

Water mixer

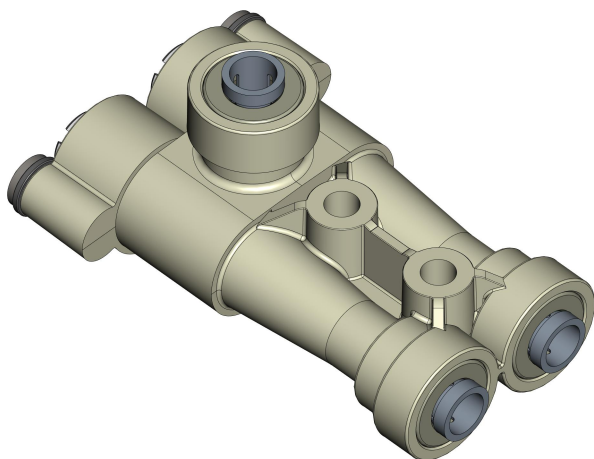
P-278609 Datasheet



General information

Technical description

The P-278609 water mixer is used to mechanically regulate and mix the flow rate of sparkling and still water within the dispenser. This version has POM C injection moulded body with optimized liquid paths. Are also available on request customs versions with machined bodies in PMMA.



Features

- The mixer cone can work in any position, there is no pre-defined orientation.
- The mixer can be fixed through the two central turrets, ODL recommend two M4 with a Ø9 washer and a maximum tightening torque of 1.5Nm.
- The diameter of the cartridges available is Ø1/4", Ø4, Ø6 and Ø8mm.
- The flow rate is adjustable with a hex wrench 6mm or a flat screwdriver 1.6x10mm or 2.0x12mm.
- The piece weight is equal to 37g

Applications

- This water mixer could be easily integrated into a water dispensing system, where a combined need of regulation and mixing is an issue.
- The mixer can separately regulate two input water flows.
- Different levels of carbonation can be easily achieved by mixing still water and sparkling water.
- This mixer can also combine two flows at different temperatures.

Environment and operating conditions

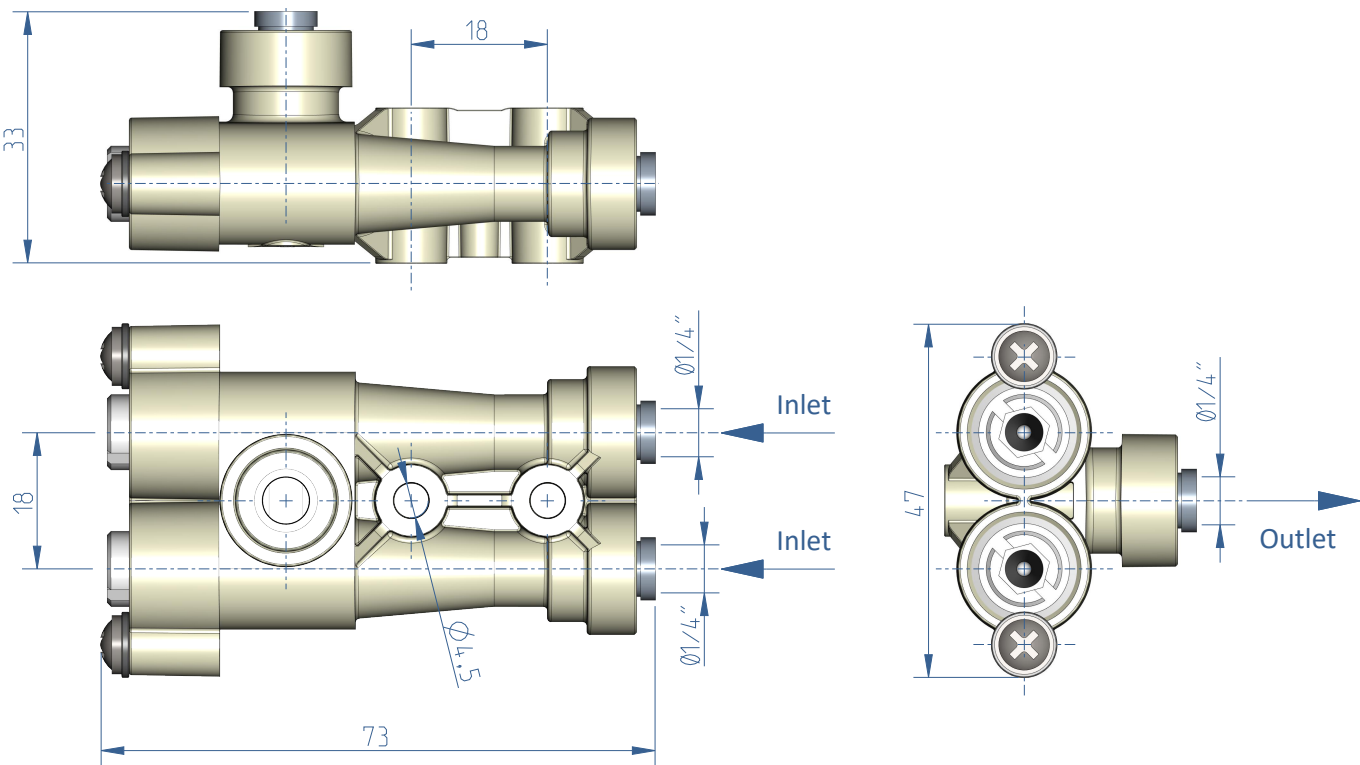
Operating pressure	Up to 10bar
Burst pressure	40bar
Proof pressure 1	35bar
Working fluid	Still and sparkling water
Ambient operation temperature	From 1 to 50°C
Working fluid operation temperature	From 1 to 40°C
Ambient relative humidity	Up to 80%
Maximum operating differential pressure	4.5bar
Cone regulation	Pre-setted or free
The component is designed for continous operation	
1 The component can withstand a pressure of 35bar for one minute	

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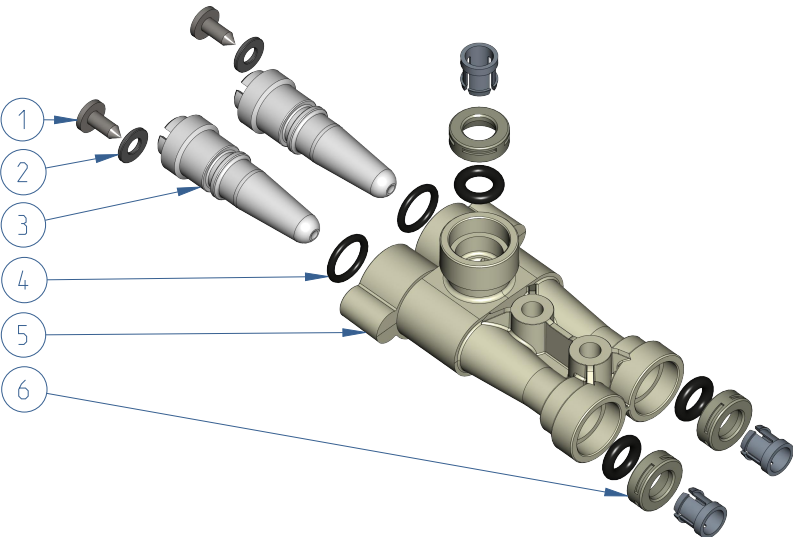


Dimensions



BOM and spare parts

No spare parts are available



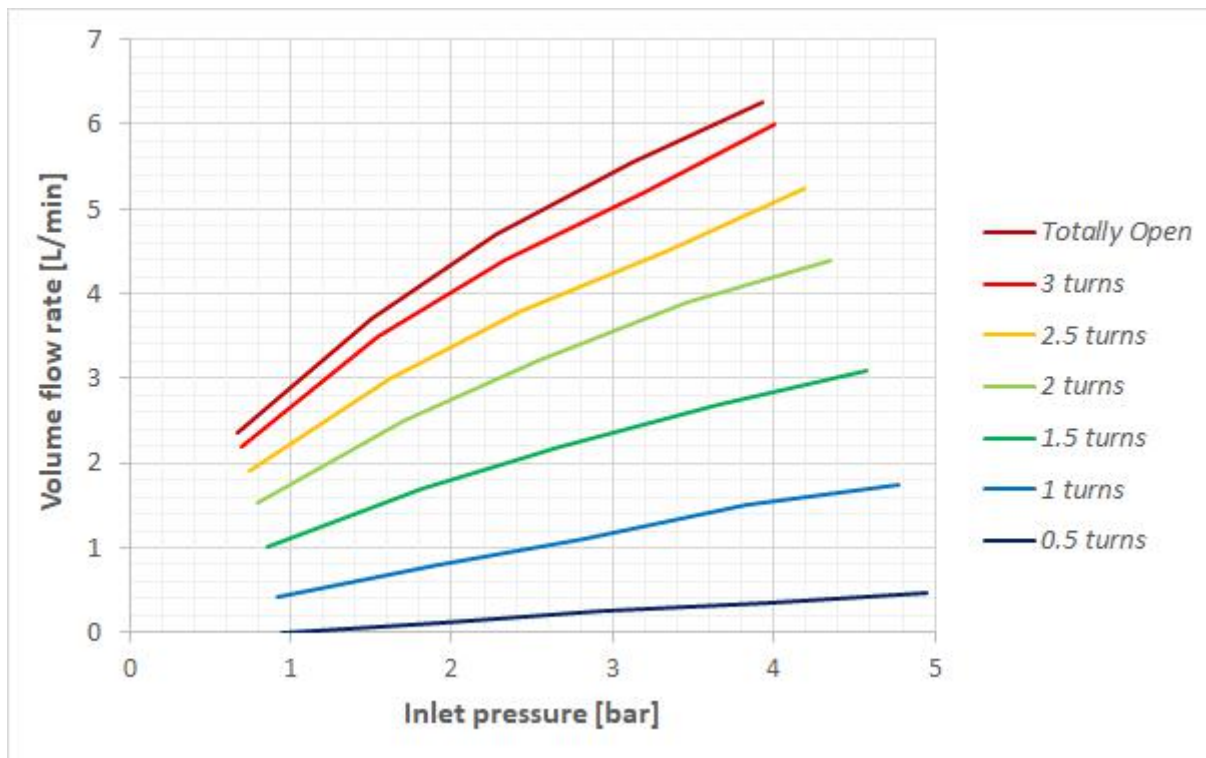
ID	DESCRIPTION	Q.ty	MATERIAL
1	Self tapping screw	2	AISI 304
2	Washer	2	AISI 303
3	Regulation cone	2	POM C
4	OR 108	2	EPDM
5	Water mixer body	1	POM C
6	Cartridge	3	POM C, NBR, AISI

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Hydraulic characterization

The graph below shows the characteristic curves of the component using only one inlet, detailing the volumetric flow rate as a function of the cone position and the inlet pressure.



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.