

PX100S Datasheet

General information

Technical description

PX100S taps are designed for dispensing a single, pre-mixed beverage. Unlike PM models, they do not perform any internal mixing between one or more fluids.

Thanks to their compact dimensions, they can be easily integrated inside a machine and are typically installed as the final component before the cup.

Equipped with a compensator cone, the tap allows precise flow-rate adjustment and can be supplied pre-calibrated to ensure faster installation and consistent performance.

To complete the configuration, different types of coils and fittings are available, making the system highly versatile and customizable.

Materials

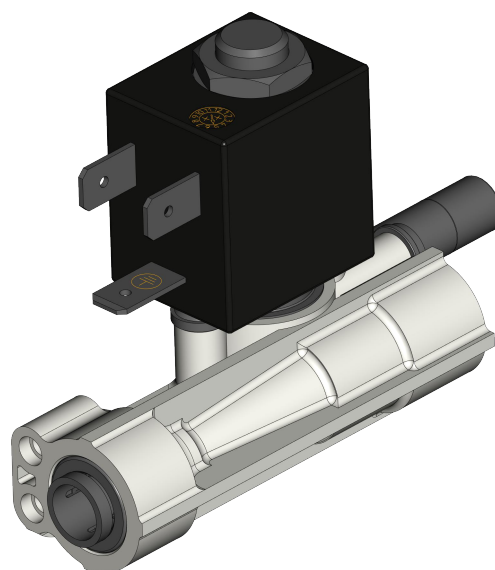
The tap body is moulded from highly resistant POM-C, certified for food-contact applications and compatible with carbonated or sugar-based liquids. All fittings are made of stainless steel, or cartridges are used to connect the tubes directly.

The compensator cone is made of POM-C, and all O-rings are made of EPDM.



Operating and environmental conditions

Working fluids	<i>H₂O, soda and soft drinks</i>
Maximum inlet temperature	<i>From 1 to 50°C</i>
Maximum relative humidity	<i>Up to 80%</i>
Maximum storage temperature	<i>50°C</i>
Burst pressure	<i>20bar</i>
Orifice diameter	<i>Ø3mm</i>
M.O.D.P.	<i>6bar</i>

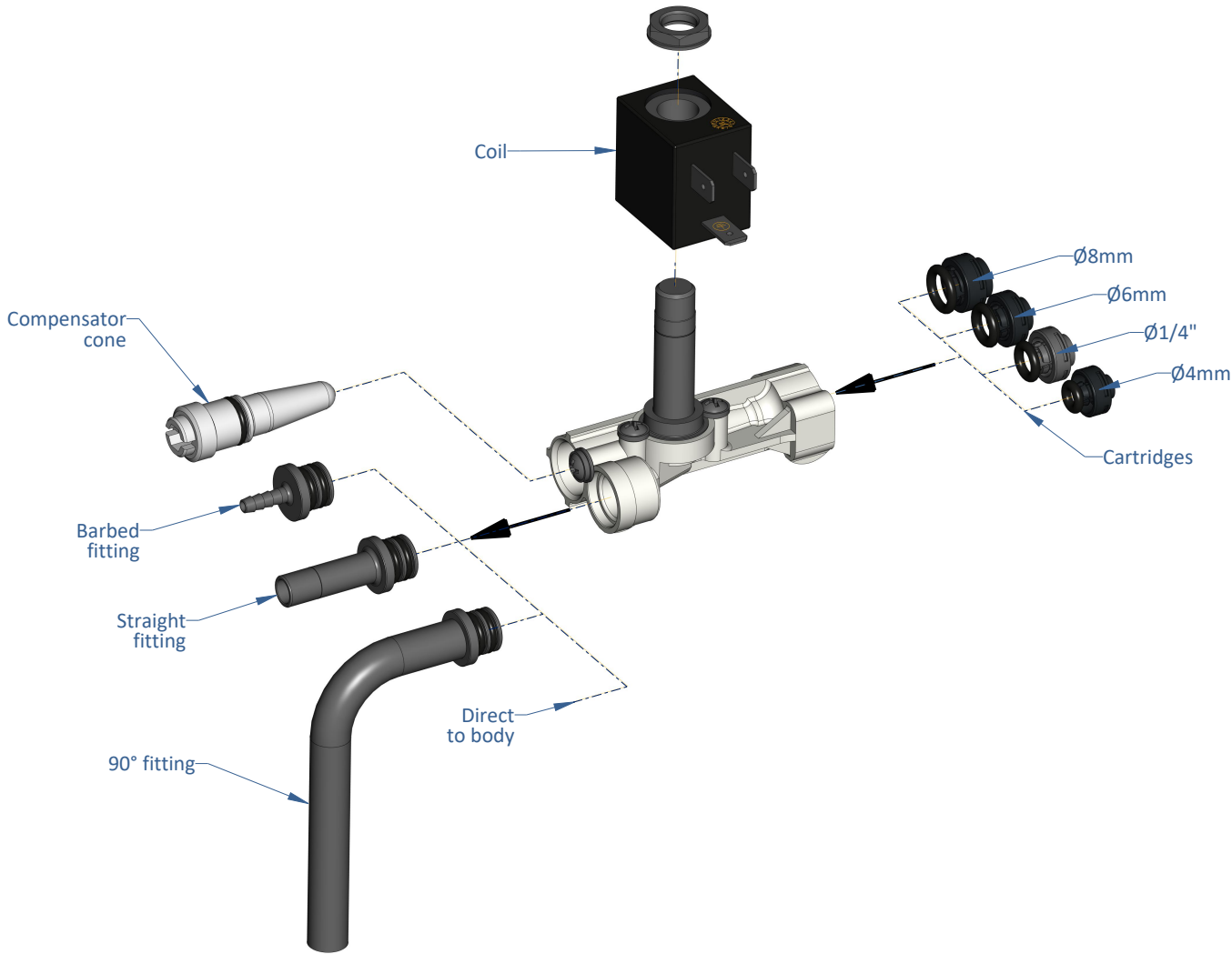


Single command pre-mix tap with moulded body PX100S Datasheet



Configurations

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



Inlet fitting configurations

The molded body is provided with seats for Ø4 mm, Ø6 mm, Ø8 mm, and Ø1/4" cartridges.

Outlet fitting configurations

Barbed	Pipe with a Ø4mm is available
Straight	An Ø8 mm tube with machining for a quick-connect fitting is available.
90° bended	An Ø10mm bent tube (80×40mm) is available.
Direct to body	An Ø10mm connection is available on the body.

Bobine disponibili

		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 cables

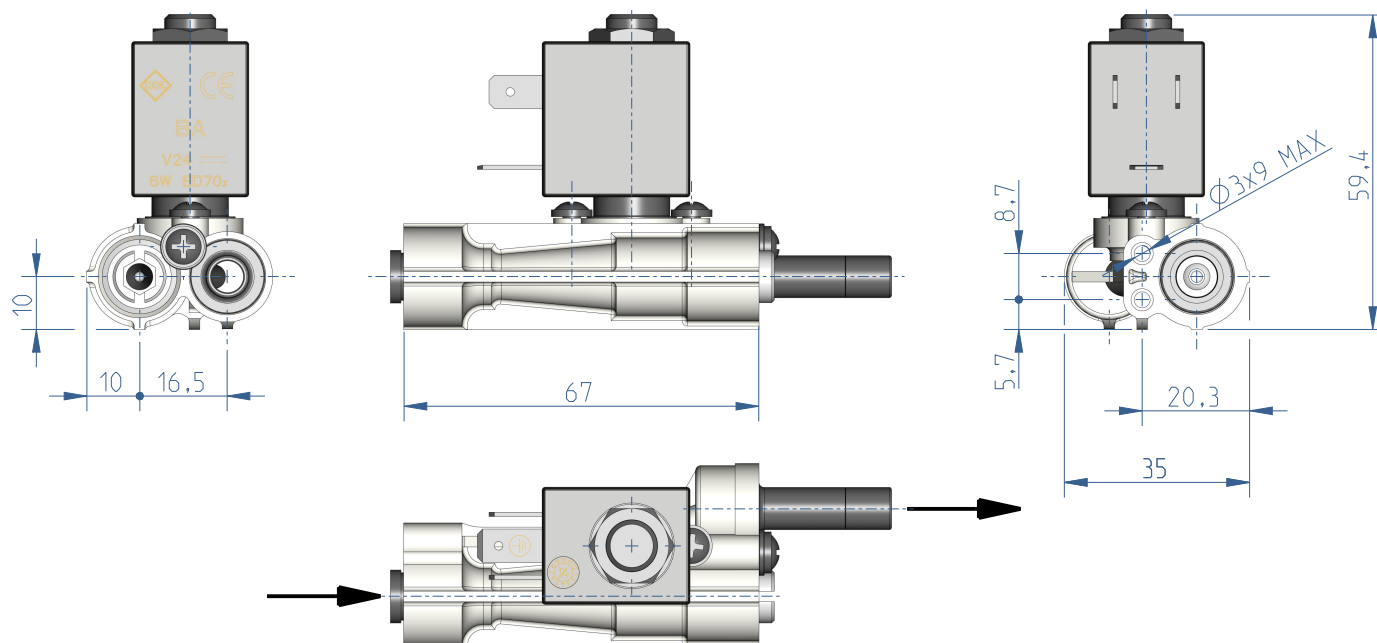
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Single command pre-mix tap with moulded body PX100S Datasheet



Dimensions

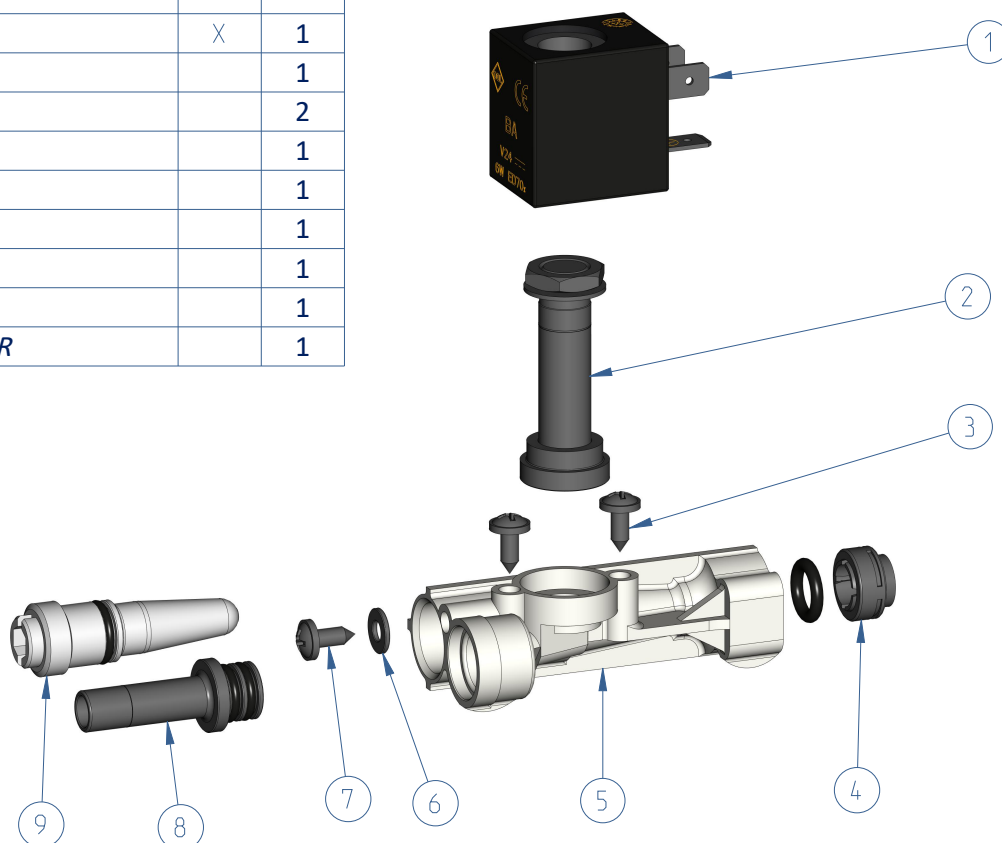
The overall dimensions of the body, coil, and mounting points are shown below. The outlet fittings are not dimensioned.



BOM and spare parts

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

ID	DESCRIPTION	SP	Q.ty
1	Coil	X	1
2	Kit EV		1
3	EV fixing screw		2
4	Inlet cartridge		1
5	Valve body		1
6	Washer		1
7	Stopper screw		1
8	Outlet fitting assembly		1
9	Compensator con with OR		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 POM C 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.