

Plunger Metering Pump Sigma/ 2 (Control Type)

Sigma plunger pump – durable, high-performance and intelligent.



Capacity range 2 – 76 l/h, 320 – 12 bar

The plunger metering pump Sigma/ 2 (Control Type) (SCKa) is a metering pump, the pump capacity of which can be precisely adjusted in 0.2% increments, either manually or

optionally with an electric actuator or control drive. The integrated controller allows the pump to adapt quickly and reliably to changing metering tasks.

Your benefits

Process reliability:

- Metering reproducibility is better than $\pm 1\%$ within the 10 – 100% stroke length range under defined conditions and with correct installation

Flexible adaptation to the process:

- The integrated controller allows the pump to adapt quickly and reliably to changing metering tasks
- Customised designs are available on request

Field of application

- Volume-proportional metering of chemicals in the treatment of boiler feed water
- Metering of reactants and catalysts in the chemical industry
- Level-dependent metering of auxiliary agents in industrial production engineering, for instance hot wax metering in the production of adhesive strips

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Technical Data

Type	Delivery rate at max. back pressure		With 1800 rpm motor at 60 Hz				Suction lift m WC	Perm. pre-pressure suction side bar	Connector Suction/Discharge Side Rp-DN	Shipping weight kg	Plunger Ø mm
	bar	ml/stroke	Delivery rate at max. back pressure		Max. stroke rate Strokes/min						
			psi	l/h		gph (US)					
32002	320	0.46	4,641	2.3	0.61	84	5.0	160	1/4	24	8
23004	230	0.52	3,336	4.8	1.27	154	5.0	115	1/4	24	8
10006	100	0.55	1,450	7.6	2.01	233	5.0	50	1/4	24	8
14006	140	1.42	2,031	7.1	1.88	84	4.0	70	1/4	24	12
10011	100	1.43	1,450	13.1	3.46	153	4.0	50	1/4	24	12
05016	50	1.43	725	20.0	5.28	233	4.0	25	1/4	24	12
07012	70	2.90	1,015	14.8	3.91	85	4.0	35	1/4	24	17
04522	45	2.91	653	26.7	7.05	153	4.0	22.5	1/4	24	17
02534	25	2.92	363	40.8	10.78	233	4.0	12.5	1/4	24	17
04022	40	5.26	580	26.5	7.00	84	4.0	20	3/8	25	23
02541	25	5.37	363	49.2	13.00	153	4.0	12.5	3/8	25	23
01264	12	5.45	174	65.4	17.28	200	4.0	6	3/8	25	23

Materials in Contact With the Medium

Material	Dosing head	Suction/pressure connector	Seals/ball seat	Balls	Ball seat
SST	Stainless steel 1.4404	Stainless steel 1.4404	PTFE or PTFE +25% carbon	Ceramic	Stainless steel 1.4404

Motor Data

Identity code specification	Power supply	Remarks
U	1-phase, IP 55 100 – 230 V ±10%, 240 V ±6%, 50/60 Hz	220 W

The motors are designed in compliance with the Ecodesign Directive 2009/125/EC.

Information for use in areas at risk from explosion

Only use pumps with the appropriate labelling in line with the ATEX Directive 2014/34/EU in premises at risk from explosion. Ensure that the explosion group, category and degree of protection specified on the label corresponds to or is better than the conditions prevalent in the intended field of application.