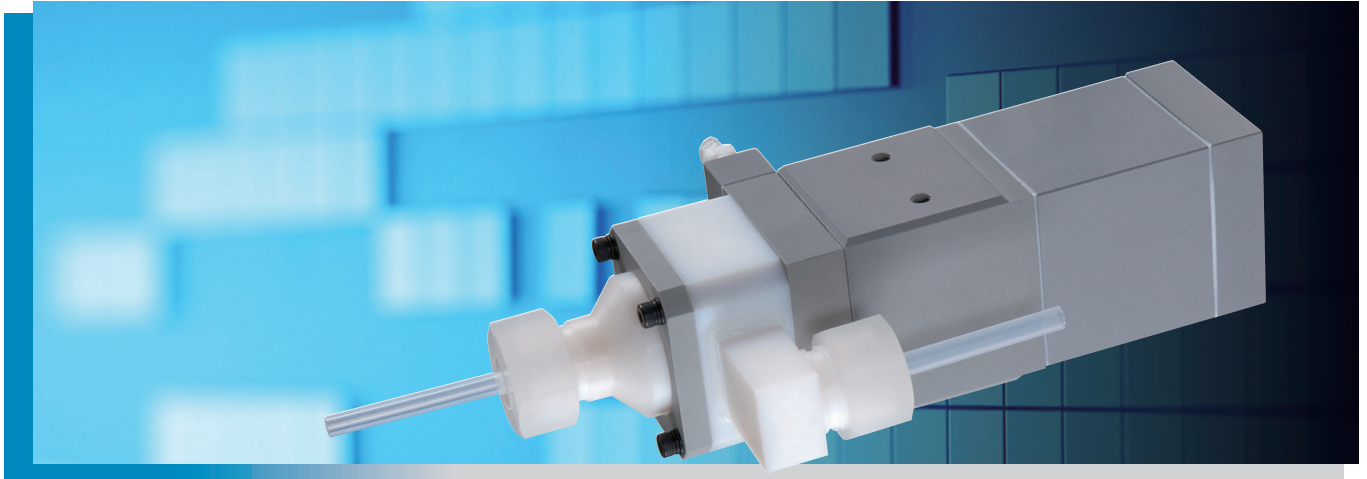


Highly accurate pneumatic metering pump



CFD Series pumps always feed the exact amount of chemical without overshoot.

- Capable of 1% repeatability leading to the efficient use of chemistry and fast replenishment without over-shooting the target.
- PTFE and PFA wetted parts ensure process purity, as does an integral leak detection sensor.
- Suction and discharge ball check valves reduce the number of fittings associated with external valving and make installation easy.
- Integration with existing process controllers is simple
- Design includes optical position sensor and integral leak sensor.



Chemical Replenishing Pumps CFD

Excellent performance for strong acid and alkali replenishment in semiconductor manufacturing.

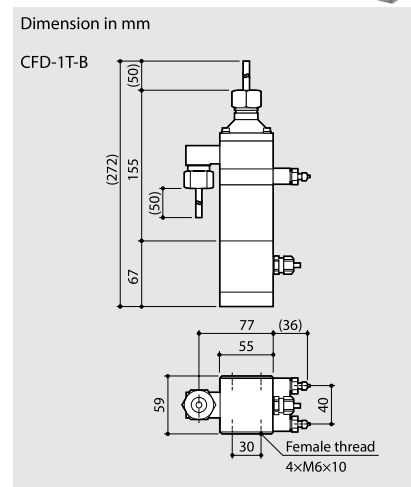
CFD
series

- Accurately dispenses the minimum required amount of chemical. Ideal for controlling the concentration of wafer cleaning solution. The pump prevents the concentration overshooting and contributes to cost reduction of the solution.
- All wet end parts are made of fluoroplastic (PTFE, PFA, PCTFE) and are compatible with chemicals such as strong acid, strong alkali and hydrogen peroxide. The outer parts of the pump are made of plastic with coated bolts.
- The pump is a pneumatic drive bellows pump safely powered by compressed air. The siphon prevention mechanism prevents the outflow of chemical. CFD-1T-B is equipped as standard with a leak sensor that detects bellows damage.
- The discharge capacity can be flexibly adjusted for a wide range. Factory default setting is as follows; CFD-1T-B : 1mL/shot, CFD-8T-B : 8mL/shot.

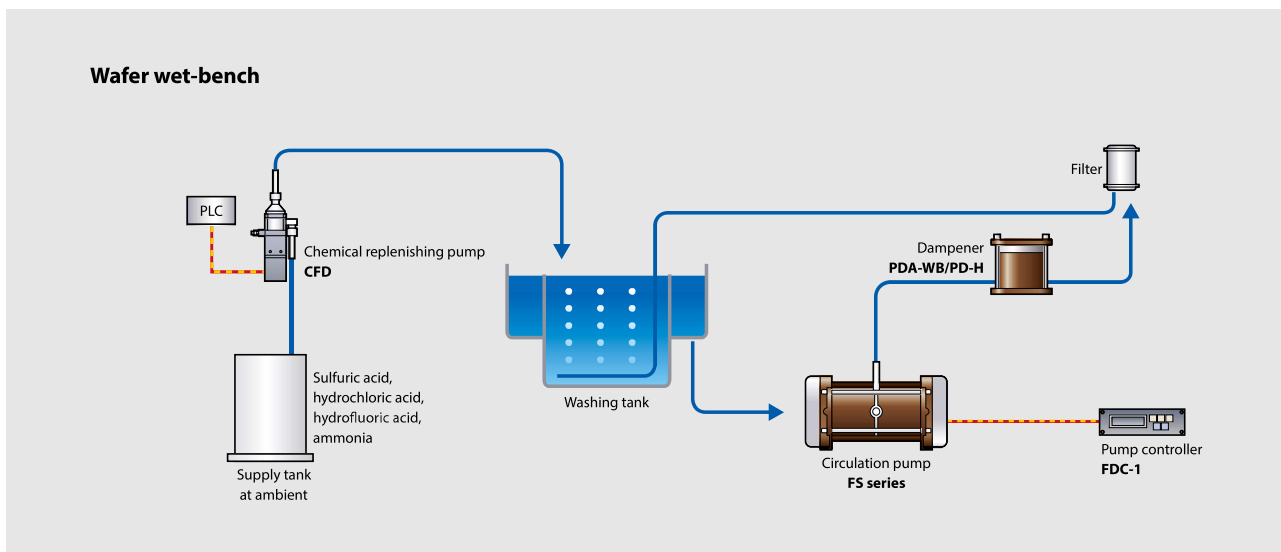


Model		CFD-1T-B	CFD-8T-B
Pump specification	Application	Chemical replenishing	
	Discharge capacity	1 ^{Note1}	8 ^{Note2}
	Max. discharge pressure		0.05
	Liquid temperature range		20 - 60
	Max. stroke speed		30
	Max. supply air pressure		0.15 - 0.3
	Max. air consumption	2.5	5.4
	Wet-end materials	PTFE, PFA, PCTFE	
	Liquid port bore	1/4" PFA tube (Ø6.35×Ø4.35mm)	
	Supply air port bore	Rc1/8	M5
Mass	kg	1.1	1.5
Photosensor specification	Product name	Transmission type micro photo sensor	
	Power voltage	5 - 24V DC ±10%	5V DC ±10%
	Output mode	NPN transistor / open collector	Voltage output
	Allowable current	50 (mA) 以下	
	Cord	5m PVC 4 core cable with 0.5 - 4 round terminal	
	Cord outer dia.	Ø5.2mm	Ø6.5mm

Note1: Factory default setting. The discharge capacity can be changed within 0.4 to 2.7mL/shot.
 Note2: Factory default setting. The discharge capacity can be changed from 7 to 10mL/shot.



• Please contact us for CFD-8T-B dimensions.



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