

# Single pre-mix tap with PMMA body PX100 Datasheet



## General informations

### Technical descriptions

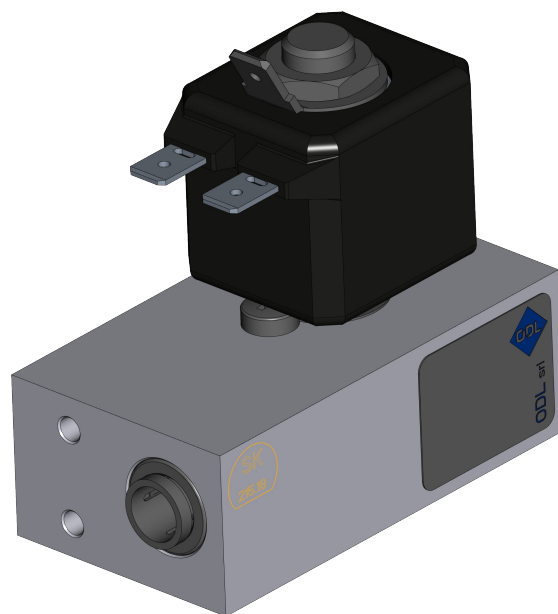
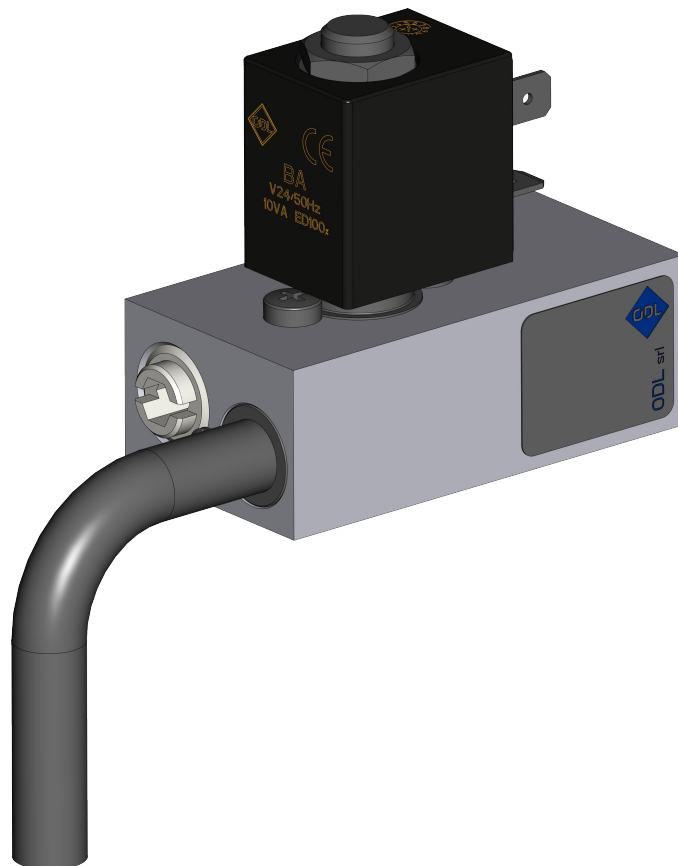
PX100 taps are designed for dispensing a single pre-mixed beverage. Unlike PM models, they do not perform any internal mixing of one or more fluids. They are available with two different nozzle diameters: one ideal for low flow rates and higher pressures, and the other suitable for high flow rates at lower pressures, allowing the taps to perfectly adapt to the operating requirements of different systems. The mounting holes are located on the body surface where the inlet is positioned. The taps are available with the outlet positioned either to the right or to the left of the compensator cone. To complete the configuration, different types of coils and fittings can be selected, making the system highly versatile and customizable.

### Materials

The tap body is made of highly resistant PMMA, certified for food-grade use and suitable for contact with carbonated or sugar-based liquids. All fittings are made of stainless steel, or cartridges are used to connect the tubes directly. All O-rings are made of EPDM.

### Operating Conditions and Environment

|                             |                                  |             |
|-----------------------------|----------------------------------|-------------|
| Working fluid               | <i>H2O, soda and soft drinks</i> |             |
| Maximum inlet temperature   | <i>60°C in sanitization</i>      |             |
| Ambient temperature         | <i>Da 1 a 50°C</i>               |             |
| Maximum relative humidity   | <i>Fino a 80%</i>                |             |
| Maximum storage temperature | <i>50°C</i>                      |             |
| Burst pressure              | <i>20bar</i>                     |             |
| Orifice diameter            | <i>Ø3mm Ø4.5mm</i>               |             |
| M.O.D.P.                    | <i>6bar</i>                      | <i>3bar</i> |

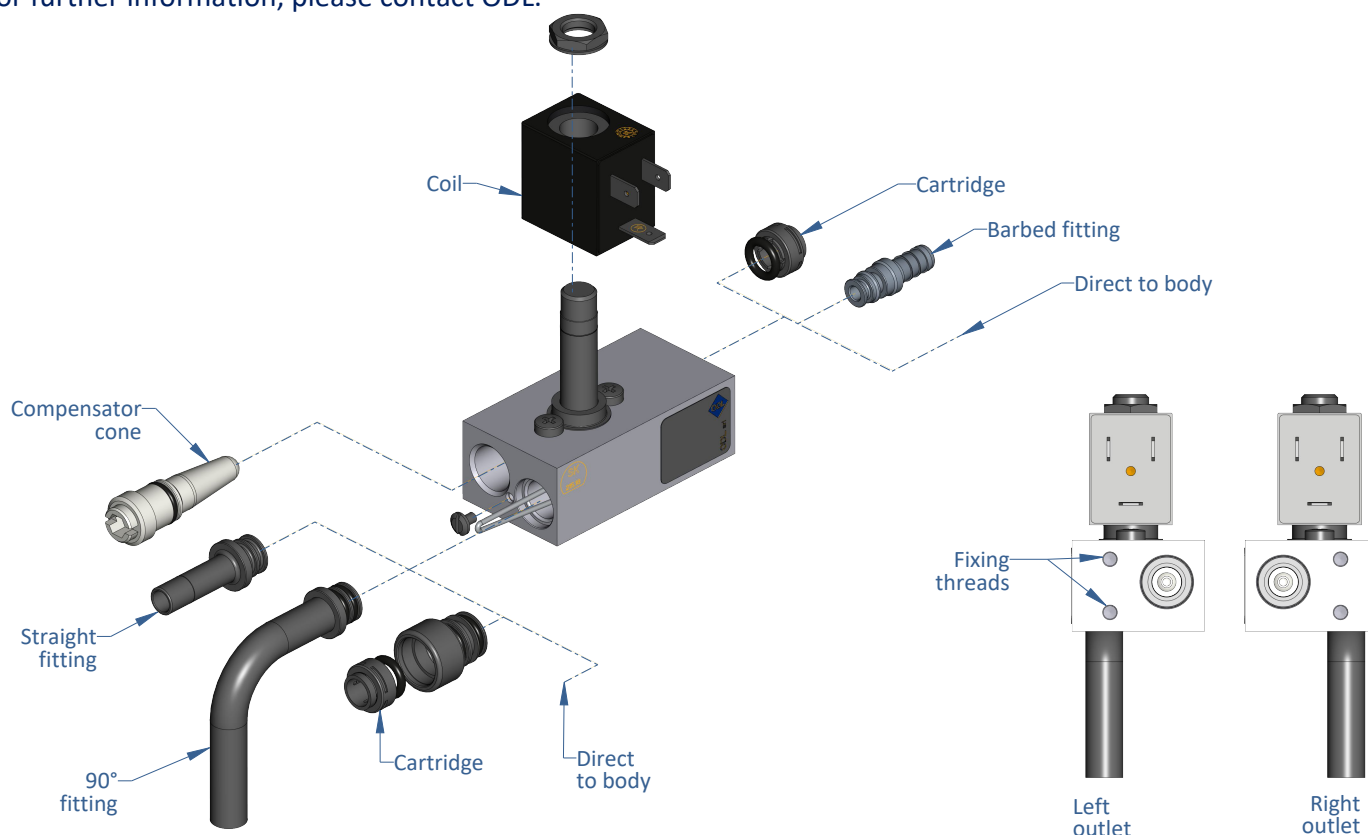


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## Configurations

The possible configurations available for the inlets, outlets, and coils are listed below.  
For further information, please contact ODL.



### PMMA body

|                  |                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------|
| Dimensions       | 67 × 35 × 24 mm for the version machined for inlet cartridge; 60 × 35 × 24 mm for the other versions. |
| Outlet positions | Left or right with respect to the inlet; see figure on the right.                                     |
| Fixing solution  | The standard version features two M4 threaded holes on the inlet surface.                             |

### Inlet fitting

|                |                                                                               |
|----------------|-------------------------------------------------------------------------------|
| Cartridges     | Available with cartridge seat for Ø8 mm or Ø3/8".                             |
| Barbed         | Available with Ø7 mm barbed fitting, either straight or bent downward by 90°. |
| Direct to body | The body is available with either a Ø9 mm outlet or a G1/4" female thread.    |

### Outlet fitting

|                |                                                                             |
|----------------|-----------------------------------------------------------------------------|
| Straight       | Available with Ø8 mm machining for connection with a push-in quick fitting. |
| Bended         | Available in Ø10 mm version (80 mm × 40 mm).                                |
| Cartridge      | Available with fitting featuring a cartridge seat for Ø8 mm cartridge.      |
| Direct to body | The body is available with either a Ø11 mm outlet or a G1/4" female thread. |

### Available coils

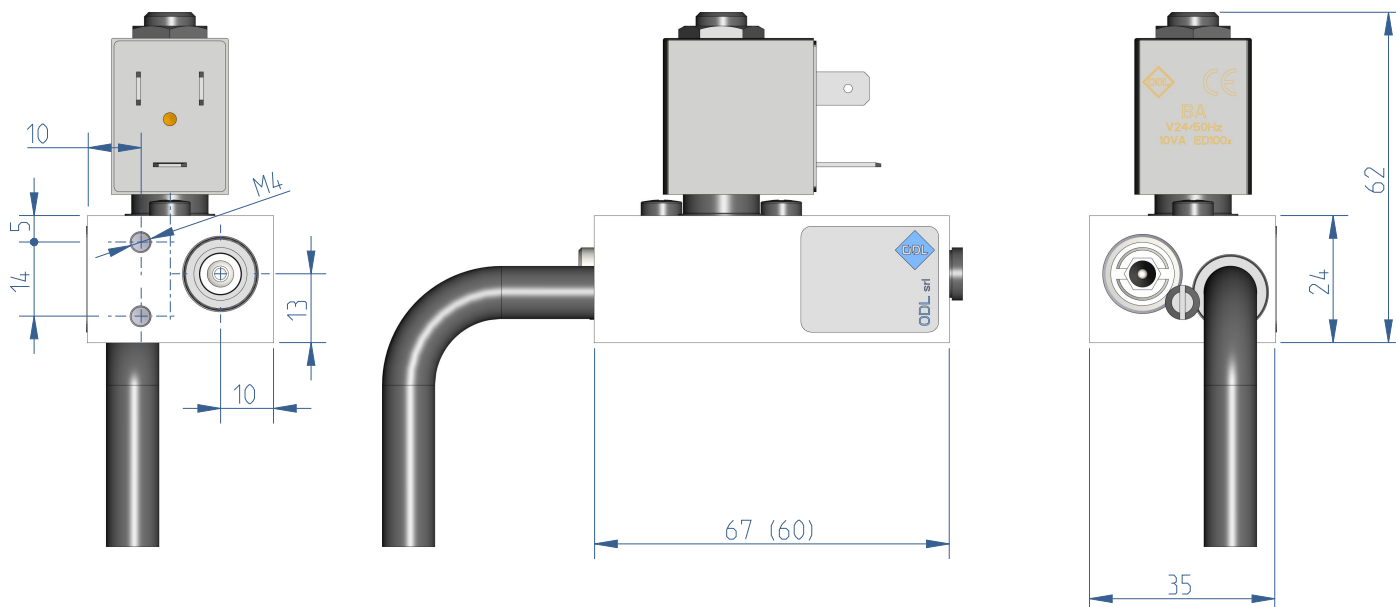
|           |        | BA2450 | BA24DC | BA24DC10W | BA2305 | BV05110AY | CA2450 | CA24DC12W | TA2450  |
|-----------|--------|--------|--------|-----------|--------|-----------|--------|-----------|---------|
| Tension   | V      | 24     | 24     | 24        | 230    | 120       | 24     | 24        | 24      |
| Frequency | Hz     | 50     |        |           | 50     | 60        | 50     |           | 50      |
| Power     | W (VA) | (10)   | 6      | 10        | (10)   | (15)      | (10)   | 12        | (10)    |
| ED        | %      | 100    | 70     | 50        | 100    | 100       | 100    | 50        | 100     |
| Faston    |        | 3      | 3      | 3         | 3      | 3         | 2      | 2         | 2 coils |

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## Dimensions

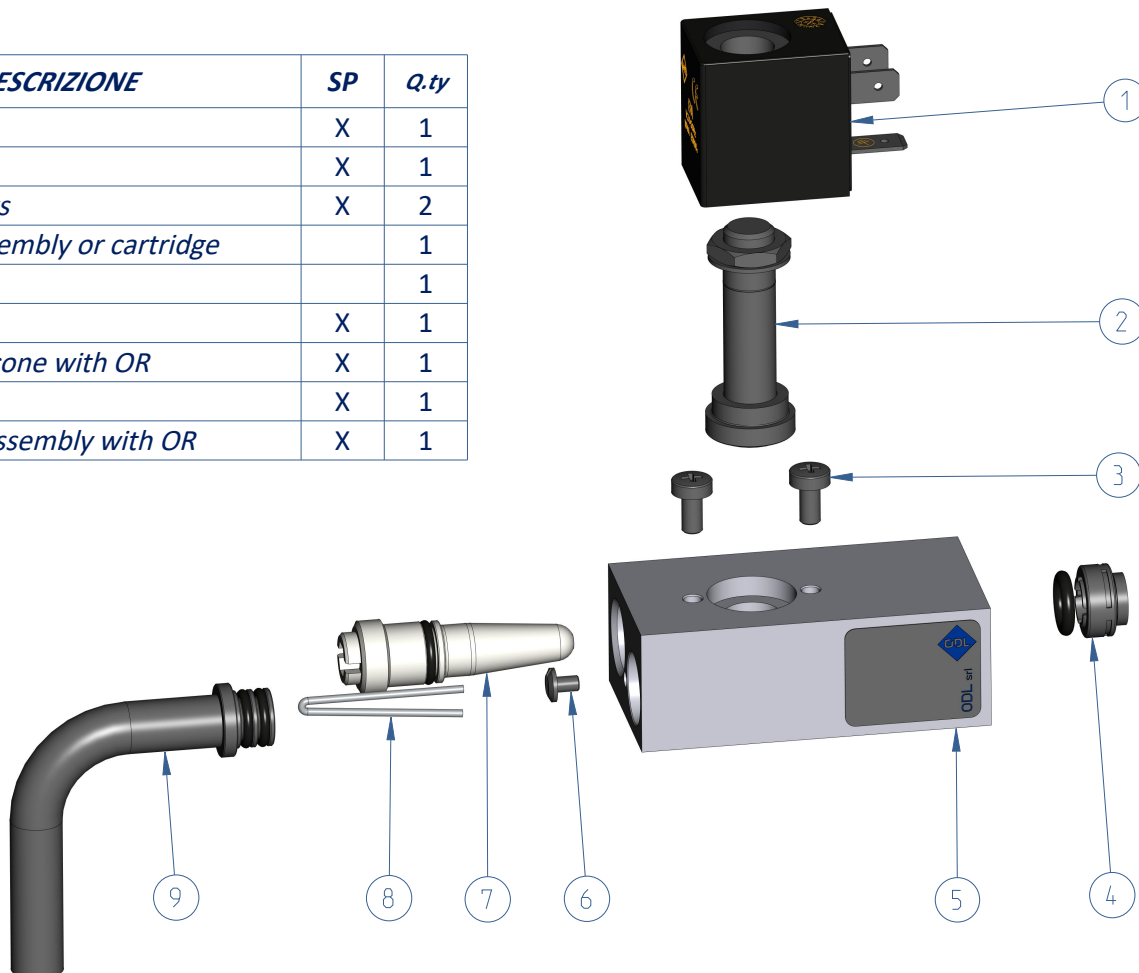
The overall dimensions of the body, the coil, and the mounting points are shown below. Dimensions in brackets refer to the body version with barbed fitting.



## BOM and spare parts

All available spare parts are listed in the table below under column "SP". For further information, please contact ODL.

| ID | DESCRIZIONE                         | SP | Q.ty |
|----|-------------------------------------|----|------|
| 1  | Coil                                | X  | 1    |
| 2  | Kit EV                              | X  | 1    |
| 3  | EV fixing screws                    | X  | 2    |
| 4  | Inlet fitting assembly or cartridge |    | 1    |
| 5  | Valve body                          |    | 1    |
| 6  | Screw stopper                       | X  | 1    |
| 7  | Compensator cone with OR            | X  | 1    |
| 8  | Flow breaker                        | X  | 1    |
| 9  | Outlet fitting assembly with OR     | X  | 1    |



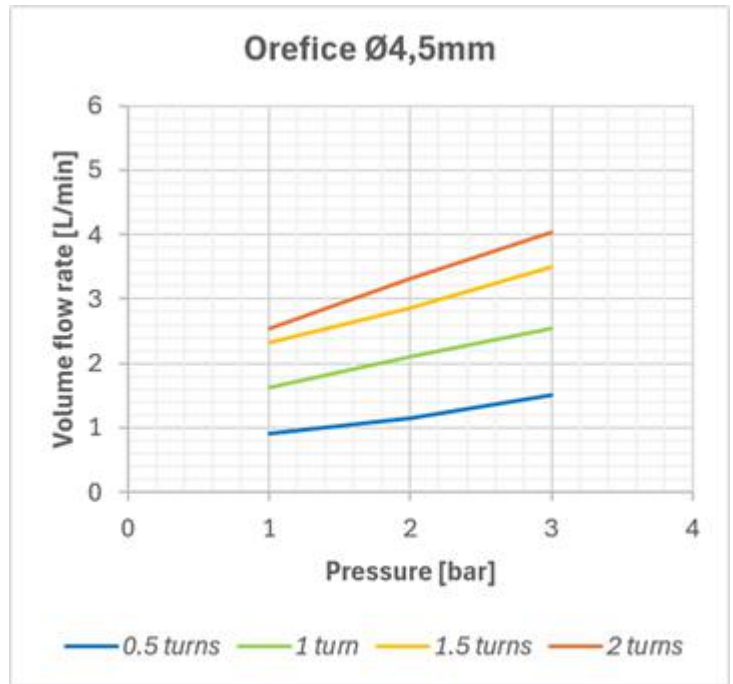
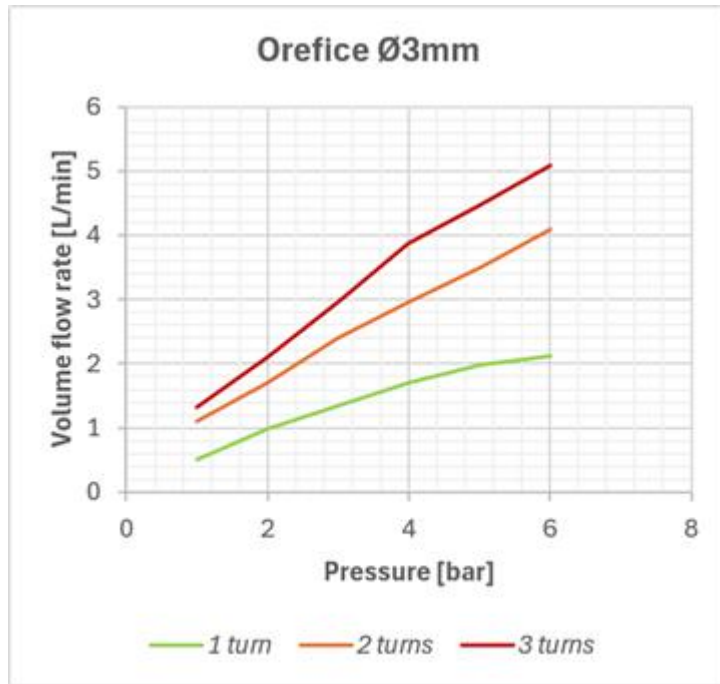
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## Hydraulic characterization

The graph shows the characteristic curves of the component using a single inlet. The volumetric flow rate is plotted as a function of cone position and inlet pressure.

**NOTE: The pressure measurement is affected by the fittings used, including the connector and tubing, as well as by the pressure tap geometry, whether static or dynamic. For further information, please contact ODL.**



## Limit condition for sanitization

The product needs adequate washing and sterilization after it is installed. The limit conditions for sanitization listed below are intended as indicative, for further clarifications contact ODL.

Maximum sanitization temperature: up to 60°C.

Maximum sanitization pressure: 2bar.

Maximum time of sanitization fluid exposure: 30 minutes every 6months.

Inner sanitizing fluid pH: between 6 and 8.\*

\*ODL recommends to verify the chemical compatibility between the sanitizing fluid and the material of the water mixer by contacting his technical office. Inner cleaning fluid must be compatible with PMMA, POMC and EPDM Perox 70 ShA.

## Food standards and certifications

This family of pressure reducer is compliant with these community and Italian legislation and their subsequent updates and changes and other international standards:

- Regulation (EC) No. 1935/2004,
- Regulation (EC) No. 2023/2006,
- EU Regulation 10/2011,
- D. M. 21/03/1973,
- Presidential Decree 777/82.