

Product



No. 1 Position

- ✓ Compact valve box with integrated standard sequence programs for easy control the PPU-P and the related handling components. Consequently, the system is a plug-&-play solution.

Product features

Unique Selling Points:

- ✓ The typical sequence programs of pick&place applications are integrated in the VCU, and are easily callable via the higher-level control unit (with the sequence programs, which are integrated in the VCU for the PPU-P, and the attached handling components (such as gripping and/or rotary modules) the VCU is second to none on the market. Thus the customer can connect and start the system, which has ready pre-assembled hoses and wires (PPU-P + gripper)

Further Features:

- ✓ direct communication/control in the valve block. There are no "long" communication times with the PLC
- ✓ very compact design
- ✓ complete ready-to-install solution
- ✓ low air consumption of the system
- ✓ on request, equipped with five to nine 3/2-way valves (micro valves). In addition to the PPU-P, up to two handling components can be also controlled.
- ✓ on request, control via digital I/O's, via Profibus or CAN Bus
- ✓ Every supply line is connected on the back

Market and Competitors

Main Competitors

- ✓ An accessory for the PPU-P: In this combination there is no known competitor. Otherwise all the manufacturers of the valve terminals such as Festo, BoschRexroth, etc.

Advantages towards competition:

- ✓ Valve terminals with CPU (vendor independency): Festo offers various valve terminals in modular design with CPU (intelligence). They are much bigger, and not so compact. Moreover, they cannot be directly switched behind a handling component, as the VCU behind the PPU-P. Comparison in price:
Festo valve terminal with CPU appr. 1200,00 €, VCU appr. xxx €
- ✓ Single valves with control via PLC: Optionally the PPU-P can be controlled via single valves, which are programmed via the PLC. Here the customer has no timeconsuming effort of programming and installation.

Cost Effectiveness / Customer Benefits

- ✓ Complete ready-to-install solution (almost no hose connection effort): screw the unit, connect one hose and two cables. Ready.
→ Time- and therefore cost saving
- ✓ system (VCU with PPU-P and if necessary gripper/rotary module) is ready programmed. No programming effort. Plug&play solution.
→ Time- and therefore cost saving
- ✓ MV micro valves are located very close to the handling components, and therefore have a low air consumption.
→ Cost saving
- ✓ Low cycle times, due to short paths to the valve block (short hose loading and unloading, and direct control of the handling components in the valve block)
→ Time saving and therefore higher productivity

Questions about the product? Your contact person is J. Khoury (+49 - 7133 - 103 - 2667)

Technical Data / Functions

Basic technical data:

- ✓ Sizes: VCU 025
- ✓ Number of valves:
On request, 4, 5, 6, 7, 8 or 9 3/2-way valves
- ✓ Connection possibilities:
 - Profibus
 - CAN Bus
 - 10 x digital I/O's

Complementary Products:

- ✓ PPU-P
- ✓ MPG+, MPZ, KGG (every gripper for small components used in the assembly automation)
- ✓ SRU Mini
- ✓ RP, RC, RW (products from the modular system)

Industries and Applications

The VCU with PPU-P particularly convinces in the following industries:

- ✓ Electronic assembly
- ✓ Assembly and handling technology
- ✓ Consumer-/household goods
- ✓ Medical technology

Applications

- ✓ Assembly of electrical plugs
- ✓ Production of circuit boards
- ✓ Assembly of cannulas
- ✓ Assembly of ABS valves
- ✓ Assembly of safety switches

Additional Information

Accessory products to the PPU-P.
Should not be separately sold at the moment.

For the first time ever, we can offer a complete ready-to-install **solution** with this product. Gripper, PPU-P, and VCU. Complete sequence program for (2 x Y-stroke, 4 x Z-stroke, 1 x gripping and 1 x opening gripper) can be controlled with a simple I/O-signal. Now we also have process responsibility!

Cross Section

1. Output air pipes
2. Micro valves
3. Control electronics
4. Sensor inputs
5. Connector control unit



Questions about the product? Your contact person is J. Khoury (+49 - 7133 - 103 - 2667)