

# Knižnice programu FluidSIM (obsah aj podrobne) - HYDRAULIKA :)

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## Hydraulic

[Supply Elements](#)

Pump unit (simplified)

Fixed displacement pump

Variable displacement pump

Tank

Pump unit

Proportional amplifier, 1-channel

Proportional adjustable pump

Reservoir

Reservoir

Diaphragm accumulator with shutoff block

Hose with quick-action coupling

Filter

Cooler

Heater

[Actuators](#)

Distance rule

Single acting cylinder

Double acting cylinder

Double acting cylinder with shock adsorber at stroke end

Double acting cylinder with in and out piston rod and shock adsorber at stroke end

Hydraulic motor

Semi-rotary actuator

Valves

[Configurable directional valves](#)

2/h Way Valve

3/h Way Valve  
4/h Way Valve  
5/h Way Valve  
6/h-way directional valve  
8/h-way directional valve

#### Frequently Used Way Valves

##### [Mechanically Operated](#)

4/3-way hand-lever valve with shutoff position  
3/2-way hand-lever valve  
4/2-way hand-lever valve  
4/2-way hand-lever valve  
4/3-way hand-lever valve with shutoff position  
4/3-way hand-lever valve with bypass position  
4/3-way hand-lever valve with bypass position  
4/3-way hand-lever valve with floating position  
4/3-way hand-lever valve with floating position  
2/2-way stem-Actuated valve  
2/2-way stem-Actuated valve

##### [Solenoid Operated](#)

Valve solenoid  
4/2-way solenoid valve  
4/2-way solenoid valve  
4/3-way solenoid valve with shutoff position  
4/3-way solenoid valve with shutoff position  
4/3-way solenoid valve with bypass position  
4/3-way solenoid valve with bypass position  
4/3-way solenoid valve with floating position  
4/3-way solenoid valve with floating position

##### [Shutoff Valves and Flow Control Valves](#)

Nozzle  
Throttle valve  
Orifice  
Variable orifice  
Shutoff valve  
One-way flow control valve  
Check valve  
Check valve, spring loaded  
Check valve with pilot control  
Spring loaded pilot operated check valve  
Pilot to close check valve  
Pilot to close spring loaded check valve  
2-way flow control valve  
3-way flow control valve  
Shuttle valve  
Two-pressure valve  
Flow divider valve

##### [Pressure Control Valves](#)

Pressure relief valve  
Pressure relief valve with pilot control  
Pressure relief valve with pilot control  
Shutoff/counteracting valve  
Pressure reducing valve  
Variable pressure reducing valve  
3-way pressure reducing valve  
Closing pressure compensator  
Variable closing pressure compensator  
Opening pressure compensator

Variable opening pressure compensator

Opening cartridge valve

Opening cartridge valve

Closing cartridge valve

#### [Proportional valves](#)

Proportional amplifier, 2-channel

4/3-way proportional valve

Proportional amplifier, 1-channel

Proportional throttle valve

Proportional pressure relief valve

Pilot-operated proportional pressure relief valve

Pilot-operated proportional pressure relief reducing valve

Proportional valve solenoid, position controlled

4/3-way regulating valve

#### [Measuring instruments and Sensors](#)

Differential pressure gauge

Manometer

Pressure indicator

Flow meter

Flow meter

Analog flow meter

Pressure sensor

Analog pressure sensor

Flow meter

Electrical controls

#### [Actuators](#)

DC Motor

#### [Power Supply](#)

Electrical connection 0V

Electrical connection 24V

Function generator

Setpoint value card

#### [Measuring instruments and Sensors](#)

Pressure sensor

Analog pressure sensor

Analog flow meter

Ampere meter

Voltmeter

Displacement encoder

Indicator light

Buzzer

#### [Relays](#)

Relay

Relay with switch-on delay

Relay with switch-off delay

Relay counter

Valve solenoid

Proportional amplifier, 1-channel

Proportional amplifier, 2-channel

Proportional valve solenoid, position controlled

Starting current limiter

Switches

#### [Manually Operated](#)

Pushbutton (make)

Detent Switch (make)

Pushbutton (break)

Detent Switch (break)

Pushbutton (changeover)  
Detent Switch (changeover)

#### [General Switches](#)

Make switch  
Break switch  
Changeover switch

#### [Proximity Switches](#)

Capacitive proximity switch  
Magnetic proximity switch  
Inductive proximity switch  
Optical proximity switch

#### [Controller](#)

Comparator  
PID controller  
Status controller

#### [Ladder Symbols](#)

Electrical connection 0V  
Electrical connection 24V  
Pushbutton (make, Ladder)  
Pushbutton (break, Ladder)  
Pushbutton (changeover, Ladder)  
Make switch (Ladder)  
Brake switch (Ladder)  
Valve solenoid  
Relay (Ladder)  
Relay with switch-off delay (Ladder)  
Relay with switch-on delay (Ladder)  
Indicator light

#### [Digital Technique](#)

Logic module  
Logic module  
Lo level  
Hi level  
Input  
Output  
Buffer  
AND  
OR  
NOT  
AND with edge triggering  
NAND  
NAND with edge triggering  
NOR  
XOR  
Latching relay  
Symetric clock generator  
Asynchronous pulse generator  
Pulse relay  
On delay  
Retentive on delay  
Off delay  
On/off delay  
Wiping Relay – Pulse Output  
Edge-triggered wiping relay  
Up and down counter  
Frequency trigger  
Timer switch

### [EasyPort/OPC/DDE](#)

- FluidSIM Input Port
- FluidSIM Output Port

### [GRAF CET](#)

- Step
- Transition
- Action
- Synchronization
- Partial GRAFCET
- GRAF CET I/O

### [Miscellaneous](#)

- State Diagram
- Functional diagram
- Terminal assignment diagram
- Parts List
- Text
- Bitmat
- Circle
- Ellipse
- Square
- Rectangle

[Knižnice programu FluidSIM \(obsah aj podrobne\) - PNEUMATIKA](#)