

## 2.4 ProMinent® Sigma/ 2 Piston Metering Pumps

### 2.4.1 Technical Data ProMinent Sigma Piston HK Metering Pumps

at 50 Hz Pump Capacity at Max. Back Pressure				Max. Stroke Freq.	at 60 Hz Pump Capacity at Max. Back Pressure		Stroking rate at max. back pressure	Suction Lift	Adm. Priming Pressure Suction Side	Connector Suction/ Discharge Side	Shipping Weight
Pump type SBKaHK	bar	l/h	ml/ stroke		bar SCKaHK	l/h					
32002 SST	320	1.9	0.46	71	320	2.3	84	5	approx. 50% of max permissible pressure	1/4"	24
23004 SST	230	4.0	0.52	125	230	4.8	154	5		1/4"	24
10006 SST	100	6.4	0.55	195	100	6.5	200	5		1/4"	24
14006 SST	140	6.1	1.42	71	140	7.1	84	4		1/4"	24
10011 SST	100	11.0	1.43	125	100	13.1	154	4		1/4"	24
05016 SST	50	16.7	1.43	195	50	17.1	200	4		1/4"	24
07012 SST	70	12.4	2.90	71	70	14.8	85	5		1/4"	24
04522 SST	45	22.5	2.91	125	45	26.7	153	4		1/4"	24
02534 SST	25	34.1	2.92	195	25	35.0	200	4		1/4"	24
04022 SST	40	22.4	5.26	71	40	26.5	84	4		3/8"	25
02541 SST	25	41.5	5.37	125	25	49.2	154	4	3/8"	25	
01264 SST	12	64.0	5.45	196	12	65.2	200	4	3/8"	25	

#### Materials in Contact with Chemicals

Material	Liquid End	Suction / Discharge connection	Seals	Valve Balls	Ball Seat
SST	Stainless steel 1.4571 / 1.4404	Stainless steel 1.4571 / 1.4404	PTFE/PTFE with graphite	Ceramic	Stainless steel 1.4571 / 1.4404

#### Motor Data

3 ph IP55	400V	50 Hz	0.18 kW	0.7/1.1 A	S
1 ph AC	230V	50 Hz	0.18 kW	1.7/1.5 A	M
3 ph EXe or EXde	400V	50 Hz	0.18 kW	0.7/1.1 A	L
3 ph EXe or EXde	400V	60 HZ	0.18 kW	0.6/1.0 A	P
1 ph AC	115V	60 HZ	0.18 kW	3.3 A	N
1 ph IP55	240V	50/60Hz	0.37 kW	Variable speed motor with integrated frequency converter	V0

The ProMinent Sigma basic version is also available with a standard motor flange (DIN ISO/NEMA standards). The electrical connection data specified here apply to the standard motor supplied.

### 2.4.2 Spare Parts Kits Sigma Piston HK

#### Spare parts kits Sigma HK

Consisting of: 1 ceramic dosing plunger, 4 valve balls, 4 ball seat discs, 2 ball PTFE/graphite ball seals, 2 plunger guides, 14 flat seals, 2 O-rings.

	Part No.
Applies to identity code: 32002, 23004, 10006 FK 0.8 for Sigma HK	1001572
Applies to identity code: 14006, 10011, 05016 FK 12.5 for Sigma HK	910470
Applies to identity code: 07012, 04522, 02534 FK 25 for Sigma HK	910471
Applies to identity code: 04022, 02541, 01264 FK 50 for Sigma HK	910472



2.4

**ProMinent® Sigma/ 2 Piston Metering Pumps**

2.4.3

Identity Code & Pricing for ProMinent Sigma Piston Metering Pumps **SBKaHK**

**SBKa Sigma Basic Type (SBKaHK)**

**HK Main Displacement component, piston**

**Pump type:** (figures 1 - 3 = back pressure [bar], figures 4 + 5 = feed rate [l/h])

32002	320 bar, 1.9 l/h
23004	230 bar, 4.0 l/h
10006	100 bar, 6.4 l/h
14006	140 bar, 6.1 l/h
10011	100 bar, 11.0 l/h
05016	50 bar, 16.7 l/h
07012	70 bar, 12.4 l/h
04522	45 bar, 22.5 l/h
02534	25 bar, 34.1 l/h
04022	40 bar, 22.4 l/h
02541	25 bar, 41.5 l/h
01264	12 bar, 64.2 l/h

**Liquid end materials:**

**SS** Stainless steel

**Seal Material:**

**T** PTFE seal

**Displacement component:**

**4** Piston (oxide ceramic)

**Liquid end version:**

- 0** No spring
- 1** With 2 valve springs, Hastelloy C4, 0.1 bar

**Hydraulic connection:**

**0** Standard according to technical data

**Version:**

- 0** With ProMinent® (standard)
- 1** Without ProMinent® logo

**Electrical power supply:**

- S** 3 ph. 230 V/400 V 50/60 Hz, 0.18 kW
- M** 1 ph. AC, 230 V/50/60 Hz, 0.18 kW
- N** 1 ph. AC 115 V 60 Hz, 0.18 kW
- L** 3 ph. 230 V/400 V, 50Hz, (EExe, EExde) } See Enclosure Rating
- P** 3 ph. 230 V/400 V, 60Hz, (EExe, EExde) } See Enclosure Rating
- R** 3ph, variable speed motor 4 pol. 230/400 V
- V (0)** var. speed motor with integral speed control 230/1/50

**Enclosure rating:**

- 0** IP 55 (standard)
- 1** Exe motor version (ATEX-T3)
- 2** Exde motor version (ATEX-T4)

**Stroke sensor:**

- 0** No stroke sensor (standard)
- 2** Pacing relay (reed relay)
- 3** Stroke sensor (Namur) for hazardous locations

**Stroke length adjustment:**

- 0** Manual (standard)
- 1** With stroke positioning motor, 230V/50/60 Hz
- 2** With stroke positioning motor, 115V/50/60 Hz
- 4** With stroke control motor, 4...20 mA 230 V/50/60Hz
- 6** With stroke control motor, 4...20 mA 115 V/50/60Hz

SBKa HK 23004 SS T 4 0 0 0 S 0 0 0

