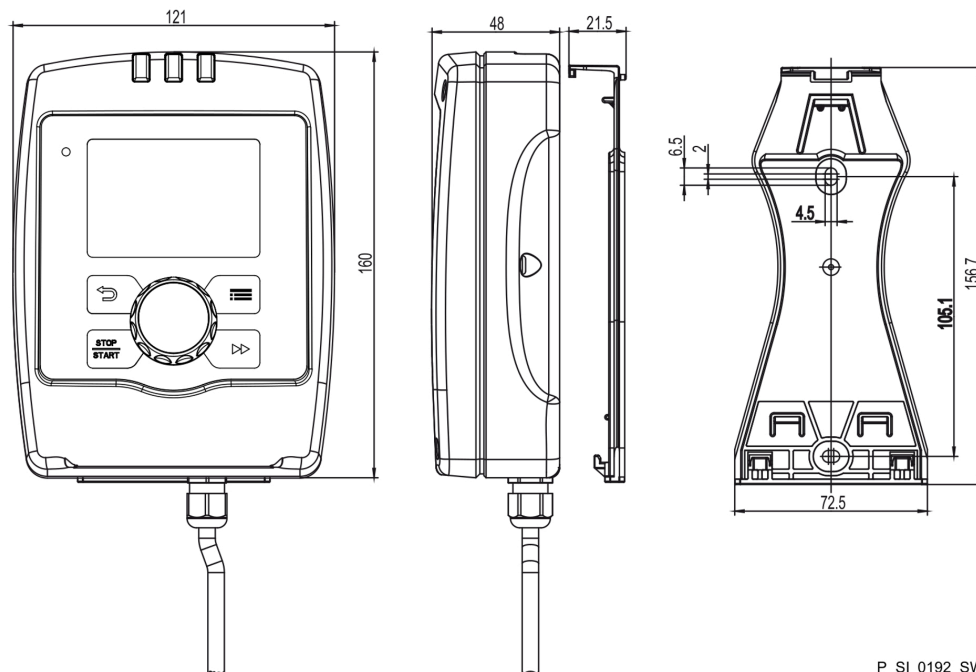


Motor-Driven Metering Pump Sigma X Control Type – Sigma/ 3 - S3Cb

The new Sigma X range – reliable, smart and connectible



P_SI_0192_SW

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: 6 mm
- Stroke length adjustment range: 0 – 100%
- Stroke length adjustment: manually using self-locking rotary dial in 1% increments
- Metering reproducibility is better than $\pm 2\%$ in the 30 – 100% stroke length adjustment range under defined conditions and with correct installation
- Power supply: 1 pH, 100 – 230 V $\pm 10\%$, 240 V $\pm 6\%$, 50/60 Hz (420 W)
- IP 65 degree of protection
- 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.
- Metering profiles for optimum metering results.
- Display of wear parts in the Service menu.
- Connector for 2-stage level switch.
- Connection to PROFINET using the ProMinent DULCONvert PROFIBUS®-PROFINET converter
- VARIOus relay modules can be selected.
- The Sigma product range is available in a "Physiologically safe in respect of wetted materials" design.
- Wetted materials: PVDF, stainless steel 1.4571/1.4404, special materials on request.
- Dosing heads with electro-polished stainless steel for aqueous media are available on request for hygienically challenging applications.
- We are happy to supply alternative material versions to comply with export conditions for pump capacities of >600 l/h and PVDF.
- Customised designs are available on request.

For reasons of safety, provide suitable overload protection mechanisms when installing all mechanically deflected diaphragm metering pumps.



Motor-Driven Metering Pump Sigma X Control Type – Sigma/ 3 - S3Cb

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Technical Data

Type	Pump 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
S3Cb	bar	l/h	ml/stroke	Strokes/min	psi	gph (US)	m WC	bar	G-DN	kg
120145 PVT	10	182	33.7	90	145	48.0	5	2	1 1/2–25	22
120145 SST	12	182	33.7	90	174	48.0	5	2	1 1/2–25	26
120190 PVT	10	243	33.7	120	145	64.1	5	2	1 1/2–25	22
120190 SST	12	243	33.7	120	174	64.1	5	2	1 1/2–25	26
120270 PVT	10	365	33.8	180	145	96.4	5	2	1 1/2–25	22
120270 SST	12	365	33.8	180	174	96.4	5	2	1 1/2–25	26
070410 PVT	7	500	95.1	90	102	132.0	4	1	2–32 *	24
070410 SST	7	500	95.1	90	102	132.0	4	1	2–32 *	29
070580 PVT	7	670	95.1	120	102	176.9	4	1	2–32 *	24
070580 SST	7	670	95.1	120	102	176.9	4	1	2–32 *	29
040830 PVT	4	1,040	95.1	180	58	274.7	3	1	2–32 *	24
040830 SST	4	1,040	95.1	180	58	274.7	3	1	2–32 *	29

* DN32 plate valves with valve spring

Materials in Contact with the Medium

Identity code of material	Seals	DN 25 ball valves			DN 32 plate valves			Integral relief valve
		Suction / discharge connection on dosing head DN 25	Valve balls	Valve seats	Suction / discharge connection on dosing head DN 32	Valve plates/ valve springs	Valve seats	
PVT	PTFE	PVDF	Glass	PTFE *	PVDF	Ceramic/ Hastelloy C + CTFE **	PTFE	PVDF/FKM or EPDM
SST	PTFE	Stainless steel 1.4581	Stainless steel 1.4404	PTFE *	Stainless steel 1.4581	Stainless steel 1.4404/Hastelloy C	PTFE	Stainless steel/FKM or EPDM
TTT ***	PTFE	PTFE + 25% carbon	Stainless steel 1.4404	PTFE *	PVDF	Ceramic/ Hastelloy C + CTFE **	PTFE	-
PVF	PTFE	PVDF	Glass	PVDF	-	-	-	-
SSF	PTFE	Stainless steel 1.4581/1.4404	Stainless steel 1.4404	PVDF	-	-	-	-
SSG	PTFE	Stainless steel 1.4581/1.4404	Stainless steel 1.4404	Stainless steel 1.4404	-	-	-	-
SSH ****	EPDM	Stainless steel 1.4435	Stainless steel 1.4404	Stainless steel 1.4404	Stainless steel 1.4581	Ceramic/E-CTFE	Stainless steel 1.4404	-

* With design "F", the ball seat is made of PVDF, only for DN 25 ball valves

** The valve spring is coated with CTFE (resistance similar to PTFE)

*** Specifically for areas at risk from explosion

**** DN 32 designed as ball non-return valve

Motor Data

Identity code specification	Power supply	Remarks
U	1-phase, IP 65 100 – 230 V ±10 % / 240 V ±6 % 50/60 Hz 420 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.