

## The new Compact Valve Terminal Systems from Rexroth Series HF04 and LP04

Small in size, but high flow



# The compact high-flow solution

## Series HF04

**HF04 and LP04 are two new valve terminal systems in the area of 200-400 l/min.**

Both systems are modular and use the same valve, but they differ in the manifold system. Thereby they fulfil a wide range of applications and customer requirements.

### **HF04 – The new member of the High-Flow family**

It's ideal for space-limited applications where high-flow is required. Examples of industry sectors include paper and printing, automation and general mechanical engineering. Simple expansion and valve replacement without disassembly enable easy handling. All pneumatical and electrical connections are in the same direction.

The proven manifold design from the HF03 and HF02 is transferred to the HF04, including the aluminum end pieces and the reliable electrical connections. This makes the valve system insensitive to vibrations and temperature fluctuations.

The number of valves can be varied from 2 to 12 in two-valve increments. The electrical connection consists of either the D-sub or field bus.

### **Technical data for HF04**

- 6 mm push-in fittings for port 2 and 4.
- Working pressure internal pilot control; 3–8 bar.
- Working pressure external pilot control; vacuum –1 to 10 bar.
- Plastic double sub-bases.
- Aluminum end plates.
- 25-pin D-sub connector.
- Field bus protocols: PROFIBUS DP, AS-i with 8 I/O, 4 I/O and 4 In.
- Mounting by use of bolt holes or DIN rail.
- Protection class IP 65.

### **Valve data:**

- Valve functions: 2x3/2 NO, NC, NO/NC – 5/2 single and double solenoid – 5/3 closed center. Other 5/3 functions achieved by 2x3/2.
- Nominal flow 400 l/min.
- Manual override.  
Turn – red button. Turn with detent – yellow button.
- Double pilot with 1 or 2 coils.
- Power consumption 0.75 W/coil, including LED and protective circuit.
- Valves all plastic.
- Voltage 24 V DC  $\pm 10\%$ .



*HF04 will be available in the third quarter of 2003.*

# Miniaturized system with integrated field bus

## Series LP04



LP04 with D-sub connection.



LP04 with field bus connection.

### LP04 – Miniaturized system with integrated field bus

Compared to the HF04, the LP04 has been designed with a different sub-base in order to reduce its size, particularly in height. The most striking size reduction has been achieved by integrating the field bus functions into the sub-base. As a result, the size of the valve system with field bus connection is the same as with D-Sub connection. One system can comprise up to 16 valves.

The electrical connection is made using either a D-sub or a field bus.

Typical applications include small-scale handling in the semiconductor and electronics industries, vacuum and process control.

### Technical data for LP04

- 4 or 6 mm or 1/8" exchangeable push-in fittings for port 2 and 4.
- Working pressure internal pilot control; 3–8 bar.
- Working pressure external pilot control; vacuum –1 to 10 bar.
- Plastic sub-base and end plates.
- 25-pin D-sub connector.
- Field bus protocols: PROFIBUS DP, DeviceNet, DDL, AS-i
- Protection class IP 65.

### Valve data:

- Valve functions: 2x3/2 NO, NC, NO/NC – 5/2 single and double solenoid – 5/3 closed center. Other 5/3 functions achieved by 2x3/2.
- Nominal flow 200 l/min.
- Manual override.  
Turn – red button. Turn with detent – yellow button.
- Double pilot with 1 or 2 coils.
- Power consumption 0.75 W/coil, including LED and protective circuit.
- Valves all plastic.
- Voltage 24 V DC  $\pm 10\%$ .

*LP04 will be available in the third quarter of 2003.*

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