

Safe, precise and cost-effective metering

Low-pressure metering pumps up to over 1,000 l/h



Contents



Low-pressure metering pumps up to over 1,000 l/h

Thanks to the huge diversity of its product range (dosing head, size, capacity, set up and control options), ProMinent® low-pressure metering pumps are capable of performing virtually all metering tasks sustainably and environmentally-friendly, at the same time saving energy.

Get in touch with us and discover the various opportunities provided by ProMinent® low-pressure pumps.

- Contents 2
- ProMinent 3
- Technology at a glance 4
- Products at a glance 6
- Motor-driven metering pumps
 - Sigma/1 basic type 8
 - Sigma/2 basic type 8
 - Sigma/3 basic type 8
- Sigma X family
 - Sigma/1 control type 10
 - Sigma/2 control type 10
 - Sigma/3 control type 10
- Solenoid metering pumps
 - Beta® b 12
 - gamma/ X 13
 - gamma/ XL 14
- Peristaltic pumps
 - DULCO®flex DF2a 15
 - DULCO®flex DF4a 15
 - DULCO flex Control DFXa 16
 - DULCO flex Control DFYa 17

ProMinent



Our extensive **product range** – well-metered and unrestrictedly reliable

You undoubtedly know ProMinent as a manufacturer of solenoid metering pumps? In fact that is our origin and we are the global market leader in this product range. However, for the 55 years that we have been in existence, we have substantially extended our product range for our customers. Why? Because we know and understand that you, as our customers, do not simply want a product from us, rather a solution to your problem – and justifiably so.

Every industry "works" differently, that is to say has its own unique peculiarities. We have adapted to this.

Expertise alone is not enough. Our customers are essential for ProMinent's success story. Their trust and the close dialogue relating to their requirements and needs is what has made our success possible.

World market leadership brings obligations, such as the need for close dialogue with customers. This dialogue shows that the trend is moving towards

more energy-efficient and environmentally-friendly technologies. ProMinent is reacting to this with a wealth of innovative product developments. With energy-efficient products. This means that the future will bring many more innovations in the field of chemical metering and water treatment developed in Heidelberg. They all have only one goal: to exceed our customers' expectations as far as possible.

Solenoid-driven metering pumps

Low-wear pumps for low capacities

Mode of operation

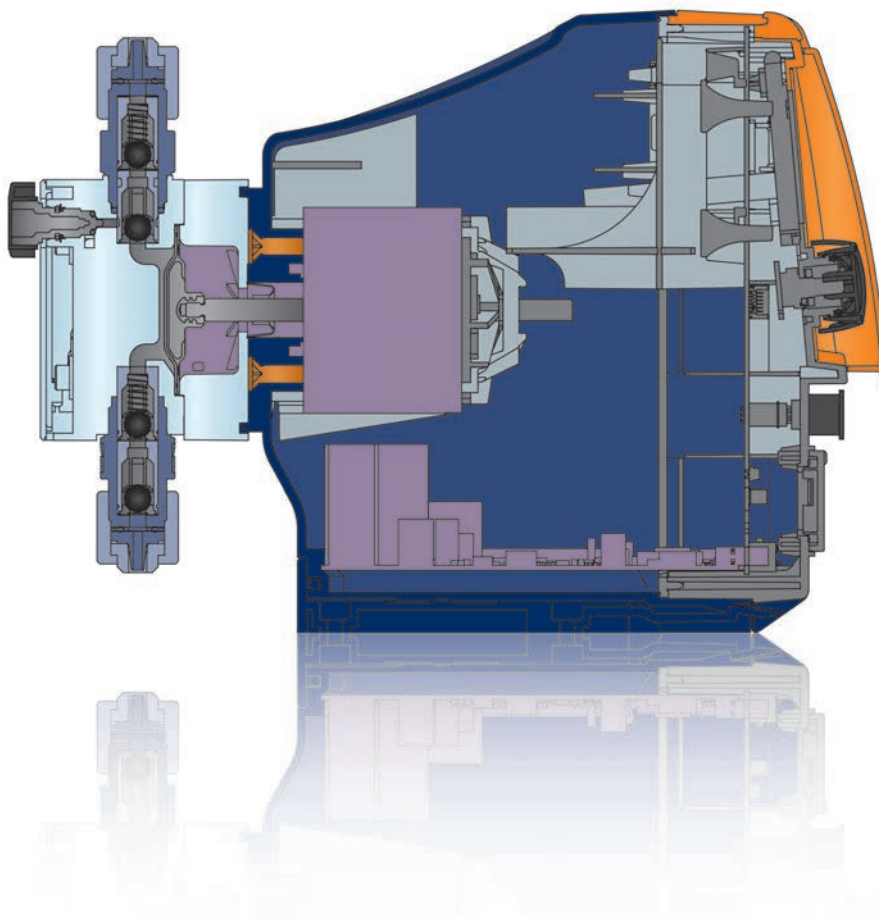
A magnet moves the solenoid shaft forwards and backwards by switching on and off. This stroke movement is transferred to the diaphragm in the dosing head. Two non-return valves prevent the feed chemical from flowing back during pumping. The stroke length and stroke rate can be adjusted to alter the capacity of a solenoid-driven metering pump.

Features

- Capacity range: 0.74 to 80 l/h at 25 to 2 bar back pressure
- Virtually wear-free power end/drive, as only one moving part is used – the pump has no lubricated bearing or shafts
- Outstanding long-term stability
- Cost-effective technical alternative in the lower capacity range
- Maximum protection from overloading
- Low energy consumption thanks to excellent efficiency
- IP 65 degree of protection due to fully sealed housing

Applications

- General: chemical metering in laboratories and in industry up to 80 l/h pumping capacity
- Potable water and swimming pool water treatment: metering of chemicals for disinfection and for pH correction
- General water treatment, process water, industrial water, and conditioners
- Cooling water circuits: metering disinfectants
- Mini-plant technology
- Paper industry, de-foamers
- Electroplating and surface treatment, pool additives, slide grinding systems



Motor-driven metering pumps

High level of dosing precision and robust technology

Mode of operation

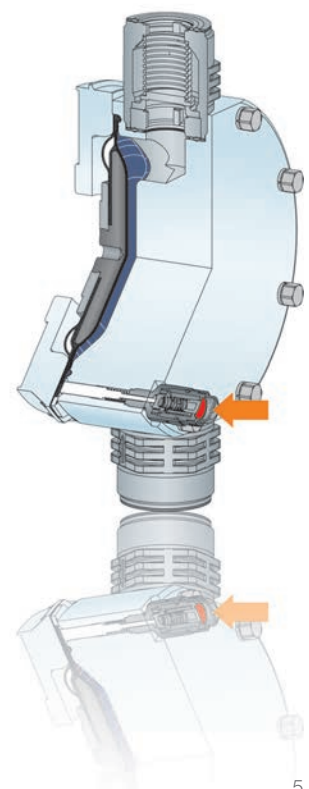
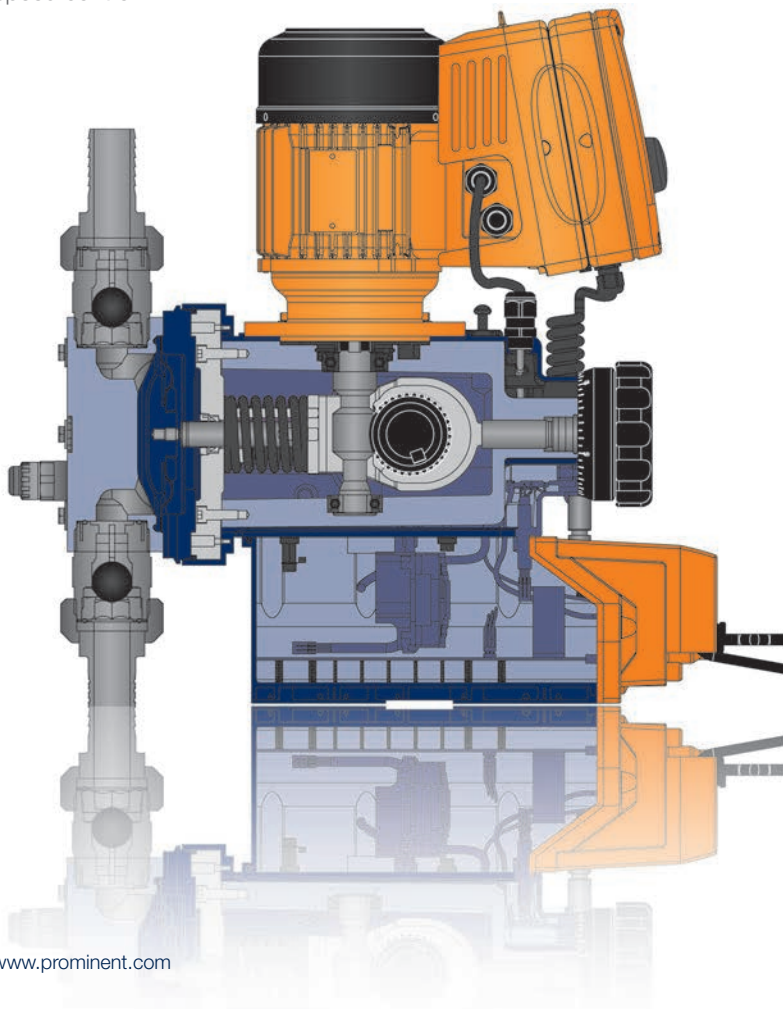
The stroke length and stroke rate – in this case the motor speed – can be adjusted to alter the capacity of this pump. The rotation of the electric motor is stepped down by a worm gear and converted into a linear stroke movement by a cam. The slide rod transfers this stroke movement to the diaphragm in the dosing head. Two non-return valves prevent the feed chemical from flowing back during pumping.

Features

- Extremely broad capacity range
- High dosing precision even under varying pressure conditions (rigid characteristic curve) enables chemical use to be reduced and ensures exact process control
- Robust and cost-effective drive in higher capacity classes
- Simple integration and retrofitting into automated processes by flexible control via stroke length and motor speed control
- Maximum safety thanks to multi-layer safety diaphragm with rupture warning system
- Sigma basic: robust pump for safe and reliable use
- Sigma X control type: reliable, smart and network-friendly

Applications

- General: chemical metering up to over 1,000 l/h
- Potable water treatment: metering disinfectants
- Cooling circuits: metering disinfectants
- Waste water treatment: metering flocculants
- Paper industry: metering additives
- Plastics production: metering additives



The broad-based range for reliability and precision

Motor-driven metering pumps

Sigma basic type

The robust pump for safe and reliable use

Sigma/ 1

Capacity range
17 – 120 l/h
12 – 4 bar

Sigma/ 2

Capacity range
50 – 350 l/h
16 – 4 bar

Sigma/ 3

Capacity range
146 – 1,030 l/h
12 – 4 bar

Sigma X family

Reliable, smart and network-friendly

Sigma/ 1

Capacity range
17 – 144 l/h
12 – 4 bar

Sigma/ 2

Capacity range
50 – 420 l/h
16 – 4 bar

Sigma/ 3

Capacity range
146 – 1,040 l/h
12 – 4 bar



Sigma basic type



Sigma control type

Sigma

For particular requirements

- MET, EAC certification
- Hygienic design
- Physiological safety with regard to the material
- EN10204 test certificates
- Special materials in the case of PVDF and >600l/h
- Project-specific solutions

Get in touch with us



Solenoid metering pumps

Beta® b The all-rounder

Capacity range
0.74 – 32 l/h
25 – 2 bar



gamma/ X For versatile uses

Capacity range
2.3 – 45 l/h
25 – 2 bar



gamma/ XL Capacity perfected

Capacity range
8 – 80 l/h
25 – 2 bar



Peristaltic pumps

DULCO®flex Precise and reproducible

DF2a
Capacity range 0.4/0.8/1.6/2.4 l/h
up to 1.5 bar

DF4a
Capacity range 1.5/6.0/12.0 l/h
up to 4 bar



DULCO flex Control Combines top products

DFXa
Capacity range 0.01 – 30 l/h
up to 7 bar

DFYa
Capacity range 5.5 – 410 l/h
up to 8 bar



Sigma basic type

Motor-driven metering pump

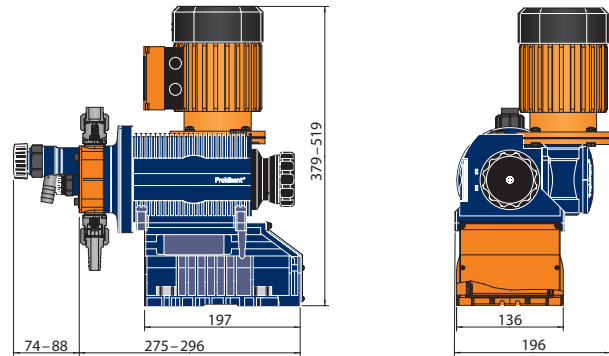
The right capacity for every application. There are two different versions of the Sigma product range available (the basic type and the control type).

The three versions differ in terms of their capacities:

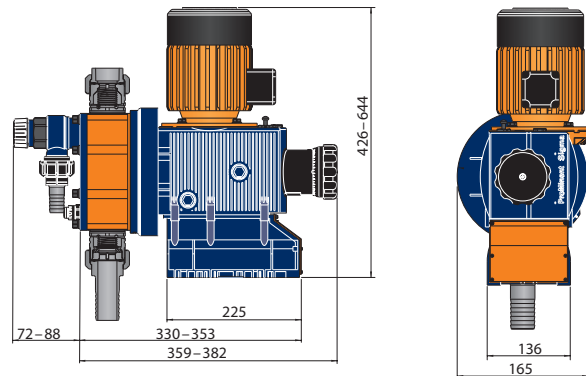
- Sigma/ 1** 17–120 l/h, 12–4 bar
- Sigma/ 2** 50–350 l/h, 16–4 bar
- Sigma/ 3** 146–1,030 l/h, 12–4 bar

- Process reliability thanks to multi-layer diaphragm with diaphragm rupture warning system
- Reliable operation due to bleeding option
- Integrated relief valve protects against overloading
- Simplified management of spare parts when using the Sigma product range
- Wide choice of drive variants, also for use in Exe and Exde areas and different flange designs for the use of customised motors.
- Servomotors or stroke control motors for adjusting the stroke length
- 2 standard materials PVDF/PTFE, stainless steel/PTFE

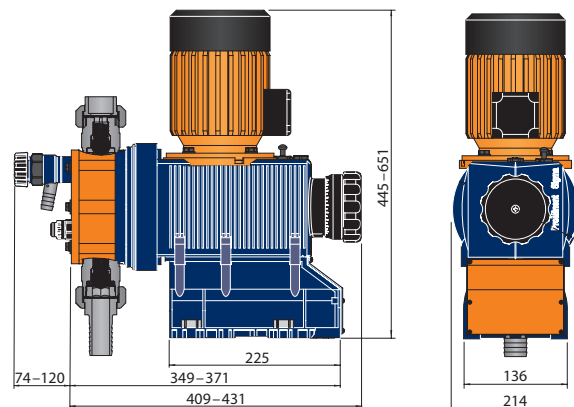
Sigma/ 1



Sigma/ 2



Sigma/ 3





Pump type	Pump capacity at max. back pressure with motor operating at 1,500 rpm at 50 Hz operation			Stroke rate Strokes/ min	with motor operating at 1,800 rpm at 60 Hz operation		Stroke rate Strokes/ min	Suction lift mWS	Reliable pre-pressure on suction side bar	Connector Suction/ discharge side G-DN
	bar	l/h	ml/stroke		psi	l/h				
Sigma/ 1 basic type (S1Ba)										
12017	12	17	3.8	73	174	20	88	7	1	¾-10
12035	12	35	4.0	143	174	42	172	7	1	¾-10
10050	10	50	4.0	205	145	60	246	7	1	¾-10
10022	10	22	5.0	73	145	26	88	6	1	¾-10
10044	10	44	5.1	143	145	53	172	6	1	¾-10
07065	7	65	5.2	205	102	78	246	6	1	¾-10
07042	7	42	9.5	73	102	50	88	3	1	1-15
04084	4	84	9.7	143	58	101	172	3	1	1-15
04120	4	120	9.7	205	58	144	246	3	1	1-15
Sigma/ 2 basic type (S2Ba)										
16050	16	47	11.4	73	232	57	87	7	3	1-15
16090	16	88	11.4	132	232	98	158	7	3	1-15
16130	16	124	10.9	198	232	148	238	7	3	1-15
07120	7	126	27.4	73	102	150	87	5	1	1½-25
07220	7	220	27.7	132	102	264	158	5	1	1½-25
04350	4	350	29.4	198	58	420	238	5	1	1½-25
Sigma/ 3 basic type (S3Ba)										
120145	12	146	33.7	72	174	174	86	5	2	1½-25
120190	12	208	33.7	103	174	251	124	5	2	1½-25
120270	12	292	33.8	144	174	351	173	5	2	1½-25
120330	12	365	33.8	180	174	-	-	5	2	1½-25
070410	7	410	95.1	72	102	492	86	4	1	2-32
070580	7	580	95.1	103	102	696	124	4	1	2-32
040830	4	830	95.1	144	58	1,000	173	3	1	2-32
041030	4	1,030	95.1	180	58	-	-	3	1	2-32

Dosing head, PVDF design, max. 10 bar. ** DN32 plate valves with valve spring

Wetted materials					Integral relief valve
Material	Dosing head	Suction/pressure connector	Seals/ball seat	Valve balls	
Sigma/ 1 + Sigma/ 2					
PVT	PVDF	PVDF	PTFE/PTFE	Ceramic	PVDF/FPM or EPDM
SST	Stainless steel material no. 1.4404	Stainless steel material no. 1.4581	PTFE/PTFE	Stainless steel material no. 1.4404	Stainless steel/FPM or EPDM

ATEX design: TTT wetted materials, PTFE+25% carbon, PTFE+25% carbon, PTFE/PTFE, ceramic

Material	Suction/pressure connection of dosing head	DN 25 ball valves			DN 32 plate valves			Integral relief valve
		Seals	Valve balls	Valve seats	Seals	Valve plates/ valve springs	Valve seats	
Sigma/ 3								
PVT	PVDF	PTFE	Glass	PTFE	PTFE	Ceramic/ Hast C. + CTFE	PTFE	PVDF/FPM or EPDM
SST	Stainless steel material no. 1.4404	PTFE	Stainless steel material no. 1.4404	PTFE	PTFE	Stainless steel 1.4404/Hast C.	PTFE	Stainless steel/FPM or EPDM

Multi-layer safety diaphragm with PTFE support in all designs. FPM: fluorine rubber

Alternative material versions available on request.

TTT, PTFE+25% carbon, PTFE, ceramic, PTFE, PVDF, ceramic/Hast C. + CTFE, for ATEX design

Sigma X control type

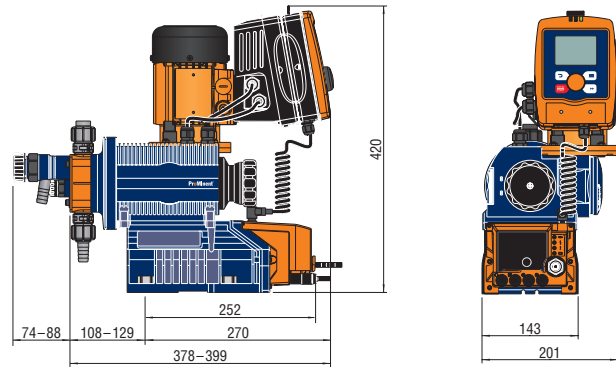
Motor-driven metering pump

The Sigma X type is a smart, flexible motor-driven metering pump that is setting new standards in terms of operating convenience, reliability and safety.

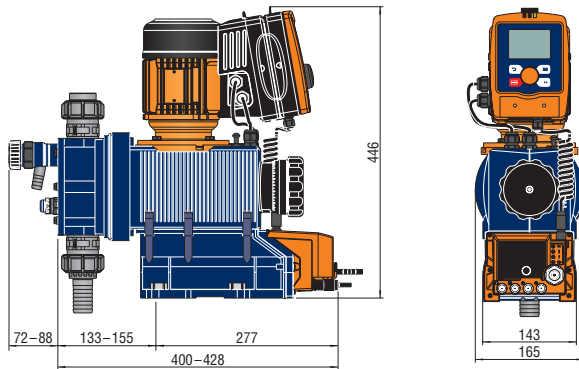
The Sigma X diaphragm metering pump covers a capacity range of 21 to 1,040 l/h in the S1Cb, S2Cb and S3Cb variants. Efficient protection of the power end from overloading by means of an integral frequency converter with microprocessor controller. One highlight is the standardised operating concept with click wheel and 4 additional operating keys on a removable operating unit. A large illuminated LCD and a 3-LED display for operating, warning and error messages, visible from all sides, offers additional operating convenience. The Sigma, like all smart ProMinent metering pumps, can be flexibly connected to various bus systems. It has a large adjustment range thanks to a combination of frequency and stroke length adjustment. The pump works with high precision across the entire frequency range. Accurate and complication-free metering of viscous and gaseous media by adjustment of the movement profile. Operating statuses are transferred remotely via additional relay modules. Relevant spare parts can be shown in the display.

- External control is scalable via potential-free contacts with pulse step-up and step-down, batch mode or via a 0/4-20 mA standard signal
- Can be flexibly networked: connection to process management systems via integrated PROFIBUS®, CANopen interface (optional)
- Bluetooth and Wi-Fi connection for the simple configuration of parameters and call-up of process data (optional)

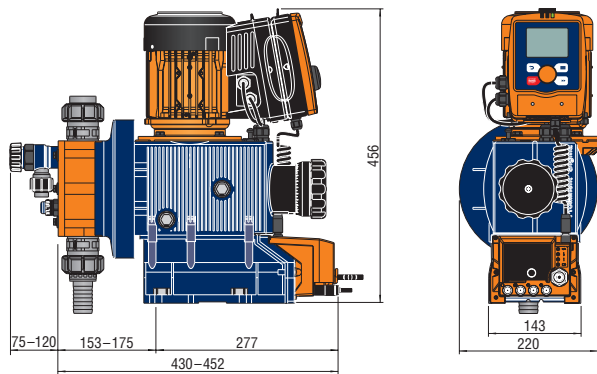
Sigma/ 1



Sigma/ 2



Sigma/ 3



Capacity ranges:

Sigma/ 1 17–117 l/h, 12–4 bar

Sigma/ 2 61–353 l/h, 16–4 bar

Sigma/ 3 182–1,040 l/h, 12–4 bar



Sigma X family

Pump type	Pump capacity at max. back pressure			Stroke rate Strokes/min	Suction lift mWS	Reliable pre-pressure on suction side bar	Connector Suction/ discharge side G-DN
	bar	l/h	ml/stroke				
Sigma/ 1 control type (S1Cb)							
12017	12	21	3.9	90	7	1	¾-10
12035	12	42	4.0	170	7	1	¾-10
10050	10	49	4.0	200	7	1	¾-10
10022	10	27	5.1	90	6	1	¾-10
10044	10	53	5.1	170	6	1	¾-10
07065	7	63	5.1	200	6	1	¾-10
07042	7	52	9.5	90	3	1	1-15
07084	4	101	9.7	170	3	1	1-15
04120	4	117	9.7	200	3	1	1-15
Sigma/ 2 control type (S2Cb)							
16050	16	56	10.4	90	7	2	1-15
16090	16	99	10.3	160	7	2	1-15
16130	16	129	10.9	200	7	2	1-15
07120	7	150	27.4	90	5	1	1½-25 ¹⁾
07220	7	271	27.7	160	5	1	1½-25 ¹⁾
04350	4	353	29.4	200	5	1	1½-25 ¹⁾
Sigma/ 3 control type (S3Cb)							
120145	12	182	33.7	90	5	2	1½-25
120190	12	243	33.7	120	5	2	1½-25
120270	12	365	33.8	180	5	2	1½-25
070410	7	500	95.1	90	4	1	2-32
070580	7	670	95.1	120	4	1	2-32
040830	4	1,040	95.1	180	3	1	2-32

Dosing head, PVDF design, max. 10 bar. **DN32 plate valves

Wetted materials					Integral relief valve
Material	Dosing head	Suction/pressure connector	Seals/ball seat	Valve balls	
Sigma/ 1 + Sigma/ 2					
PVT	PVDF	PVDF	PTFE/PTFE	Ceramic	PVDF/FPM or EPDM
SST	Stainless steel material no. 1.4404	Stainless steel material no. 1.4581	PTFE/PTFE	Stainless steel material no. 1.4404	Stainless steel/FPM or EPDM

Material	Suction/pressure connection of dosing head	DN 25 ball valves			DN 32 plate valves			Integral relief valve
		Seals	Valve balls	Valve seats	Seals	Valve plates/ valve springs	Valve seats	
Sigma/ 3								
PVT	PVDF	PTFE	Glass	PTFE	PTFE	Ceramic/ Hast C. + CTFE	PTFE	PVDF/FPM or EPDM
SST	Stainless steel material no. 1.4404	PTFE	Stainless steel material no. 1.4404	PTFE	PTFE	Stainless steel 1.4404/Hast C.	PTFE	Stainless steel/FPM or EPDM

Multi-layer safety diaphragm with PTFE support in all designs. FPM: fluorine rubber

Alternative material versions available on request.

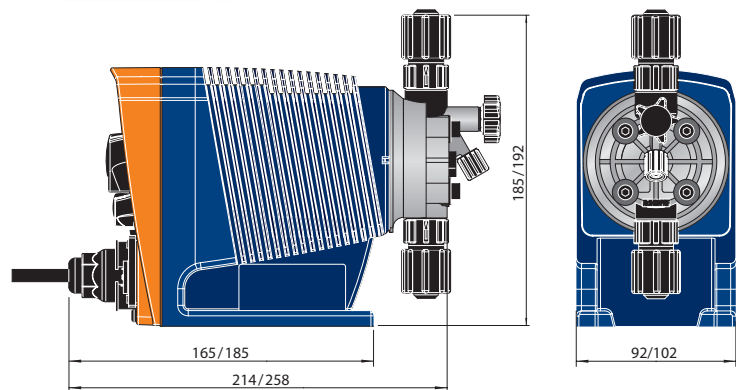
MET, EAC design (optional).

Beta[®] b

Solenoid-driven metering pump

The first choice for modern water treatment and chemical metering.

- Capacity range
0.74–32 l/h, 25–2 bar
- Up to 50 % energy-savings through improved efficiency
- Adjustable, integrated pulse step-up and step-down for optimum adaptation to external signal generators
- Dosing heads to suit all chemicals ensure all-purpose use
- Virtually wear-free power end/drive
- Outstanding long-term stability
- Optional: relay module can be quickly and simply retrofitted
- Input for level switch



Pump type	Pump capacity at max. back pressure			Stroke rate Strokes/min	Suction lift mWs	Connector size a Ø x i Ø mm	Average power consumption W
	bar	l/h	ml/stroke				
BT4b 1000	10	0.74	0.07	180	6.0	6 x 4	7.2
BT4b 1601	16	1.10	0.10	180	6.0	6 x 4	9.6
BT4b 1602	16	2.20	0.20	180	6.0	6 x 4	11.2
BT4b 1604	16	3.60	0.33	180	6.0	6 x 4	15.2
BT4b 0708	7	7.10	0.66	180	6.0	8 x 5	15.2
BT4b 0413	4	12.30	1.14	180	3.0	8 x 5	15.2
BT4b 0220	2	19.00	1.76	180	2.0	12 x 9	15.2
BT5b 2504	25	2.90	0.27	180	6.0	8x4 ¹⁾	19.2
BT5b 1008	10	6.80	0.63	180	6.0	8 x 5	19.2
BT5b 0713	7	11.00	1.02	180	4.0	8 x 5	19.2
BT5b 0420	4	17.10	1.58	180	3.0	12 x 9	19.2
BT5b 0232	2	32.00	2.96	180	2.0	12 x 9	19.2

Beta[®] b metering pumps are also available with a self-bleeding dosing head and for higher-viscosity media.

Pressure-reduced pump types are available in the pressure stages 4, 7 and 10 bar for special applications, for example in the swimming pool sector.

Suction lift with a filled dosing head and filled suction line, with a self-bleeding dosing head with air in the suction line.

1) 6 mm connector width for stainless steel design.

Wetted materials					
Design	Dosing head	Suction/pressure connector	Seals	Valve balls	Ball seat
PPT	Polypropylene	PVDF	PTFE	Ceramic	PVDF
NPT	Clear acrylic	PVDF	PTFE	Ceramic	PVDF
PVT	PVDF	PVDF	PTFE	Ceramic	PVDF
TTT	PTFE + carbon	PTFE + carbon	PTFE	Ceramic	Ceramic
SST	Stainless steel material no. 1.4404	Stainless steel material no. 1.4404	PTFE	Ceramic	Ceramic

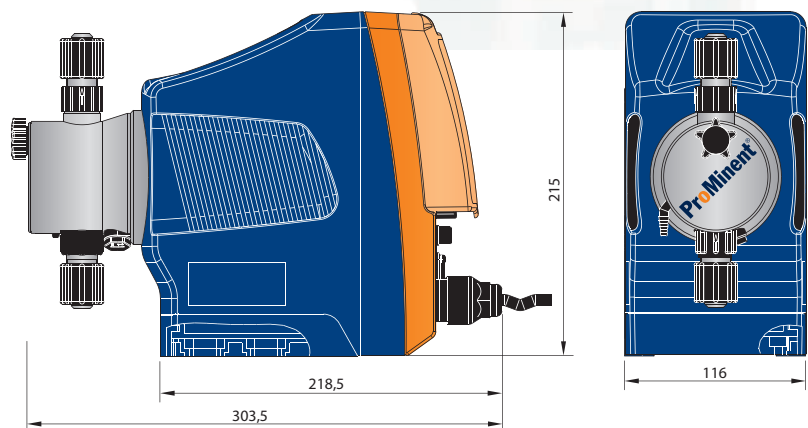
DEVELOPAN[®] diaphragms with PTFE support in all designs.

gamma/ X

Solenoid-driven metering pump

The gamma/ X is ideal for all metering work involving liquid media.

- Capacity range
2.3–45 l/h, 25–2 bar
- Simple adjustment of the capacity directly in l/h
- Detection of hydraulic malfunctions or blocked discharge lines ensures smooth process
- Integrated pressure measurement and display for greater safety during commissioning and in the process
- Integrated 7-day timer for timed metering tasks
- Connection to CAN-Open, Profinet, Profibus or Modbus process control systems



Pump type	Pump capacity at max. back pressure			Stroke rate Strokes/min	Suction lift mWs	Connector size a Ø x i Ø mm
	bar	l/h	ml/stroke			
GMXa 1602	16	2.3	0.19	200	6.0	6 x 4
GMXa 1604	16	3.6	0.30	200	5.0	6 x 4
GMXa 0708	7	7.6	0.63	200	4.0	8 x 5
GMXa 0414	4	13.5	1.13	200	3.0	8 x 5
GMXa 0220	2	19.7	1.64	200	2.0	12 x 9
GMXa 2504	25	3.8	0.32	200	4.0	8 x 4 ¹⁾
GMXa 1009	10	9.0	0.75	200	3.0	8 x 5
GMXa 0715	7	14.5	1.21	200	3.0	8 x 5
GMXa 0424	4	24.0	2.00	200	3.0	12 x 9
GMXa 0245	2	45.0	3.70	200	2.0	12 x 9

gamma/ X metering pumps are also available with self-bleeding dosing head and for higher-viscosity media.

Suction lift with a filled dosing head and filled suction line, with a self-bleeding dosing head with air in the suction line.

1) 6 mm connector width for stainless steel design.

Wetted materials

Design	Dosing head	Suction/pressure connector	Seals	Valve balls	Ball seat
PPT	Polypropylene	PVDF	PTFE	Ceramic	PVDF
NPT	Clear acrylic	PVDF	PTFE	Ceramic	PVDF
PVT	PVDF	PVDF	PTFE	Ceramic	PVDF
TTT	PTFE with carbon	PTFE with carbon	PTFE	Ceramic	Ceramic
SST	Stainless steel material no. 1.4404	Stainless steel material no. 1.4404	PTFE	Ceramic	Ceramic

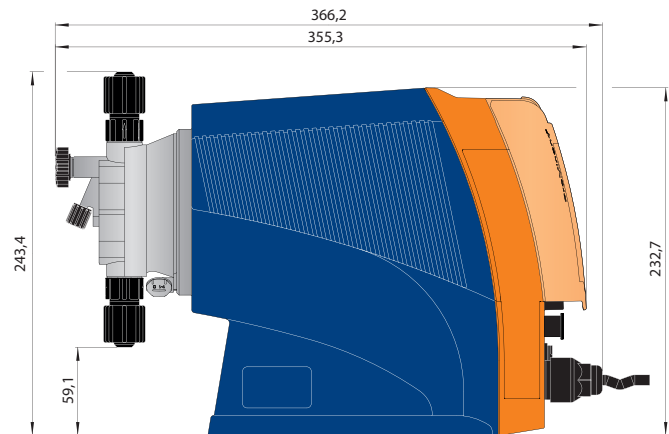
DEVELOPAN® diaphragms with PTFE support in all designs.

gamma/ XL

Solenoid-driven metering pump

The gamma/ XL is a smart, network-compatible solenoid-driven metering pump that is setting new standards in productivity, reliability and cost-effectiveness.

- Capacity range
8–80 l/h, 25–2 bar
- Simple adjustment of the metering rate directly in l/h or gph
- Integrated pressure measurement and display for greater safety during commissioning and in the process
- Bluetooth and Wi-Fi connection for simple configuration and call-up of process data (optional)
- Capacity adjustment range
1:40,000
- Direct input of the required final concentration in concentration mode with volume-proportional metering tasks
- Virtually wear-free solenoid drive, overload-proof and economical



Pump type	Pump capacity		ml/stroke	Stroke rate Strokes/min	Suction lift mWs	Connector size a Ø x i Ø mm
	bar	l/h				
gamma/ XL						
GXLa 2508	25	8	0.67	200	5*	8x4 **
GXLa 1608	16	8	0.67	200	5*	8x5 **
GXLa 1612	16	12	1.0	200	6*	8 x 5
GXLa 1020	10	20	1.7	200	5*	12 x 9
GXLa 0730	7	30	2.5	200	5*	12 x 9
GXLa 0450	4	50	4.2	200	3*	G 3/4 - DN 10
GXLa 0280	2	80	6.7	200	2*	G 3/4 - DN 10
gamma/ XL metering pumps with self-bleeding dosing head without bypass*						
GXLa 1608	16	3.8	0.32	200	1.8	8 x 5
GXLa 1612	16	6.5	0.54	200	1.8	8 x 5
GXLa 1020	10	14	1.17	200	1.8	12 x 9
GXLa 0730	7	28	2.33	200	1.8	12 x 9

* Suction lift (mWs) = suction lift with a filled dosing head and filled suction line

** 6 mm connection width for stainless steel design

Wetted materials					
Design	Dosing head	Suction/pressure connector	Seals	Valve balls	Ball seat
NPT	Clear acrylic	PVDF	PTFE	Ceramic	PVDF
PVT	PVDF	PVDF	PTFE	Ceramic	PVDF
SST (8 - 12 mm)	Stainless steel material no. 1.4404	Stainless steel material no. 1.4404	PTFE	Ceramic	Ceramic
SST (DN 10)	Stainless steel material no. 1.4404	Stainless steel material no. 1.4404	PTFE	Ceramic	PTFE with carbon

DULCO®flex

Peristaltic pump



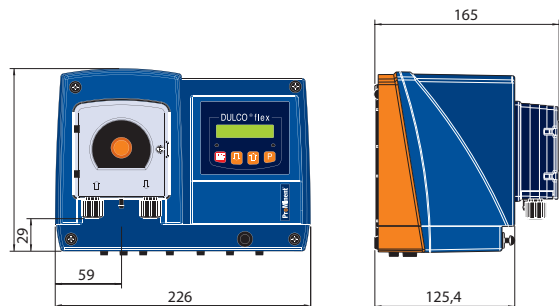
The best solutions are simple. The optimum range of pumps for typical use in swimming pools, hot tubs and spa and wellness facilities.

DF2a for private swimming pools

DF4a for private and public swimming pools, and for general chemical metering.

- Capacity range
0.4–12 l/h, 4–1.5 bar
- Virtually silent operation
- Simple and safe to operate
- Efficient operation through "eco mode" possible
- Service-friendly design
- Capacity adjustment range
1:40,000
- Spring-mounted rollers for uniform roller pressure and increased service life of the hose

DULCO®flex DF4a



Pump type	Pump capacity		Speed rpm	Suction lift mWS	Priming lift mWS	Connector size a Ø x i Ø mm
	bar	l/h				
DULCO®flex DF2a						
0204	1.5	0.4	5	4	3	6x4/10x4
0208	1.5	0.8	10	4	3	6x4/10x4
0216	1.5	1.6	20	4	3	6x4/10x4
0224	1.5	2.4	30	4	3	6x4/10x4
DULCO®flex DF4a						
04004	4.0	0.4	0–85	4	3	6x4/10x4
04015	4.0	1.5	0–85	4	3	6x4/10x4
03060	2.5	6.0	0–85	4	3	6x4/10x4
02120	2.0	12.0	0–85	4	3	6x4/10x4

DULCO flex Control DFXa

Peristaltic pump

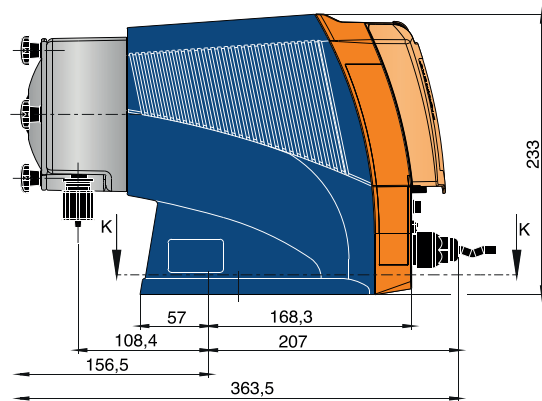
A peristaltic pump that brings together the best qualities of ProMinent metering pumps.

The DULCO flex Control - DFXa meters gaseous, viscous, abrasive or shear-sensitive media and is setting new standards in metering. Linear and reproducible metering is guaranteed with this peristaltic pump under all process conditions. Hose replacement is a very simple process.

- Capacity range
0.01 – 30 l/h, up to 7 bar
- Adjustment of the metering rate directly in l/h or gph
- Simple hose change
- No problems with very gaseous media or air locks
- Sole contact with media in the hose
- Many different control options, such as using an analogue 0/4-20 mA signal, contact controller, timer or via process control systems
- Suitable for viscosities of up to 200,000 mPas



DULCO flex Control DFXa



Pump type	Pump capacity bar	l/h	Speed rpm	Suction lift mWS	Priming lift mWS	Connector size a Ø x i Ø mm
DULCO®flex Control DFXa						
0730	7	0.01 - 30	100	9	9	12 x 9
0530	5	0.01 - 30	100	9	9	12 x 9

DULCO flex Control DFYa

Peristaltic pump

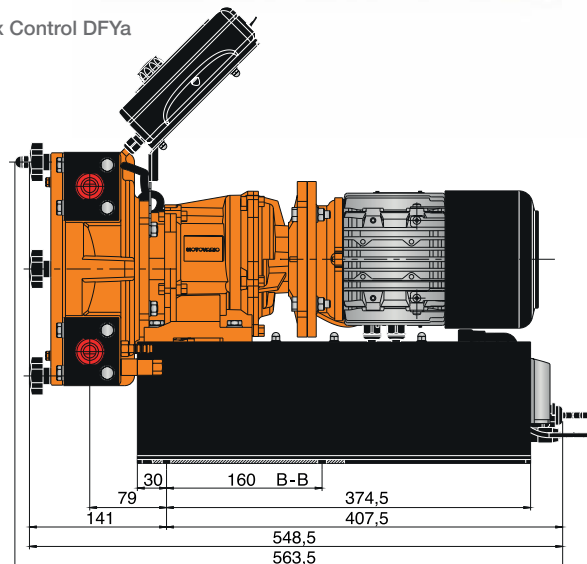
The peristaltic pump DULCO flex Control - DFYa combines the properties of top products from the ProMinent product range.

The valveless peristaltic pump DULCO flex Control - DFYa guarantees precise, linear and reproducible metering in all process conditions. It meters gaseous, viscose, shear-sensitive media, possibly containing particles, with ease – ProMinent is therefore setting new standards in metering with peristaltic pumps.

- Capacity range
5.5 – 410 l/h, up to 8 bar
- Operation by contact, batch, manual, analogue or BUS control
- Adjustment of the metering rate directly in l/h or gph
- Connection to process control systems via a BUS interface, such as PROFIBUS®, Profinet or CANopen
- No problems with very gaseous media or air locks
- Simple, menu-guided hose change
- Reversible direction of rotation
- Suitable for viscosities of up to 40,000 mPas



DULCO flex Control DFYa



Pump type	Pump capacity bar	Pump capacity l/h	Speed rpm	Suction lift mWS	Priming lift mWS
DULCO®flex Control DFYa					
08410	8	5.5 - 410 ± 10 %	80	8	8
04410	4	5.5 - 410 ± 10 %	80	8	8
02410	2	5.5 - 410 ± 10 %	80	8	8

Worldwide contacts



Ready for you. Any time, anywhere.

ProMinent is at home in more than 100 countries across the globe. This guarantees the worldwide availability of our products and comprehensive expertise on the ground with close proximity to the customer. We offer the same high quality standards for our solutions and services all over the world. And we work day in, day out to keep our promise: Ready for you. Any time, anywhere.

You can find the contact details of local branches and agencies at www.prominent.com/en/locations

You can find the ProMinent app for iPad and iPhone in the iTunes App Store or at www.prominent.com/app



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