

## **Technical Data**

## **Preliminary Remark**

The units of measurement used in the technical data are based on the international (SI) units system.

### In this chapter you will find

- general Machine Data.
- information about Additional Specifications for your machine.

## Please note:

The values indicated (e.g., dimensions, weights) apply to standard machine designs.

Specific machine data can be found in other sections of your technical documents, e.g., in the spare parts or electrical component documents.



# **Machine Data**

Machine designation	SENSOMETIC					
Machine design	System for pressureless filling, VP-GL.					
Permissible machine application	For filling of products for which it has been designed by the manufacturer.					
	For filling in containers for which it has been designed by the manufacturer.					
Manufacturer	KRONES AG Böhmerwaldstr. 5 D-93068 Neutraubling					
	For further information, please refer to the address directory in the chapter titled "ADDITIONAL INFORMATION"!					
Serial number	Corresponds to the order (com.) number. (Please refer to the identification plate.)					
Year of construction	Please refer to the identification plate					
Position of identification plates	1x visible from the outside, under the machine table. 1x on the control cabinet.					



Machine type	Depending on the required output, sizes ranging from type 121 to type 136, type 221 to type 236, type 321 to type 336.
	Example: K-121-001
	Order (com.)  Manufacturer's number  Machine type
Machine model	Please refer to the group list included in the spare parts documents.



	VΡ	, _	GL	 10 /	10	. 1	KK -	. 94	4 l	_M
Valve Pneumatic						-				
Gravity Long tube  No. of filling valves	<u></u>									
No. of sealing heads				 	].					ì
Type of closer, if integrated  KK = crowner  NK = corker  SV = roll-on sealer  SOV = special closer  PST = closer for plastic stoppers										
Machine pitch in mm  If the pitch of the filler and closer is different, two values will be indicated in the following order, e.g,. 94/1	113.	<del></del>			<del></del>	n				
Machine's direction of rotation  LM = right-to-left design = container discharg  RM = left-to-right design = container discharg  Reference point: At front side of machine = side where container	oe at ri	iaht		 <del></del>	<del></del>					

## Machine specifications

Mechanical specifications, output rates, machine construction, dimensions and weights

are contained in the gearing layout drawing, foundation layout drawing, spare parts documents, data sheet, and in the installation layout drawing.

Electrical specifications, power requirements (type, quality, quantity)

are contained in the documents of the electrical components, (wiring diagram, electrical component list, electrical specifications, software plan, power and operating supply layout drawing, etc.)

Product supply

via product pipe

Feed/discharge of containers

by conveyors or infeed starwheel

### Noise emission value

The noise emission value in the working environment does not exceed

83 dB (A) at a nominal machine speed of up to 30,000 bph. 85 dB (A) at a nominal machine speed of up to 60,000 bph. These values were measured according to

DIN 45 635, section 28.



Permissible products	Only those products are to be filled for which the machine has been designed and constructed.
	The filling of products containing ozone must be specifically authorised as per order confirmation, as specially-suited materials are then required.
The machine is equipped for handling the container types according to the group list.	Please refer to the group list and container-specific group list(s) included in the spare parts documents.
Permissible gases/protective gases in the product bowl	Carbon dioxide (CO <sub>2</sub> ) Nitrogen (N <sub>2</sub> ) Sterile air Saturated steam
Permissible lubricants	Please refer to the chapter titled "Lubrication Instructions".
Permissible cleaning agents and disinfectants	Please refer to the chapter titled "Cleaning/Disinfection"
	The use of products and cleaning media containing ozone must be specifically authorised as per order confirmation, as specially-suited materials are then required.



## Supply connections

- Electricity
- gas (CO<sub>2</sub>, N<sub>2</sub>, sterile air),
- operating air,
- water,
- steam\*,
- product feed pipe,
- CIP return pipe.

Connected loads, nominal widths, and pressures are indicated in the installation layout drawing, data sheet or, if provided, in the power and operating supply layout drawing.



## Waste produced during machine operation

## During filling,

- gas (e.g., CO<sub>2</sub>, N<sub>2</sub>, sterile air),
  container fragments/waste,
- residual product.

### During CIP,

- waste water,
- steam\*,
- cleaning and disinfection solutions.

### During maintenance,

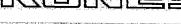
- old (spare) parts,
- lubricants and their containers,
- cleaning agents and solvents,
- batteries,
- plastic materials,
- etc.



Care must be taken to ensure that waste is disposed of by professionals.

Please also refer to KRONES' SAFETY INSTRUCTIONS.

Unless otherwise specifically agreed within the framework of the order confirmation, suction devices for steam must be installed by the customer with the assistance of an authorised air-conditioning system firm.



# Temperatures, Fill Levels, Pressures

#### Permissible operating Temperature [°C] temperatures min. max. For further information, please refer to Operating air\* + 5 + 50 the chart titled "Recommended Cleaning **Filling** Agents And Disinfectants" in the Product + 1 + 95 chapter titled "Maintenance". CIP / SIP\*\* The adjacent values are standard values. Cleaning/disinfection +80 The guaranteed solution performance values for filling directly Water + 95 relate to the filling temperatures as per Steam order confirmation. + 110 They are generally measured in the filled container.

For further information on the compressed-air quality, please refer to the instructions on "PNEUDRI High Efficiency Compressed Air Dryers" in the chapter titled "Additional Manuals".

\*\* CIP = Cleaning In Place

Meaning: Internal cleaning/disinfection of the machine, without having to disassemble it or having to make substantial changes as regards the mode of

operation.

SIP = Steaming In Place

To do so, a cleaning agent/disinfectant flows through the machine.



Permissible fill levels		Fill level [mm]			
		min.	max.		
	Product bowl	Depends on the product.			
	Oil container for lift cylinders  Do not check the oil level until the lift cylinders have been lowered!		30 (Please also refer to the marks corresponding to this level on the oil container.)		
	Main drive, gear	Fill level corresponds to the level of the sight glass.			



Permissible operating supply pressure levels	Pressure [gauge pressure in ba					
These values are valid only in		min.	max.			
compliance with the German regulations for the prevention of	Operating air	6	10			
accidents (UVV).	Filling					
	Gas (e.g., CO <sub>2</sub> , N <sub>2</sub> , ste	rile air)				
	For flushing the product bowl with gas.	1				
	For filling with minimal pressure.	3				
	Water	3	5			
	Product	Refer to the order confirmation.				
	CIP / SIP					
-	Cleaning/disinfection solution	2	3			
	Steam		0.5			



Permissible operating pressure levels		Pressure [gauge pressure in bar]					
		min.	max.				
		Operating air					
	Lift cylinders		3				
	5/2 directional valves, pneumatic motors	5	7				
	Automatic flap valves (= pipe system valves)	6	7				
	Dehumidifier	Same as operating supply pressure level fo operating air.					
	Ring distributor (filling valves)	6	7				
	Product control valve (Camflex)	1.4					
	Pressure for pneumatic clutches (only with BLOC arrangements)	3					
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Permissible operating pressure levels		Pressure [gauge pressure in bar]				
		min.	max.			
	Additional pressures					
	Gas (e.g. CO <sub>2</sub> , N <sub>2</sub> , sterile air)					
	For flushing the product bowl with gas.	Same as respective operating supp pressure level. (There should always be a moderat flow through the product bowl.)				
	For flushing the filling valves.	Sames as respective operating supply pressure level.				
	Product bowl pressure	Ambient air pressure 5				
	Water	Sames as respective operating supply pressure level.				
	Product	Sames as respe supply pres	ctive operating			
		,				