

Motor-Driven Metering Pump Sigma X Control Type – Sigma/ 2 - S2Cb

The new Sigma X range – reliable, smart and connectible

ProMinent®



Capacity range S2Cb: 61 – 353 l/h, 16 – 4 bar

The Sigma X diaphragm metering pump covers a capacity range of 21 to 1,040 l/h in versions S1Cb, S2Cb and S3Cb. Its patented multi-layer safety diaphragm guarantees maximum process reliability. Efficient protection of the power end from overloading by means of an integral frequency converter with microprocessor control.

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 simply remotely transmitted via an additional output or relay module. A built-in timer, included as standard, controls time-dependent metering cycles.

Relevant spare parts can be shown in the display. The integral log book significantly improves process management, optimisation and troubleshooting.

Your benefits

- Safe: In the event of an accident, the feed chemical does not escape to the outside nor into the pump's power end, thanks to the patented multi-layer safety diaphragm with optical (optionally electric) signalling.
- 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.
- Integrated overload shut-down in the pump control to protect the pump from overloading and thus significantly reduce pressure surges caused by blockages.
- Flexibly connectable: Connection to process management systems via integral PROFIBUS®, CANopen interface.
- Integral log book saves up to 300 events and simplifies troubleshooting and analysis of the cause.



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Technical Data

Type S2Cb	Delivery rate at max. back pressure			Max. stroke rate	Delivery rate at max. back pressure		Suction lift	Perm. pre-pressure suction side	Connection, suction/ discharge side	Shipping weight
	bar	l/h	ml/stroke		Strokes/min	psi				
16050 PVT	10	61	11.4	90	145	16.1	7	2	1–15	15
16050 SST	16	56	10.4	90	232	14.8	7	2	1–15	20
16090 PVT	10	109	11.4	160	145	28.8	7	2	1–15	15
16090 SST	16	99	10.3	160	232	26.2	7	2	1–15	20
16130 PVT	10	131	10.9	200	145	34.6	7	2	1–15	15
16130 SST	16	129	10.9	200	232	34.1	7	2	1–15	20
07120 PVT**	7	150	27.4	90	102	39.6	5	1	1 1/2–25	16
07120 SST**	7	150	27.4	90	102	39.6	5	1	1 1/2–25	24
07220 PVT**	7	271	27.7	160	102	71.6	5	1	1 1/2–25	16
07220 SST**	7	271	27.7	160	102	71.6	5	1	1 1/2–25	24
04350 PVT**	4	353	29.4	200	58	93.3	5	1	1 1/2–25	16
04350 SST**	4	353	29.4	200	58	93.3	5	1	1 1/2–25	24

** For the Sigma types 07120, 07220 and 04350, the dosing head is fitted with DN 25 (G 1 1/2) valves. As DN 20 is generally sufficient for these types of pipes (see technical data, suction/discharge side connector), the connector parts that can be ordered under the identity code (e.g. inserts) are already reduced to DN 20, i.e. DN 20 pipework and accessories can be installed.

Materials in Contact With the Medium

Material	Dosing head	Suction/pressure connector	Seals/ball seat	Balls	Integral relief valve
PVT	PVDF	PVDF	PTFE/PTFE	Ceramic/glass*	PVDF/FKM or EPDM
SST	Stainless steel 1.4404	Stainless steel 1.4581	PTFE/PTFE	Stainless steel 1.4404	Stainless steel/FKM or EPDM

* With 07120, 07220, 04350

With “F” sealing material design – “physiologically safe - FDA”, the ball seat is made of PVDF

Motor Data

Identity code specification	Power supply	Remarks
U	1-phase, IP 65 100 – 230 V ±10 % / 240 V ±6 % 50/60 Hz 220 W	

Motors less than 0.75 kW and motors designed for speed-controllable operation are not subject to the IE3 standard in compliance with the Ecodesign Directive 2009/125/EC.

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