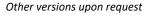


- > Very small footprint and size
- → Media separation
- Precise flow rates
- → Low power consumption

REACH ROHS

TECHNICAL DATA

Function	2/2 NC
Pneumatic connection	Cartridge
Orifice size	0.3 mm
Weight	~ 2.4 g
Mounting position	any direction
IP protection class (scope of delivery)	IP 60
Operating pressure	0 – 1.5 bar(g)
Maximum outlet pressure	0.2 bar (g)
Flow rate with air @ max. pressure	approx. 1.45 l/min
Flow coefficient kv	approx. 0.04 l/min
Switch-on time (electrical)-(media water)	< 1 ms ¹
Temperature range, environment	10 – 50 °C
Temperature range, medium	10 – 50 °C
Temperature range, storage	-10 – 60 °C
Internal volume	< 4.3 µl
Internal tightness (with air)	< 1 ml/min
External tightness (with air)	< 1 ml/min
Media quality	≤ 10 µm
Media	Air, oxygen, inert gases, liquids ²



ELECTRICAL DATA

Electrical connection	Pins
Nominal voltage	12 V DC
Nominal coil resistance @ 20 °C	215 Ω
Nominal power consumption	0.7 W
Permitted Duty cycle (no flow)	100 %

Other versions upon request

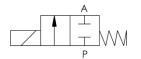
WETTED MATERIALS

Housing	Sapphire, PEEK
Sealing	FFKM

Other versions upon request



PNEUMATIC SYMBOL



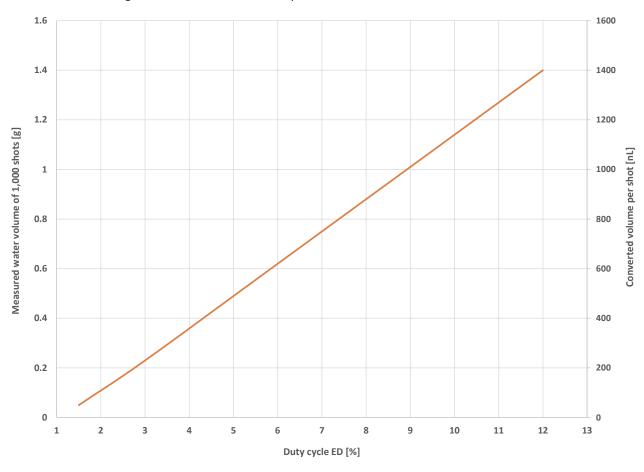
¹ Can be achieved if the valve is controlled with a higher voltage than the nominal voltage. Please contact us for further information.

² Due to the use of resistant materials, the valve is suitable for many other media (including liquids) after prior testing. Please contact us for more information.



EXEMPLARY LIQUID QUANTITIES / SHOT VOLUMES

Measured water weight after 1,000 shots / inlet pressure 0.1 bar / 24 V DC / 10 Hz / needle 0.3 mm



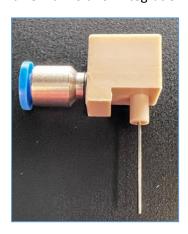
TECHNICAL RECOMMENDATIONS

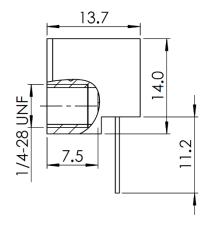
Dosing range	Valve orifice	Needle diameter
< 50 nl	0.1 mm	0.1 mm
50 – 100 nl	0.2 mm	0.2 mm
> 100 nl	0.3 mm	0.3 – 0.6 mm



ACCESSORIES

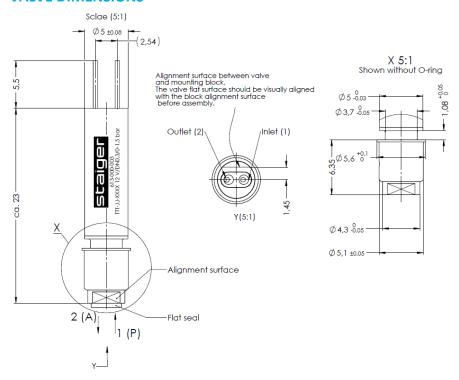
Valve manifold for integration of a needle, made of PEEK. Other dimensions and threads on request.



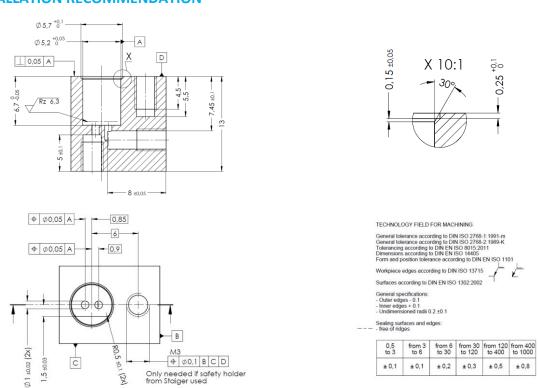




VALVE DIMENSIONS



INSTALLATION RECOMMENDATION



The maximum assembly force with which the valve can be pressed into the receptacle is 30 N. It is recommended to lubricate the valve or the O-rings during assembly (e.g. with alcohol or DI water, depending on compatibility restrictions).

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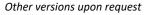


- > Very small footprint and size
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REACH ROHS

TECHNICAL DATA

Function	2/2 NC
Pneumatic connection	Cartridge
Orifice size	0.2 mm
Weight	~ 2.4 g
Mounting position	any direction
IP protection class (scope of delivery)	IP 60
Operating pressure	0 – 1.5 bar(g)
Maximum outlet pressure	0.2 bar (g)
Flow rate with air @ max. pressure	approx. 0.7 I/min
Flow coefficient kv	approx. 0.019 I/min
Switch-on time (electrical)-(media water)	< 1 ms ¹
Temperature range, environment	10 – 50 °C
Temperature range, medium	10 – 50 °C
Temperature range, storage	-10 – 60 °C
Internal volume	< 4.3 µl
Internal tightness (with air)	< 1 ml/min
External tightness (with air)	< 1 ml/min
Media quality	≤ 10 µm
Media	Air, oxygen, inert gases, liquids ²



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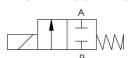
Other versions upon request

WETTED MATERIALS

Housing	Sapphire, PEEK
Sealing	FFKM
Other versions upon request	

Staig

PNEUMATIC SYMBOL



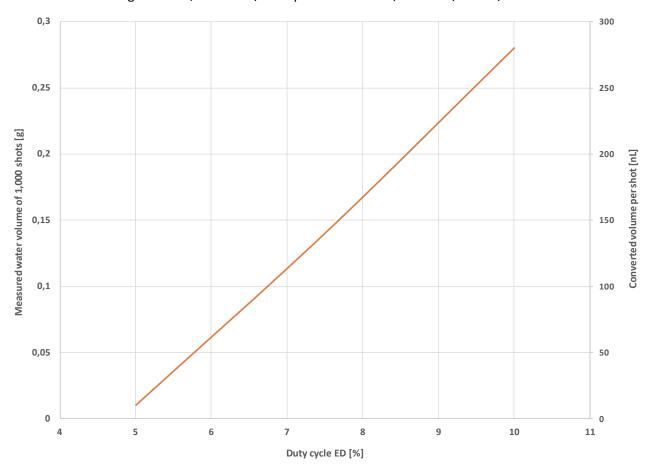
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Measured water weight after 1,000 shots / inlet pressure 0.1 bar / 24 V DC / 10 Hz / needle 0.3 mm



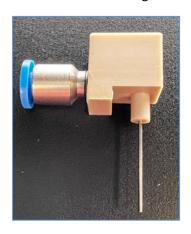
TECHNICAL RECOMMENDATIONS

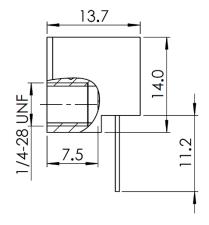
Needle diamete	Valve orifice	Dosing range
0.1 mr	0.1 mm	< 50 nl
0.2 mr	0.2 mm	50 – 100 nl
0.3 – 0.6 mr	0.3 mm	> 100 nl



ACCESSORIES

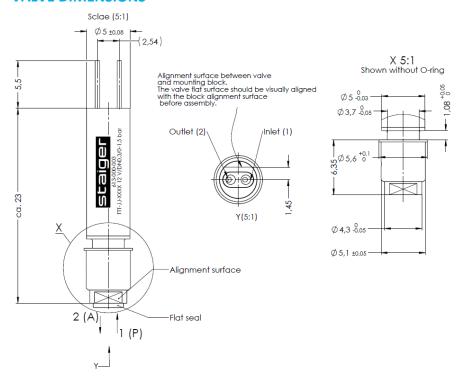
Valve manifold for integration of a needle, made of PEEK. Other dimensions and threads on request.



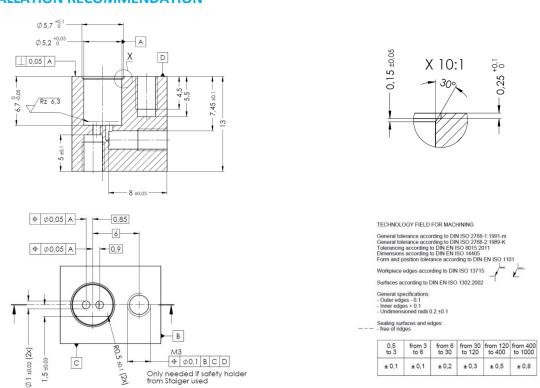




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