ES05 – The Essential System

The valve family without bells and whistles
ES05 - The Essential System

At a Glance

- **Easy:**
  - Modular building system
  - One tool concept

- **Fast:**
  - Component availability
  - Documentation support

- **Profitable:**
  - Reduced stock value
  - Cost focused

- **Flexible:**
  - Extendable
  - Exchangeable
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Essential Markets

- Elementary pneumatic applications
- Industry automation
- Distribution
- Tailor made machines
- In-house manufacturing
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Overview – Valve System

Flow rate
Up to 610 NL/min

Integrated fittings
Metric D 8 mm
Inch D 3/8"

Pressure range
3 to 8 bar (internal)
0 to 8 bar (external)

Valve function
5/2 SR
5/2 DS
2x3/2 CC
2x3/2 OO
5/3 CC
Blanket plate
Re-supply plate

Connectivity
D-SUB (25-pins)
Single wire (Form CI)
Fieldbus via AES
IO-Link

Protection class
IP 50
IP 65 (single wired)

High tech polymer
Robust and light weight

LED Indication
Switching on time
<20 ms

Dimensions
100mm / 86mm / X*18+69mm

Up to 12 valves
Up to 24 solenoids

Up to 12 valves
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Overview – Inline Valve

- Integrated fittings
  Metric D 8 mm
  Inch D 3/8"

- Protection class
  IP 65 with mounted connector

- Turntable Coil
  In 90° steps

- Pressure range
  3 to 8 bar

- Dimensions
  105mm / 80mm / 18.8 mm

- Connectivity
  Form C1

- Manual override
  push

- Flow rate
  Up to 610 NL/min
Connectivity – Parallel- / Individual - wiring

- **D-Sub - connection:**
  - D-Sub, 25-pin
  - Type A (Valve 1: 1+2, GND: 25)
  - Type B (Valve 1: 1+14, GND: 13)
  - Single wiring for individual pilots possible
    - Form CI (9.4 mm)

- **Single wiring:**
  - Form CI (9.4 mm)
Connectivity - Fieldbus

- **Fieldbus via AES:**
  - Profibus DP
  - CAN Open
  - DeviceNet
  - Profinet IO
  - Ethernet IP
  - Ethercat
  - Powerlink

- **I/O-Functionality via AES:**
  - Digital I/O
  - Analog I/O
  - Special modules

- **IO-Link:**
  - M12 connection
  - IO-Link device type B
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Modular Building System & Assembly Concept

- Component Overview
  - Approx. 25 order numbers (metric or inch)
  - Endplate kits
  - Base plates
  - Valve functions
  - Pilot valves
  - Tie rods
  - Individual Inline valve

- One-Tool-Concept
  - Same screw head – Torx TX10
  - Same torque – 1.0 Nm

- Essential Test Box
  - End-of-line test equipment for own assembly
  - Electric & pneumatic test of valve functionality
  - Leakage test
  - Low invest
  - High quality reliability
Online Configuration and Documentation

- **Configurator**
  - Free-of-charge
  - Easy step-by-step configuration
  - Save own configuration
  - Download of project documentation

- **Documentation content**
  - 2D, 3D data
  - Pneumatic circuit diagram
  - Assembly instruction and drawing
  - Bill of material / Spare part list
  - Manual
  - Free-of-charge-download

- **Factory-delivered Systems**
  - Individual order number
  - QR-code
    - Link to configurator data
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Distributor Concept

- **Starter Packages**
  - Components for initial stock
  - Different sizes (5 & 20 systems)
  - Metric & Inch version
  - Essential Test Box
  - Sample case
  - Advertisement tools
  - Overview of content of starter package and brochures

- **Trainings**
  - Sales training
  - Hands-on training
  - Assembly training
  - Qualification training including certificate
Strength and Advantages for your Benefit

- Modular building system
  - Low numbers of parts
- Electrical Connectivity
  - Single wire, D-SUB, Fieldbus
- Simple assembly concept
  - One tool concept
- AVENTICS configurator
  - Product documentation

- Easy assembly
- Stock optimization
- High flexibility
- High quality
- In-house production
- Almost all necessary documentation available
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ES05 – It’s that easy