

## In General

**sera** suction lances type series SLP-151.1 and SLP-152.1 are used for the withdrawal of chemicals from tanks.

The suction lances can be connected via a bushing with the level input of the **sera** dosing pumps C-series (C 409.2 und C 410.2)

Integrated connection for feedback pipe from relief valve.

Before commissioning and while operating the **sera** - suction lance the regulations valid at the place of installation must be strictly observed.

## CAUTION !



Pay attention to the safety data sheet of the medium conveyed!  
Take appropriate accident prevention measures to avoid that operators are endangered by the used conveying media!

Immer ausreichende Be- und Entlüftung des Behälters sicherstellen !

The suction lances are only suitable for gas-tight operation in connection with the tank-bulkhead screw connections ! (see accessories)

Note the chemical resistance of the used medium contacted materials!

## CAUTION !



Keep suction lance vertical during exchange of container.  
Please note that remainders of chemical may drip off.

## Range of use

For dosing pumps with a capacity of max. 700 litre/hour and resembling water media (up to max. 100 mPas, with a density of up to  $> 1 \text{ kg/dm}^3$ ).

## Type code

SL	P	-	15	2	.	1
(1)	(2)		(3)	(4)		(5)

1)	Designation	<b>SuctionLance</b>
2)	Designation (addition)	<b>Protection (pipe)</b>
3)	Nominal size	<b>DN 15</b>
4)	Qty. of switching points	<b>1 or 2 level switches</b>
5)	Revision index	

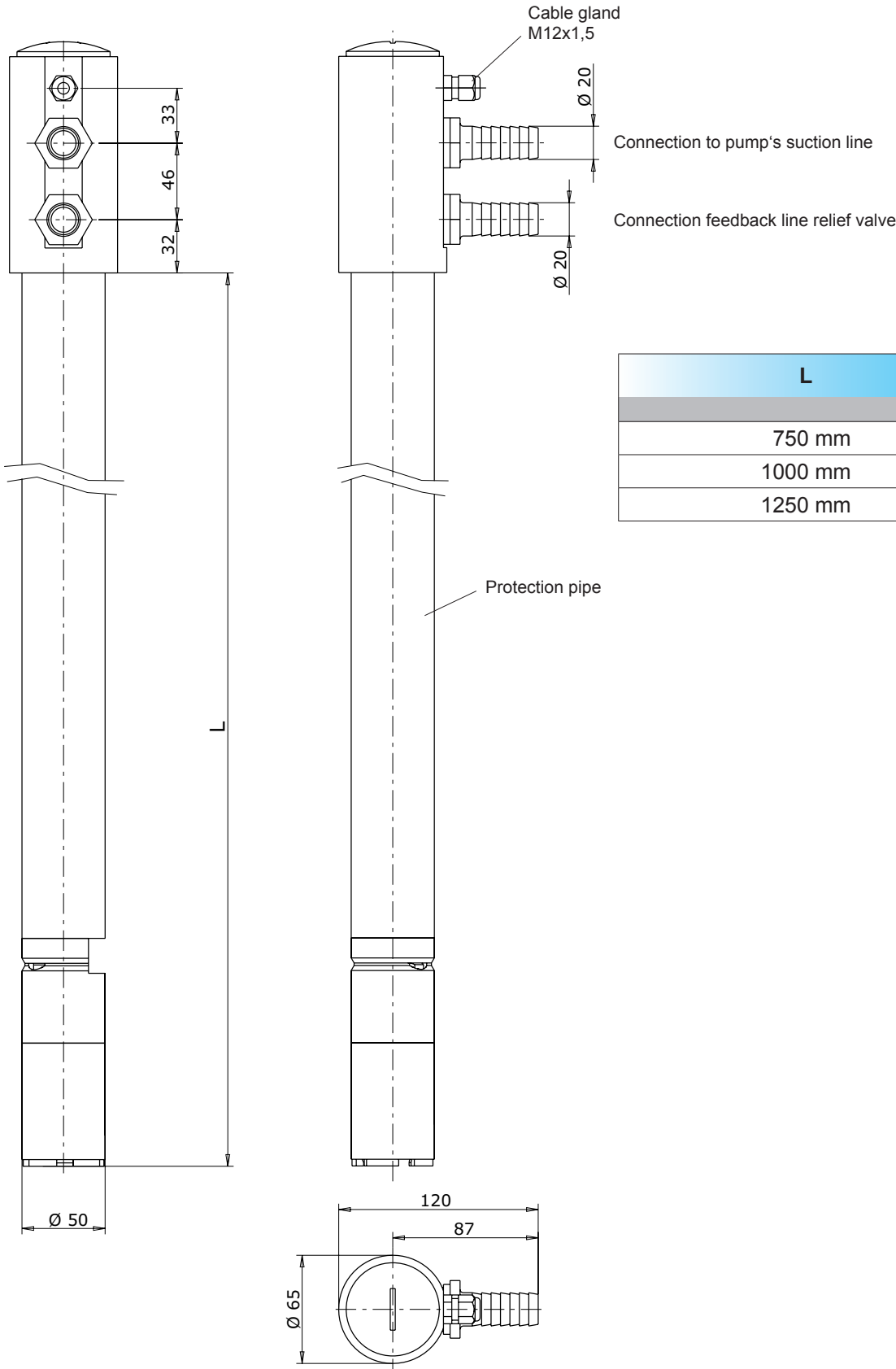
## Materials

(medium contacted)

Suction lance	PVC-U
Seals	FPM or EPDM
level switch(es)	PP
Valve ball	PTFE
Sieve	ETFE
Screw plug (only SLP-151.1)	PP

SLP-15x.1

**Dimensions**



L
750 mm
1000 mm
1250 mm

SLP-15x.1

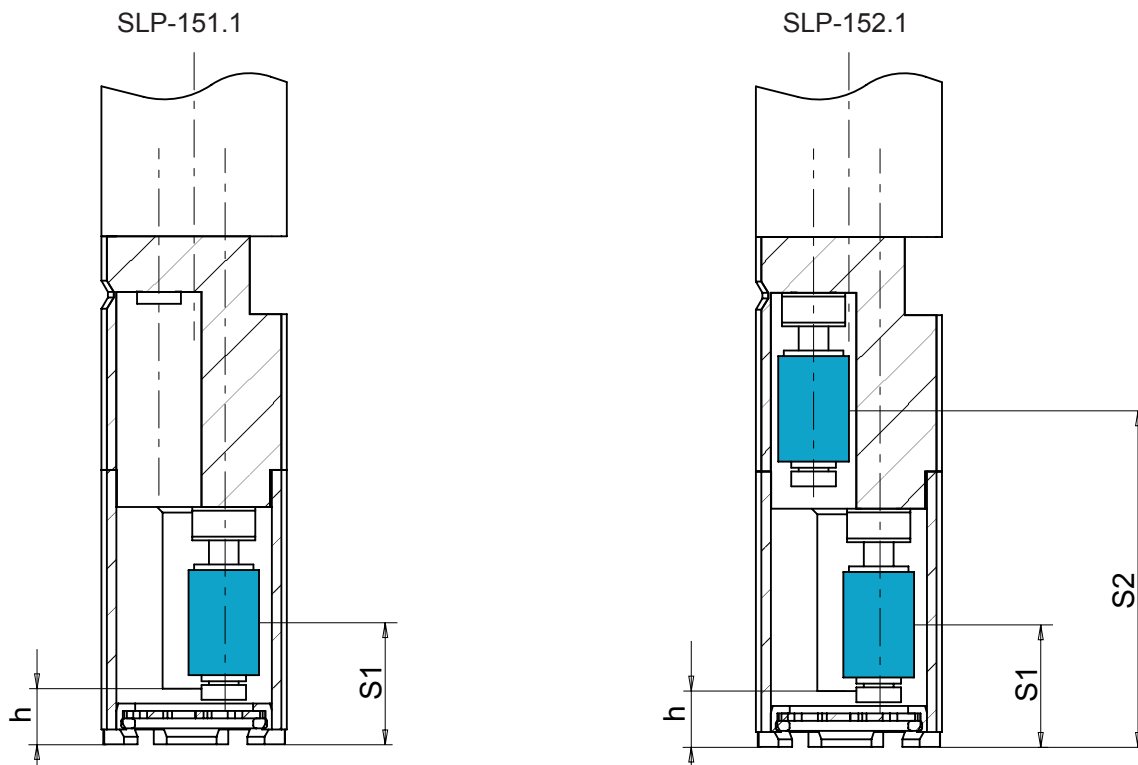
### Technical data

Mounting hole	min. 52 mm
Temperature range	>0°C ... 40°C (water)

Electrical data of switch(es)	
Rupturing capacity	10 W / 12 VA
Switching current	0,5 A
Turn-on voltage	Protection low voltage ( $\leq 48V$ AC/DC)
Enclosure	IP65 (ICE529)
Contact function	opening downwards

### Filling levels with level messages (switching points)

The switching points indicated are referring to water. Values S1 and S2 are changing for media with a higher density.



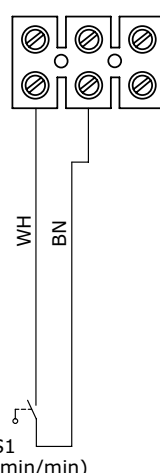
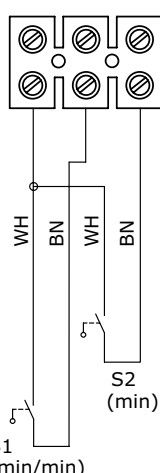
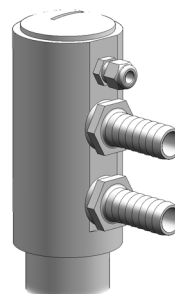
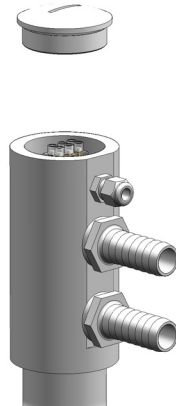
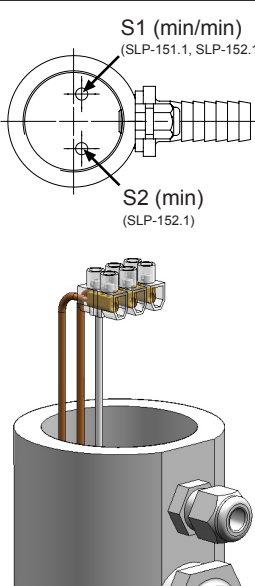
### Switching points

Switching point <b>S1</b> (min/min)	55 mm
Switching point <b>S2</b> (min)	113 mm

Remaining quantity <b>h</b>	approx. 15 mm (in case of SLP with contact to bottom)
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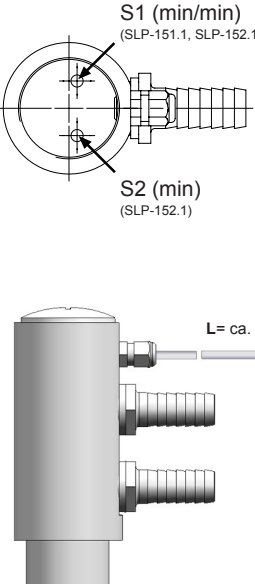

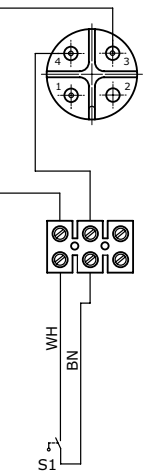
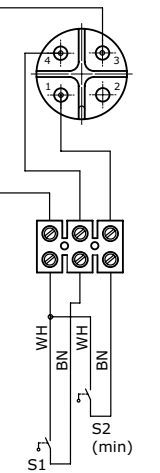
### Electrical connections

General

wiring diagram		The electrical connection is located in the upper part (head) of the suction lance.	Unscrew cover (with seal) from head of suction lance.	Pull out insulating screw joint cautiously and make connection according to circuit diagram.
SLP-151.1	SLP-152.1			
				

### Electrical connection

for connection to controllable dosing pumps of **sera** - C-series (C409.2 + C410.2)

wiring diagram		PIN-assignment Cable socket M12x1	<table><thead><tr><th>PIN (Cable socket/ -connector)</th><th>Function</th><th>wire (Suction lance)</th><th>wire (Cable socket)</th></tr></thead><tbody><tr><td>1</td><td>pre-alarm</td><td>brown (BN)</td><td>brown</td></tr><tr><td>2</td><td>---</td><td>(unassigned)</td><td>(unassigned)</td></tr><tr><td>3</td><td>+</td><td>white (WH)</td><td>blue</td></tr><tr><td>4</td><td>dry run</td><td>brown (BN)</td><td>black</td></tr></tbody></table>	PIN (Cable socket/ -connector)	Function	wire (Suction lance)	wire (Cable socket)	1	pre-alarm	brown (BN)	brown	2	---	(unassigned)	(unassigned)	3	+	white (WH)	blue	4	dry run	brown (BN)	black
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## Accessories

Image	Designation	Description	Article-No.
	Tank screwing, BCS 70x6 Di=50	Tank screwing for drum with internal thread.  Aeration only via the tolerance of the internal diameter of the adaptor or via a separate aeration of the drum.	<b>90028923</b>
	Tank screwing G2, IBC	Tank screwing for IBC-cover with G2 internal thread.  Aeration and deaeration via adaptor. (Gastight execution with option "hose set" (9002891) possible!)	<b>90028922</b>
	Tank screwing G2, universal	Tank screwing (bulkhead fitting) with flat seal and octagonal nut (PVC-U). Aeration and deaeration via adaptor.  (Gastight execution with option "hose set" (9002891) possible!)	<b>90028920</b>
	Hose set 1/4, d12, L3000	Hose set for connection to gastight tank screwing. Hose end has to be connected to exhaust system on site (by customer).  	<b>90028921</b>
	Tubular	Tubular to keep ready/hold the suction lance during the exchange of a drum.	<b>90028919</b>
	Control cable	Control cable for level input (M12x1, cable socket 3-pole, 5m), supplied separately	<b>90031245</b>