Motor-driven Metering Pump Sigma X: Sigma/ 2 S2Cb (Control Type)

New Technology, Durable Design



The entire Sigma motor-driven metering pump product range, control type S1Cb/S2Cb/S3Cb, has been equipped with intelligent features, like removable operating unit and an automatic overpressure cut-off.

Features and 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 signalling (electrical as an option).
- Integrated overload shut-down in the pump control to protect the pump from overloading and thus significantly reduce pressure surges caused by blockages.
- 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 integral PROFIBUS®.
- Integral log book saves up to 300 events and simplifies troubleshooting and analysis of the cause.

Technical changes reserved. Printed in Germany, 17-6-2026.

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Technical Data

Type	Capacity at max. back pressure				Suction lift	Perm. pre-pressure suction side	Connector Suction/ Discharge Side	Shipping weight
S2Cb	gph | l/h	psi	ml/stroke	Max. stroke rate Strokes/ min	ft | m WC	psi	inches	lb | kg
16050 PVT	16.12 | 61	145	11.4	90	23 | 7	29	1/2 MNPT	33.1 | 15
16050 SST	14.8 | 56	232	10.4	90	23 | 7	29	1/2 FNPT	44.1 | 20
16090 PVT	28.8 | 109	145	11.4	160	23 | 7	29	3/4 MNPT	33.1 | 15
16090 SST	26.16 | 99	232	10.3	160	23 | 7	29	1/2 FNPT	44.1 | 20
16130 PVT	34.61 | 131	145	10.9	200	23 | 7	29	3/4 MNPT	33.1 | 15
16130 SST	34.08 | 129	232	10.9	200	23 | 7	29	1/2 FNPT	44.1 | 20
07120 PVT *	39.63 | 150	102	27.4	90	16 | 5	15	3/4 MNPT	35.3 | 16
07120 SST *	39.63 | 150	102	27.4	90	16 | 5	15	3/4 MNPT	52.9 | 24
07220 PVT *	72 | 271	102	27.7	160	16 | 5	15	3/4 MNPT	35.3 | 16
07220 SST *	72 | 271	102	27.7	160	16 | 5	15	3/4 MNPT	52.9 | 24
04350 PVT *	93 | 353	58	29.4	200	16 | 5	15	1 MNPT	35.3 | 16
04350 SST *	93 | 353	58	29.4	200	16 | 5	15	1 MNPT	52.9 | 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 the pipework for these types (see technical data, suction/discharge side connector), the connector parts that can be ordered with 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

Identity code of material	Dosing head	Connection on suction/ discharge side	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
PVF	PVDF	PVDF	PTFE/PTFE	Ceramic/glass *	PVDF/FKM or EPDM
SSF	Stainless steel 1.4404	Stainless steel 1.4581	PTFE/PTFE	Stainless steel 1.4404	Stainless steel/FKM or EPDM
SSG	Stainless steel 1.4404	Stainless steel 1.4581	PTFE/stainless steel 1.4404	Stainless steel 1.4404	-
SSH	Stainless steel 1.4435	Stainless steel 1.4435	EPDM or FKM/stainless steel 1.4435	Ceramic	-

* With 07120, 07220, 04350

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	Wide-range voltage power unit

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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