

Rigid Suction Lances RSL and Foot Valves FV

Installation and operating instructions



Original installation and operating instructions.

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Warning

Prior to installation, read these installation and operating instructions. Installation and operation must comply with local regulations and accepted codes of good practice.

1. Safety instructions

1.1 Symbols used in this document

The safety instructions are identified by the following symbols:

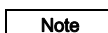


Warning

If these safety instructions are not observed, it may result in personal injury.



If these safety instructions are not observed, it may result in malfunction or damage to the equipment.



Notes or instructions that make the job easier and ensure safe operation.

1.2 Qualification and training of personnel

The personnel responsible for the installation, operation and service must be appropriately qualified for these tasks.

Areas of responsibility, levels of authority and the supervision of the personnel must be precisely defined by the operator.

If necessary, the personnel must be trained appropriately.

1.3 Safe operation

If safe operation is no longer possible, the product must be taken out of operation and secured against unintentional operation.

This is the case in the following situations:

- If the product is visibly damaged.
- If the product no longer seems operational.
- After long periods of storage under unfavourable conditions.

1.4 Safety instructions for the operating company/operator

The owner of the system is responsible for training of operating personnel.



Warning

When working with chemicals, the accident prevention regulations applicable at the installation site must be applied.

Observe the chemical manufacturer's safety data sheets when handling chemicals.



Warning

When working on the product, or connections and lines, always wear protective clothing (e.g. safety goggles and gloves).

The system must be unpressurised.

Only operate the system if all lines are connected correctly.



Warning

The chemical resistance of the parts that come into contact with the dosing medium depends on the medium, media temperature and operating pressure.

Ensure that all parts in contact with the medium are resistant to the medium under operating conditions.

2. Product introduction

2.1 Applications

The foot valve and the rigid suction lance are suitable for the following applications:

- Extraction of chemicals from unpressurised containers.
- Monitoring the liquid level in the chemical container (versions with two-step level indication).

Special features:

- Protection of the suction assembly (suction lance).
- Easy handling when exchanging containers.

2.2 Improper operating methods



Warning

Improper use, foreseeable misuse or misapplication can lead to personal injury and damage to the equipment and is therefore not permitted.

The operational safety of the product is only guaranteed, if it is used in accordance with section 2.1 Applications.

The product may not be used for:

- operation in potentially explosive areas
- combustible media
- frozen media
- abrasive or crystallising media.

2.3 Function

- Extracting liquid from a container with a suction line.
- Filtering the liquid to protect the pump from soiling.
- Preventing backflow of liquid by means of a non-return valve.
- Keeping the foot valve upright at the container bottom.
- Indicating a low level of liquid or an empty tank by means of two reed switches and floaters.
- Connecting an exchangeable container.

2.4 Warranty

A warranty claim in accordance with our general terms of sale and delivery is only valid if these requirements are fulfilled:

- The product is used in accordance with the information within this manual.
- The product is not dismantled or handled incorrectly.
- Maintenance is carried out by authorised and qualified personnel.
- Only original spare parts are used for repairs during maintenance.

Note

Grundfos cannot be held liable for any damage resulting from incorrect use.

2.5 Product description

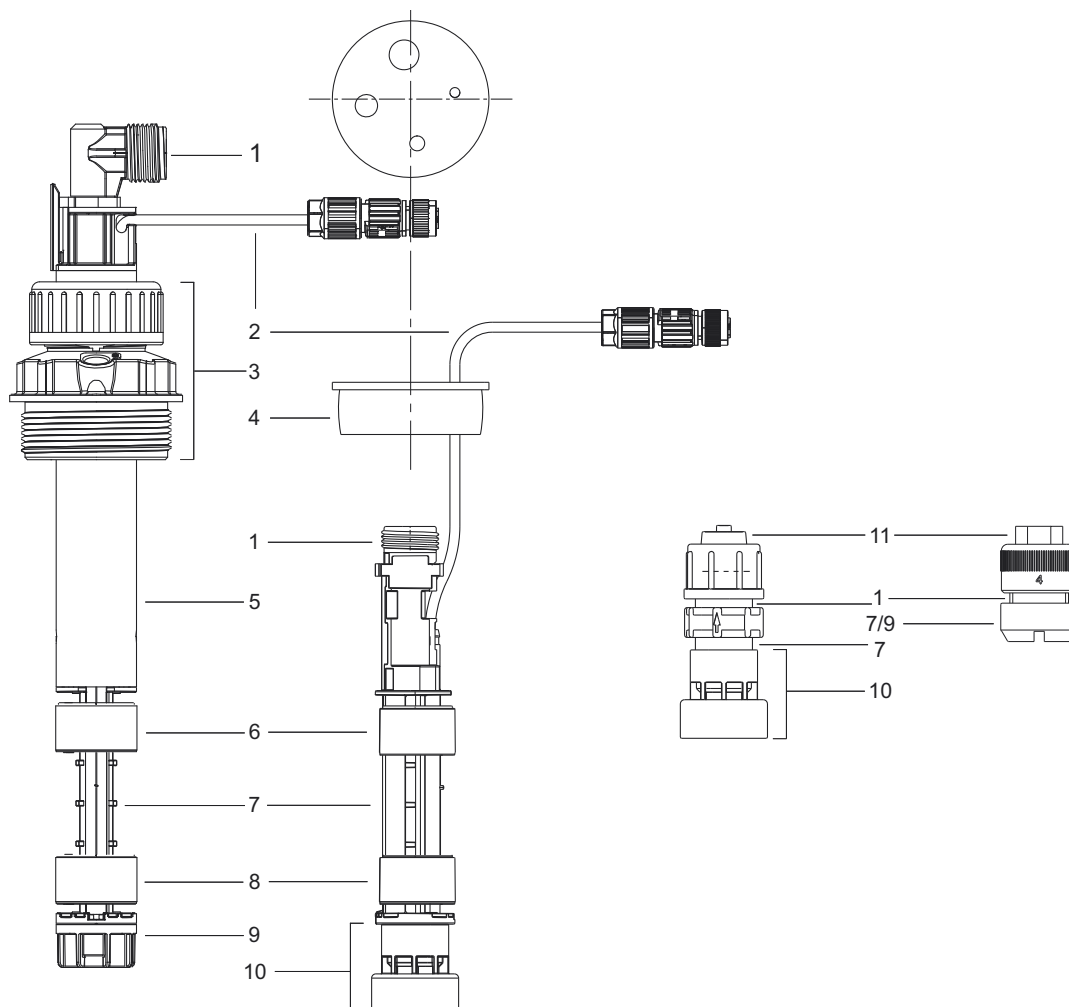


Fig. 1 From left to right: suction lance, foot valve with level indication, plastic and stainless-steel foot valve without level indication

Pos.	Description
1	Hose connection thread
2	Signal cable with plug
3	Tank connection, slidable
4	Tank cap, slidable
5	Protective tube with hose
6	Floater low-level
7	Valve body with switch unit
8	Floater empty
9	Inlet with strainer
10	Inlet with strainer and weight
11	Connection for hose or pipe

2.6 Identification

2.6.1 Type key of suction lances

Code	Example	RSL	-	0500	-	2L	-	G5/8	PE	/	V,E	/	C	U2
RSL	Rigid Suction Lance													
	Maximum immersion depth													
0400	up to 400 mm													
0500	up to 500 mm													
0570	up to 570 mm													
0690	up to 690 mm													
0820	up to 820 mm													
0980	up to 980 mm													
1100	up to 1100 mm													
1200	up to 1200 mm													
	Level indication													
NL	Without level indication													
2L	Two-step level indication (low-level signal, tank-empty signal)													
	Connection size													
G5/8	Male thread G 5/8 with groove for O-Ring on top													
	Material of enclosure, connection, floater													
PE	High density polyethylene (HDPE)													
PV	Polyvinylidenfluoride (PVDF)													
	Material of O-ring													
V,E	Fluorocarbon elastomer (FKM) and ethylene propylene diene rubber (EPDM)													
T	Polytetrafluorethylene (PTFE)													
	Material of ball													
C	Ceramic													
	Connections for hose													
U2	Hose connection set: 4/6 mm, 6/9 mm, 6/12 mm, 9/12 mm													
U7	Hose connection set: 0.17" x 1/4", 1/4" x 3/8", 3/8" x 1/2"													
X	Without connections													

2.6.2 Type key of foot valves

Code	Example	FV	-	2L	-	G5/8	PE	/	V,E	/	C	U2
FV	Foot valve											
	Level indication											
NL	Without level indication											
2L	Two-step level indication (low-level signal, tank-empty signal)											
	Connection size											
G5/8	Male thread G 5/8 with groove for O-Ring on top											
	Material of enclosure, connection, floater											
PE	High density polyethylene (HDPE)											
PV	Polyvinylidenfluoride (PVDF)											
SS	Stainless steel 1.4571											
	Material of O-ring											
V,E	Fluorocarbon elastomer (FKM) and ethylene propylene diene rubber (EPDM)											
T	Polytetrafluorethylene (PTFE)											
	Material of ball											
C	Ceramic											
SS	Stainless steel 1.4401											
	Connections for hose or pipe											
U2	Hose connection set: 4/6 mm, 6/9 mm, 6/12 mm, 9/12 mm											
U7	Hose connection set: 0.17" x 1/4", 1/4" x 3/8", 3/8" x 1/2"											
A	Threaded pipe connection Rp 1/4" (G 1/4" female)											
V	Threaded pipe connection 1/4" (NPT female)											
X	Without connections											

3. Technical data

Data		Foot valve and suction lance (PE)	Foot valve and suction lance (PVDF)	Foot valve (stainless steel)	
Mechanical data	Max. flow rate ¹⁾	[l/h]	60		
		[gph]	15.85		
	Max. pressure ²⁾	[bar]	2		
		[psi]	29		
	Max. liquid temperature	[°C]	45	60	80
	Min. liquid temperature	[°C]	0	0	-10
	Max. ambient temperature	[°C]	45		
	Min. ambient temperature	[°C]	0	0	-10
	Max. storage temperature	[°C]	45		
	Min. storage temperature	[°C]	0	0	-10
Electrical data (for versions with two-step level indication)	Length of included signal cable ³⁾	[m]	5	5	-
	Type of included signal cable		LIY2Y	LIY2Y	-
	Max. voltage of reed switches	[V]	48	48	-
	Max. current of reed switches	[A]	0.5	0.5	-
Weight ⁴⁾	Suction lance	[kg]	0.28 - 0.4	0.43 - 0.62	-
	Foot valve without level indication	[kg]	0.11	0.13	0.18
	Foot valve with level indication	[kg]	0.26	0.28	-

1) Liquids with viscosity similar to water

2) Applies to the inside of the suction installation. The container must be unpressurised!

3) Also for suction lances, the indicated cable length is measured starting from the valve body

4) When installed, without packaging

3.1 Dimensions

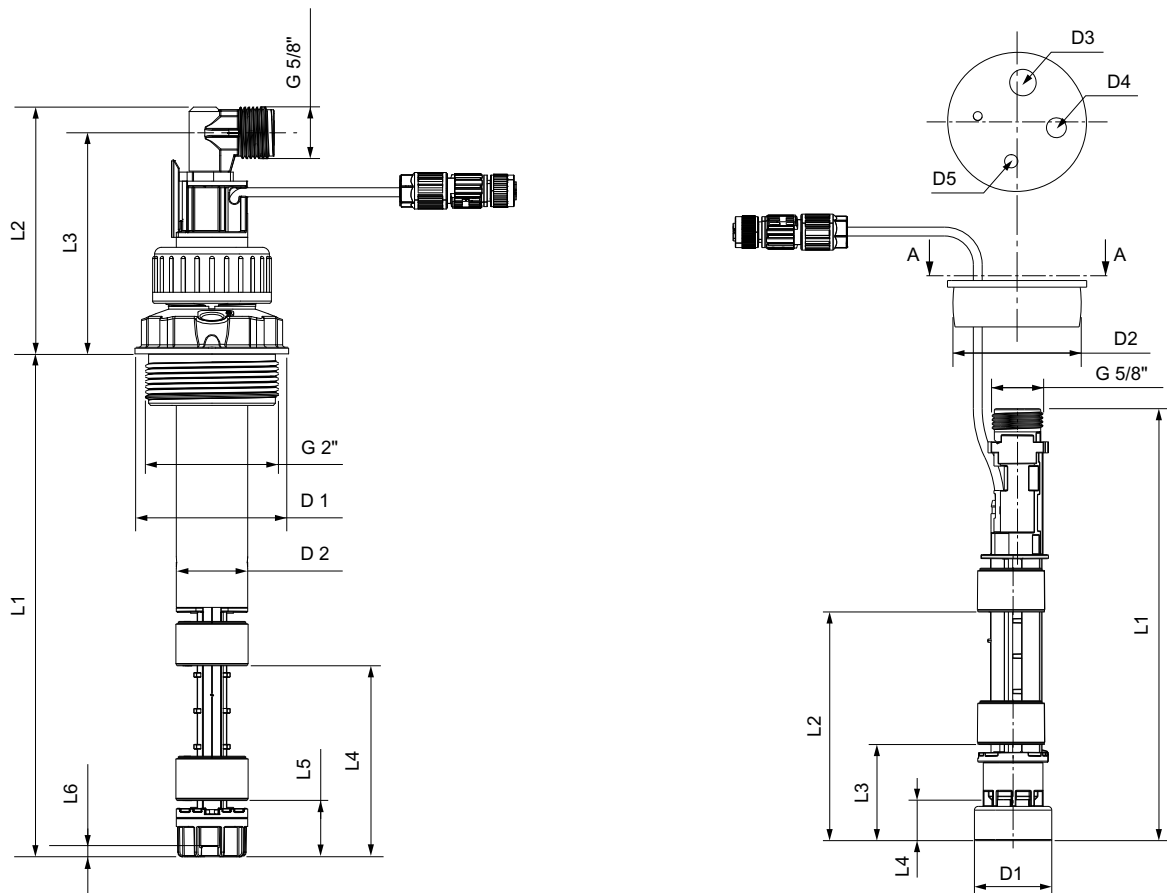


Fig. 2 Left: rigid suction lance with / without level indication, right: foot valve with level indication

Code	Dimensions [mm]	
	Suction lance	Foot valve
L1	see type key 2.6.1	196
L2	≥ 114	~ 103.5
L3	≥ 103	~ 43.5
L4	~ 85	18.5
L5	~ 25	-
L6	4.5	-
D1	68.5	35
D2	32	58
D3	-	12
D4	-	9
D5	-	6

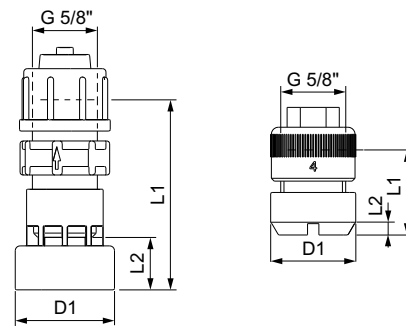


Fig. 3 Foot valve without level indication. Left: PE and PVDF version, right: stainless-steel version

Code	Dimensions [mm]	
	Foot valve PE, PVDF	Foot valve stainless steel
L1	67.5	30
L2	19	4
D1	35	30

TM04 8445 4511, TM04 8447 4511

TM04 8446 4511, TM04 8494 0612

4. Installation

4.1 Hydraulic connection



Warning

Danger of chemical burn!

Avoid direct contact with chemicals.

Wear protective clothing when handling chemicals.

4.1.1 Conditions for installation

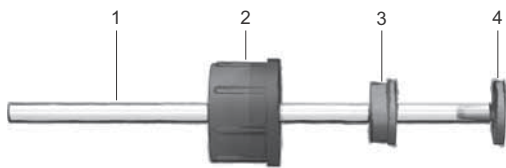
- Proper functioning can only be guaranteed when using Grundfos accessories.
- For suction height and line diameter, please see the technical data of the pump.

4.1.2 Notes for installation

- Shorten the hoses at right angles.
- Make sure there are no loops or kinks in the hoses.
- Keep the suction line as short as possible.
- Install the suction line upwards to the suction valve of the pump.

4.1.3 Connecting the hose (fig. 4)

1. Slide union nut (2) and tensioning ring (3) onto the hose (1).
2. Insert the cone part (4) fully into the hose.
3. Put the cone part with hose onto the corresponding threaded connection of foot valve / suction lance or suction valve of the pump.
4. Tighten union nut manually. Do not use any tools!
 - Tighten up union nut after 2-5 operating hours if using PTFE gaskets!
5. If existing, insert the deaeration line of the pump and the relief line of the multi-function or pressure relief valve via the corresponding connection of the foot valve or suction lance into the container.



TM04 8559 2212

Fig. 4 Hydraulic connection

Pos.	Description
1	Hose
2	Union nut
3	Tensioning ring
4	Cone part



Warning

Do not immerse the return lines into the liquid.

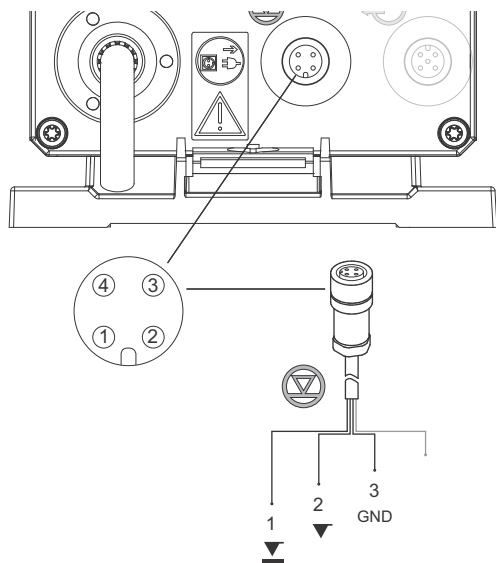
4.2 Electrical connection of level indication

In order to monitor the filling level of the container, a two-step level indication (low-level signal, tank-empty signal) can be connected to the pump or other downstream devices.

Note Observe the manuals of the downstream devices.

4.2.1 Signal connection with round plug

All SMART Digital pumps and the digital dosing pump DDI 222 are connected with round plugs.



TM04 8448 4511

Fig. 5 Signal connection with round plug

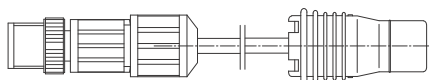
Level signal: low-level and tank-empty

Function	Pins		
	1/white	2/green	3/brown
Low level	X		GND
Tank empty		X	GND

4.2.2 Signal connection with flat plug

The foot valves and suction lances are supplied with round plugs. An adapter is required for connection to the dosing pumps DMX 221 and DMH with AR control.

Product number: 96635010



TM04 8449 4511

Fig. 6 Flat plug

4.2.3 Changing the contact type

Suction lances and foot valves with two-step level indication have two signal outputs. Both are factory-set to NO contact type. The symbol is on the floater top (see fig. 7).

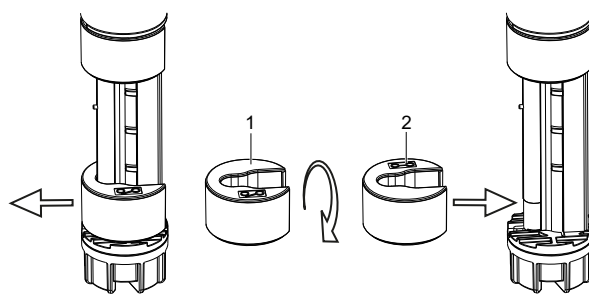
- The symbol that is visible from above shows the switch mode "floater above".
- The symbol that is visible from below shows the switch mode "floater below".

The contact type can be changed from NO to NC by turning the floater horizontally by 180°. A cable break will provoke a tank-empty signal.

Reversing the floater:

1. Remove the floater sideways
2. Turn the floater horizontally by 180° and attach it. Make sure that the NC symbol at the floater points upwards.
3. Adjust the signal inputs of the downstream devices (pump) accordingly

Note Observe the manuals of the downstream devices (pump).



TM04 8451 1112

Fig. 7 Changing the contact type

Pos.	Description	Symbol
1	Floater NO (normally open) contact	
2	Floater NC (normally closed) contact	

4.3 Container connection

4.3.1 Connecting to a Grundfos tank

1. Remove the screw cap from the tank.
2. Insert suction lance / foot valve into the threaded hole of the tank. Tighten the adapter screw manually.
3. Adapt the immersion depth of suction lance / foot valve to the tank height.



Fig. 8 Inserting the suction lance



Fig. 9 Inserting the foot valve

4. Fasten suction lance at hose connection.



Fig. 10 Fastening the suction lance

5. Fasten return lines, if existing.

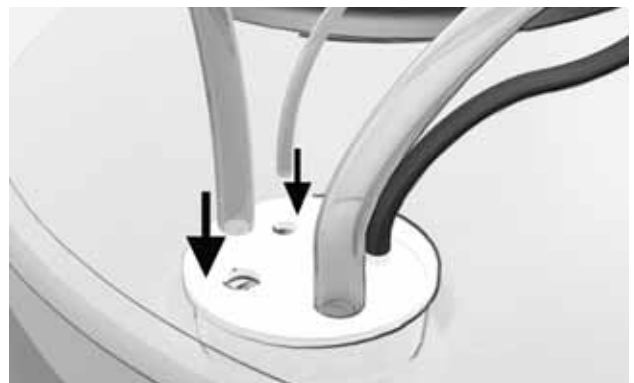


Fig. 11 Foot valve: insert lines into PE cap



Fig. 12 Suction lance: insert lines into tank connection



Warning

Do not immerse the return lines into the liquid.

TM04 8511 1012

TM04 8513 1012

TM04 8514 1012

TM04 8515 1012

TM04 8512 1012

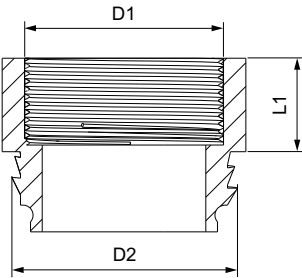
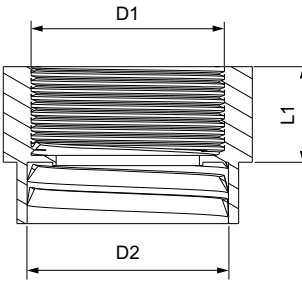
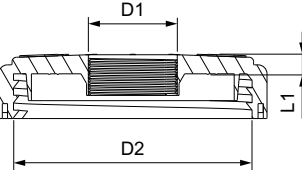
4.3.2 Connecting to an exchangeable container

1. Select adapter type and immersion depth from the tables below.
2. Mount adapter on foot valve or suction lance.
3. Adapt immersion depth of foot valve or suction lance (see table).

Immersion depth of suction lances

Container type	Volume [l]	Immersion depth [mm]
L-ring drum (blue)	120	820
	220	980
Steel drum (standard)	216	980
Standard jerrican according to EN 12712/12713	12, 33 (large opening)	400
	25, 30, 33	500
	60	690
IBC (intermediate bulk container)	all	1200

Adaptors for exchangeable containers

Dimensioned drawing	Dimensions			Adaptor type	Material, colour	Product No.	
	D1	D2	L1				
	G 2	2 NPT	31 mm	Adaptor for containers with 2" NPT threaded opening	PVC, grey	98156690	
	TM04 8490 0612	G 2	S 70 x 6	28 mm	Adaptor for drums with S 70 x 6 coarse thread (MAUSER 2")	PE, blue	98071171
		G 2	S 56 x 4	28 mm	Adaptor for drums with S 56 x 4 coarse thread (TriSure®)	PE, orange	98071172
	G 2	CCS 46 x 4	28 mm	Adaptor for jerricans with opening of approx. 36 mm, according to EN 12713	PE, green	98071173	
	TM04 8491 0612	G 2	CCS 60 x 6	28 mm	Adaptor for jerricans with opening of approx. 45 mm, according to EN 12713	PE, yellow	98071174
		G 2	CCS 70 x 6	31 mm	Adaptor for jerricans with opening of approx. 57 mm, according to EN 12713	PE, brown	98071175
		G 2	ASTM 63	28 mm	Adaptor for US containers with bung hole of 63 mm (ASTM International)	PE, white	98071176
	TM04 8493 0612	G 2	S 160 x 7	12.8 mm	Adaptor for IBC (Intermediate Bulk Container) with opening of 150 mm	PE, black	98071177

4.3.3 Connecting a suction lance to a container without opening provided

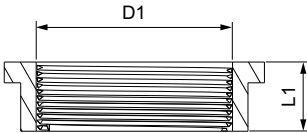
4. Cut a hole (Ø60) into the container top surface and insert the suction lance.
5. Fix the suction lance with the counter nut.
6. Adapt the immersion depth of the suction lance (see section 4.3.1).

Immersion depth of suction lances

Container type	Volume [l]	Immersion depth [mm]
Grundfos cylindrical tank	40	400
	1000	1200
Grundfos square tank	100	470

When using other containers, the required immersion depth must be determined by measurement.

Counter nut

Dimensioned drawing	Dimensions		Adaptor type	Material, colour	Product No.
	D1	L1			
	G 2	21 mm	Counter nut for drums with opening of 60 mm (without thread), e.g. 100-litre square tank or 1000-litre cylindrical tank	PVC, grey	98071170

5. Maintenance and service

Caution *Clean the strainer of the foot valve or suction lance regularly, depending on the degree of pollution.*

5.1 Maintenance

Clean the strainer,

- if it is soiled
- if the suction performance drops.

5.1.1 Cleaning the strainer

1. Shut down the dosing system.
2. Suction lances or foot valves with level indication: disconnect signal line from the pump or downstream device.
3. Remove suction line from the dosing head. If existing, remove deaeration line from the dosing head.
4. Take suction lance or foot valve out of the container.
5. Empty the suction lance.
6. Suction lance: Unscrew inlet with strainer unit from the bottom of the suction lance and clean it.
Foot valve: Unscrew inlet with weight and strainer from the valve, remove the strainer and clean it.

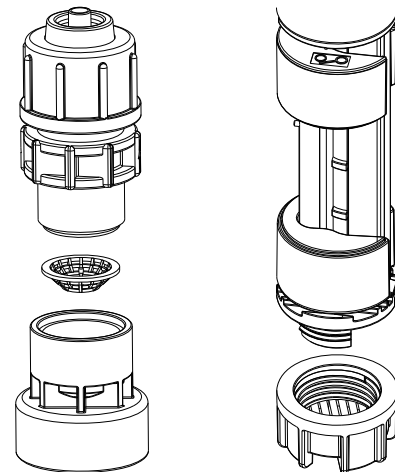


Fig. 13 Foot valve (left), suction lance (right): removing the strainer

5.2 Service

Foot valves and suction lances cannot be repaired.

6. Fault finding

Fault	Possible cause	Possible remedy
Too low flow or no flow	Strainer is soiled.	Clean the strainer.
	Pump is switched off.	Switch on the pump.
	Suction line is installed incorrectly.	Check the suction line and connection.
	Internal diameter of suction line is too small.	Use suction line with larger internal diameter.
	Suction line is not tight.	Check the line and connections.
Low-level or empty indication does not work	Signal line is not connected to the pump.	Connect the signal line to the pump.
	Contact type is set incorrectly.	Adapt setting of contact type (see section 4.2.3).
	Reed switch is defective.	Replace the foot valve or suction lance.

7. Disposal

This product or parts of it must be disposed of in an environmentally sound way. Use appropriate waste collection services. If this is not possible, contact the nearest Grundfos company or service workshop.

Subject to alterations.

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