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

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- 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

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- 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 wtih 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)

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- 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

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EasyPort/OPC/DDE
- FluidSIM Input Port
- FluidSIM Output Port

GRAFCET
- Step
- Transition
- Action
- Synchronization
- Partial GRAFCET
- GRAFCET I/0

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

Knižnice programu FluidSIM (obsah aj podrobne) - PNEUMATIKA

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