

VENDOR CATALOG / PROMINENT FLUID CONTROLS

ProMinent Fluid Controls Catalog

Metering pumps, DULCOTEST sensors and controllers, and disinfection systems – from 1 ml/h precision dosing to 60,000 m³/h chlorine dioxide treatment.

DIAPHRAGM & PROCESS METERING PUMPS

beta/X · gamma/X · Sigma · ORLITA

Family capacity envelope for diaphragm metering pumps: 1 ml/h to 1,040 l/h at 25 to 2 bar.

Model	Type	Capacity Range	Pressure
beta/X	Solenoid-driven	10 ml/h–50 l/h	16–2 bar
Sigma X Control S3Cb	Motor-driven, smart/connected	182–1,040 l/h	12–4 bar
ORLITA MHRH	Hydraulic, metal diaphragm	3–4 l/h	3,000 bar – highest pressure in this catalog
ORLITA DR	Plunger, valveless	0–273 l/h	–30°C to +200°C; up to 10 ⁶ mPas viscosity



DULCOTEST PH & ORP SENSORS

Material Selection by Chemistry

A real, chemistry-driven material selection matrix: PHEF/PHEF-DJ for fluoride/HF service, PHEX/RHEX for high-solids no-chemical-contamination service.

Sensor	Application	Diaphragm
PHEF	Low pH with fluoride (etching solutions)	1x HDPE
PHEF-DJ	Low pH with fluoride (gas scrubbers)	2x PTFE, double junction
PHEX / RHEX	High-solids, no chemical contamination	Open ring diaphragm
PHED	Electroplating (Cr^{6+} , CN^-)	2x ceramic, double junction

Amperometric sensors cover free chlorine, total chlorine, chlorine dioxide, ozone, dissolved oxygen, peracetic acid, and hydrogen peroxide.



DISINFECTION & OXIDATION SYSTEMS

Bello Zon ClO_2 · CHLORINSITU Electrolysis · UV/Ozone

System	Type	Real Spec
Bello Zon CDKd	Concentrated HCl chlorine dioxide	7.5–12,000 g/h, treats up to 60,000 m ³ /h — largest single disinfection product in this catalog
CHLORINSITU III	On-site electrolysis hypochlorite	100–10,000 g/h chlorine, no chemical transport/storage
DULCODES LP certified	UV disinfection, DVGW/SGGW-certified	Flow up to 406 m ³ /h, DIN 19294-1 type-tested
OZONFILT OZMa	Maintenance-free ozone generator	70–420 g ozone/h

Output (g/h)	CDLb	CDLb H ₂ SO ₄	CDEb	CDVd	CDKd
15,000					
10,000					8-12,000
5000					
1000				3-2,000	
500					
100	0-120		5-300		
50		5-60			
10					
5					

Production process

	7.5 % NaClO ₂ + 9 % HCl	7.5 % NaClO ₂ + 25 % H ₂ SO ₄	7.5 % NaClO ₂ + 9 % HCl	7.5 % NaClO ₂ + 9 % HCl	24.5 % NaClO ₂ + 25 - 37 % HCl
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Applications

Combating Legionella	■				
Food and beverage industry	■	■	■	■	
Municipal drinking water and wastewater treatment	■		■	■	■
Industry (cooling tower wastewater/process water etc.)	■	■	■	■	■



NEXT STEP

Send LibertyCES the process data, not a part number.

Metering pumps, pH/ORP/chlorine sensors, and disinfection systems — real ProMinent model specs, but your actual application still has a specific chemical, flow rate, and dosing precision that determines the correct model.

Fluid, chemistry, concentration, temperature, required flow rate, and the parameters you need to monitor — that's what a real spec review needs to start.

Request a spec review

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