

Table of Contents

SECTION 1 SOLENOID DRIVEN METERING PUMPS

1.0	ProMinent® Alpha Dosing Pumps	
1.0.1	Technical Data for Alpha Dosing Pumps	1.1
1.0.2	Technical Data for Alpha Dosing Pumps	1.2
1.0.3	Identity Code for Alpha Dosing Pumps	1.3
1.0.4	Pricing Schedule for Alpha Dosing Pumps	1.4
1.1	ProMinent® Beta & Concept Metering Pumps	
1.1.1	Technical Data & Identity Code for Beta 4 & 5	1.5
1.1.2	Technical Data & Identity Code for Beta 4 & 5	1.6
1.1.3	Identity Code and Pricing Schedule for Beta 4 & 5	1.7
1.1.2	Technical Data & Identity Code for Beta 4 & 5	1.8
1.1.3	Identity Code and Pricing Schedule for Beta 4 & 5	1.9
1.1.4	Pricing Schedule for Beta 4 & 5 Spare Parts Sets	1.10
1.1.5	Pricing Schedule for Beta 4 & 5 Spare Parts Sets	1.11
1.1.6	Notes	1.12
1.1.7	Timer Pumps	1.13
1.1.8	Notes Concept Pump Spares CONb & CNPa	1.14
1.2	ProMinent® Gamma L Metering Pumps	
1.2.1	ProMinent Gamma L	1.15
1.2.2	Technical Data & Materials for Gamma L	1.16
1.2.3	Identity Code & Prices for Gamma L	1.17
1.2.6	Accessories - spare parts sets for Gamma	1.18
1.2.7	Accessories - spare parts sets for Gamma	1.19
1.2.7	Notes	1.20
1.3	ProMinent® Delta® Metering Pumps	
1.3.1	ProMinent Delta®	1.21
1.3.2	Technical data and Material in contact with media	1.22
1.3.3	Identity Code & Prices for Delta®	1.23
1.3.4	Spare Parts for Delta®	1.24
1.4	ProMinent® EXtronic Metering Pumps	
1.4.1	Technical Data for EXtronic	1.25
1.4.1	Technical Data for EXtronic	1.26
1.4.2	Identity Code for EXtronic	1.27
1.4.3	Materials for EXtronic	1.28
1.4.4	Accessories - valves for EXtronic	1.29
1.5	ProMinent® Pneumados Metering Pumps	
1.5.1	Technical Data	1.30
1.5.2	Technical Data	1.31
1.5.3	Identity Code and Price List for Pneumados	1.32
1.5.4	Electrical & Schematic layout for Pneumados	1.33
1.6	ProMinent® DULCO® flex Pumps	
1.6.1	Technical Data	1.34
1.6.2	Identity Code and Price List for DULCO® flex	1.35
1.6.3	Technical Data	1.36
1.6.4	Identity Code and Price List for DULCO® flex DF4a	1.37
	Notes	1.38

SECTION 2 MOTOR DRIVEN Metering Pumps

2.0	ProMinent® High-Viscosity Metering Pumps	2.2
2.1	ProMinent® Sigma/ 1 Motor Driven Metering Pumps	
2.1.1	Technical Data for Sigma/ 1	2.3
2.1.2	Technical Data for Sigma/ 1	2.4
2.1.3	Identity Code & pricing for Sigma/ 1 S1BaH	2.5
2.1.4	Identity Code & pricing for Sigma/ 1 S1CbH	2.6
2.1.5	Spare parts kits for Sigma/ 1	2.7
2.2	ProMinent® Sigma/ 2 Motor-Driven Metering Pumps	
2.2.1	Technical Data for Sigma/ 2	2.8
2.2.2	Technical Data for Sigma/ 2	2.9
2.2.3	Identity Code & pricing for Sigma/ 2 S2BaH	2.10
2.2.4	Identity Code & pricing for Sigma/ 2 S2CbH	2.11
2.2.5	Spare parts kits for Sigma/ 2	2.12
2.3	ProMinent® Sigma/ 3 Motor-Driven Metering Pumps	
2.3.1	Technical Data for Sigma/ 3	2.13
2.3.2	Technical Data for Sigma/ 3	2.14
2.3.3	Identity Code & pricing for Sigma/ 3 S3BaH	2.15
2.3.4	Identity Code & pricing for Sigma/ 3 S3CbH	2.16
2.3.5	Spare parts kits for Sigma/ 3	2.17
2.4	ProMinent® Sigma/ 2 HK Motor-Driven Piston Metering Pumps	
2.4.1	Technical Data for Sigma/ 2 Piston Metering Pump & Spare Parts	2.18
2.4.2	Identity Code & pricing for Sigma/ 2 S2BaHK	2.19
2.4.3	Identity Code & pricing for Sigma/ 2 S2CaHK	2.20
2.5	ProMinent® Meta / MAKRO Motor-Driven Metering Pumps	
2.5.1	MAKRO TZ Diaphragm Metering Pumps	2.21
2.5.2	MAKRO TZ Diaphragm Metering Pumps identcode	2.22
2.5.2	MAKRO TZ Diaphragm Metering Pumps spare parts	2.23
2.5.3	Meta / MAKRO TZ Spare Parts Kits	2.24

Table of Contents

2.6	ProMinent® Hydro Hydraulic Diaphragm Metering Pumps	
2.6	Technical Data	2.25
2.6.1	Technical Data	2.26
2.6.2	Identity Code & pricing for Hydro / 2 - Single Head	2.27
2.6.3	Identity Code & pricing for Hydro / 2 - Double Head	2.28
2.6.4	Identity Code & pricing for Hydro / 3 - Single Head	2.29
2.6.5	Identity Code & pricing for Hydro / 3 - Double Head	2.30
2.6.6	Technical Data Hydro /4	2.31
2.6.7	Identity Code & pricing for Hydro / 4 - Single Head	2.32
2.6.8	Identity Code & pricing for Hydro / 4 - Double Head	2.33
2.6.9	Spare Parts Kits for Hydro /2 & Hydro /3 Diaphragm Metering Pumps	2.34
2.6.10	Spare Parts Kits for Hydro /4 Diaphragm Metering Pumps	2.35
	Adaptor sizes for Motor Pumps	2.36
2.7	2.7.1 Vario Spare Parts Kits	2.37
2.8	ProMinent® Makro/ 5 Piston Metering Pumps	
2.8.1	Makro/ 5 Piston Metering Pumps	2.38
2.9	ProMinent® ORLITA® Metering Pumps	
2.9.1	ORLITA® Metering Pumps	2.39
2.9.2	ORLITA® Metering Pumps Mf Liquid End, Diaphragm Head Mh	2.40
2.9.4	ORLITA® Metering Pumps Ps Piston Liquid End	2.40
2.9.5	ORLITA® Metering Pumps DR Valve-Free Piston Liquid End	2.40
2.9.6	ORLITA® Metering Pumps Classification	2.40
2.10	ProMinent® Spectra Progressive Cavity Metering Pumps	
2.10.1	Spectra Progressive Cavity Metering Pumps -Pricing	2.41
2.10.2	Spectra Progressive Cavity Metering Pump - Capacities	2.42

SECTION 3 PROMINENT ACCESSORIES

3.1	Foot Valves	3.2
3.2	Injection Valves	3.5
3.3	Back Pressure Valves / Relief Valves DHV-S-DL	3.9
3.4	Adjustable Relief Valves	3.10
3.5	Back Pressure / Relief Valves BPV-DM-E	3.11
3.6	Back Pressure valves / Relief Valves for DHV-U	3.12
3.6	Back Pressure valves / Relief Valves for DHV-RM	3.13
3.6	Back Pressure valves / Relief Valves for BPV-DM	3.13
3.7	Multifunction Valves	3.15
3.8	Anti-Return Valves & Hot Water injection Valve Assemblies	3.16
3.9	Flushing Device & Rigid Suction Assemblies for Sigma	3.17
3.10	Float Switches for Solenoid Driven Pumps	3.18
3.11	Metering Monitors for Gamma & Sigma	3.20
3.12	Control Cables for Beta, Gamma, & Sigma	3.21
3.12	Profibus Cables for Solenoid & Motor Driven Pumps	3.21
3.14	Accessories - Connectors and Fittings	3.22
3.14	Accessories - Stainless Fittings & Inserts	3.23
3.14	Accessories - Suction & Discharge tube PTFE, SS, PVC Braided	3.24
3.15	Accessories - Union Nuts & Inserts	3.25
3.16	Accessories - Balls & Springs for Liquid Ends and Injection Valves	3.26
3.17	Water Meters - Cold	3.27
3.18	Water Meters - Hot	3.27
3.19	Water Meters Accessories	3.28
3.20	Suction Pressure Regulators	3.28
3.21	DulcoFlow flow meter	3.29
3.21	Pulsation Dampeners PVC.....	3.30
3.21	Pulsation Dampeners PVC	3.31
3.21	Pulsation Dampeners PVDF	3.32

SECTION 4 PROMINENT Chemical Tanks, Bunds and Transfer Pumps

4.1	ProMinent Chemical Tanks	4.2
4.2	ProMinent Bunds for Chemical Tanks	4.2
4.3	Accessories for Dosing Tanks	4.3
4.4	von TAINÉ® Centrifugal Pumps	4.4
4.5	von TAINÉ® Centrifugal Pumps curves and dimensions	4.5
4.6	Duodos Air Operated Diaphragm Pumps	4.6
4.7	Duodos Air Operated Diaphragm Pumps curves and dimensions	4.7
4.8	Notes	4.8

Table of Contents

5	DULCOMETER® Controllers	
5.1	5.1.1 Dulcometer® Compact Controller	5.2
5.2	5.2.1 Dulcometer® D1C wall mount controller	5.3
	5.2.2 Identity Code and pricing for Dulcometer® D1Ca Controller	5.4
	5.2.3 Identity Code and pricing for Dulcometer® D1Cb Controller	5.5
5.3	DULCOMETER® D2C's	
	5.3.1 Dulcometer D2C Controller	5.6
	5.3.2 Identity Code and pricing for Dulcometer D2C Controller	5.7
5.4	DULCOMETER® diaLog DACa Multi-parameter Controller	
	5.4.1 diaLog DACa Controller Technical Data	5.9
	5.4.2 Identity Code and pricing for diaLog DACa Controller	5.10
5.5	DULCOMETER® Fluoride Meter	
	5.5.1 Measured variable Fluoride in Drinking Water	5.11
5.6	DULCOMETER® Dulcomarin®	
	5.6.1 DULCOMARIN® II Multi-Channel Measuring & Control System	5.12
	5.6.2 DULCOMARIN® II DULCO® - net Swimming Pool Controllers	5.13
	5.6.3 Identity Code system for DULCOMARIN® Swimming Pool Controllers	5.14
5.7	DULCOMETER® DMT's	
	5.7.1 Dulcometer DMT Transducer Technical Data	5.15
	5.7.2 Identity Code and Pricing for Dulcometer DMT Controller	5.16
5.8	DULCOMETER® Transmitters	
	5.7.1 Dulcometer® Transmitters	5.17
	5.7.2 Dulcometer® Transmitters Ex	5.18
5.9	DULCOMETER® Instruments and Accessories	
	5.9.1 KCL Solutions and Buffers	5.19
5.10	5.10.1 Portamess® Portable meters for pH/mV/Pt100	5.20
5.11	5.11.1 Dulcometer® Photometer DT1	5.21
5.12	5.12.1 Dulcometer® 4-20mA Transmitters for pH/Redox/Pt100	5.22
5.13	5.13.1 Electrodeless Sensor and Impedence converter	5.23
5.14	5.14.1 Dulcometer® Conductivity sensor and Portamess sensor	5.24
5.15	5.15.1 Turbidity Meter DULCO turb C	5.25

SECTION 6 DULCOTEST® SENSOR TECHNOLOGY

6.0	Dulcotest® PT100 Temperature Sensor	6.2
6.1	Dulcotest® PHER, PHEN and pH Combination Probes	6.3
6.2	Dulcotest® pH and Redox Probes	6.4
6.3	Dulcotest® Amperometric Sensors	6.5
6.3	Dulcotest® Chlorine Sensors	
	6.3.1 Sensors for free Chlorine CLE 3-mA	6.6
	6.3.1 Sensors for free Chlorine CLE 3.1-mA	6.6
	6.3.2 Sensors for free Chlorine CLE 3-CAN	6.7
	6.3.2 Sensors for free Chlorine CLE 3.1-CAN	6.7
	6.3.3 Sensors for free Chlorine CLO 1-mA	6.8
	6.3.3 Sensors for free Chlorine CLO 2-mA	6.8
	6.3.4 Sensors for free Chlorine CLE 3-DMT	6.9
	6.3.4 Sensors for total Chlorine CTE 1-DMT	6.9
	6.3.5 Sensors for total Chlorine CTE 1-CAN	6.10
	6.3.5 Sensors for total Chlorine CGE 2-CAN	6.10
	6.3.6 Sensors for free Chlorine CGE 2-mA	6.11
	6.3.6 Sensors for free Chlorine CGE 2-CAN	6.11
6.4	Dulcotest® Sensors for Bromine BRE 1-mA	6.12
	Dulcotest® Sensors for Bromine BRE 2-mA	6.12
	Dulcotest® Sensors for Bromine CBR 1-mA	6.13
	Dulcotest® Sensors for Bromine BRE 3-CAN	6.13
6.4	Dulcotest® Sensors for Bromine CBR 1-mA	6.13
6.5	Dulcotest® Chlorine Dioxide Sensors	
	6.5.1 Dulcotest® Sensors for Chlorine Dioxide CDE 2-mA	6.14
	6.5.1 Dulcotest® Sensors for Chlorine Dioxide CDP 1-mA 2ppm	6.14
	6.5.2 Dulcotest® Sensors for Chlorine Dioxide CDR 1-mA	6.15
	6.5.2 Dulcotest® Sensors for Chlorine Dioxide CDR 1-CAN	6.15
6.6	Dulcotest® Ozone Sensor OZE 3-mA	6.16
6.7	Dulcotest® PAA Sensor PAA 1-mA	6.17
6.8	Dulcotest® DO Sensor DO 1-mA	6.18
	6.8.2 Dulcotest® DO Sensor DO 2-mA	6.19
6.9	Dulcotest® Conductivity Sensors & Accessories - Electrolyte & Membrane Caps	
	6.9.1 Conductivity Sensors LF1 DE	6.20
	6.9.2 Inductive Conductivity Sensors ICT 1	6.21
	6.9.3 Inductive Conductivity Sensors ICT 2	6.22
6.10	Accessories Electrolyte & Membrane Caps	6.23
6.11	Dulcotest® Modular In-line Probe Housing DGM	
	6.11.1 Identity Code Ordering System for In-Line Probe Housing Modules	6.25
6.12	Cables, connectors, glands and cable assemblies	6.26

1.0 ProMinent® Solenoid-Driven Metering Pumps

Table of Contents

SECTION 1 SOLENOID DRIVEN METERING PUMPS

1.0	ProMinent® Alpha Dosing Pumps	
1.0.1	Technical Data for Alpha Dosing Pumps	1.1
1.0.2	Technical Data for Alpha Dosing Pumps	1.2
1.0.3	Identity Code for Alpha Dosing Pumps	1.3
1.0.4	Pricing Schedule for Alpha Dosing Pumps	1.4
1.1	ProMinent® Beta & Concept Metering Pumps	
1.1.1	Technical Data & Identity Code for Beta 4 & 5	1.5
1.1.2	Technical Data & Identity Code for Beta 4 & 5	1.6
1.1.3	Identity Code and Pricing Schedule for Beta 4 & 5	1.7
1.1.2	Technical Data & Identity Code for Beta 4 & 5	1.8
1.1.3	Identity Code and Pricing Schedule for Beta 4 & 5	1.9
1.1.4	Pricing Schedule for Beta 4 & 5 Spare Parts Sets	1.10
1.1.5	Pricing Schedule for Beta 4 & 5 Spare Parts Sets	1.11
1.1.6	Notes	1.12
1.1.7	Timer Pumps	1.13
1.1.8	Notes Concept Pump Spares CONb & CNPa.....	1.14
1.2	ProMinent® Gamma L Metering Pumps	
1.2.1	ProMinent Gamma L	1.15
1.2.2	Technical Data & Materials for Gamma L.....	1.16
1.2.3	Identity Code & Prices for Gamma L	1.17
1.2.6	Accessories - spare parts sets for Gamma	1.18
1.2.7	Accessories - spare parts sets for Gamma	1.19
1.2.7	Notes	1.20
1.3	ProMinent® Delta® Metering Pumps	
1.3.1	ProMinent Delta®	1.21
1.3.2	Technical data and Material in contact with media	1.22
1.3.3	Identity Code & Prices for Delta®	1.23
1.3.4	Spare Parts for Delta®	1.24
1.4	ProMinent® EXtronic Metering Pumps	
1.4.1	Technical Data for EXtronic	1.25
1.4.1	Technical Data for EXtronic	1.26
1.4.2	Identity Code for EXtronic	1.27
1.4.3	Materials for EXtronic	1.28
1.4.4	Accessories - valves for EXtronic	1.29
1.5	ProMinent® Pneumados Metering Pumps	
1.5.1	Technical Data	1.30
1.5.2	Technical Data	1.31
1.5.3	Identity Code and Price List for Pneumados	1.32
1.5.4	Electrical & Schematic layout for Pneumados	1.33
1.6	ProMinent® DULCO® flex Pumps	
1.6.1	Technical Data	1.34
1.6.2	Identity Code and Price List for DULCO® flex	1.35
1.6.3	Technical Data	1.36
1.6.4	Identity Code and Price List for DULCO® flex DF4a	1.37
	Notes	1.38