



B-Fluid is an Italian manufacturer specialized in fluid dispensing systems. Our screw pumps, featuring a modular design, deliver excellent performance in handling high-viscosity materials, ensuring dosing accuracy of up to $\pm 1\%$.

The innovative design allows for quick and easy maintenance while maintaining consistent performance even in the most demanding production environments.

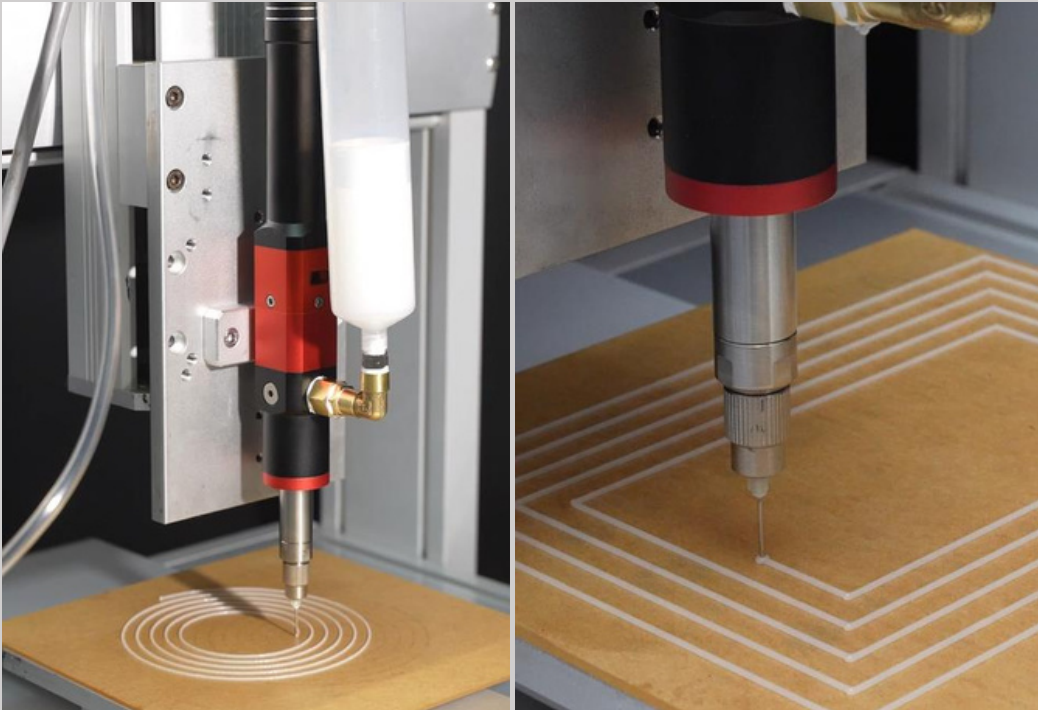
Thanks to advanced manufacturing capabilities and a dedicated research and development team, we create customized solutions to meet specific application requirements. Our products are used by customers worldwide.

Volumetric Progressive Cavity Pumps



FA-PCP Series Pumps

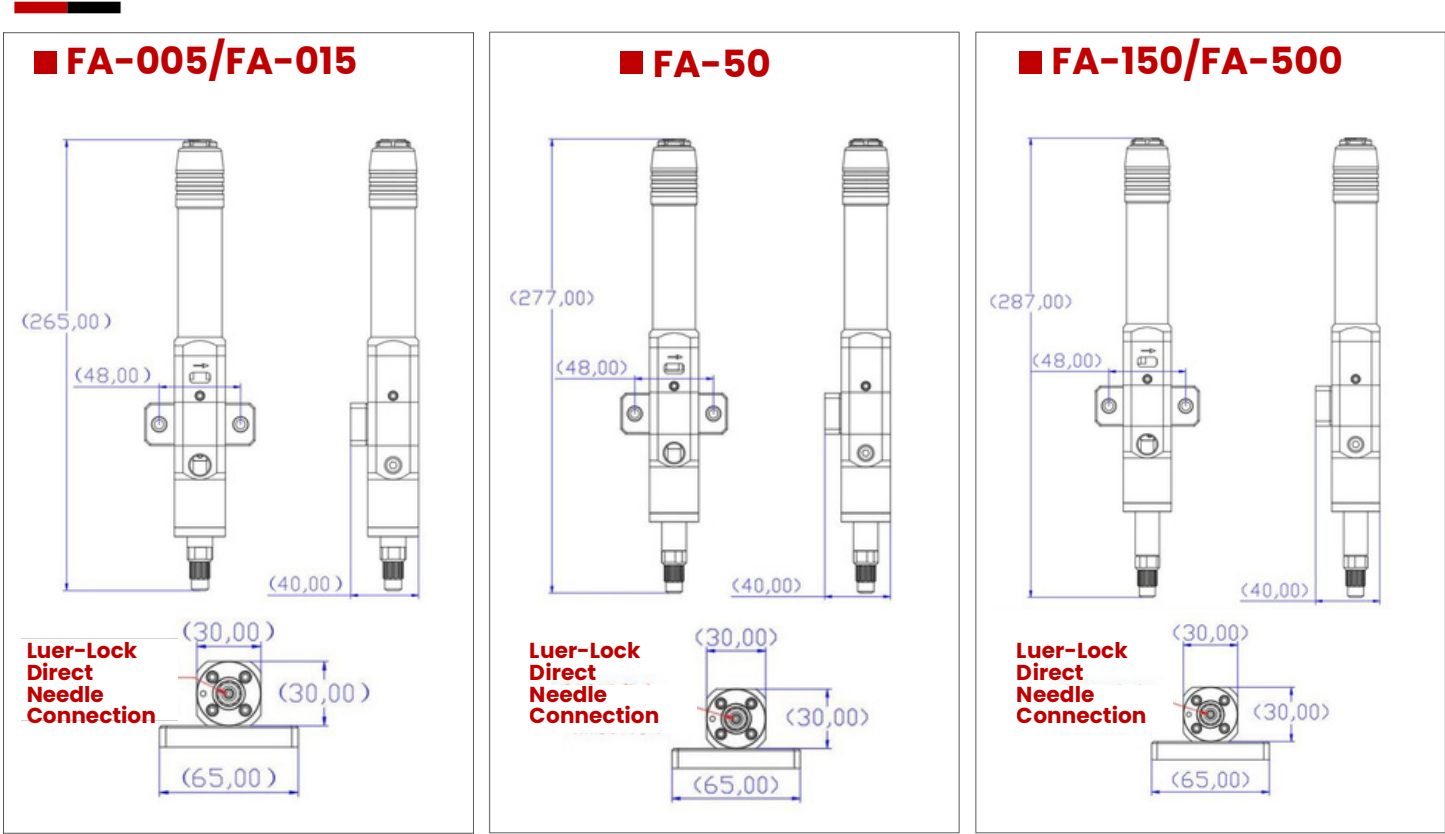
Modello	FA-005	FA-015	FA-050	FA-150	FA-500
					
Dimensions (mm)	30x30xL265		30x30xL277	30x30xL287	
Weight(kg)	0.49		0.5	0.51	
Inlet Pressure (MPa)	0.1-0.6				
Outlet Pressure (MPa)	≥2				
Dosing (cc/rev)	≈0.005	≈0.015	≈0.055	≈0.155	≈0.500
Motor Speed (RPM)	1~120				
Dosing/minute (ml)	≈0.6	≈1.8	≈6	≈18	≈60
Viscosity Range (cps)	1-500,000				
Stator Materials	EPDM/FKM/FFKM/PU				
Rotor Materials	SS/Ceramic				
Body Materials	SS/Alloy				
Inlet Dimensions	G 1/4"				
Outlet Dimensions	G 1/4" or Luer-Lock				
Dosing Precision	±				
Working Temperature	5-80 °C				
Reduction Ratio	25:1 to 72:1				
Motor Type	Stepper or Brushless				



Coding



Dimensions



Technical Informations

■ 1. Stators

Available in FFKM, FKM, PU, EPDM

■ 2. Rotors

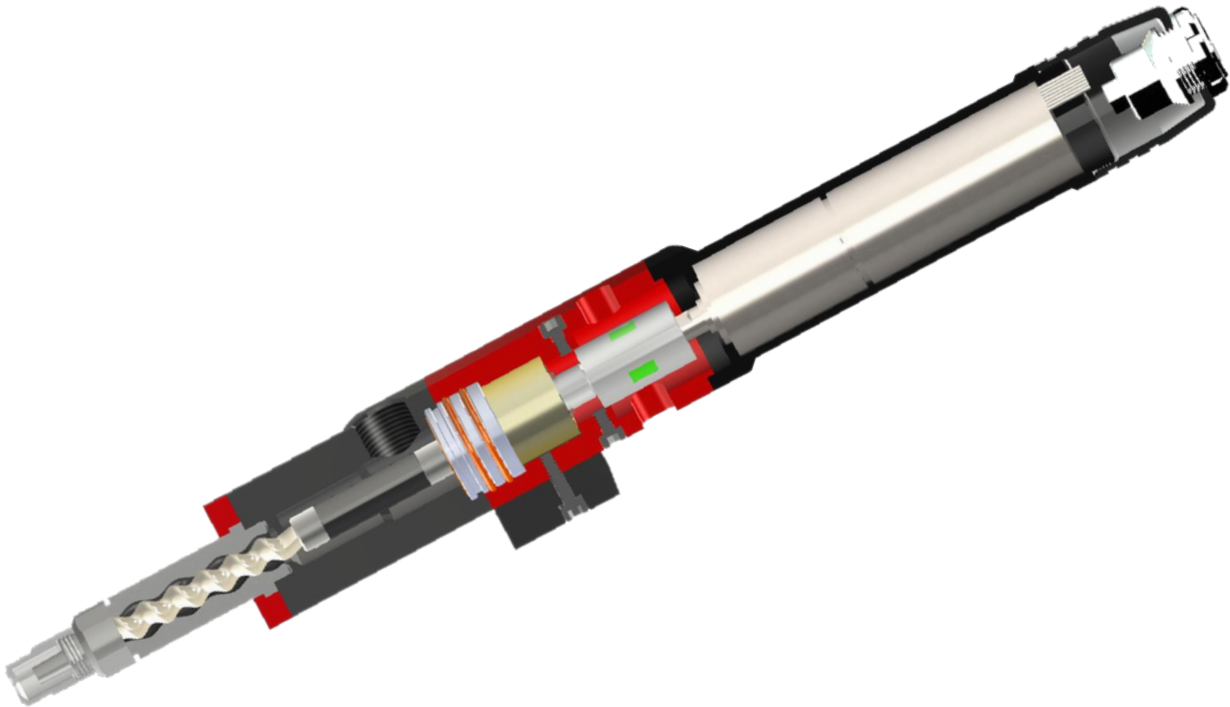
Standard rotors are made of ceramic, offering high resistance to both wear and heat; optionally, rotors assembled in AISI 316 stainless steel can be supplied.

■ 3. High Efficiency Seals

The seals offer high resistance to corrosion and good wear resistance.

Technical Drawings

■ Section view – FA Series Pump

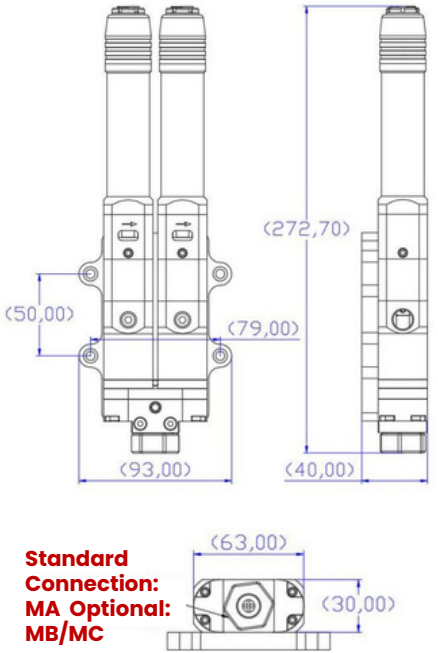


■ Exploded view – FA Series Pump

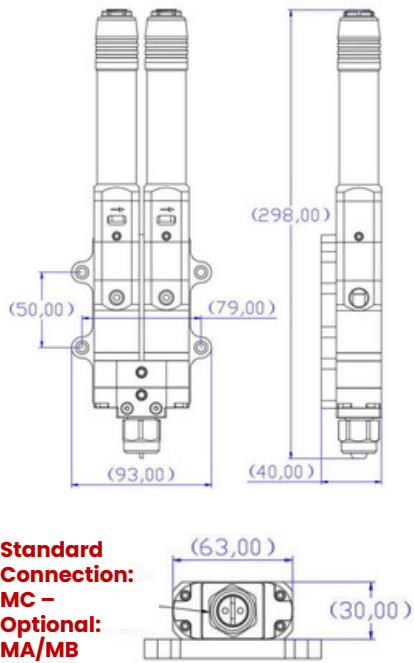


Dimensions

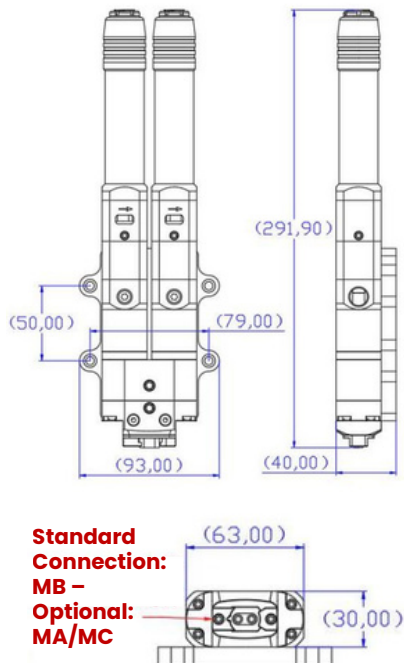
FA005-005/015-015



FA050-050



FA150-150/500-500

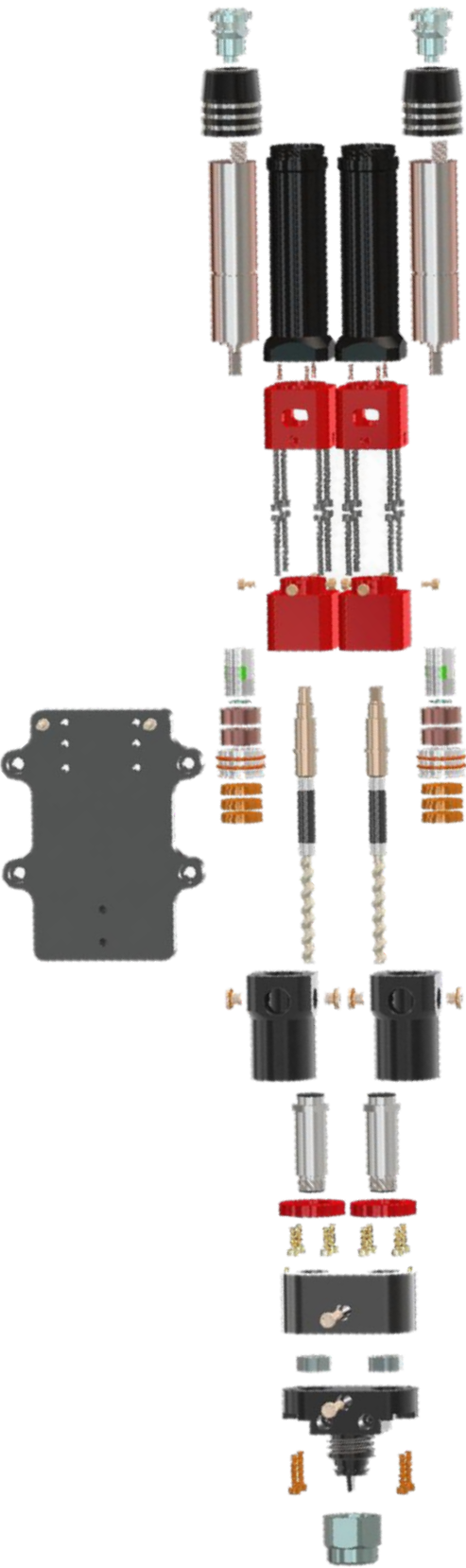


2K-PCP Mixer Connections

MA				1:1	/
MB				1:1	1:3/1:10
MC				1:1	1:3/1:10

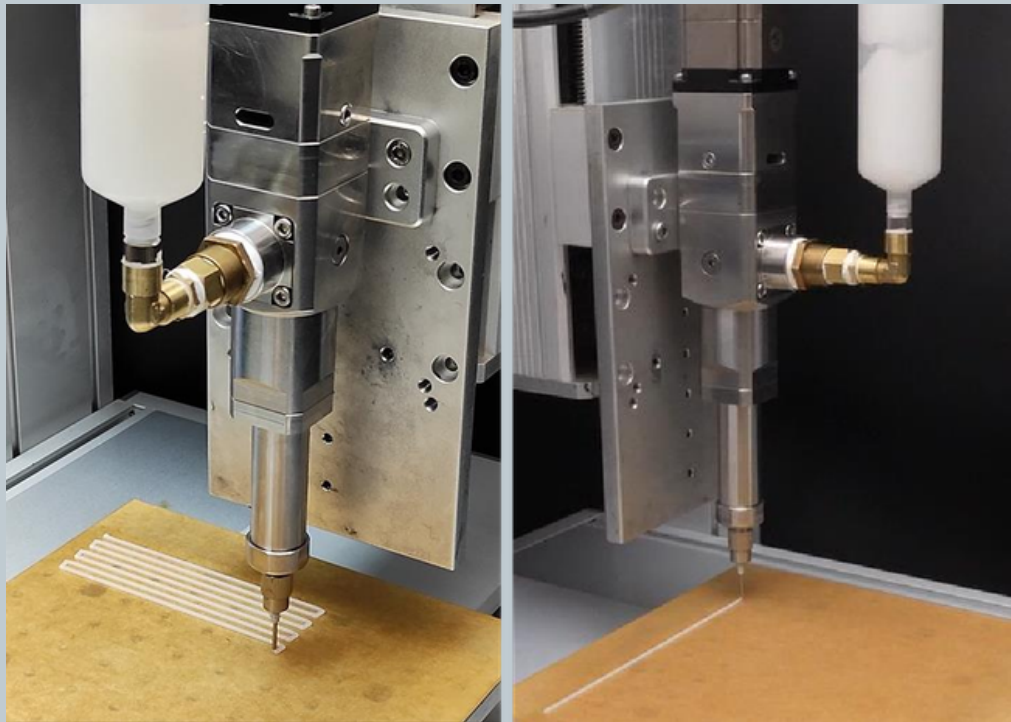
Technical Drawings

Section view – FA 2K Series Pump Exploded view – FA 2K Series Pump

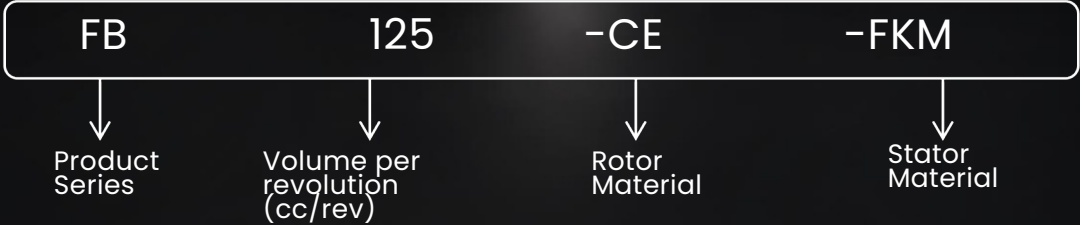


FB-PCP Series Pumps

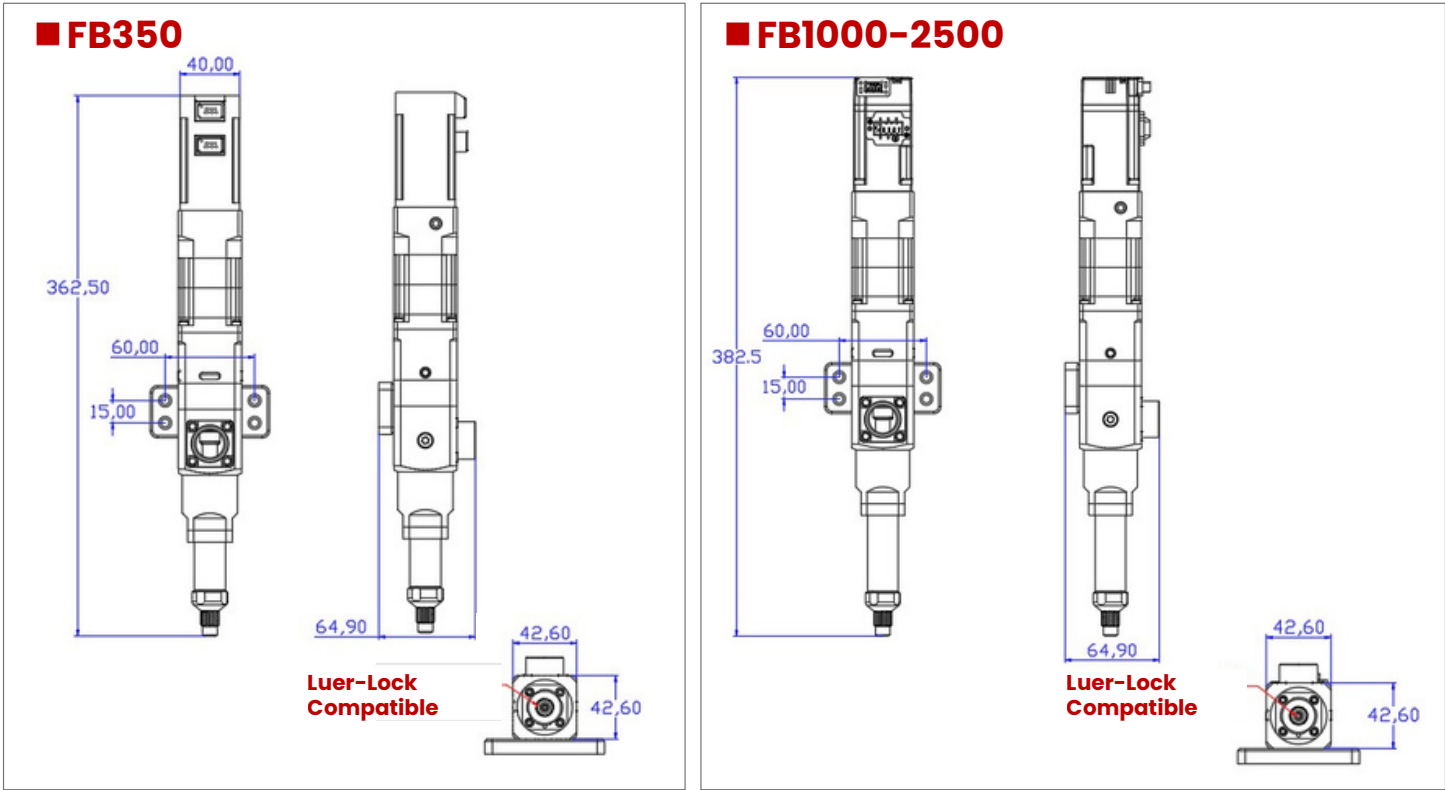
Modello	FB-125	FB-350	FB-1000	FB-1800	FB-5000
					
Dimensions (mm)	43x43xL362		43x43xL382	43x43xL428	
Weight(kg)	2.4	2.4	2.5	2.9	2.9
Inlet Pressure (MPa)	0.1-0.8				
Outlet Pressure (MPa)	≥2				
Dosing (cc/rev)	≈0.125	≈0.350	≈1.000	≈1.700	≈5.000
Motor Speed (RPM)	1~120				
Dosing/minute (ml)	≈15	≈42	≈120	≈200	≈600
Viscosity Range (cps)	1-500,000				
Stator Materials	FKM/FFKM/PU				
Rotor Materials	Ceramic/SS				
Body Materials	SS304				
Inlet Dimensions	G 1/2"				
Outlet Dimensions	Luer lock -G1/8"-G1/4"-G 1/2"				
Dosing Precision	≤±1%				
Working Temperature	5~80				
Reduction Ratio	25:1 Ratio				
Motor Type	Stepper or Brushless				



CODING



Dimensions



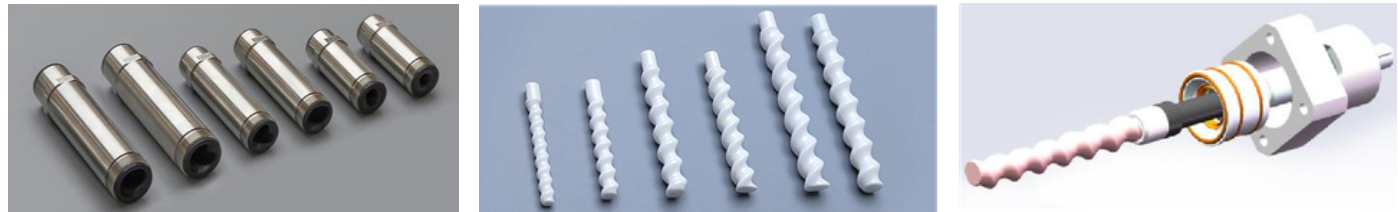
Technical Details

- **1. Stators**

Available in FFKM, FKM, PU, EPDM
- **2. Ceramic and SS Rotors**

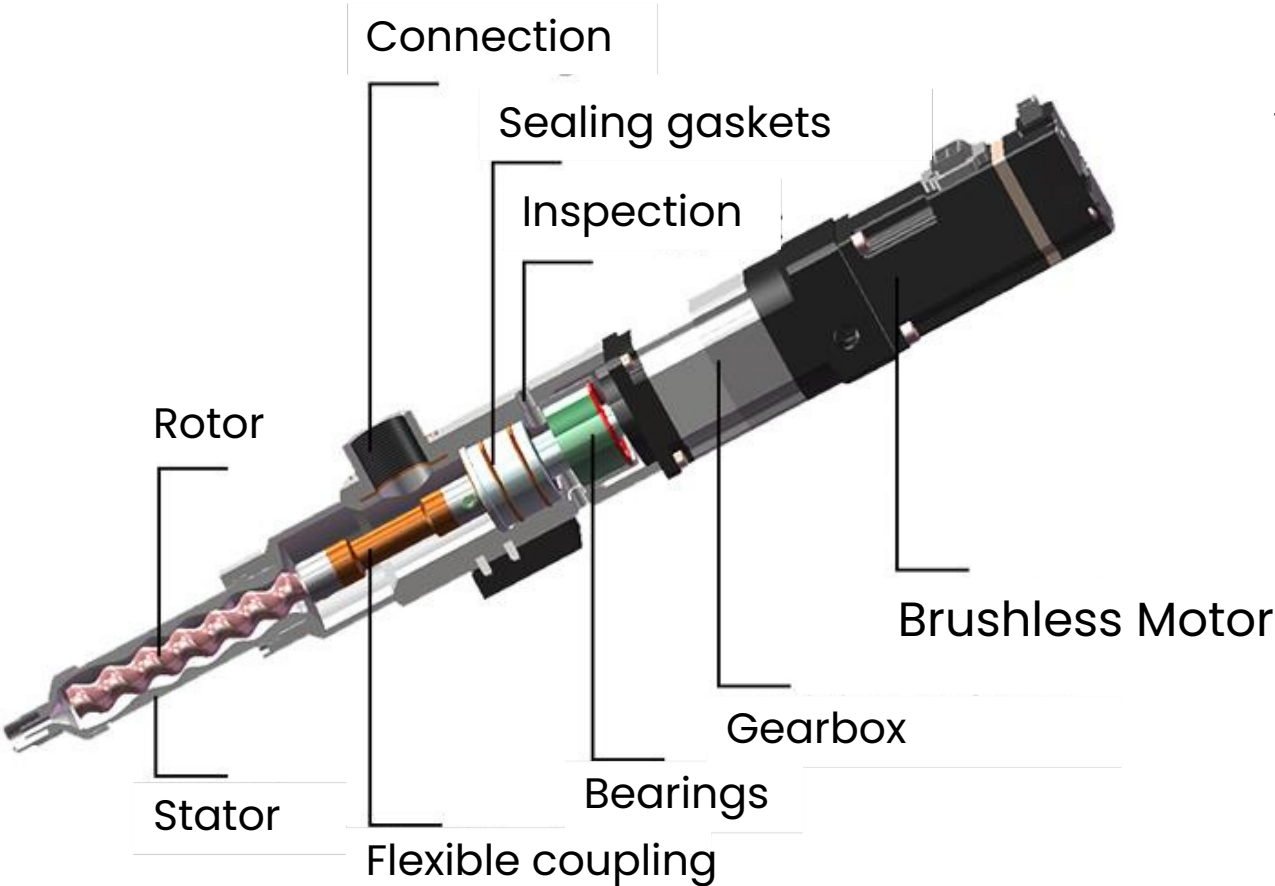
Standard rotors are made of ceramic, offering high resistance to both wear and heat; optionally, rotors assembled in AISI 316 stainless steel can be supplied.
- **3. High Efficiency Seals**

The seals offer high resistance to corrosion and good wear resistance.

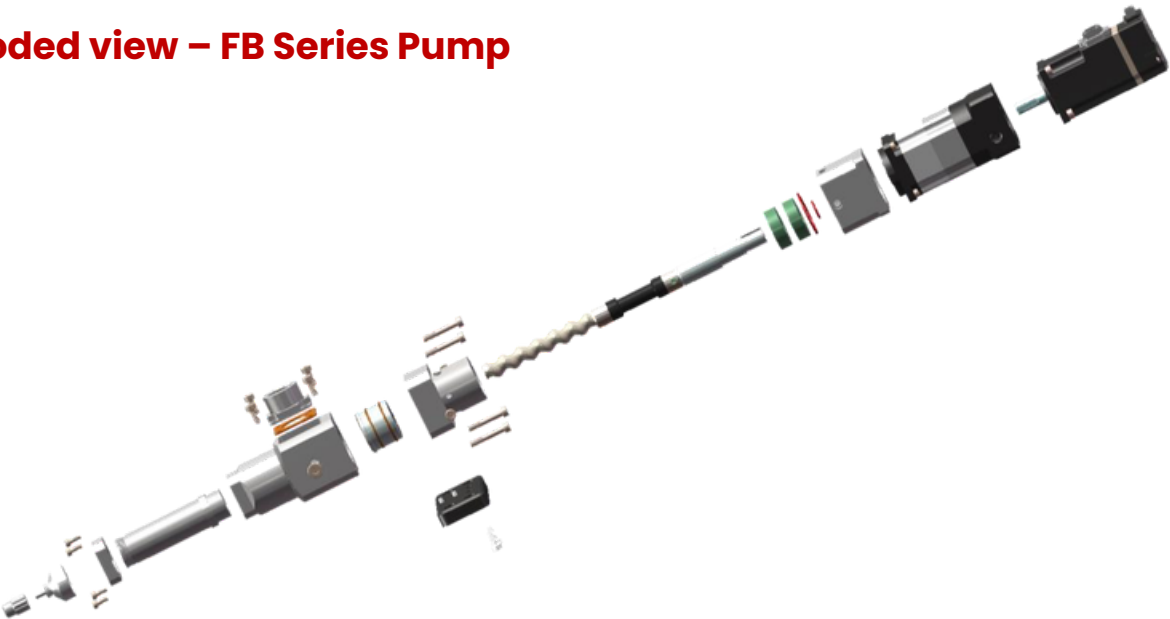


Technical drawings

■ **Section view – FB Series Pump**

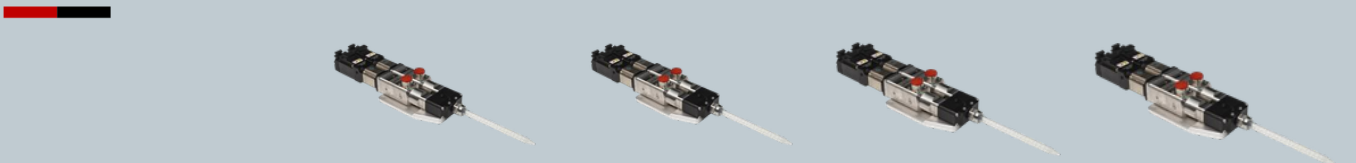


■ **Exploded view – FB Series Pump**

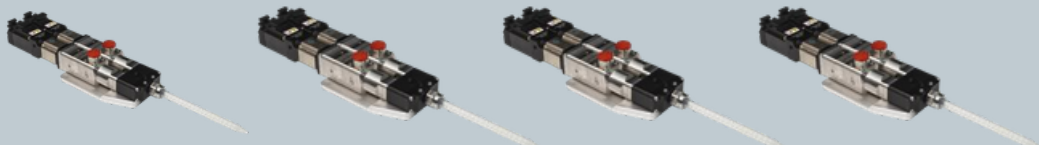




FB 2K-PCP Series Pumps for Two-Component Materials



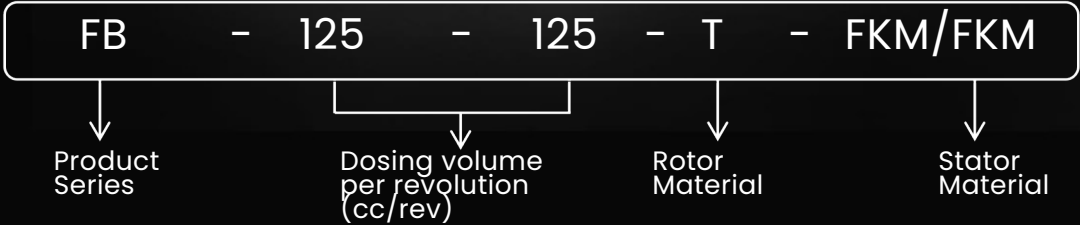
	FB125-125	FB350-350	FB1000-1000	FB1000-350
Dimensions (mm)	43x87xL380		43x87xL400	43x87xL380/400
Weight(kg)	4.9		5.1	5
Inlet Pressure (MPa)	0.1-0.8			
Outlet Pressure (MPa)	≥2			
Dosing (cc/rev)	≈0.250	≈0.700	≈2.000	≈1.350
Motor Speed (RPM)	1~120			
Dosing/minute (ml)	≈30	≈84	≈240	≈162
Viscosity Range (cps)	1-500,000			
Stator Materials	FKM/FFKM/PU/EPDM			
Rotor Materials	Ceramic/SS			
Body Materials	SS304			
Inlet Dimensions	G1/2"			
Outlet Dimensions	Available for MC static mixer			
Dosing Precision	≤±1%			
Working Temperature	5~80			
Reduction Ratio	25:1			
Motor Type	Brushless or Stepper			



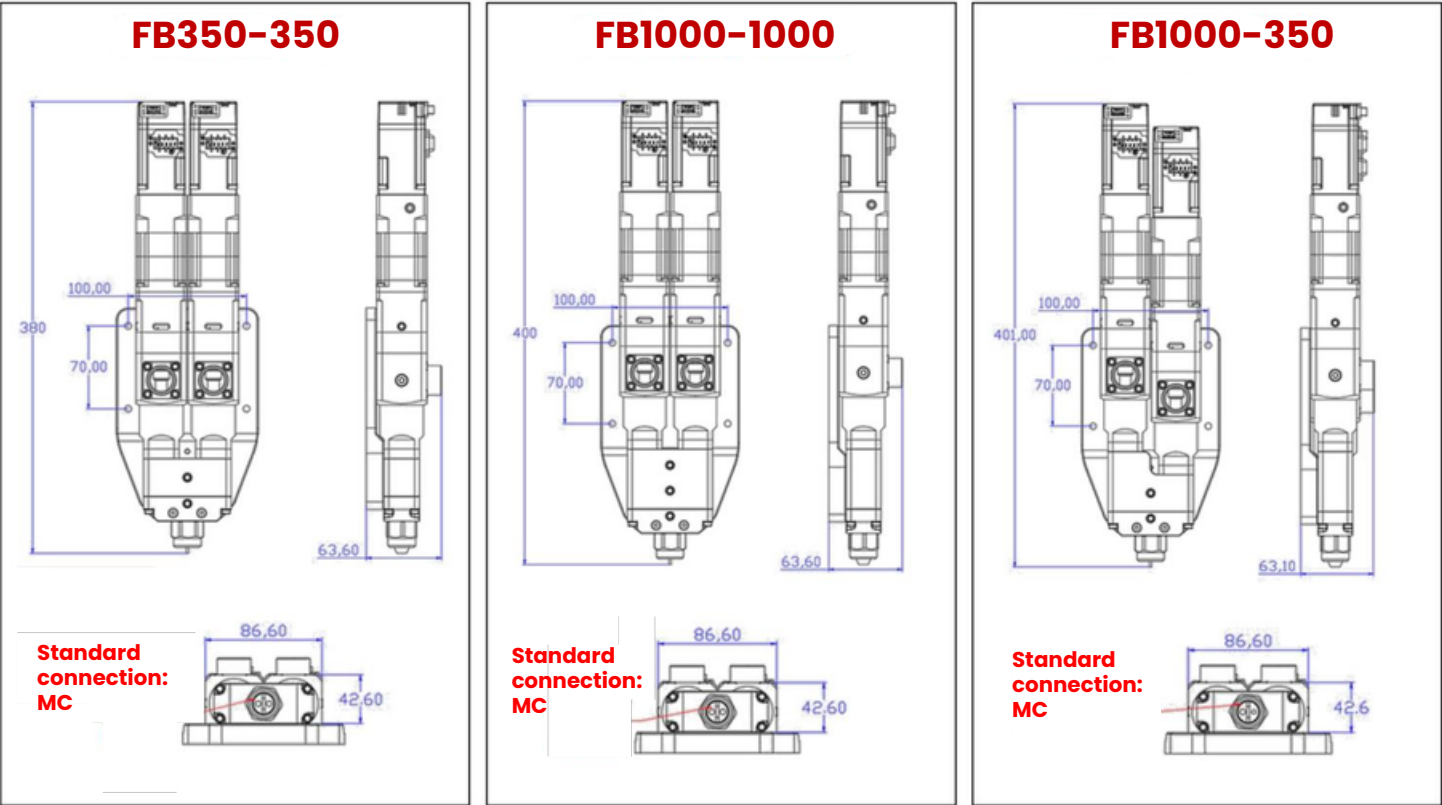
	FB1000-125	FB1800-1800	FB5000-5000	FB5000-1800
Dimensions (mm)	43x87xL380/400	43x87xL380		43x87xL400
Weight(kg)	5	4.9		5.1
Inlet Pressure (MPa)	0.1-0.8			
Outlet Pressure (MPa)	≥2			
Dosing (cc/rev)	≈1.125	≈3.400	≈10.000	≈6.700
Motor Speed (RPM)	1-120			
Dosing/minute (ml)	≈135	≈400	≈12000	≈800
Viscosity Range (cps)	1-500,000			
Stator Materials	FKM/FFKM/PU			
Rotor Materials	Ceramic/SS			
Body Materials	SS304			
Inlet Dimensions	G1/2"			
Outlet Dimensions	Available for MC static mixer			
Dosing Precision	≤±1%			
Working Temperature	5~80			
Reduction Ratio	25:1 Ratio			
Motor Type	Brushless or stepper			



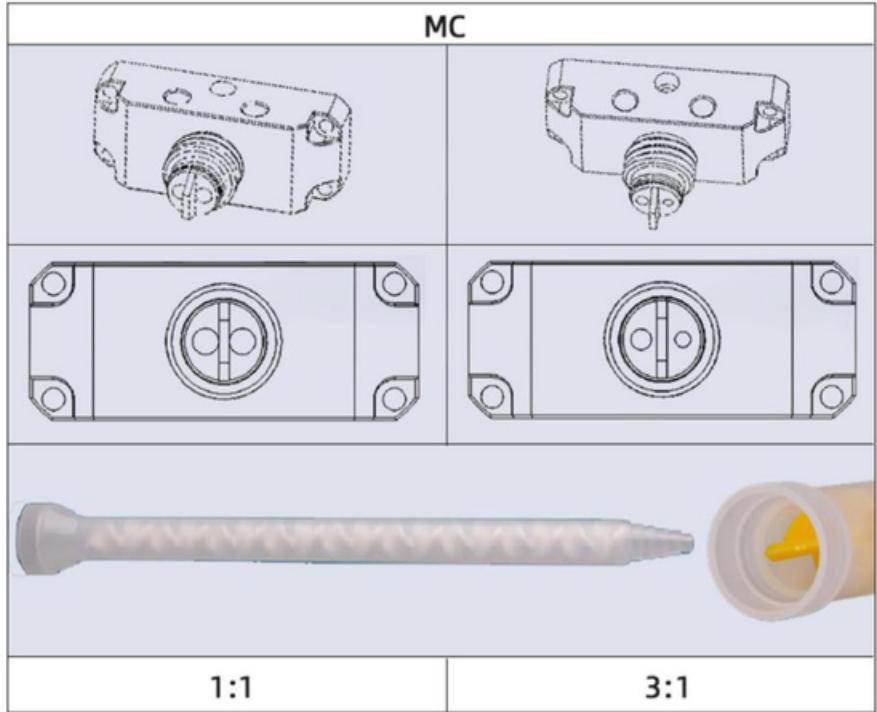
Coding



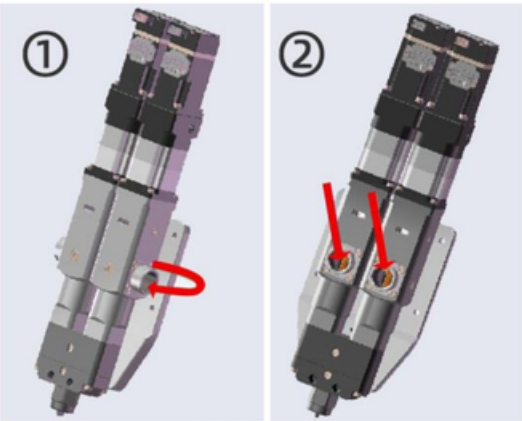
Dimensions



2K-PCP Options for mixer connector

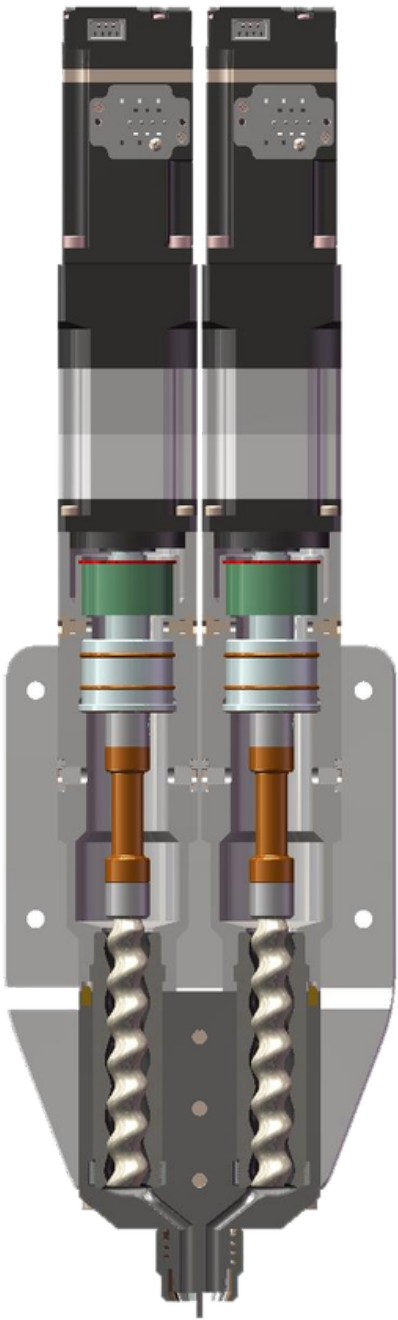


2K-PCP Input connection options



Technical Drawings

■ Section view



■ Exploded View





FC Series Pumps – PCP

Model	FC-2.8CC	FC-5CC	FC-10CC	FC-17CC	FC-30CC
					
Dimensions (mm)	62x62xL516	62x62xL546	62x62xL576		
Weight(kg)	6	6.5	7		
Inlet Pressure (MPa)	0.1-1				
Outlet Pressure (MPa)	≥2				
Dosing (cc/rev)	≈2.800	≈5.000	≈10.000	≈17.000	≈30.000
Motor Speed (RPM)	1~120				
Dosing/minute (ml)	≈336	≈600	≈1200	≈2000	≈3600
Viscosity Range (cps)	1-1,000,000				
Stator Materials	FKM/FFKM/PU				
Rotor Materials	Ceramic/SS				
Body Materials	SUS304				
Inlet Dimensions	G1,K F40, Quick-change chuck 50.5				
Outlet Dimensions	G3/4", KF40, KF25, KF16, Quick-change chuck 50.5				
Dosing Precision	≤±1%				
Working Temperature	5~80				
Reduction Ratio	25:1 Ratio				
Motor Type	Brushless or stepper				

Technical details

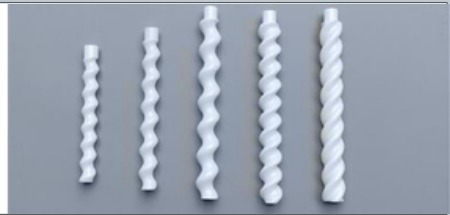
1. Stators

Available in FFKM, FKM, PU, and EPDM.



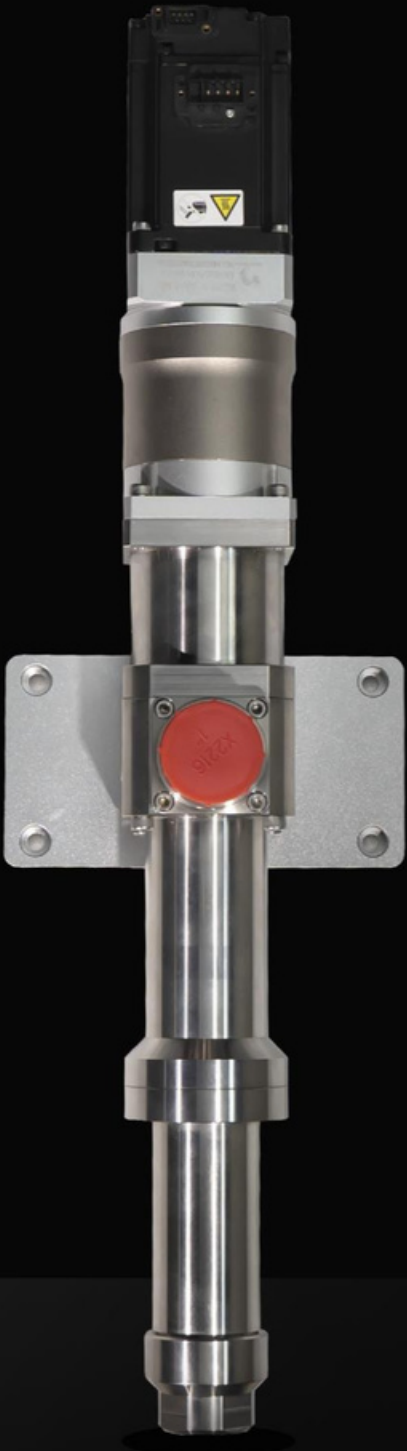
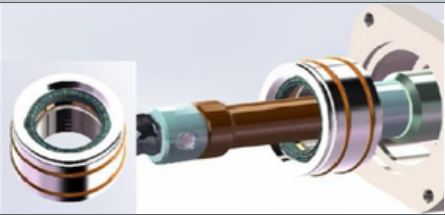
2. Ceramic and SS Rotors

Standard rotors are made of ceramic, offering high resistance to both wear and heat; optionally, rotors assembled in AISI 316 stainless steel can be supplied.

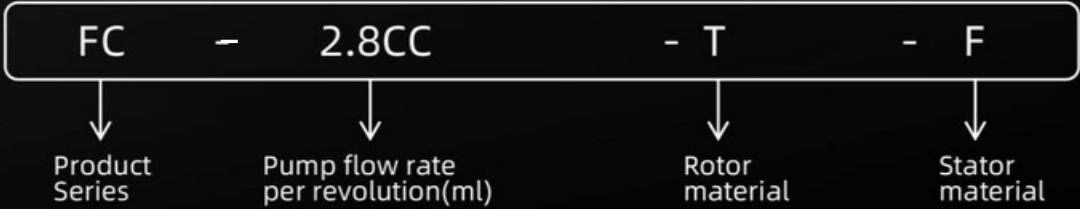


3.High Efficiency Seals

The seals offer high resistance to corrosion and good wear resistance.

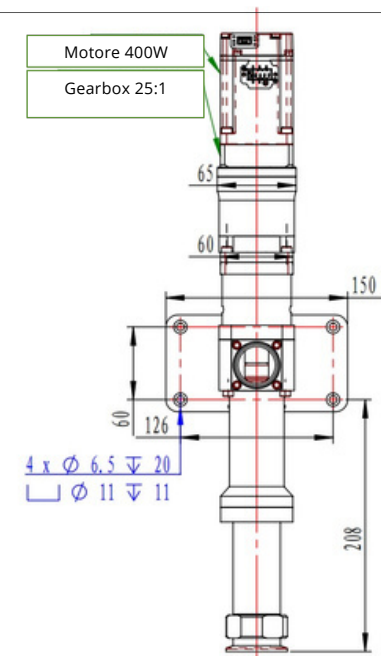
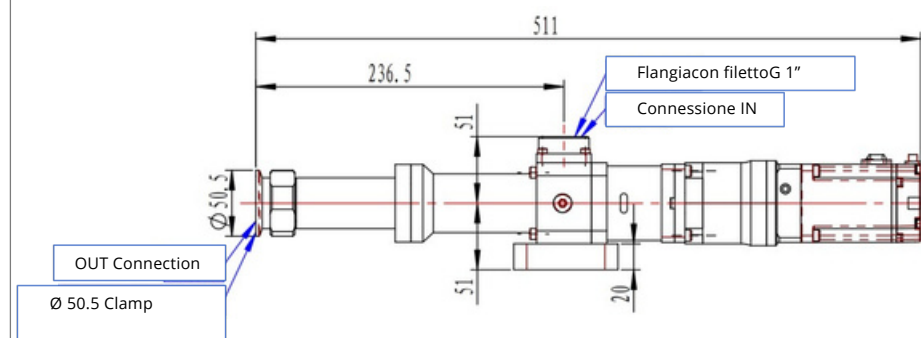


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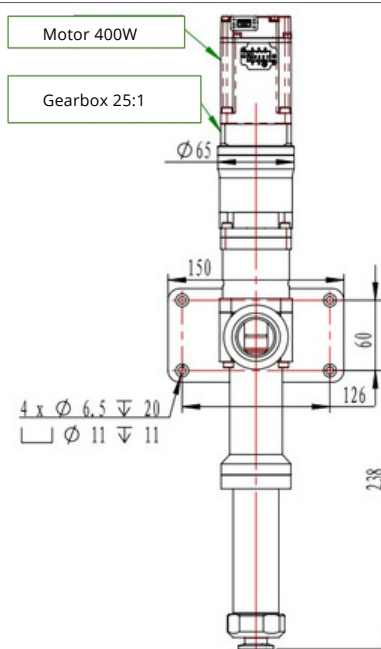
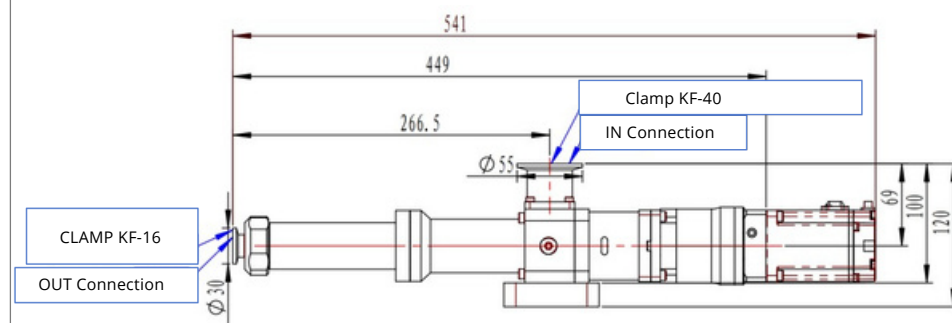


Dimensions

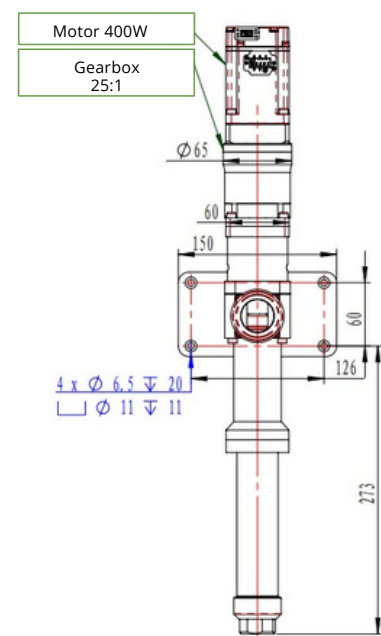
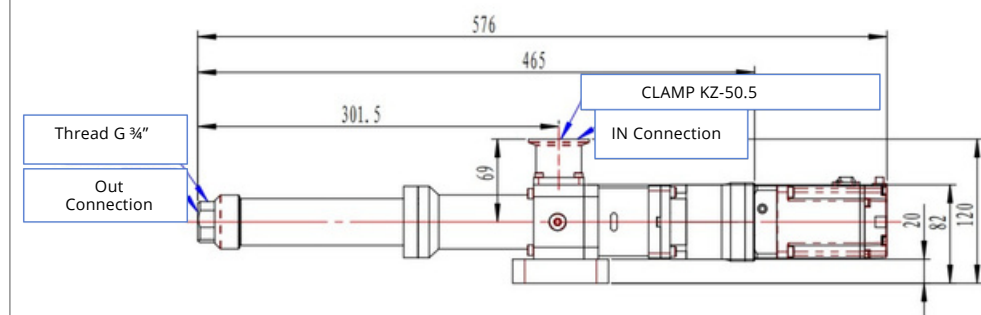
■ FC-2.8CC-SSB-G



■ FC-5CC-SSB-KF

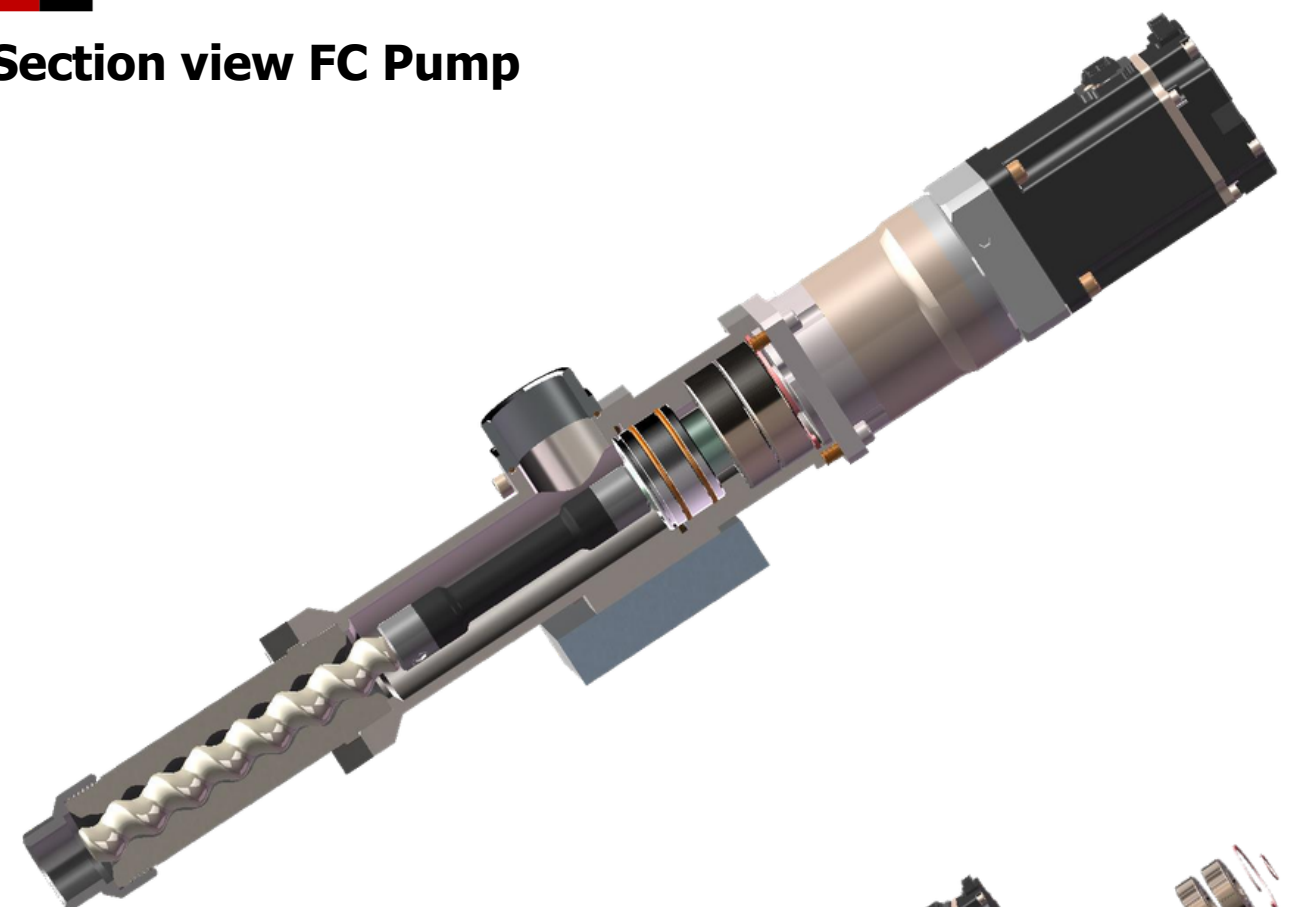


■ FC-10/17/30CC-SSB-KZ

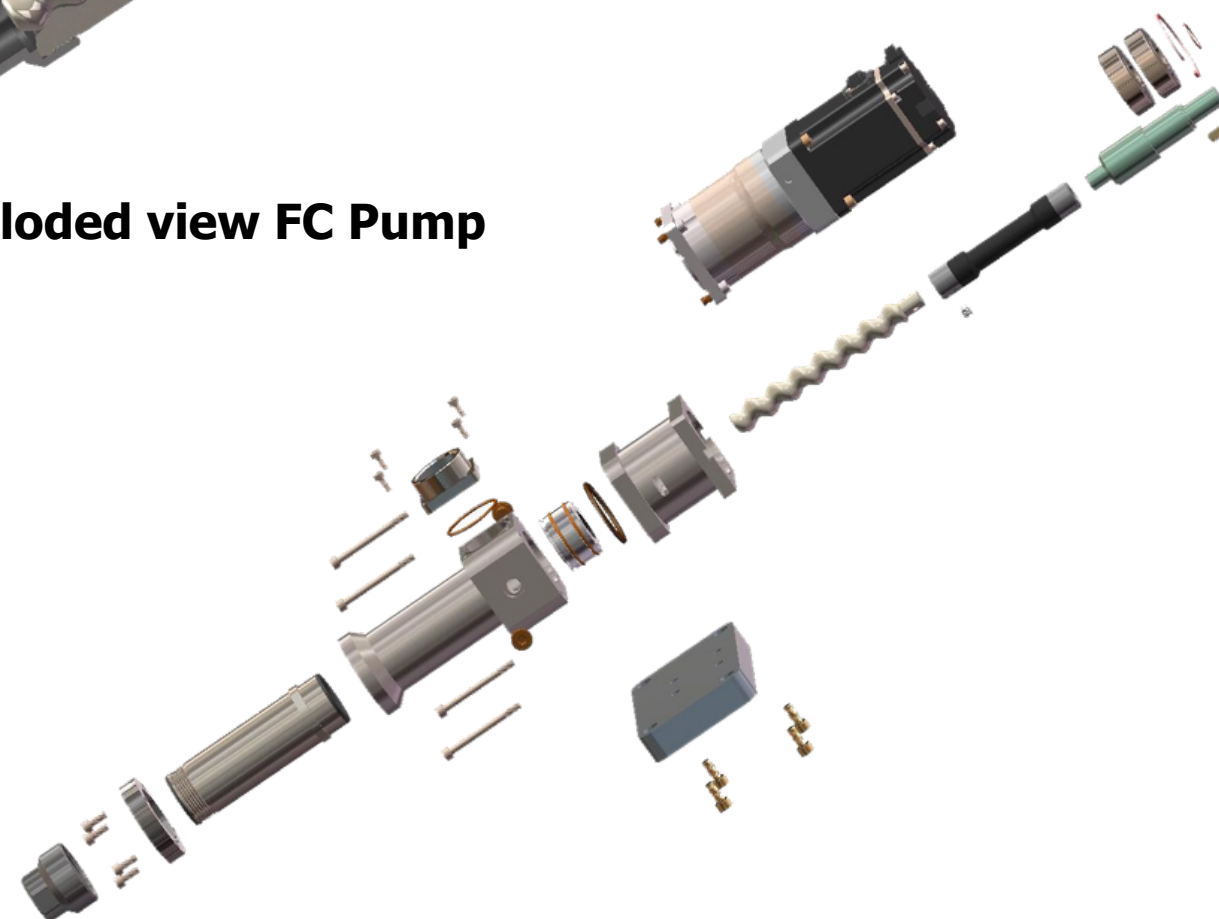


Technical drawings

■ Section view FC Pump

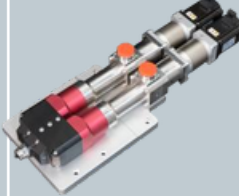
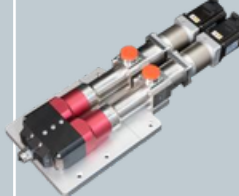
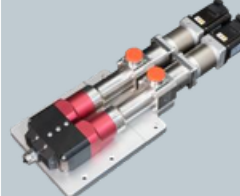


■ Exploded view FC Pump





FC-2K Series Pumps - PCP

Model	FC-5CC&AB	FC-10CC&AB	FC-17CC&AB	FC-30CC&AB
				
Dimensions (mm)	62x130xL588	62x130xL618		
Weight(kg)	15	18		
Inlet Pressure (MPa)	0.1-1			
Outlet Pressure (MPa)	≥2			
Dosing (cc/rev)	≈10.000	≈20.000	≈34.000	≈60.000
Motor Speed (RPM)	1~120			
Dosing/minute (ml)	≈1200	≈2400	≈4000	≈7200
Viscosity Range (cps)	1-1,000,000			
Stator Materials	FKM/FFKM/PU/EPDM			
Rotor Materials	Ceramic			
Body Materials	Inox			
Inlet Dimensions	G1" G1/2"			
Outlet Dimensions	MC Mixers			
Dosing Precision	≤±1%			
Working Temperature	5~80			
Reduction Ratio	25:1 Ratio			
Motor Type	Brushless or stepper			

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1. Stators

Available in
FFKM, FKM ,PU, EPDM



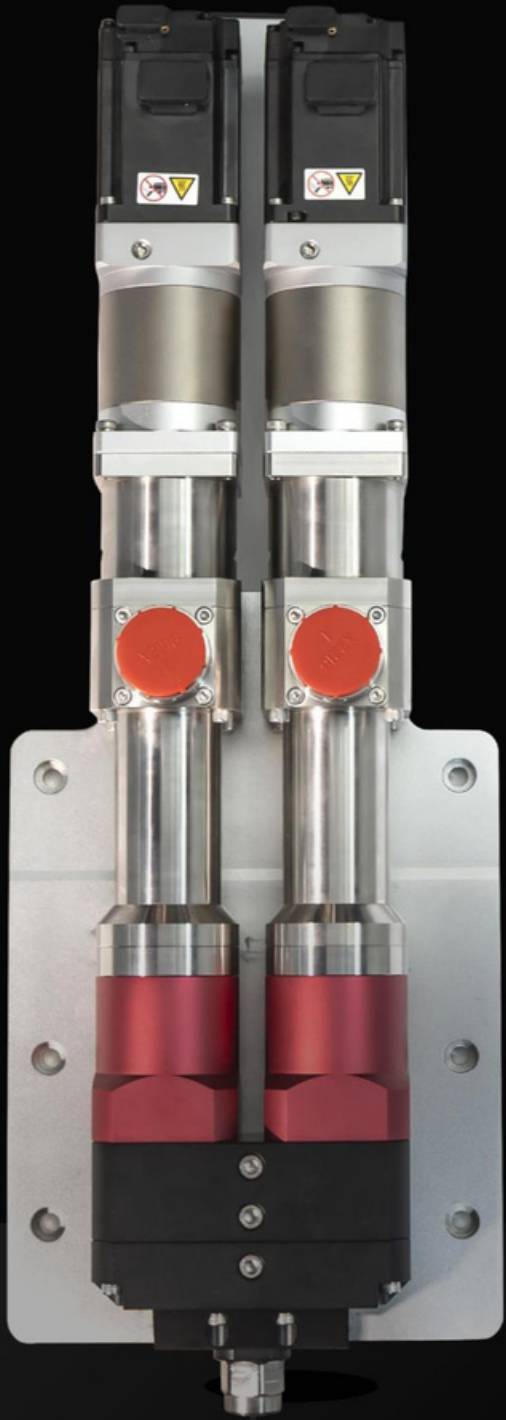
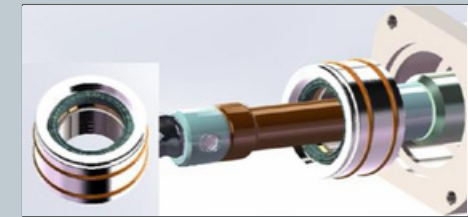
2. Ceramic and
Inox Rotors

Standard rotors are made of
ceramic, offering high resistance
to both wear and heat;
optionally, rotors assembled in
AISI 316 stainless steel can be
supplied.



3. High-Efficiency
Seals

The seals offer high
resistance to corrosion
and good wear
resistance.

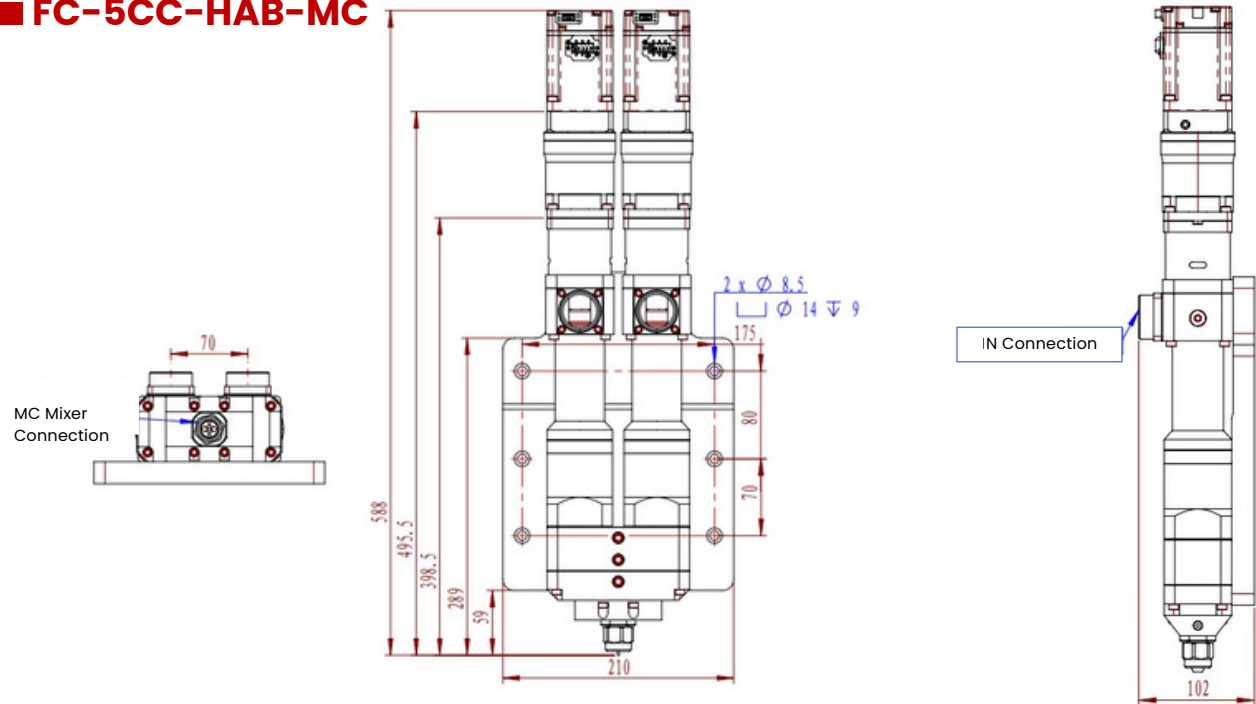


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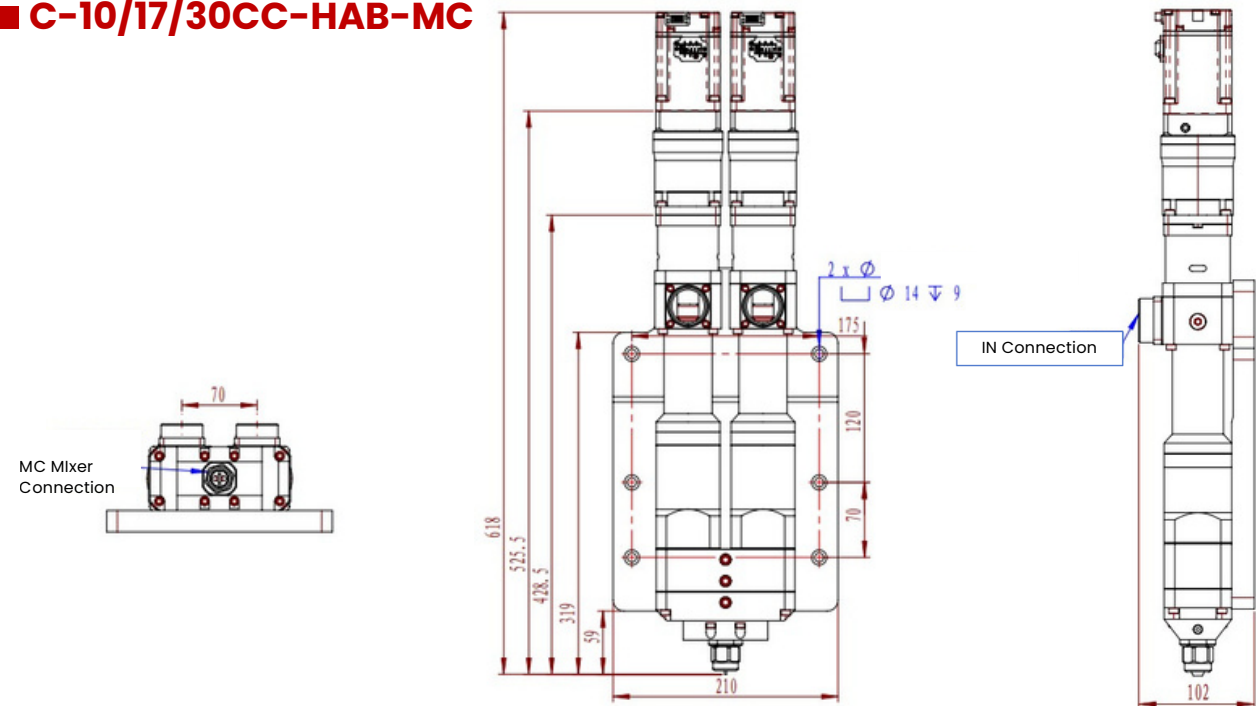


Dimensions

■ FC-5CC-HAB-MC



■ C-10/17/30CC-HAB-MC



Technical Drawings

■ FC Series Pump Section

■ FC Series Pump Exploded View

