Knižnice programu FluidSIM (obsah aj podrobne) - PNEUMATIKA :)

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Pneumatic

- Supply Elements
  - Compressor
  - Variable compressor
  - Air service unit
  - Compressed air supply
  - Air service unit, simplified representation
  - Air pressure reservoir
  - Air pressure reservoir
  - Air filter
  - Manual drain filter
  - Automatic drain filter
  - Manual drain
  - Automatic drain
  - Lubricator
  - Cooler
  - Air Dryer
- Actuators
  - Distance rule
  - Single acting cylinder
  - Cylinder, Single-acting, Return Spring in Piston Chamber
  - Double acting cylinder
  - Cylinder without piston rod
  - Cylinder with two piston rods

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- Multiple Position Cylinder, Double-acting
- Air motor
- Semi-rotary actuator
- Vacuum suction nozzle
- Sucker
  - Frequently used cylinders
    - Linear Drive, Pneumatic, with Shape-fiiting Adaptor
    - Linear Drive, Pneumatic, with Shape-fitting Adaptor
    - Linear Drive with solenoid coupling
    - Cylinder, Double–acting, with Two Piston Rods and Single Trestle
    - Cylinder, Double–acting, with Two In and Out Piston Rods and Double Trestle
    - Double acting cylinder
    - Single acting cylinder
    - Cylinder, Double-acting, with in and out Piston Rod
    - Cylinder, Single-acting, Return Spring in Piston Chamber

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
    - 3/2-way valve with pushbutton
    - 3/2-way valve with pushbutton
    - 3/2-way valve, manually operated
    - 5/2 valve with selection switch
    - 3/2-way roller lever valve
    - 3/2-way idle return roller lever valve
    - Pneumatic proximity switch, solenoid operated
    - Pressurizing valve
    - 3/2-way roller lever valve
  - Pneumatically Operated
    - 3/2-way valve, pneumatically operated
    - 3/2-way valve, pneumatically operated
    - 5/2-way valve, pneumatically operated
    - 5/3-way valve, pneumatically operated
    - Low pressure amplifier unit 2 compartments
    - 5/2-way impulse valve, pneumatically operated
  - Solenoid Operated
    - Valve Solenoid
    - 3/2-way solenoid valve
    - 3/2-way solenoid valve
    - 5/2-way solenoid valve
    - 5/2-way solenoid impulse valve
    - 5/3-way solenoid valve
    - 5/2-way solenoid valve
    - 5/2-way solenoid valve
- Shutoff Valves and Flow Control Valves
  - Pneumatic timer, normally closed
  - Pneumatic timer, normally open
  - Nozzle
  - Throttle valve
  - Orifice
  - Variable orifice

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- One-way flow control valve
- Shuttle valve
- Two pressure valve
- Quick exhaust valve
- Check valve
- Spring loaded check valve
- Check valve with pilot control
- Spring loaded pilot-operated check valve
- Pilot to close check valve
- Pilot to close spring loaded spring loaded valve
- Pneumatic counter

Pressure Control Valves
- Pressure reducing valve
- Variable pressure reducing valve
- Pressure reducing valve
- Variable pressure reducing valve
- Pressure control valve with manometer
- Closing pressure compensator
- Variable closing pressure compensator
- Opening pressure compensator
- Variable opening pressure compensator

Proportion valves
- Proportional 5/3-way directional valve
- Proportional valve solenoid, position controlled

Valve Groups
- Stepper Module, type TAA
- Stepper Module, type TAB
- Two-hand control block
- Quickstepper
- Pressure sequence valve
- Time delay valve, normally closed
- Time delay valve, normally open
- Adjustable vacuum actuator valve

Measuring Instruments and Sensors
- Manometer
- Differential pressure gauge
- Pressure indicator
- Flow meter
- Flow meter
- Analog flow meter
- Pressure sensor
- Differential pressure switch
- Ring sensor
- Analog pressure sensor

Electrical Controls

Actuators
- Solenoid
- 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

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- Pneumatic to electric converter
- Displacement encoder
- Voltmeter
- Ampere meter
- Indicator light
- Buzzer

Relays
- Relay
- Relay with switch-on delay
- Relay wtih switch-off delay
- Relay counter
- Valve solenoid
- Proportional valve solenoid, position controlled
- Starting current limiter

Switches

Manually Operated
- Pushbutton (make)
- Detent Switch (make)
- Detent Switch (break)
- Pushbutton (changeover)
- Pushbutton (break)
- Detent Switch (changeover)

General Switches
- Break switch
- Make 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

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- 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/CPD/DDE

- Multi-pin plug distributor
- Universal–I/0
- 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
- Square
- Circle
- Elipse
- Rectangle

Knižnice programu FluidSIM (obsah aj podrobne) - HYDRAULIKA