

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:

- ✓ Elcktronic 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



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