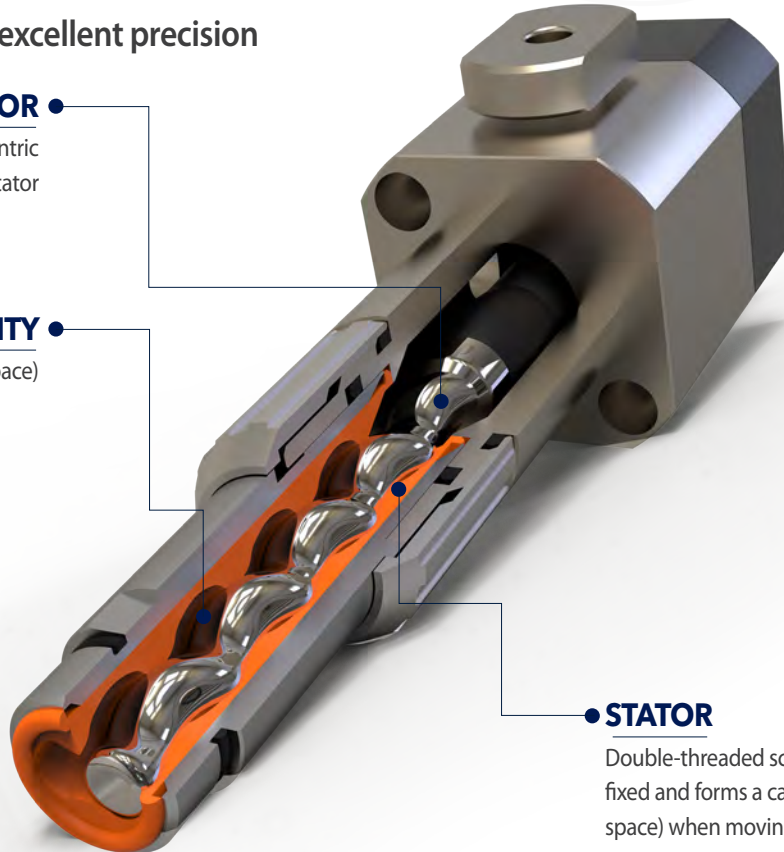


PRO-PUMP Principle & Features

Progressive cavity pumps allow accurate metering/feeding/dispensing of materials that are difficult release due to their innovative structure and excellent precision

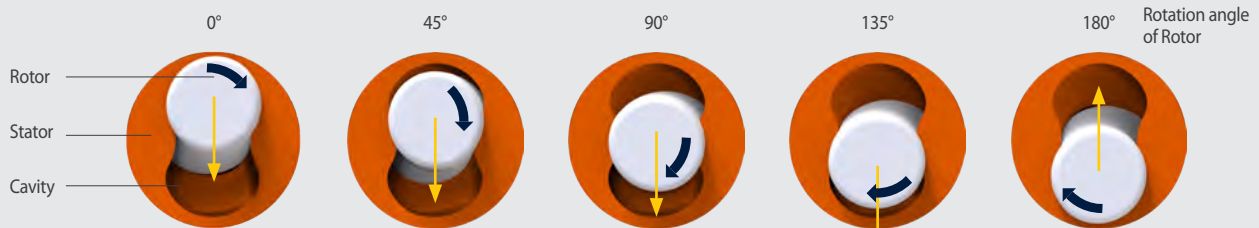
ROTOR ●
Single-threaded screw. Eccentric rotation when moving with stator

CAVITY ●
(Sealed space)



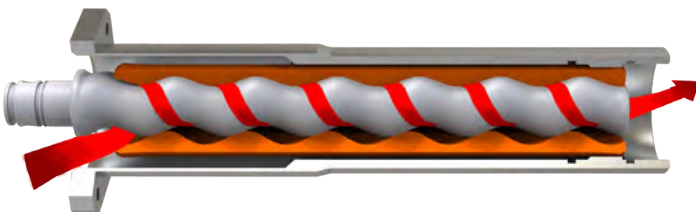
STATOR ●
Double-threaded screw, Stator is fixed and forms a cavity (sealed space) when moving with rotor.

“The combination of rotor and stator makes √Non-pulsating conveyance and √Precise metered displacement”



<Movement of cavity through 180° rotation of rotor>

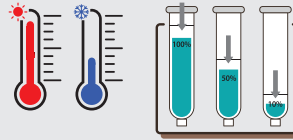
Since the cross-sectional area of cavity is always constant regardless of the position of the rotor, dispensing volume is also constant and dispensing volume per unit time is in direct proportion to rotation speed of rotor.



The cavity made by combination of rotor and stator is moved forward by the rotation of the rotor. Then, vacuum and pressure are generated at each of the pump inlet and outlet, resulting in successively dispensing of the material.

Accurate and consistent dispensing of material regardless of environmental factors

Due to the environment, materials are dispensed accurately and consistently even if viscosity changes or differential head changes in the container.



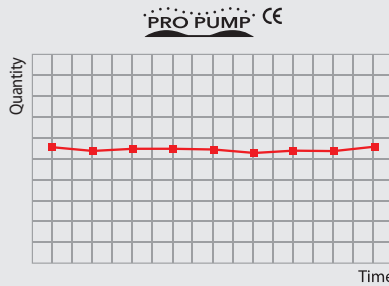
Clean dispensing without ball-up effect at the nozzle tip

The snuff-back function, which snuff back the material drop formed, eliminates or minimizes ball-up at the nozzle tip.



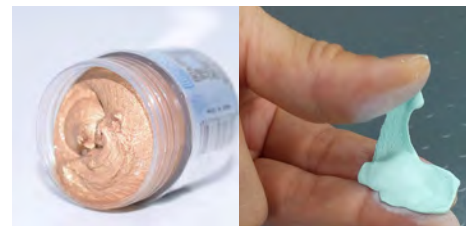
Consistent dispensing with non-pulsating by the movement of rotor and stator

Regardless of the position of the rotor, the cross-sectional area of constant cavity always create a constant pressure so that the exact metered volume can be dispensed consistently.



Even dispensing by precise metering of materials that are difficult to dispense by using gear pump or pneumatic valve

Precise volume of material with filler is dispensed without impairing fillers under the cavity displacement dispensing process.



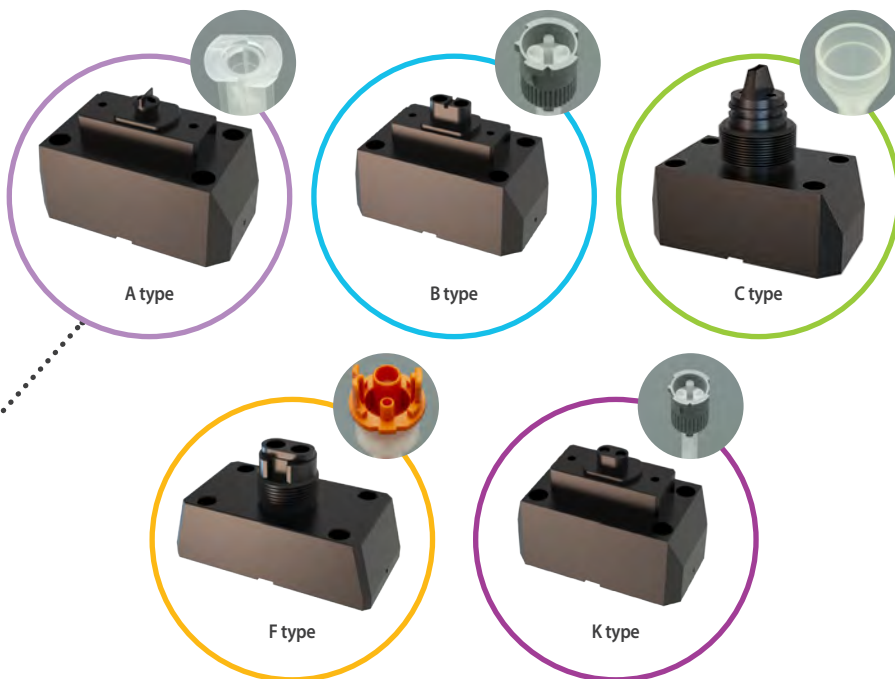
Disassembly and reassembly for maintenance and cleaning is easy because of simple structure of the pumping unit.





Item	Model	PDP-005	PDP-015	PDP-050	PDP-150
Dimension (WxDxH) (mm)		60 x 30 x 260			67 x 35 x 310
Weight		1.12kg			1.66kg
Input Pressure		0 ~ 0.6MPa			
Max Dosing Pressure		2.0MPa			
Viscosity		10~ 300,000 cPs			
Dosing Volume/Rev		≒0.01mℓ	≒0.03mℓ	≒0.10mℓ	≒0.30mℓ
Motor Speed		1 ~ 120rpm			
Dosing Accuracy		± 2%			
Material of Stator		PF, F, EP, UPE, EPPF, EPUPE, FPF, FUPE, TPE, EPA			
Material Inlet Port		Inlet Adapter or Tap Type(BSPT 1/4)			
Material Outlet Port		Mix Adapter A/B/C/F/K type			
Controller		PDC-100			

Mix adapter The Mix adapter, which is installed when applying a static mixer to the PRO-DUO PUMP, has different models depending on the type of static mixer and mix ratio of 2K materials.





Item	Model	PDP-500	PDP-1000	PDP-1500	PDP-2000	PDP-5000
Dimension (WxDxH) (mm)		67 x 35 x 310	67 x 35 x 340	100 x 45 x 390	170 x 65,6 x 600	
Weight		1,66kg	1,8kg	5,0kg	12,5kg	
Input Pressure		0 ~ 0,6MPa				
Max Dosing Pressure		1,0MPa	1,2MPa	2,0MPa		
Viscosity		10~300,000 cps			10~500,000 cps	
Dosing Volume/Rev		≒1,0ml	≒2,0ml	≒3,0ml	≒4,0ml	≒10,0ml
Motor Speed		1 ~ 120rpm	1 ~ 150rpm			
Dosing Accuracy		± 2%				
Material of Stator		PF, F, EP, UPE, EPPF, EPUPE, FPF, FUPE, TPE, EPA				
Material Inlet Port		Inlet Adapter or Tap Type(BSPT 1/4)		Inlet Adapter or Tap Type(BSPT 3/8)		Tap Type(BSPT 3/8)
Material Outlet Port		Mix Adapter A/B/C/F/K type			Mix Adapter C/F type	
Controller		PDC-100		PDC-1000		

PRO-DUO PUMP series is a compact and innovative 2-component dispenser that delivers excellent accuracy to the dispensing of difficult materials. This volumetric pump that allows the user to directly control the mix ratio of the 2-component materials

It has originality eccentric screw structure, so it is dispensed steadily by mixing 2-component material for a long time. It is highly efficient, reproducible, accurate and high degree of precision compared to other volumetric pumps. The volume of dosing can be adjusted quickly and easily with the control of the rotation and speed of the rotor. Possible to be applied to various situations, such as viscosity or mixing ratio difference between 2-component materials. Replacing the disposable mixer instead of cleaning the pump itself makes maintenance easier and economical dispensing possible.



The PDPX series is a pump that is applied when the viscosity difference or mixing ratio between the two components is big, and is produced by combining pumps of different capacities. There are various X-combinations of pumps and please consult with our sales representative before producing pumps.



PDP BARREL MODULE SYSTEM
BARREL (300,200,100,70,50,30cc)



Material feeding : Barrel	Capacity(cc)
	30
	50
	70
	100
	200
300	

※ See the page of 70 for details

We provide the best dispensing system with the most suitable material feeding for the 2K material and

<2K System



PDP CAN PUMP SYSTEM
DUAL CAN PUMP(1,3,5,18kg Can)



PRO-CPD20(20L Dual Can Pump)



Material Feeding : Can Pump	Capacity (kg)
	1.0
	3.0
	5.0
	18.0

※ See the page of 70 for details

by combining the PDP series container/device/equipment dosing conditions.

PDP CARTRIDGE MODULE SYSTEM

CARTRIDGE (170,340,650,1000cc,Sealant 330cc)

Configuration >



	Capacity (cc/Oz)
Material feeding: Cartridge	170 / 6
	340 / 12
	650 / 20
	1000 / 32
	Sealant Cartridge(330cc)

※ See the page of 72-73 for details



PDP TANK SYSTEM

DUAL TANK (5, 10, 20, 30, 40, 60L)

	Capacity (L)
Material Feeding : Pressure Tank	5
	10
	20
	30
	40
	60

※ See the page of 52-53 for details



MFEV2(2K Material Feeding Equipment, Vacuum type)

MFSV2(2K Material Feeding System, Vacuum type)