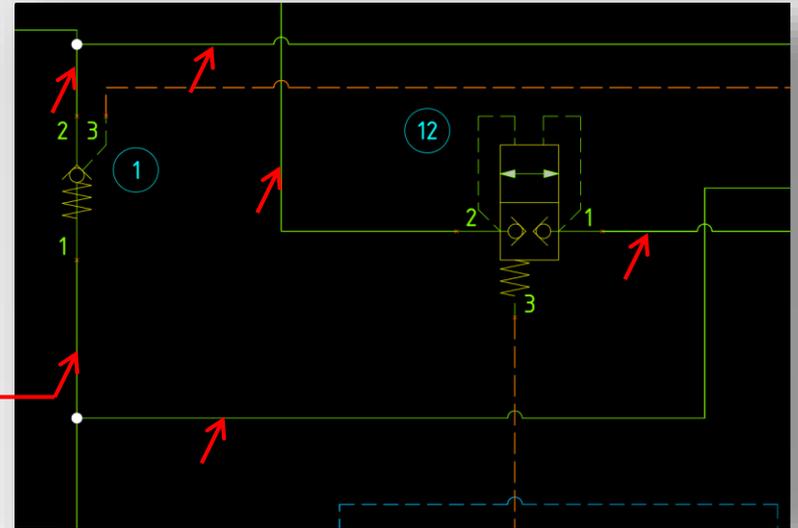


# Working Lines

## New Working Connection Line



New working line command available to quickly create working lines within the canvas



**Note:** The working lines and all other connection lines follow the ISO-1219 standard.

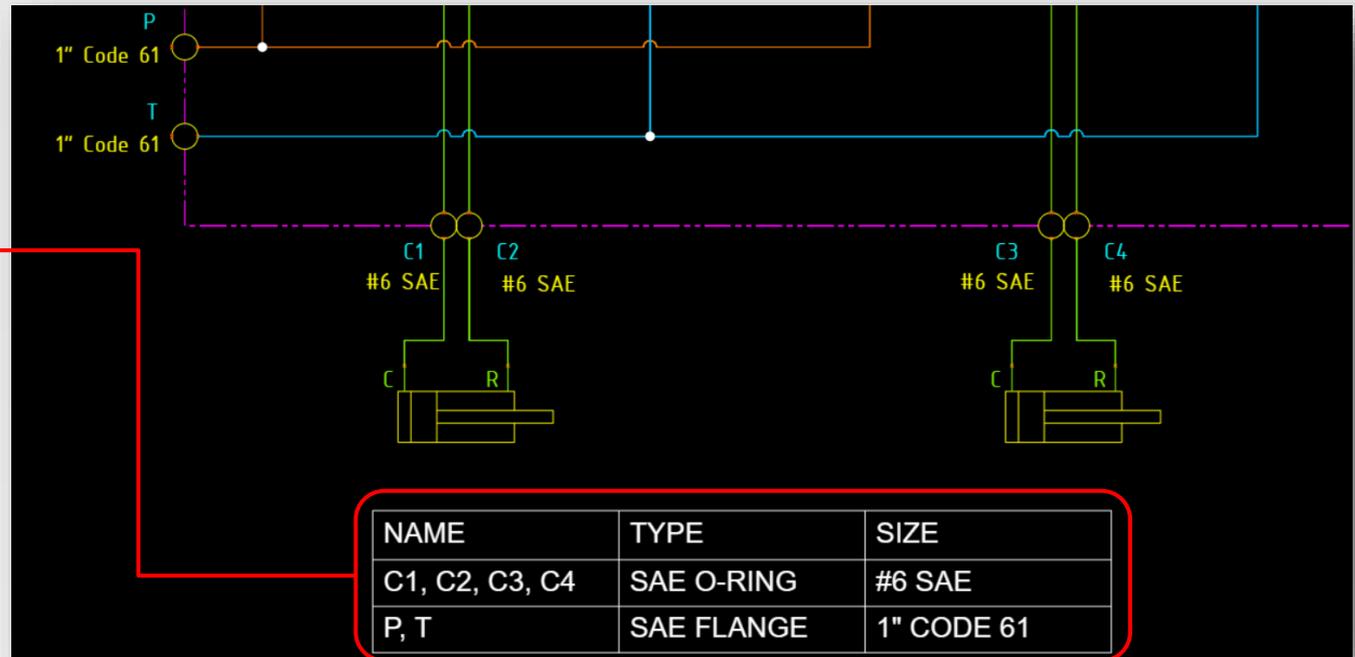
# Ports List

## Create and Insert an automatic Ports List



Create an automatic ports list based on model data assigned to external port symbols

The automatically created ports list will contain the Name, Type, and Size of each port. Each size will be listed once within the table.



**Note:** The Ports List will be placed in the top left corner of the title block by default.

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## Circuits in the Cloud

USA: +1 (248) 649-9550 [sales@netskeme.com](mailto:sales@netskeme.com)

Europe: +39 328 695 7001 [carlo.molon@VESTusa.com](mailto:carlo.molon@VESTusa.com)

