

Plunger Metering Pump Sigma/ 2 (Basic Type)

Sigma plunger pump – durable and high-performance

ProMinent®



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

The plunger metering pump Sigma/ 2 (Basic Type) (SBKa) 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. A wide range of power end versions is available for use in areas at risk from explosion with ATEX certification.

Your benefits

Excellent process reliability:

- Metering reproducibility is better than $\pm 1\%$ within the 10 – 100% stroke length range under defined conditions and with correct installation.
- Wide range of power end versions, also for use in Exe and Exde areas and different flange designs for the use of customised motors
- Customised designs are available on request

Field of application

Flexible adaptation to the process:

- 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 SBKa	With 1500 rpm motor at 50 Hz				With 1800 rpm motor at 60 Hz				Suction lift	Perm. pre-pressure suction side	Connection, suction/ discharge side	Shipping weight	Plunger Ø
	Delivery rate at max. back pressure		Max. stroke rate	Delivery rate at max. back pressure			Max. stroke rate						
	bar	l/h	ml/ stroke	Strokes/ min	psi	l/h/	gph (US)	Strokes/ min	m WC	bar	Rp-DN	kg	mm
32002	320	1.9	0.46	71	4,641	2.3	0.61	84	5.0	160	1/4	24	8
23004	230	4.0	0.52	129	3,336	4.8	1.27	154	5.0	115	1/4	24	8
10006	100	6.4	0.55	195	1,450	7.6	2.01	233	5.0	50	1/4	24	8
14006	140	6.1	1.42	71	2,031	7.1	1.88	84	4.0	70	1/4	24	12
10011	100	11.0	1.43	129	1,450	13.1	3.46	153	4.0	50	1/4	24	12
05016	50	16.7	1.43	195	725	20.0	5.28	233	4.0	25	1/4	24	12
07012	70	12.4	2.90	1	1,015	14.8	3.91	85	4.0	35	1/4	24	17
04522	45	22.5	2.91	129	653	26.7	7.05	153	4.0	22.5	1/4	24	17
02534	25	34.1	2.92	195	363	40.8	10.78	233	4.0	12.5	1/4	24	17
04022	40	22.4	5.26	71	580	26.5	7.00	84	4.0	20	3/8	25	23
02541	25	41.5	5.37	129	363	49.2	13.00	153	4.0	12.5	3/8	25	23
01264	12	64.0	5.45	195	174	76.0	20.08	233	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 1.4581	PTFE or PTFE+25% carbon	Ceramic	Stainless steel

Motor Data

Identity code specification	Power supply	Remarks
S	3-phase, IP 55 220 – 240 V/380 – 420 V 50 Hz 250 – 280 V/440 – 480 V 60 Hz	0.25 kW
R	3-phase, IP 55 230 V/400 V	50/60 Hz 0.37 kW with PTC, speed control range 1:20 with external fan
V0	1-phase, IP 55 230 V ± 5 %	50/60 Hz 0.37 kW Variable speed motor with integrated frequency converter
M	1-phase AC, IP 55 230 V ± 5 %	50/60 Hz 0.18 kW
N	1-phase AC, IP 55 115 V ± 5 %	60 Hz 0.18 kW
L1	3-phase, 220 – 240 V/380 – 420 V	50 Hz 0.18 kW
L2	3-phase, 250 – 280 V/440 – 480 V	60 Hz 0.18 kW with PTC, speed control range 1:5
P1	3-phase, 250 – 280 V/440 – 480 V	60 Hz 0.18 kW
P2	3-phase, 250 – 280 V/440 – 480 V	60 Hz 0.21 kW with PTC, speed control range 1:5

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