

# PosiPump I-Series Progressive Cavity Valve

The PosiPump™ I-Series Progressive cavity valve offers true volumetric dispensing in order to achieve exceptional levels of repeatability.

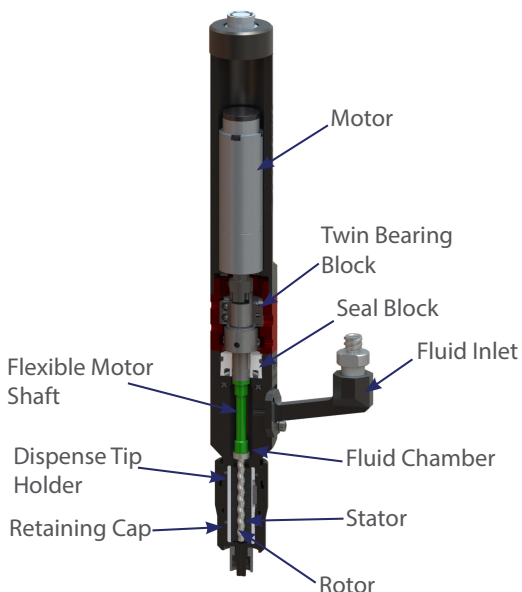
A proven endless piston design principle ensures a constant volume is always dispensed, regardless of any changes in fluid viscosity, thixotropy or fluid inlet pressure.

Bi-rotational control ensures a drip free dispense cycle thanks to an infinitely adjustable suckback.

## Features

- Dispense volume as small as 0.008ml per revolution
- Constant volumetric & pressure-stable dispense system
- Dispense volume is not affected by changes in fluid viscosity or feed pressure
- FKM or FFKM Stator Material
- Long service life

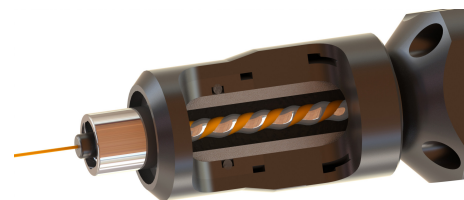
## Section View



## Benefits

- Dispense volume not affected by change in fluid viscosity or feed pressure
- No dripping/drooling after dispense cycle
- Suitable for both low & high viscosity fluids
- Pressurisation of fluid feed system is not necessary for self-levelling low viscosity fluids
- Prevents damage to fillers in filled fluid materials
- Compatible with abrasive materials\*
- High level of process control

## Endless Piston Principle



The Fisnar PosiPump valve is based on the endless piston principle using a rotor and stator to create a self-sealing pressure-tight Positivity Displacement system.

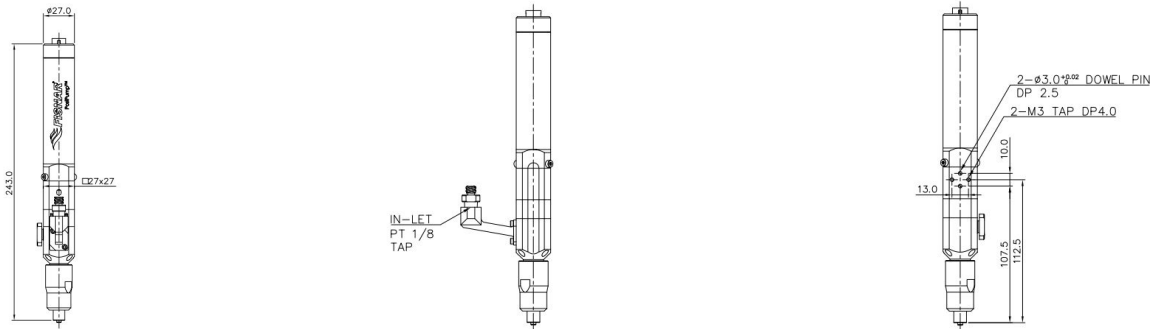
The rotational movement of the rotor allows the fluid material to transition through the stator in sealed cavities in a linear conveying motion.

This design principle prevents compression forces being applied to the fluid material, therefore preventing the effects of shear stresses and pulsation being induced during its flow through the valve.

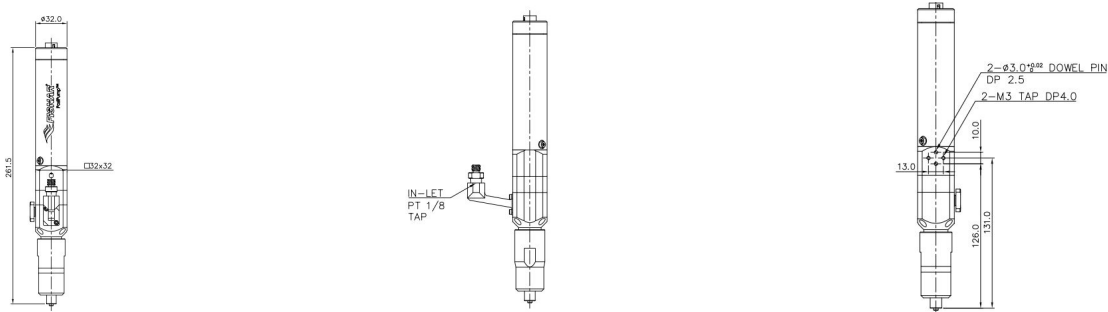
\*Not compatible with all abrasive fluid materials. Please consult your local Fisnar sales representative to confirm 100% material compatibility.

# PosiPump I-Series Progressive Cavity Valve

## PC-I8



## PC-I50/PC-I500



## Specifications

Item Number	PC-I8	PC-I50	PC-I500
Dosing Volume/Rev	0.008ml	0.05ml	0.5ml
Motor Speed	1-120 rpm	1-120 rpm	1-120 rpm
Max Flow Rate	0.96ml/min	6ml/min	60ml/min
Fluid Input Pressure	1-100psi	1-100psi	1-100psi
Fluid Viscosity Range	1-500,000cPs	1-500,000cPs	1-500,000cPs
Rotor Material	SUS316	SUS316	SUS316
Stator Material Size	FKM (FFKM option)	FKM (FFKM option)	FKM (FFKM option)
Fluid Inlet & Outlet Material	AL6061 Hard Anodize	AL6061 Hard Anodize	AL6061 Hard Anodize
Seal Material	UHMW-PE	UHMW-PE	UHMW-PE
O-ring Material	Viton™	Viton™	Viton™
Fluid Inlet Thread	G 1/8" Luer Lock	G 1/8" Luer Lock	G 1/8" Luer Lock
Fluid Outlet Thread	Luer Lock	Luer Lock	Luer Lock
Weight	380g	540g	540g

## Contact Us

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