

# Pressure loading valves

## Installation and operating instructions



# English (GB) 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

These installation and operating instructions contain all information important for users of the product:

- technical data
- instructions on installation and use
- safety information.

If you require further information or if any problems arise, which are not described in detail in this manual, please contact Grundfos.

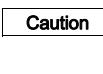
### 1.1 Symbols used in this document

The safety instructions are identified by the following symbols:

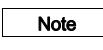


#### Warning

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 operator/user

The owner/operations manager 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. General information

### 2.1 Applications

The pressure loading valve keeps the pump's counterpressure constant. The valve opens, if the pressure exceeds the opening pressure adjusted at the valve.

The valve is suitable to maintain the required counterpressure of the pump in case of:

- insufficient counterpressure in the system
- open discharge.

**Warning**



*Other applications or the operation in ambient and operating conditions, which are not approved, are considered improper and are not permitted! Grundfos cannot be held liable for any damage resulting from incorrect use!*

### 2.2 Improper operating methods

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

**Caution** *Pressure loading valves are not isolating valves. They are never completely tight when closed.*

The product must not be used for:

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

### 2.3 Warranty

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

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

## 3. Technical data

### 3.1 Storage and ambient temperatures

	<b>Operating pressure</b>	
	<b>&lt; 10 bar</b>	<b>10-16 bar</b>
Min./Max. ambient temperature [°C]	0/+40	0/+20
Min./Max. storage temperature [°C]	-10/+50	

### 3.2 Permissible media temperature

<b>Material</b>	<b>Operating pressure</b>	
	<b>&lt; 10 bar</b>	<b>10-16 bar</b>
PVC, PP	0 °C to +40 °C	0 °C to +20 °C
PVDF, SS	-10 °C to +40 °C	-10 °C to +20 °C

### 3.3 Pressure loading valves up to 60 l/h

#### 3.3.1 Type key

Code	Example	PLV-	G5/8-	10	PP/	V,E	U2
PLV	Pressure loading valve						
	<b>Connection size</b>						
G5/8	G 5/8 male thread, groove for O-ring on top						
R1/4	Rp 1/4" female thread (only SS versions)						
1/4N	1/4" NPT female thread (only SS versions)						
	<b>Opening pressure</b>						
3	Preset opening pressure 3 bar						
	<b>Housing and connection material</b>						
PP	Polypropylene						
PVC	Polyvinyl chloride						
PV	Polyvinylidene fluoride (PVDF)						
SS	Stainless steel grade 1.4571 according to EN 10027-2						
	<b>Gasket materials</b>						
V,E	FKM and EPDM gaskets are enclosed						
T	PTFE gaskets are enclosed						
-	No gaskets (only SS versions)						
	<b>Hose or pipe connections</b>						
U2	Hose connections for sizes ID/OD [mm]: 4/6, 6/9, 6/12, 9/12						
U7	Hose connections for sizes ID x OD: 0.17" x 1/4", 1/4" x 3/8", 3/8" x 1/2"						
A	Threaded connections Rp 1/4" female						
V	Threaded connections 1/4" NPT female						
X	No connections included, please order separately from accessories range						

### 3.3.2 Technical data

Opening pressure [bar]	Connections included	Materials			Product number	Type designation	Drawing
		Housing	Connections	Gaskets			
3	Hose sizes [mm]: 4/6, 6/9, 6/12, 9/12	PP	PP	FKM/EPDM	95730741	PLV-G5/8-3 PP/V,E U2	
		PVC	PVC	FKM/EPDM	95730742	PLV-G5/8-3 PVC/V,E U2	
				PTFE	95730743	PLV-G5/8-3 PVC/T U2	
		PVDF	PVDF	FKM/EPDM	95730744	PLV-G5/8-3 PV/V,E U2	
				PTFE	95730745	PLV-G5/8-3 PV/T U2	
	Hose sizes: 0.17" x 1/4", 1/4" x 3/8", 3/8" x 1/2"	PP	PP	FKM/EPDM	95730746	PLV-G5/8-3 PP/V,E U7	Fig. 1
		PVC	PVC	FKM/EPDM	95730747	PLV-G5/8-3 PVC/V,E U7	
				PTFE	95730748	PLV-G5/8-3 PVC/T U7	
		PVDF	PVDF	FKM/EPDM	95730749	PLV-G5/8-3 PV/V,E U7	
				PTFE	95730750	PLV-G5/8-3 PV/T U7	
	Threaded G 1/4	SS	(SS)	no gaskets	95730751	PLV-G1/4-3 SS/- A	
	Threaded 1/4" NPT	SS	(SS)	no gaskets	95730752	PLV-1/4N-3 SS/- V	Fig. 2
	Without connections	PP	-	FKM/EPDM	95730753	PLV-G5/8-3 PP/V,E X	
		PVC	-	FKM/EPDM	95730754	PLV-G5/8-3 PVC/V,E X	
				PTFE	95730755	PLV-G5/8-3 PVC/T X	
		PVDF	-	FKM/EPDM	95730756	PLV-G5/8-3 PV/V,E X	
				PTFE	95730645	PLV-G5/8-3 PV/T X	

### 3.3.3 Dimensional drawings

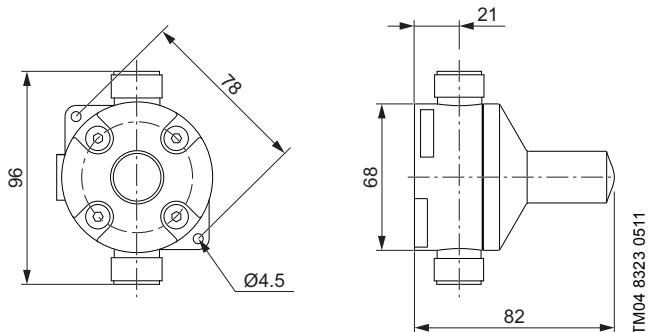


Fig. 1 Dimensions PP, PVC, PVDF

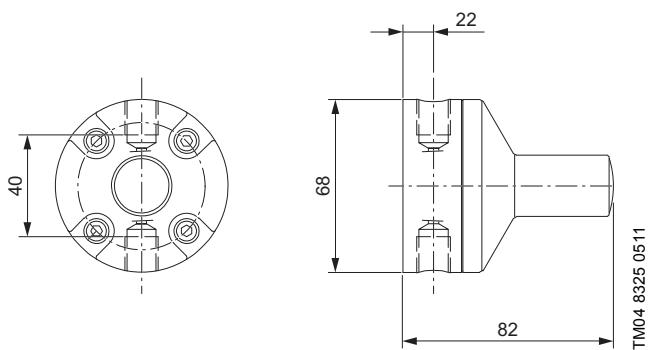


Fig. 2 Dimensions SS

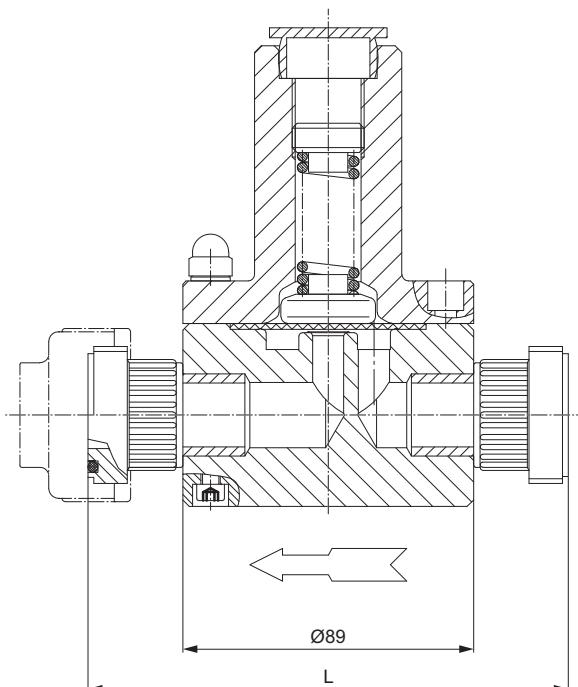
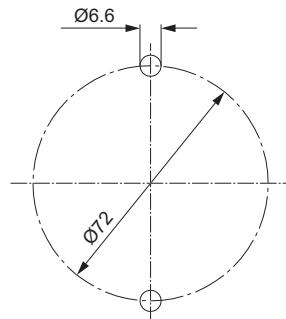
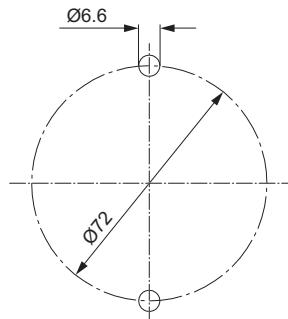
### 3.4 Pressure loading valves DN 20

#### 3.4.1 Technical data

Opening pressure [bar]	Housing	Gasket	L [mm]	Hose ID/OD [mm]	Pipe ID/OD [mm]	Connection	Product number	Drawing
3	PVC	Viton	149	13/20	20/25	G 1 1/4	96376567	Fig. 3
	PVC	Viton	149	19/27		G 1 1/4	96295906	
	PVC	EPDM	149	13/20	20/25	G 1 1/4	96693603	
	PVC	EPDM	149	19/27		G 1 1/4	96295905	
	PVC	PTFE	149	19/27		G 1 1/4	96727369	
	PP	Viton	152.5		20/25	G 1 1/4	96693704	
	PP	Viton	152.5	19/27		G 1 1/4	96295904	
	PP	EPDM	152.5		20/25	G 1 1/4	96727370	
	PP	EPDM	152.5	19/27		G 1 1/4	96295903	
	PVDF	PTFE	145.5		20/25	G 1 1/4	96618727	
SS*	SS*	-				G 3/4	96295907	Fig. 4
	PVC	Viton	149			3/4" NPT	91835674	Fig. 3

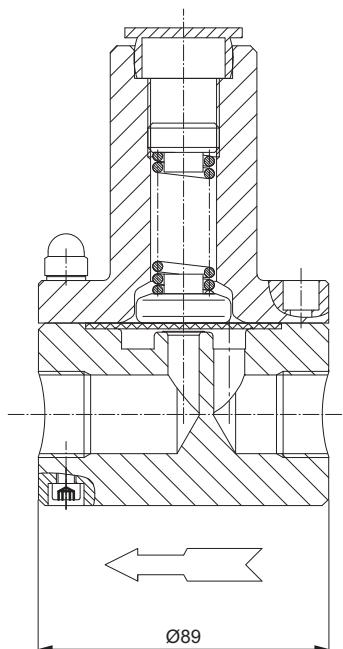
\* Stainless steel 1.4571, according to EN 10027-2

#### 3.4.2 Dimensional drawings



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Fig. 3 Dimensions PP, PVC, PVDF



TM04 8327 0511

Fig. 4 Dimensions SS

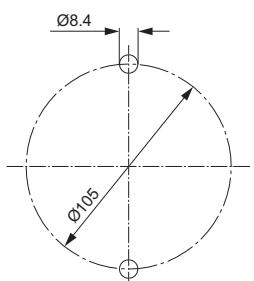
### 3.5 Pressure loading valves DN 32

#### 3.5.1 Technical data

Opening pressure [bar]	Housing	Gasket	L [mm]	Pipe ID/OD [mm]	Connection	Product number	Drawing
3	PP	Viton	229	32/40	flange DN 32	96695919	Fig. 7
	PP	Viton	205	32/40	G 2	96295909	Fig. 6
	PP	EPDM	229		flange DN 32	96727371	Fig. 7
	PP	EPDM	205	32/40	G 2	96295908	
	PVC	Viton	205	32/40	G 2	96295911	Fig. 6
	PVC	EPDM	205	32/40	G 2	96295910	
	PVC	Viton	229		flange DN 32	96695695	
	PVC	EPDM	229		flange DN 32	96695696	Fig. 7
	SS*	-			G 1 1/4	96295912	Fig. 8
	SS*	PVC	206		flange DN 32/G 1 1/4	96652055	Fig. 9
	PVDF	PTFE	229	32/40	flange DN 32	96692234	Fig. 7

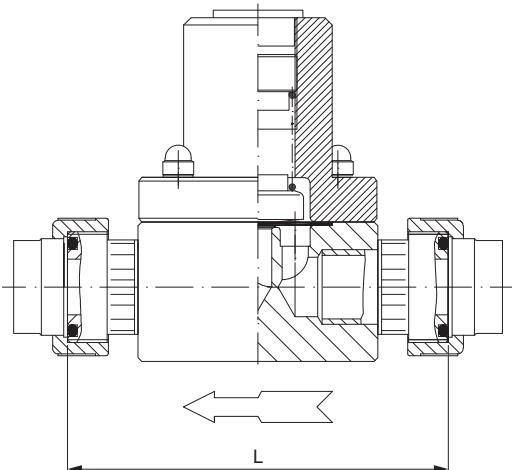
\* Stainless steel 1.4571, according to EN 10027-2

#### 3.5.2 Dimensional drawings



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Fig. 5 Drilling scheme (all versions)



TM04 8329 0511

Fig. 6 Dimensions PP, PVC, PVDF, no flange

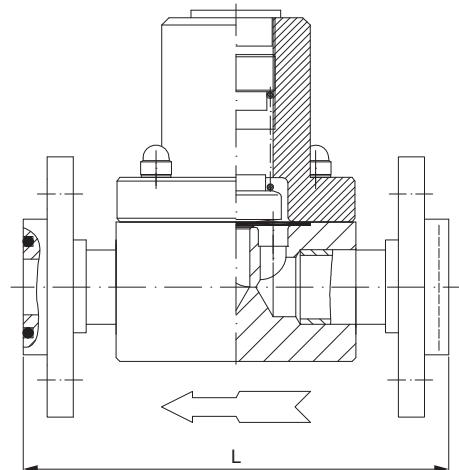
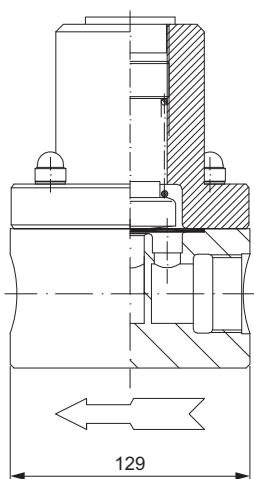


Fig. 7 Dimensions PP, PVC, PVDF, with flange



TM04 8331 0511

Fig. 8 Dimensions SS, no flange

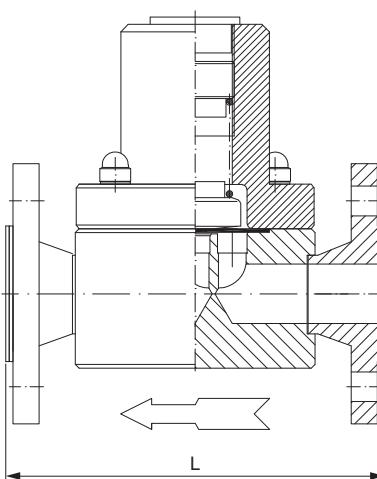


Fig. 9 Dimensions SS, with flange

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TM04 8332 0511

### 3.6 Pressure loading valves DN 50 and DN 65

#### 3.6.1 Technical data

Opening pressure [bar]	Nominal width [mm]	Housing	Gasket	L [mm]	Connection	Product number	Drawing
2.2	50	PP	Viton	250	flange DN 50	96727376	
1.5	65	PVC	Viton	271	flange DN 65	96638486	
1.5	65	PVC	EPDM	271	flange DN 65	96635246	Fig. 10
1.5	65	PP	Viton	324	flange DN 65	96727367	
1.5	65	SS*	PVC, soft	280	flange DN 65	96694434	Fig. 11

\* Stainless steel 1.4571, according to EN 10027-2

#### 3.6.2 Dimensional drawings

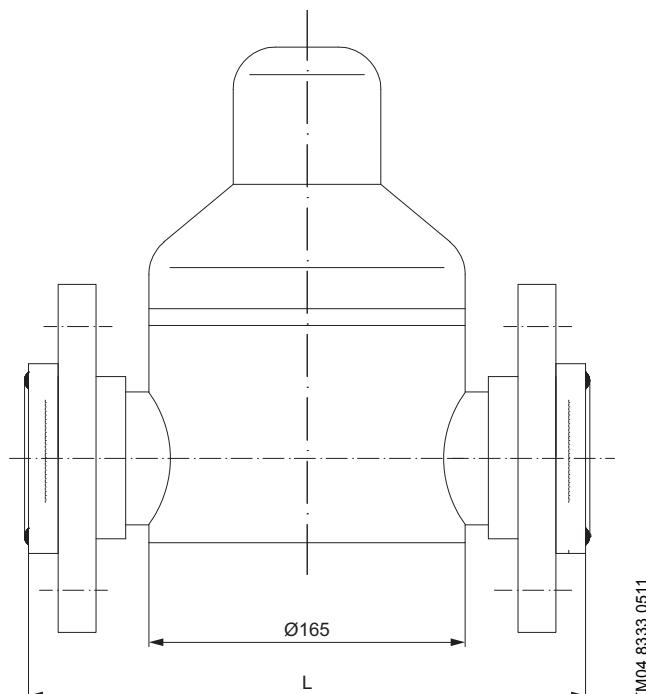


Fig. 10 Dimensions PP, PVC

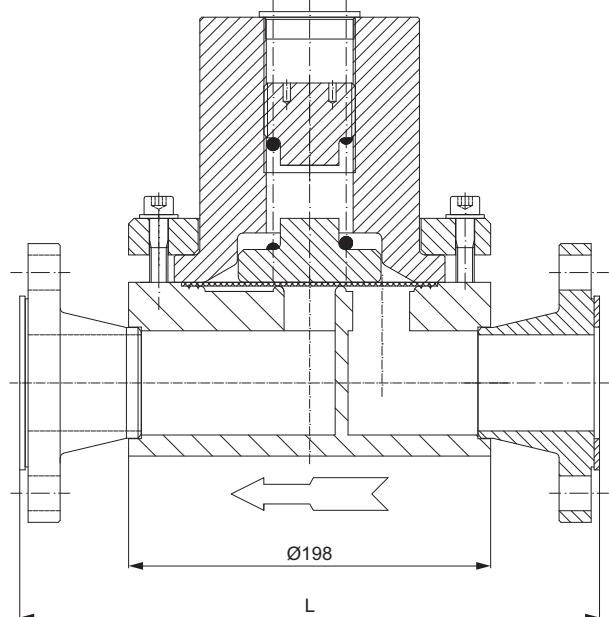
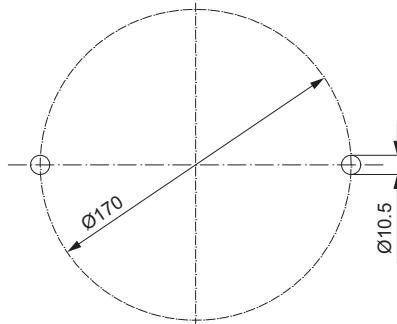


Fig. 11 Dimensions SS

## 4. Installation



**Warning**

The valve must only be installed by authorised and qualified 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!

**Caution**

When using a pressure loading valve in conjunction with a pulsation damper, the pressure loading valve must be installed behind the pulsation damper.

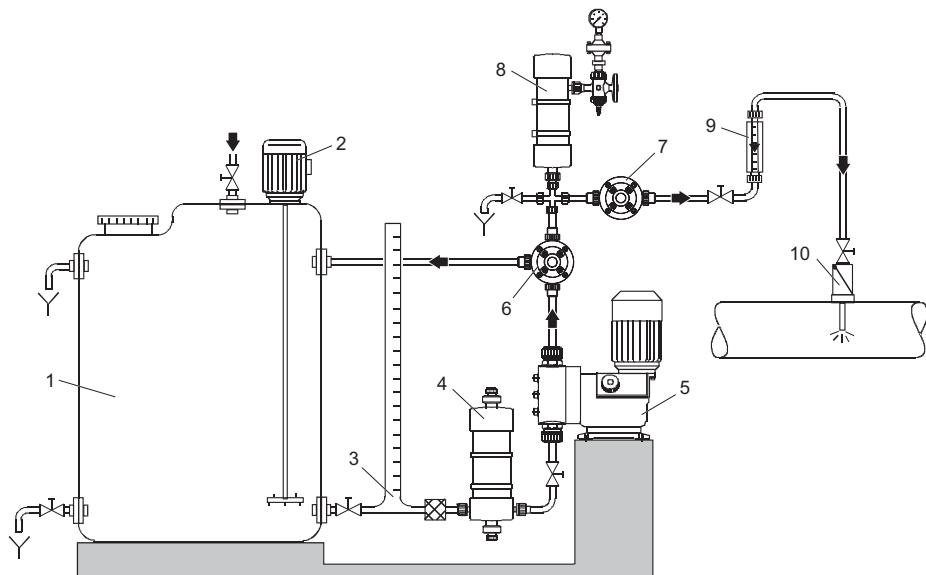
**Caution**

When using a pressure loading valve in conjunction with a pressure relief valve, the pressure loading valve must be installed behind the pressure relief valve.

**Note**

The pressure loading valve should be installed directly in front of the injection unit. For installation directly on the pump, the line connected to the injection unit should be as short as possible.

### 4.1 Optimal installation



TM04 8335 0511

Fig. 12 Optimal installation

### 4.2 Connections

The pressure loading valves have an inlet and an outlet (see arrow on housing). They are installed in the discharge line. Pressure loading valves can also be mounted directly on the discharge valve of the dosing pump with an optional adapter.



**Warning**

Observe the flow direction (indicated by an arrow on the valve housing).

#### 4.2.1 Installation in the discharge line

1. Connect the discharge line from the discharge valve of the dosing pump to the inlet of the valve.
2. Connect the outgoing discharge line to the outlet of the valve.
3. Re-tighten screws on top part of valve after 48 operating hours. Max. torque:

Up to 60 l/h	DN 20, DN 32	DN 50, DN 65
2 Nm	5 Nm	5 Nm

#### 4.2.2 Installation directly on the pump

**Note**

A special adapter is needed, see 8.1 Adapter for installation directly on the pump (up to 60 l/h).

1. Remove connection 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 discharge valve of the pump.
4. Connect the outgoing discharge line to the outlet of the valve.
5. Re-tighten screws on top part of valve after 48 operating hours. Max. torque:

Up to 60 l/h	DN 20, DN 32	DN 50, DN 65
2 Nm	5 Nm	5 Nm

## 5. Settings



### Warning

**Settings on the valve must only be carried out by authorized personnel!**

The opening pressure can only be set, if a pressure gauge is installed in the system between the pump and the pressure loading valve.

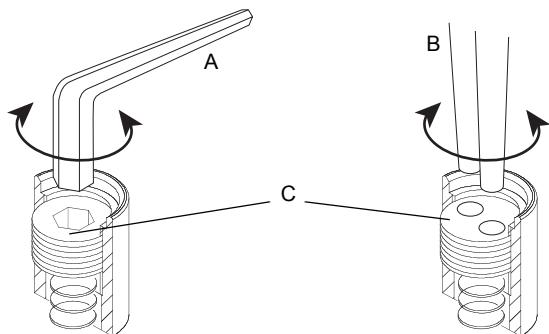
The opening pressure of the valve is set in the factory to the value specified in the technical data. During operation, the opening pressure depends on various factors, e.g. the flow, the stroke frequency of the pump, or the counterpressure. If a more precise setting is required, the valve must be adapted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

### 5.1 Setting the opening pressure



### Warning

**Danger of injury! Never set the opening pressure higher than the maximum permissible operating pressure of dosing system and dosing pump!**



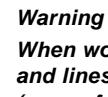
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**Fig. 13** Setting the opening pressure

While the pump is running:

1. Remove the protective cap from the top part of the valve.
2. Read the current opening pressure on the pressure gauge installed in front of the pressure loading valve.
3. For valves up to 60 l/h use a hexagon wrench (A), for DN 20 to DN 65 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.

## 6. Maintenance



### 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!**

### 6.1 Intervals for cleaning and maintenance

- At least every 12 months or after 8000 operating hours
- If faults occur.

Clean the valve, and replace the diaphragm and O-rings, if necessary.

### 6.2 Replacing the diaphragm

For spare parts see section 8. Spare parts and accessories.

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

Up to 60 l/h	DN 20, DN 32	DN 50, DN 65
2 Nm	5 Nm	5 Nm

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

Up to 60 l/h	DN 20, DN 32	DN 50, DN 65
2 Nm	5 Nm	5 Nm

## 7. Fault finding

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

## 8. Spare parts and accessories

### 8.1 Adapter for installation directly on the pump (up to 60 l/h)

Connections	Housing	Product number	Description
G 5/8 - G 5/8	PVC	95730437	PVC nut G 5/8 - nut G 5/8
	PP	95730438	PP nut G 5/8 - nut G 5/8
	PVDF	95730439	PVDF nut G 5/8 - nut G 5/8
G 5/8 - 1/4"	SS*	96693273	SS nut G 5/8 - 1/4"

\* Stainless steel 1.4571, according to EN 10027-2

### 8.2 Spare parts for pressure loading valves up to 60 l/h

Description	Suitable for housing materials	Product number
Diaphragm	all	91834367
Pressure spring	all	91834370
Adjusting screw	all	96679604
Kit, gaskets 2 pcs - G 5/8 V/E	PVC, PP, PVDF	95731456
Kit, gaskets 2 pcs - G 5/8 T	PVC, PP, PVDF	95731457

### 8.3 Set of counter flanges for pressure loading valves DN 32 and DN 65

Size	Material	Product number	Description
DN 32	SS*	91835727	
DN 32	PVC	91835728	
DN 32	PVDF	96727588	Includes lapped flange, headed bush, screws, washers, nuts
DN 65	PVC	96727602	
DN 65	PP	96727603	
DN 32	PP	96727589	Includes welding neck flange, flat gasket, screws, washers, nuts
DN 65	SS*	96727604	Includes welding neck flange, screws, washers, nuts

\* Stainless steel 1.4571, according to EN 10027-2

#### 8.4 Spare parts for pressure loading valves > 60 l/h

Pressure loading valve	Size	Diaphragm	O-rings	Quantity	Pressure spring	Adjusting screw
96376567			91835574			
96295906			91835574			
96693603			91835575			
96295905			91835575			
96727369			91835576			
96693704	DN 20	91834368	91835574	2	91834371	91834083
96295904			91835574			
96727370			91835575			
96295903			91835575			
96618727			91835576			
96295907			-	-		
91835674			91835574	2		
96695919			96688232			
96295909			96688232			
96727371			96688248			
96295908			96688248			
96295911			96688221	2		
96295910	DN 32	91834369	96688263		91834086	96679389
96695695			96688232			
96695696			96688248			
96295912			-	-		
96652055			-	-		
96692234			96688277	2		
96638486			96688247			
96635246	DN 65	-	96688246	2	-	-
96727367			96688247			
96694434		96707093	96728858	1	96707230	

#### 9. 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.





**Argentina**

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Thinking ahead makes it possible  
Innovation is the essence

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