

Order No. P86408  
Data sheet 231930  
Version 2 Item 1

**SEEPEX.**  
**ALL THINGS FLOW**

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## SEEPEX

Order No. P86408  
Date 25/05/2009  
Commission no. 231930

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## Customer

Purchase order no.

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qty.: 1

**Progressive cavity pump**  
**BTS 5-12**

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## Application data

L 203 FRU001

**Conveyed product** food product  
**Remark** Petits morceaux de fruits (raisin sec. framboises, purée de citron.  
**Flowability** 5700 - 10000 cPs  
**Viscosity**  
**Solids content** no advice  
**Size of solids** 15mm maxi  
**Concentration** no advice  
**Specific gravity** 1 kg/dm<sup>3</sup>  
**Product temperature** 4°C - 8°C  
**pH value** no advice  
**Kind of operation** continuous  
**Operating hours** 24h/24 - 6jour/7  
**Location** indoor, dry atmosphere  
**Altitude of installation** up to 1000 m assumed  
**Surrounding temperature** normal (5-40°C)

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## Performance data

	Capacity	Pressure	Speed	
	270 l/h	1 bar	20	min
	300 l/h	1 bar	22	norm
	330 l/h	1 bar	25	max

**Starting torque** 80 Nm  
**Req. operating power at pump shaft** 0.05 kW  
**Inlet pressure** flooded suction  
**NPSHr** 2.03 m

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Tolerances according to SEEPEX standards.

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## Materials and executions

**Installation** horizontal  
**Direction of rotation** counter clockwise (left)  
**Lantern - Design** standard  
**Lantern - Material** EN-JL-1040 (gci/GG 25)  
**Lantern - Flange diameter** 200 mm  
**Pressure branch - Design** standard  
**Pressure branch - Material** 1.4404 / AISI 316L  
**Pressure connection** 2 1/2" SMS  
**Feed hopper - Design** Standard inlet hopper  
**Feed hopper - Material** 1.4404 / AISI 316L

**Order No.** P86408  
**Data sheet** 231930  
**Version 2** Item 1

<b>Feed hopper - Connection design</b>	350 x 220 mm
<b>Feed hopper - Hopper position</b>	position 1
<b>Feed hopper - CIP Connection</b>	without
<b>Feed hopper - CIP connection</b>	without
<b>Joint - Design</b>	standard
<b>Joint - Material</b>	1.4404 / AISI 316L
<b>Joint - Universal joint sleeve: material</b>	EPDM light
<b>Joint - Joint Grease</b>	30321
<b>Coupling rod - Design</b>	screw design
<b>Coupling rod - Material</b>	1.4404 / AISI 316L
<b>Rotor - Design</b>	standard
<b>Rotor - Material</b>	1.4404 / AISI 316L
<b>Stator - Design</b>	standard with TSE, sensor sleeve 1.4404
<b>Stator - Material</b>	EPDM black (food grade)
<b>Shaft sealing</b>	mechanical seal
<b>Code</b>	mechanical seal, execution 60
<b>Quench</b>	design 3 With refillable supply tank. Quench chamber is filled with SEEPEX 50300 (glycerine) or for food applications with SEEPEX 60200, container is empty and has to be filled before commissioning. - capacity of supply tank: approx. 140 ml - materials of construction: nickel plated brass, plexiglass, NBR
<b>Shaft diameter</b>	45 mm
<b>Make</b>	SEEPEX
<b>Type</b>	GA-045 Q1Q1 EGG
<b>Casing - material</b>	1.4404 / AISI 316L
<b>Casing - connection standard</b>	ISO 228
<b>Plug-in Shaft - Design</b>	standard
<b>Plug-in Shaft - Material</b>	1.4404 / AISI 316L
<b>Plug-in Shaft - Drilling diameter</b>	35
<b>Plug-in Shaft - Drilling depth</b>	65
<b>Bolting - Design</b>	stainless steel incl. locking screws
<b>Painting - Number of colors</b>	single-colored standard RAL 1013
<b>Painting - Painted components</b>	1 complete combination
<b>Painting - Color</b>	standard RAL 1013 (off-white)

**Special design**

<b>Design</b>	Baseplate ===== (4 x Maschinenfüße Typ M75-3a16180-rho1655)
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**Special design**

<b>Design</b>	food grade design acc. to TI.103.01d
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**Drive**

<b>Drive Type</b>	Gear & Motor at freq. inv.
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<b>Type</b>	Gear
<b>Make</b>	Bockwoldt
<b>Model</b>	CB23NFF 100L - SL
<b>Mounting position</b>	B5
<b>Ratio (i)</b>	47,22

<b>Flange diameter</b>	200 mm
<b>Shaft diameter</b>	35 mm
<b>Shaft length</b>	70 mm
<b>Shaft drawing</b>	716/0050-003B4

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	<b>Norm</b>	<b>Min</b>	<b>Max</b>
<b>Speed</b>	31	6	18
<b>Motor speed</b>	1450	290	841
<b>Frequency</b>	50 Hz	10 Hz	29 Hz

**Type** Motor  
**Make** Dutchi Motors  
**Model** DMA1-100LX4  
**Rated output** 3.0 kW  
**Rated speed** 1450  
**Mounting position** B5

**Flange diameter** 250 mm  
**Shaft diameter** 28 mm

**Starting** direct on frequency inverter  
**Efficiency class** IE1  
**Terminal box position acc. to supplier** not specified  
**Cable entry position acc. to supplier** not specified  
**Winding protection** 3 PTC - (w/o break contacts)  
**Voltage** 380-420 / 660-690 V  
**Frequency** 50Hz  
**Motor accessories: forced ventilation** 220-240V, 50-60Hz, IP54  
**Thermal class** F  
**Enclosure** IP55

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### Baseplate

**Design** baseplate for block pump  
in food design, design BEs 2/2  
**Material** 1.4301 / AISI 304 glass bead blown  
**GPU Type Code** BES2/2-SS

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### Accessories

**Design** dry-running protection device  
model TSE 230AC  
voltage 220-240V / 50-60Hz

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### Documentation

**Dimensional drawing**  
**Sectional drawing** 082-002B1  
**Mechanical seal drawing** 262-0GA/0050-0-012A3  
**Operation Manual**