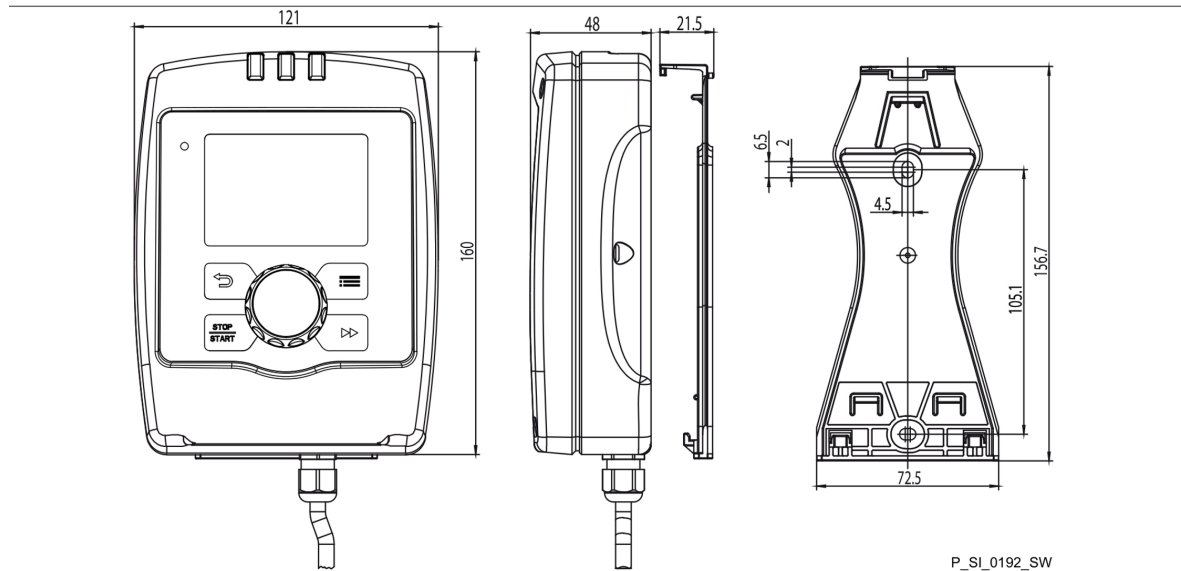


# Motor-Driven Metering Pump Sigma X Control Type – Sigma/ 2 - S2Cb

The new Sigma X family – reliable, smart and with scope for networking



Exemplary representation. The dimensions depend on the configuration chosen.

The Sigma control type is a smart motor-driven metering pump that is setting new standards in terms of productivity, reliability and safety.

## Technical Details

- Stroke length: 5 mm
- Stroke length adjustment range: 0 – 100%
- Stroke length adjustment: manually using self-locking rotary dial in 1 % increments
- With the right, constant conditions, correct installation and calibration, precision exceeds  $\pm 1$  %, based on maximum stroke volume.
- Power supply: 1-phase, 100 – 230 V  $\pm 10\%$ , 240 V  $\pm 6\%$ , 50/60 Hz (220 W)
- Degree of protection IP 65
- Fibreglass-reinforced plastic housing
- Manual or external contact mode can be set, factor with external contact control 99:1 – 1:99; batch mode with max. 99,999 strokes/start pulse.
- Display of wear parts in the Service menu.
- Connector for 2-stage level switch.
- Connection to PROFINET using the ProMinent DULCOntert PROFIBUS®-PROFINET converter.
- Variants with EU 1935/2004, FDA or hygienic design can be selected for food and other applications. Hygienic design liquid ends are available for applications with stringent hygiene requirements.
- Various relay modules can be selected.
- Wetted materials: PVDF, stainless steel 1.4571/1.4404, special materials on request
- Customised designs are available on request.

For reasons of safety, provide suitable overflow devices during installation for all mechanically deflected diaphragm metering pumps.



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

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## Technical Data

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

Integrated relief valve, connector for DN 10 pressure hose sleeve

## 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.