

VENDOR CATALOG / GEORG FISCHER / GF SIGNET

Georg Fischer / GF Signet Catalog

Flow, pH/ORP, conductivity, chlorine, and level instrumentation —
plus safety-critical process setpoints for chrome reduction and
cyanide destruction.

FLOW SENSORS

2551/2552 Magmeters · 2536 Paddlewheel

The 2536 PVC-body paddlewheel sensor (DN15-DN100) is explicitly rated for concentrated Sodium Hypochlorite 12.5% applications – an independent flow-instrumentation confirmation for this chemistry.

Model	Body	Max Temp/Pressure	Notable
2551 Insertion Magmeter	PP or PVDF	85°C / 10.3 bar	DN15-DN900, bi-directional, empty pipe detection
2552 Metal Magmeter	316L SS	100°C / 20.7 bar	DN50-DN2550, hot-tap capable, NIST cert included
2536 Paddlewheel (PVC)	PVC (DN15-DN100)	85°C / 14 bar	Rated for concentrated Sodium Hypochlorite 12.5%
2000 In-line Micro Flow	PPS (glass-filled)	80°C / 5.5 bar	Not recommended for strong oxidizers

Effortlessly connected

GF 2581 FlowtraMag® Meter





PH/ORP ELECTRODES

2764-2767 "Harsh Chemicals" Family

A customer needing pH/ORP monitoring in a stream containing mercury, copper, lead, cyanide, sulfide, or silver-complexing chemicals should be quoted the 2764-2767 differential family, not the general-purpose 2724-2726/2734-2736 family.

Family	Construction	Poisoning-Ion Rating
2724-2726 / 2734-2736 General Purpose	Ryton (PPS) body, UHMWPE or PTFE junction	** Compatible (lowest non-excluded tier)
2764-2767 Harsh Chemicals	Differential 3-electrode, refillable reference chamber	***** Better (Hg, Cu, Pb, ClO ₄ , Br, I, CN, S ₂ -)
2774-2777 Hybrid	PTFE double reference junction	Blocks Cu ²⁺ /Pb ²⁺ /Hg ²⁺ specifically

HF <2% rates a hard binary across every family: Ø (Not Recommended) or ***** (Better) — no middle ground, requiring the dedicated HF-resistant glass variant.





CHLORINE & CONDUCTIVITY SYSTEMS

4630 Chlorine Panel · 2823 Conductivity

Model	Range	Notable
4630 Chlorine Panel	0.02-20 ppm free chlorine	Flow tolerance ±15%, NEMA 4X, w/ pH sensor
4632 ClO2 Panel	0.02-2 ppm	Reagent-free, constant flow/pressure regardless of inlet
2823 Conductivity	200-400,000 µS	Only cell constant explicitly rated for concentrated acids/bases/cleaners

Rule of thumb: the higher the cell constant, the more concentrated/aggressive the chemical the electrode is designed for.



2822



2823



APPLICATION SOLUTIONS

Chrome Reduction & Cyanide Destruction Setpoints

Real, regulatorily load-bearing pH/ORP setpoints with explicit vendor-stated safety hazards.

Process	Setpoint	Safety Note
Chrome Reduction	pH 2.0-2.5, ORP -300mV to -400mV	Lowering pH too far risks SO ₂ gas release
Cyanide Destruction (Batch)	Stage 1 pH 11.5, ORP +450mV	Acid injection must be locked out below pH 11 – risk of cyanogen chloride gas
Cyanide Destruction (Two-Step)	Stage 1: oxidation below 0.1 ppm; Stage 2: H ₂ SO ₄ lowers pH	pH must be adjusted rapidly to avoid cyanogen chloride gas release



NEXT STEP

Send LibertyCES the process data, not a part number.

Flow, pH/ORP, conductivity, chlorine, and level instrumentation — real GF Signet model specs, but your actual application still has a specific chemical, concentration, and process setpoint that determines the correct model.

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

Request a spec review

james@libertyces.com

(559) 395-5500

libertyces.com