

PLV

Pressure loading valves

Installation and operating instructions



Other languages

<http://net.grundfos.com/qr/i/96681527>

English (GB) Installation and operating instructions

Original installation and operating instructions

These installation and operating instructions describe the Grundfos PLV (Pressure Loading Valve). For PLV DN 32 (connection size G 2) see the separate manual delivered with the product.

Sections 1-4 give the information necessary to be able to install and start up the product in a safe way.

Sections 5-10 give important information about the product as well as information on service, fault finding and disposal of the product.

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1. General information

1.1 Target group

This document is intended for the operating company and the users. It contains general instructions that must be observed before installation and during operation and maintenance of the product. The responsible staff must read these instructions prior to any work on the product.

1.1.1 Qualification and training

The persons responsible for the tasks described in this document must be appropriately qualified.

1.1.2 Obligations of the operating company

- Observe the local safety regulations.
- Keep the installation and operating instructions available at the installation location at all times.
- Coordinate the preparation of the installation location observing section 9. *Technical data*.
- Ensure that the users are trained for their tasks.
- Provide the stipulated safety equipment and personal protective equipment.
- Arrange regular maintenance.

1.1.3 Obligations of the user

- Observe the recognised health and safety regulations as well as the local accident prevention regulations.
- Wear protective equipment in accordance with local health and safety regulations when working on the product and handling chemicals.
- Read and understand this document.

1.2 Safe operation

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.

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

Only operate the system if all lines are connected correctly.

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 does not seem operational.
- After long periods of storage under unfavourable conditions.



Read this document before installing the product. Installation and operation must comply with local regulations and accepted codes of good practice.

1.3 Symbols used in this document



WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious personal injury.



A blue or grey circle with a white graphical symbol indicates that an action must be taken.



A red or grey circle with a diagonal bar, possibly with a black graphical symbol, indicates that an action must not be taken or must be stopped.



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

2. Installing the product

2.1 Location

- The installation location must be protected from rain, humidity, condensation, direct sunlight and dust.
- The installation location must have sufficient lighting to ensure safe operation.
- Observe the permissible ambient conditions. See section [9.2 Storage and ambient temperatures](#).

2.2 Mechanical installation

The product must only be installed by authorised and qualified persons.

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.

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

Observe section [4.1 Handling the product](#).

Wipe up spilled liquid immediately to avoid slipping hazard.

2.2.1 Installation requirements

Pressure loading valves are installed in the outlet line. They can also be mounted directly on the outlet valve of the dosing pump with an optional adapter.



If a pressure loading valve is used in conjunction with a pressure relief valve, the pressure loading valve must be installed downstream the pressure relief valve.

If a pressure loading valve is used in conjunction with a pulsation damper DBG, the pressure loading valve must be installed downstream the pulsation damper.

2.2.2 Installation example

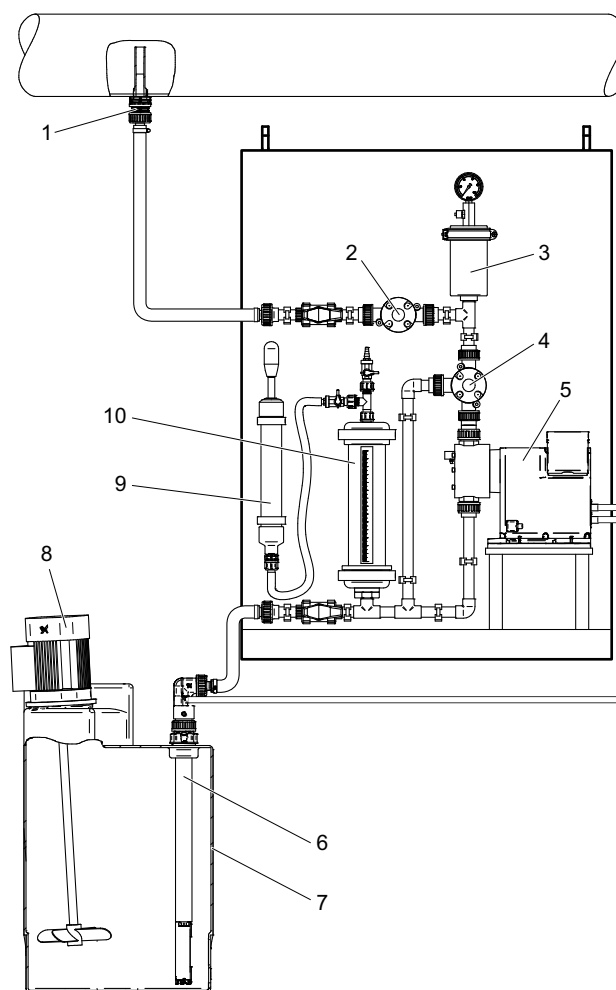


Fig. 1 Installation example

Pos.	Description
1	Injection unit
2	Pressure loading valve PLV
3	Pulsation damper DBG
4	Pressure relief valve PRV
5	Dosing pump
6	Rigid suction lance RSL
7	Dosing tank
8	Electric stirrer
9	Manual vacuum pump
10	Pulsation damper CSD

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2.2.3 Connections

The pressure loading valves have an inlet and an outlet. The flow direction is indicated by an arrow on the valve body.

2.2.4 Installing the valve in the outlet line

For PLV DN 32 (connection size G 2) see the separate manual delivered with the product.

Observe section [2.2.1 Installation requirements](#).



Install the valve in flow direction. The flow direction is indicated by an arrow on the valve body.

1. Install the valve in the outlet line.
2. Re-tighten the screws on the top part of the valve after 48 operating hours with a torque wrench. Max. torque:

Up to 60 l/h	60-460 l/h	DN 65
2 Nm	4 Nm	5 Nm

2.2.5 Installing the valve directly on the pump

Valves up to 460 l/h can be installed directly on the pump with a special adapter. See section [7.1 Union nut adapters \(up to 460 l/h\)](#).

1. Remove the connector from the inlet of the valve.
2. Screw the adapter onto the inlet of the valve.
3. Screw the valve with the adapter onto the outlet valve of the pump.
4. Connect the outlet line to the outlet of the valve.
5. Re-tighten the screws on the top part of the valve after 48 operating hours with a torque wrench. Max. torque:

Up to 60 l/h	60-460 l/h	DN 65
2 Nm	4 Nm	5 Nm

3. Commissioning the product

For PLV DN 32 (connection size G 2) see the separate manual delivered with the product.

The product must only be adjusted and commissioned by authorised and qualified persons. 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.

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

Wipe up spilled liquid immediately to avoid slipping hazard.

The opening pressure of the valve is set in the factory to the value specified in the technical data. See section [9. Technical data](#). During operation, the opening pressure depends on various factors, e.g. the flow, the stroke frequency of the pump, or the counterpressure. If a more precise setting is required, the valve must be adapted to the local conditions.

3.1 Setting the opening pressure

For PLV DN 32 (connection size G 2) see the separate manual delivered with the product.

If the dosing pump does not provide counterpressure measurement, a pressure gauge must be installed in the system between the pump and the pressure loading valve.

WARNING

Pressurised dosing medium

Death or serious personal injury

- Set the opening pressure lower than the maximum permissible operating pressure of the dosing system.

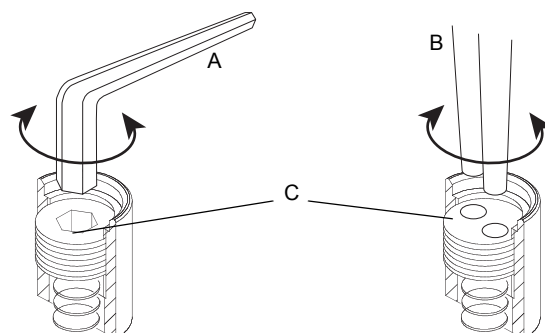


Fig. 2 Setting the opening pressure

While the pump is running:

1. Remove the protective cap from the top part of the valve.
2. Read the current opening pressure from the pump or the pressure gauge.
3. For valves up to 460 l/h use a hexagon wrench (A). For DN 65 valves use a pair of needle-nosed pliers (B):
 - Turn adjustment screw (C) clockwise to increase the pressure.
 - Turn adjustment screw (C) counterclockwise to reduce the pressure.
4. Set the desired opening pressure.
5. Attach the protective cap again.

4. Handling and storing the product

4.1 Handling the product

- Wear safety shoes during transport and installation.
- Wear a helmet if lifting the product higher than hip level.
- Use appropriate lifting and transporting equipment.
- Make sure that the product is not exposed to any point load during the transport.
- Avoid strong impacts.
- Observe the permissible ambient conditions. See section [9.2 Storage and ambient temperatures](#).

4.2 Storing the product

- Observe the permissible ambient conditions. See section [9.2 Storage and ambient temperatures](#).
- The storage location must be protected from rain, humidity, condensation, direct sunlight and dust.

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5. Product introduction

5.1 Intended use

The pressure loading valve PLV maintains a preset counterpressure at the outlet side of a dosing pump. The valve opens, if the pressure exceeds the preset opening pressure. It can be used in case of:

- insufficient or fluctuating counterpressure in the system
- open discharge.

The valve is suitable for liquid, non-abrasive, non-flammable and non-combustible media.

Observe the freezing and boiling points of the medium.

Make sure that parts in contact with the medium are resistant to the medium under operating conditions.



The product must not be used for any other purpose than the one mentioned above.

5.1.1 Improper operating methods

The operational safety of the product is only guaranteed, if it is used in accordance with section [5.1 Intended use](#).



Pressure loading valves are not isolating valves. They are not completely tight when closed.

The product must not be used for:

- operation in potentially explosive areas
- frozen media or gases
- crystallising media.

5.2 Identification

5.2.1 Nameplate (pressure loading valves from 60 to 460 l/h)



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Fig. 3 Nameplate

Pos.	Description
1	Product number
2	Week and year of production
3	Type key
4	Nominal width
5	Body material
6	Gasket material
7	Factory-set opening pressure
8	Maximum operating pressure
9	Country of origin

5.2.2 Type key

Pressure loading valves up to 60 l/h

Code	Description	PLV- G5/8- 3 PP/ V,E U2
PLV	Pressure loading valve	
Connection size		
G5/8	G 5/8 external thread, groove for O-ring on top	
G1/4	Rp 1/4 internal thread (only SS versions)	
1/4N	1/4 NPT internal thread (only SS versions)	
Opening pressure		
3	Preset opening pressure in bar	
Body and connection material		
PP	Polypropylene	
PVC	Polyvinyl chloride	
PV	Polyvinylidene fluoride (PVDF)	
SS	Stainless steel, grade 1.4571 according to EN 10027-2	
Gasket material		
V,E	FKM and EPDM gaskets are enclosed	
T	PTFE gaskets are enclosed	
-	No gaskets (only SS versions)	
Hose or pipe connections		
U2	Hose, 4/6 mm, 6/9 mm, 6/12 mm, 9/12 mm	
U7	Hose, 0.17" x 1/4"; 1/4" x 3/8"; 3/8" x 1/2"	
A	Threaded connections, Rp 1/4 internal thread	
V	Threaded connections, 1/4 NPT internal thread	
X	No connections included, please order separately from accessories range	

Pressure loading valves from 60 to 460 l/h

Code	Description	PLV-	G5/4-	3	PP/	V,E	U3
PLV	Pressure loading valve						
Connection size							
G5/4	G 5/4 external thread, groove for O-ring on top						
G3/4	Rp 3/4 internal thread (only SS versions)						
3/4N	3/4 NPT internal thread (only SS versions)						
Opening pressure							
3	Preset opening pressure in bar						
Body and connection material							
PP	Polypropylene						
PVC	Polyvinyl chloride						
PV	Polyvinylidene fluoride (PVDF)						
SS	Stainless steel, grade 1.4571 according to EN 10027-2						
Gasket material							
V,E	FKM and EPDM gaskets are enclosed						
T	Gasket material PTFE						
-	No gaskets (only SS versions)						
Hose or pipe connections							
U3	2x Union nut, G 5/4 2x Hose connector, 19/20 mm 2x Hose clamp 2x Pipe connector, 25 mm						
A7	2x Union nut, G 5/4 2x Inlay external thread, 3/4 NPT						
A1	Threaded connections, Rp 3/4 internal thread						
A3	Threaded connections, 3/4 NPT internal thread						
X	No connections included, please order separately from accessories range						

Pressure loading valves DN 32 (connection size G 2)

This section explains the type key shown on the Grundfos product packaging. For further information see the separate manual delivered with the product.

Code	Description	PLV-	G2-	10	PP/	V,E	B5
PLV	Pressure loading valve						
Connection size							
G2	G 2 external thread, groove for O-ring on top						
Opening pressure							
10	Maximum opening pressure in bar						
Body and connection material							
PP	Polypropylene						
PVC	Polyvinyl chloride						
PV	Polyvinylidene fluoride (PVDF)						
SS	Stainless steel						
Gasket material							
V,E	FKM and EPDM gaskets are enclosed						
T	Gasket material PTFE						
-	No gaskets (only SS versions)						
Hose or pipe connections							
B5	Union nut G 2 with parts for welded pipe connection 40 mm						
K	Union nut G 2 with parts for glued pipe connection 40 mm						
A2	Union nut G 2 with threaded connection Rp 1 1/4 internal thread						

6. Maintaining the product

The product must only be serviced by authorised and qualified persons.

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.

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

Observe section [4.1 Handling the product](#).

Wipe up spilled liquid immediately to avoid slipping hazard.

6.1 Maintenance schedule

Interval	Task
After 8000 operating hours or at least every 12 months or in case of faults	If necessary, clean all product surfaces with a dry and clean cloth. Replace the diaphragm. See section 6.3 Replacing the diaphragm .

6.2 Cleaning

If necessary, clean all product surfaces with a dry and clean cloth.

6.3 Replacing the diaphragm

For service parts see service kit catalogue:

http://net.grundfos.com/qr/i/96488862_23

1. Shut down and drain the dosing system.
2. Make it impossible for a return flow or overpressure to occur.
3. Loosen the screws on the top part of the valve.
4. Remove the top part of the valve.
5. Remove the diaphragm.
6. Insert the new diaphragm.
7. Refit the top part of the valve and cross-tighten the screws with a torque wrench. Max. torque:

Up to 60 l/h	60-460 l/h	DN 65
2 Nm	4 Nm	5 Nm

8. Start up the dosing system again.
9. Re-tighten the screws on the top part of the valve after 48 operating hours with a torque wrench. Max. torque:

Up to 60 l/h	60-460 l/h	DN 65
2 Nm	4 Nm	5 Nm

7. Accessories

7.1 Union nut adapters (up to 460 l/h)

Union nut adapters allow direct assembly on the outlet valve of the dosing pump.

Connections	Material	Product number
G 5/8 - G 5/8	PVC	95730437
	PP	95730438
	PVDF	95730439
G 5/8 - 1/4"	SS*	96693273
	PP	99228667
G 5/4 - G 5/4	PVC	99228665
	PVDF	99228669

* Stainless steel 1.4571

7.2 Set of counter flanges for pressure loading valves DN 65

Size	Material	Description	Product number
DN 65	PVC	Set includes lapped flange, headed bush, screws, washers, nuts	96727602
DN 65	PP		96727603
DN 65	SS*	Set includes welding neck flange, screws, washers, nuts	96727604

* Stainless steel 1.4571

8. Fault finding the product

Fault	Possible cause	Possible remedy
The pressure loading valve does not produce any counterpressure.	Defective diaphragm.	Replace the diaphragm.
	Dirt in the pressure loading valve.	Rinse the pressure loading valve.
	Opening pressure is set too low.	Set the pressure loading valve to a higher opening pressure.

9. Technical data

For PLV DN 32 (connection size G 2) see the separate manual delivered with the product.

9.1 Permissible media temperature

Body material	Maximum operating pressure	
	up to 10 bar	> 10 to 16 bar
PVC, PP	0 °C to +40 °C	0 °C to +20 °C
PVDF, SS	-10 °C to +40 °C	-10 °C to +20 °C

9.2 Storage and ambient temperatures

	Maximum operating pressure	
	up to 10 bar	> 10 to 16 bar
Min./Max. ambient temperature [°C]	0/+40	0/+20
Min./Max. storage temperature [°C]	-10/+50	

9.3 Pressure loading valves up to 60 l/h

9.3.1 Technical data

Maximum operating pressure	[bar]	16
Factory-set opening pressure	[bar]	~3
Opening pressure setting range	[bar]	~1-5
Maximum flow rate	[l/h]	60

9.3.2 Materials

Materials				Figure
Body	Connections	Gaskets	Type designation	
PP	PP	FKM/EPDM	PLV-G5/8-3 PP/V,E	4
PVC	PVC	FKM/EPDM	PLV-G5/8-3 PVC/V,E	
		PTFE	PLV-G5/8-3 PVC/T	
PVDF	PVDF	FKM/EPDM	PLV-G5/8-3 PV/V,E	
		PTFE	PLV-G5/8-3 PV/T	5
SS*	-	-	PLV-G1/4-3 SS/-	
SS*	-	-	PLV-1/4N-3 SS/-	

* Stainless steel 1.4571

9.3.3 Dimensional drawings

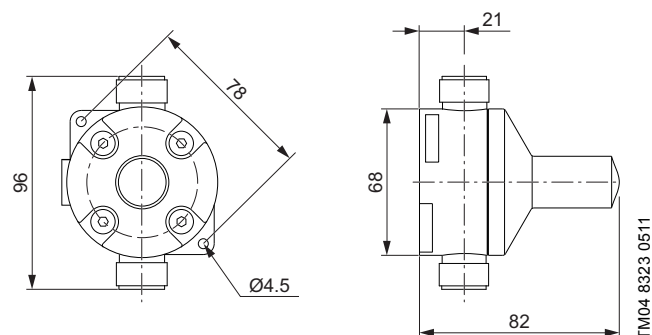


Fig. 4 Dimensions of PP, PVC, PVDF valves

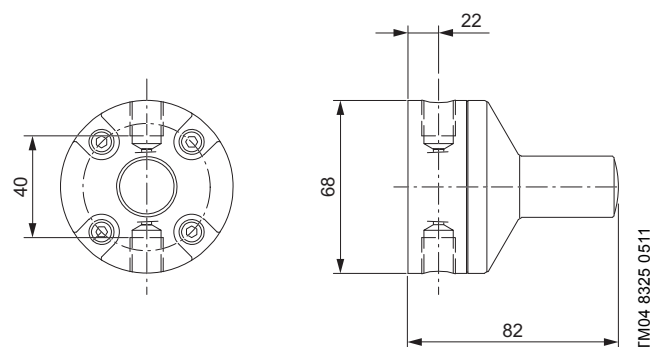


Fig. 5 Dimensions of SS valves

9.4 Pressure loading valves from 60 to 460 l/h

9.4.1 Technical data

Maximum operating pressure	[bar]	10
Factory-set opening pressure	[bar]	~3
Opening pressure setting range	[bar]	~3-10
Maximum flow rate	[l/h]	460

9.4.2 Materials

Materials			
Body	Connections	Gaskets	Type designation
PP	PP	FKM/EPDM	PLV-G5/4-3 PP/V,E
PVC	PVC	FKM/EPDM	PLV-G5/4-3 PVC/V,E
		PTFE	PLV-G5/4-3 PVC/T
PVDF	PVDF	FKM/EPDM	PLV-G5/4-3 PV/V,E
		PTFE	PLV-G5/4-3 PV/T
SS*	-	-	PLV-G3/4-3 SS/-
SS*	-	-	PLV-3/4N-3 SS/-

* Stainless steel 1.4571

9.4.3 Dimensional drawings

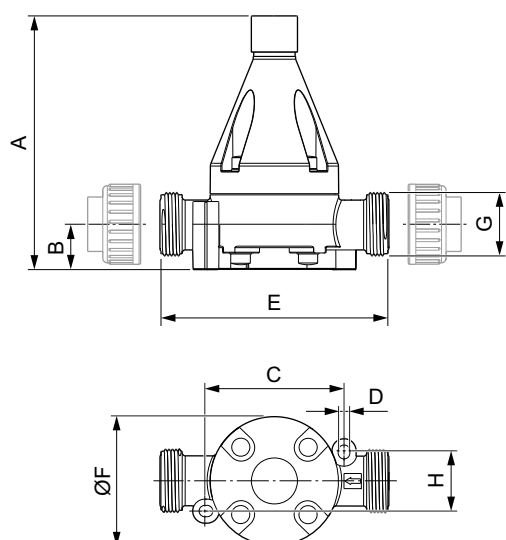


Fig. 6 Dimensions of PP, PVC, PVDF valves

A	B	C	D	E	ØF	G	H
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]
168	30	92	6.5	150	85	G 5/4	40

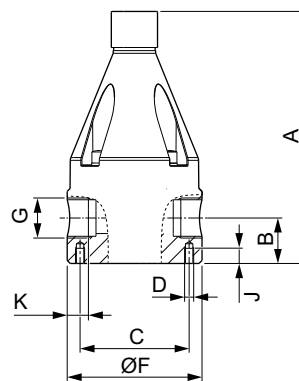


Fig. 7 Dimensions of SS valves

A	B	C	D	ØF	G	J	K
[mm]	[mm]	[mm]		[mm]		[mm]	[mm]
167	30	63	M 6	89	Rp 3/4 / 3/4 NPT	10	17.5

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9.5 Pressure loading valves DN 65

9.5.1 Technical data

Maximum operating pressure	[bar]	10
Opening pressure setting range	[bar]	~1-5
Maximum flow rate	[l/h]	4000

Factory-set opening pressure [bar]	Nominal width [mm]	Body	Gasket	L [mm]	Connection	Product number	Figure
~1.5	65	PVC	FKM	271	Flange DN 65	96638486	8
~1.5	65	PVC	EPDM	271	Flange DN 65	96635246	
~1.5	65	PP	FKM	324	Flange DN 65	96727367	
~1.5	65	SS*	PVC, soft	280	Flange DN 65	96694434	9

* Stainless steel 1.4571

9.5.2 Dimensional drawings

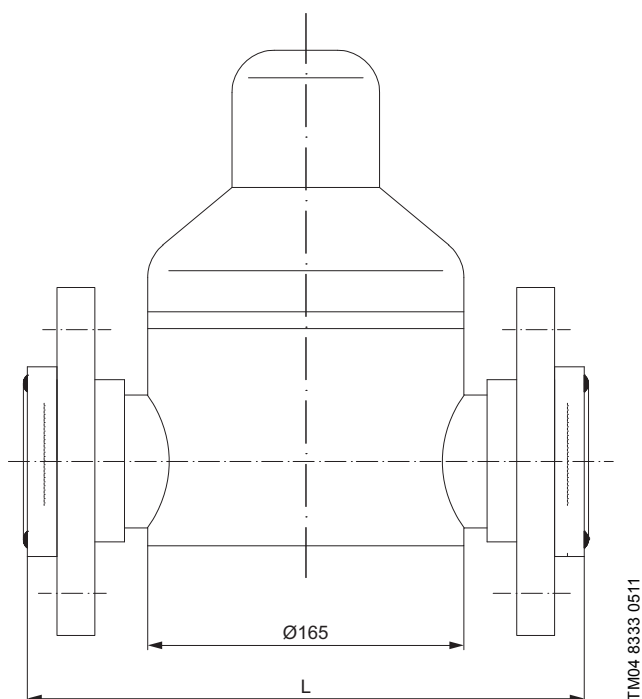


Fig. 8 Dimensions of PP, PVC valves

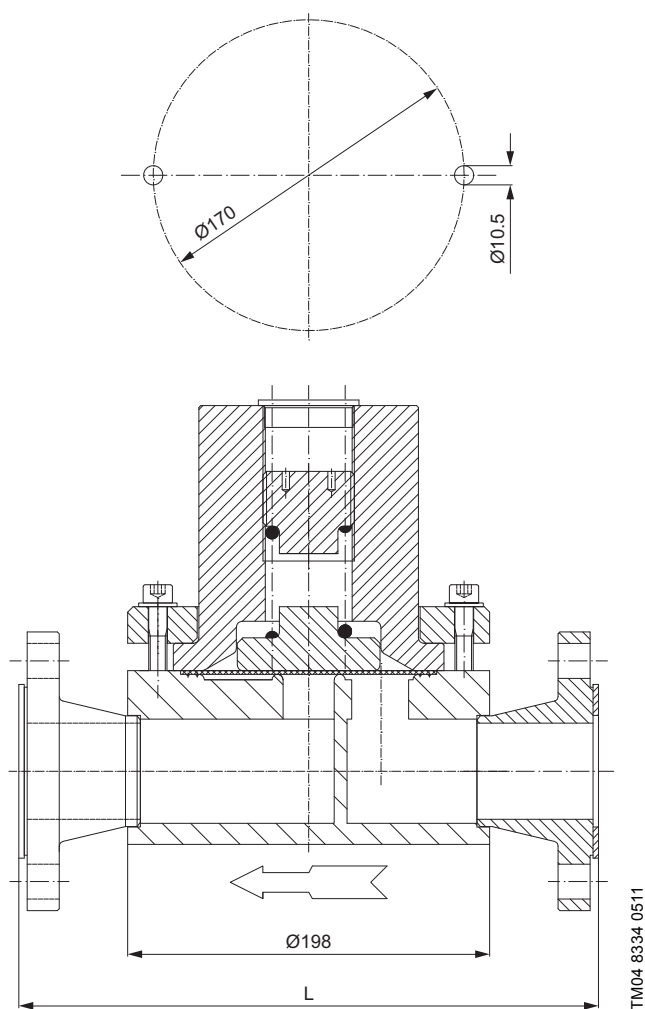


Fig. 9 Dimensions of SS valves

10. Disposing of the product

This product or parts of it must be disposed of in an environmentally sound way:

1. Use the public or private waste collection service.
2. If this is not possible, contact the nearest Grundfos company or service workshop.

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