

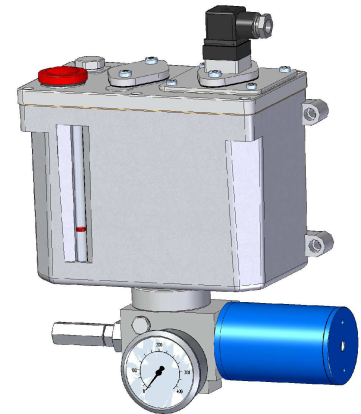
## Pneumatically operated piston pumps for grease and oil



**PN11**



**BPN58**



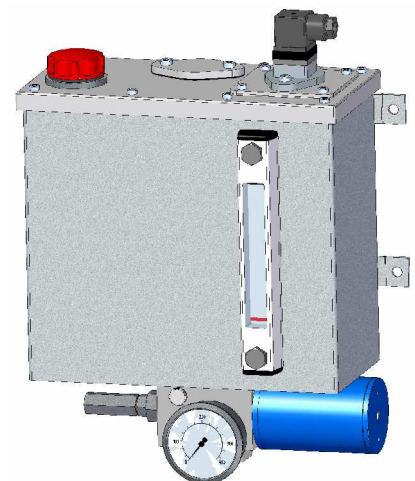
**BPN62**



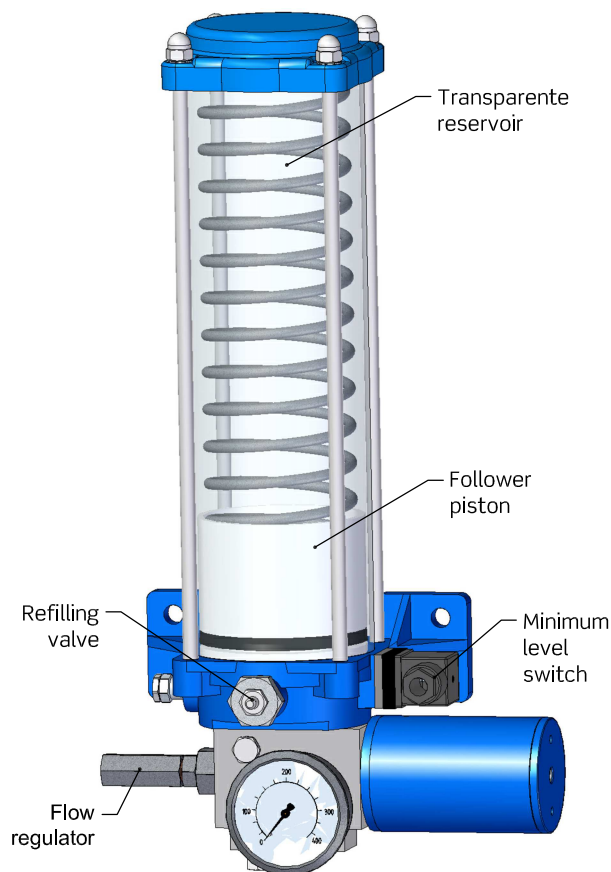
**BPN22**



**BPN53**



**BPN63**



## Pneumatically operated piston pump for GREASE PN11/B-1

214.200.000

- Pressurized tank with cover and base in nylon, and reservoir in methacrylate
- Maximum grease NLGI 2
- Max. pressure 200/350 bar, according model
- Minimum level switch
- Tank filling by the bottom

### Application

As a doser pump, preferably for the feeding in centralized greasing settings with progressive distributors.

### Description

The unit consists of a single effect pneumatic pump, instaled at the bottom of a reservoir where a spring makes pressure to the follower piston, pressurizing the grease and guaranteeing a perfect pumping.

### Technical data

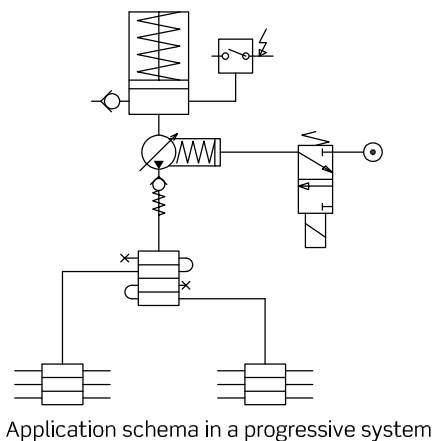
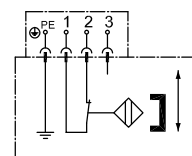
Flow.....fixed..... 2cm<sup>3</sup>/stroke  
.....variable..... 0,5 ÷ 2cm<sup>3</sup>/stroke  
Operation air pressure..... 4 ÷ 7 bar

	Ratio	Maximum pressure	Pump body
Model A.....	1/30	150 bar	aluminium
Model B.....	1/50	350 bar	steel

Number of cycles/minute..... 4 / minute  
Lubricant..... maximum grease NLGI2  
Tank capacity..... 0,5 kg-1,5 kg  
Assembly position.....vertical / horizontal  
Working temperature..... -20°C...+80°C

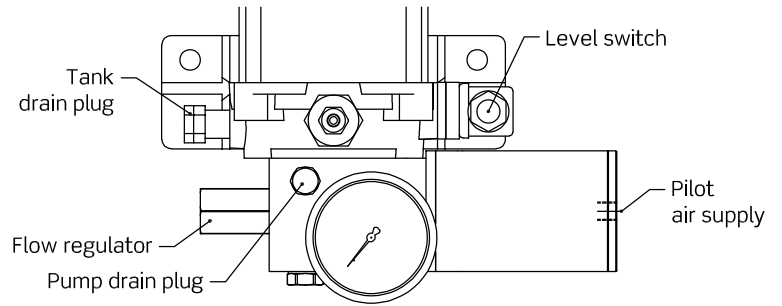
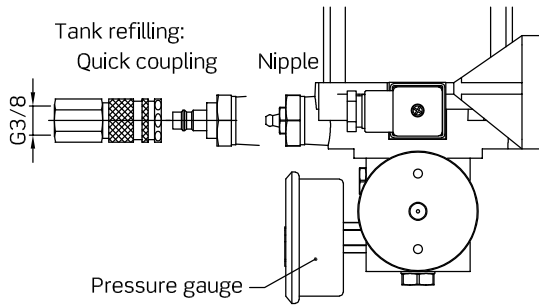
### Level switch:

- contact.....see schema
- connector.....DIN EN 175301-803 (consult others)
- max switching voltage.....100 VDC
- max switching consumption.....0,25 A
- max switching power.....8W(7)....3W(7)



PN11 / B - 1 / X X X X - X X X													
Tank capacity	X	Level switch	X	Level switch connector	X	Tank refilling	X	Pump size	X	Flow cm <sup>3</sup> /emb	X	Pressure gauge	X
0,5 kg	5	Without	0	Without	0	Nipple	1	Ratio 1:30 max. 150 bar	A	2	3	Without	0
1,5 kg	6	Minimum level	5	Standard (DIN) others consult	1	Quick coupling	2	Ratio 1:50 max. 350 bar	B	0,5...2	5	With	5

### Pump start-up



#### Tank filling

- 1-Fill the tank
- 2-Remove the drain plug indicated in the figure, until the lubricant comes out uniformly, without air bubbles
- 3-Mount the drain plug

#### Draining the pump

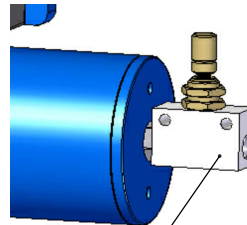
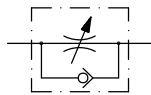
- 1-Operate the pump
- 2-Remove the drain plug
- 3-Operate the pump until the lubricant comes out uniformly, without air bubbles.
- 4-Mount the drain plug

#### Flow regulation

- Only with adjustable flow model
- 1-Remove the protective cap and regulate the screw of the flow controller
  - 2-Mount again the protective cap

In its application with progressive distributors of small volume that incorporate monitoring system, the blow of flow coming from the pump can hinder the correct operation of this monitoring device.

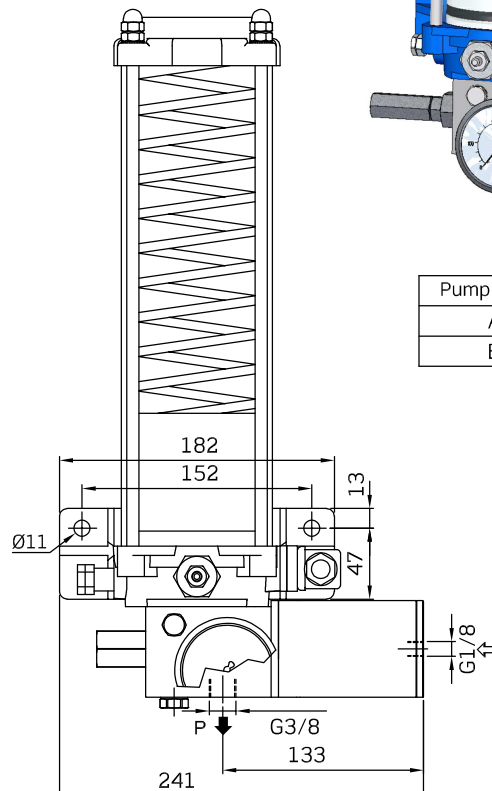
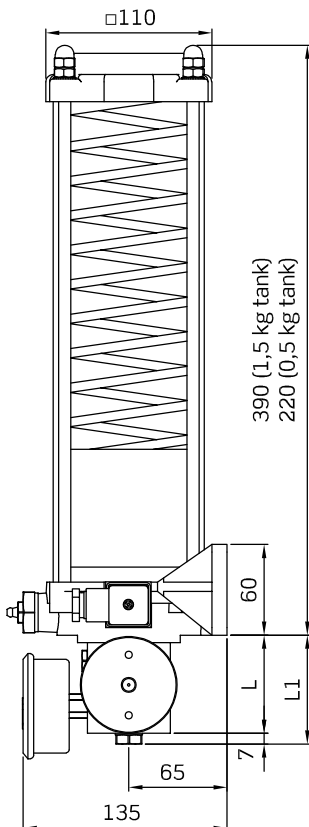
In these cases it is convenient to slow down the moving speed of the pneumatic piston by mounting a regulating valve to its inlet.



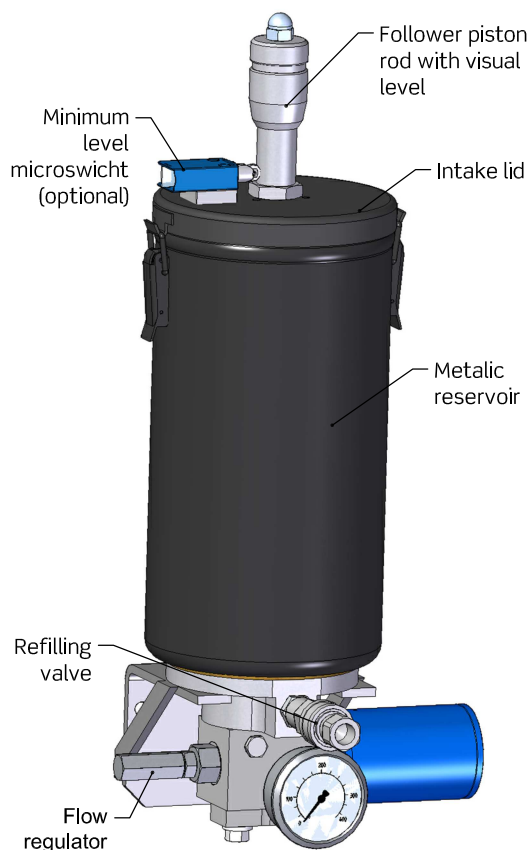
Air flow regulating valve, code 928404051



### Dimensions



Pump model	L	L1
A	65	72
B	77	85



## Pneumatically operated piston pump for GREASE

**BPN58**  
214.660.000

- 5 kg metal tank
- Maximum grease NLGI 2
- Max. pressure 200/350 bar, according model
- Minimum level switch (optional)
- Tank filling by the bottom
- Movable follower piston

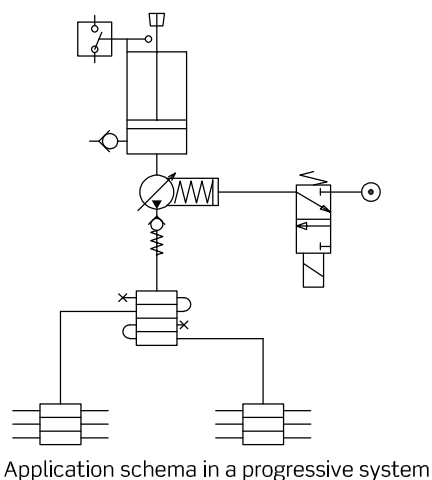
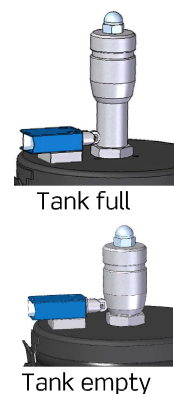
### Application

As a doser pump, preferably for the feeding in centralized greasing settings with progressive distributors.

### Description

The unit consists of a single effect pneumatic pump, instaled at the bottom of a 5 kg reservoir, made in DD14 steel and painted by cataphoresis, with lid and follower piston.

The rod of the follower piston allows a visual control of the maximum and minimum lubricant level, as shown in next figures.



### Technical data

Flow.....fixed..... 2cm3/stroke  
.....variable..... 0,5 ÷ 2cm3/stroke  
Operation air pressure..... 4 ÷ 7 bar

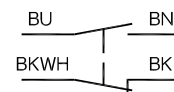
	Ratio	Maximum pressure	Pump body
Model A.....	1/30	150 bar	aluminium
Model B.....	1/50	350 bar	steel

Number of cycles/minute..... 4 / minute  
Lubricant..... maximum grease NLGI2  
Assembly position..... preferably vertical  
Working temperature..... -20°C...+80°C

Optionally a micro activated by a stop can be mounted on the rod for monitoring the minimum level

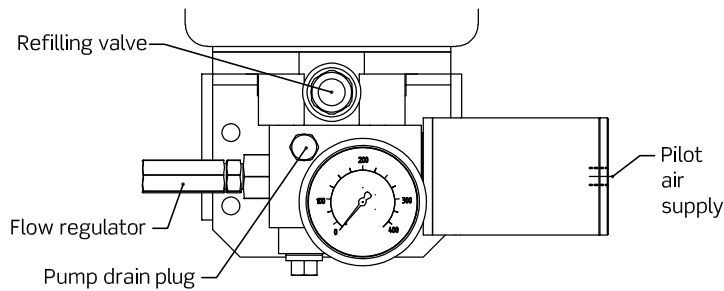
### Technical data:

Protection degree..... IP 66  
Category of use..... AC-15  
1,5A 240V - Ui:400V / Uimp:4kV



BPN58 / A - 5 / X X - X X - X X X													
Tank capacity	X	Bottom filling valve	X	Level switch	X	Connection	X	Pump size	X	Flow cm3/emb	X	Pressure gauge	X
5 kg	5	Without	0	Without	0	Without	0	Ratio 1:30 max. 150 bar	A	2	3	Without	0
		With	5	Minimum level	5	Cable 1 m	1	Ratio 1:50 max. 350 bar	B	0,5...2	5	With	5

### Pump start-up



### Filling the tank

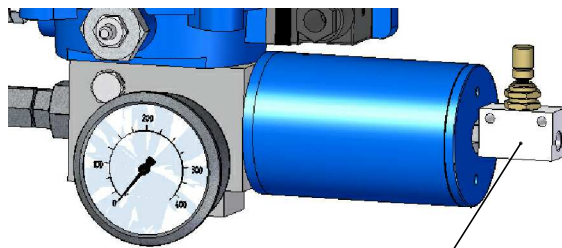
- 1-By means the bottom filling valve
- 2-Don't activate the pump, remove the pump drain plug and wait until the lubricant comes out uniformly, without air bubbles.
- 3-Mount the pump drain plug

### Draining the pump

- 1-Operate the pump
- 2-Remove the drain plug
- 3-Operate the pump until the lubricant comes out uniformly, without air bubbles.
- 4-Mount the drain plug

### Flow regulation

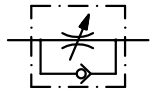
- Only with adjustable flow model
- 1-Remove the protective cap and regulate the screw of the flow controller
  - 2-Mount again the protective cap



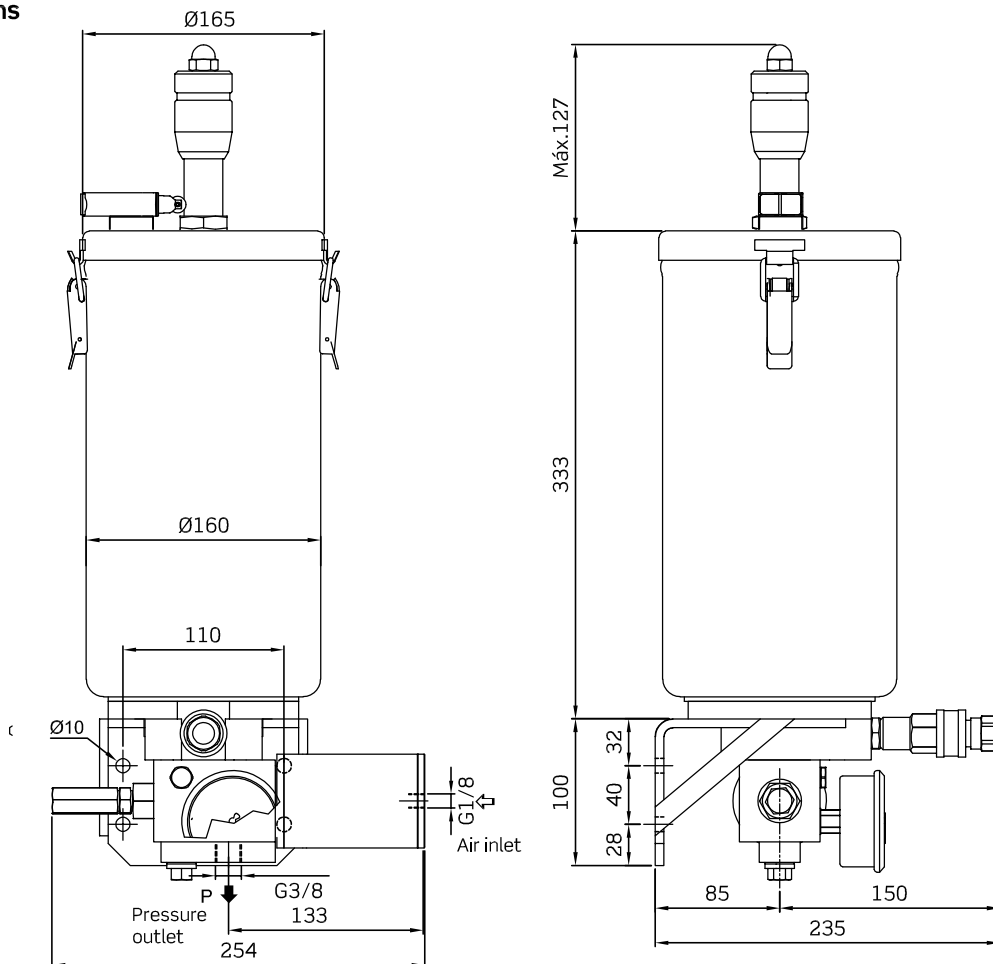
Air flow regulating valve, code 928404051

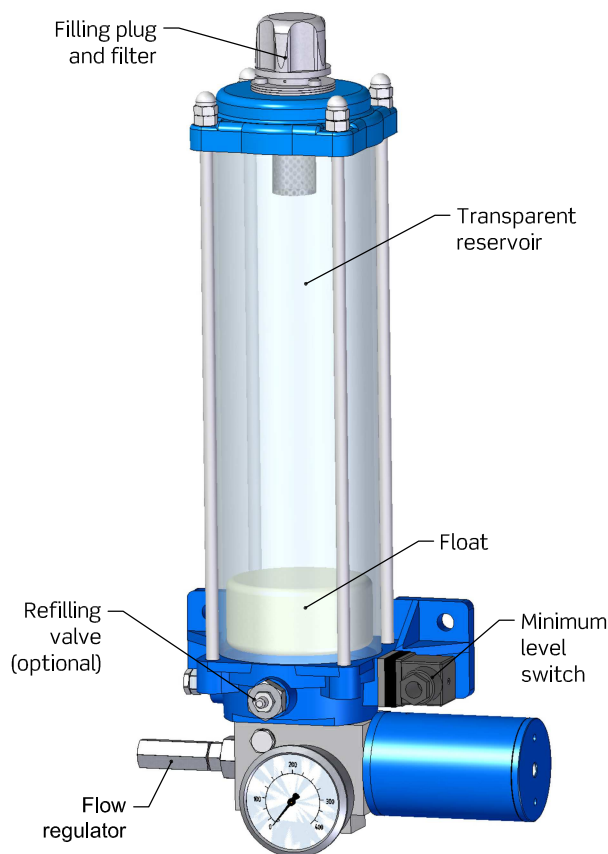
In its application with progressive distributors of small volume that incorporate monitoring system, the blow of flow coming from the pump can hinder the correct operation of this monitoring device.

In these cases it is convenient to slow down the moving speed of the pneumatic piston by mounting a regulating valve to its inlet.



### Dimensions





## Pneumatically operated piston pump for OIL

**BPN22**  
214.220.000

- Tank with cover and base in nylon, and reservoir in methacrylate
- Lubricant from 32 cSt up to 1500 cSt
- Max. pressure 200/350 bar, according model
- Minimum level switch
- Tank filling by plug and filter

### Application

As a doser pump, preferably for the feeding in centralized greasing settings with progressive distributors.

### Description

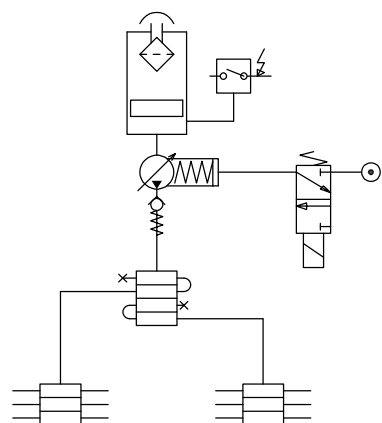
The unit consists of a single effect pneumatic pump, mounted at the bottom of a tank from where is fed by gravity

### Technical data

Flow.....fixed..... 2cm<sup>3</sup>/stroke  
.....variable..... 0,5 ÷ 2cm<sup>3</sup>/stroke  
Operation air pressure..... 4 ÷ 7 bar

	Ratio	Maximum pressure	Pump body
Model A.....	1/30	150 bar	aluminium
Model B.....	1/50	350 bar	steel

Number of cycles/minute..... 4 / minute  
Lubricant..... oil from 32 cSt up to 1500 cSt  
Tank capacity..... 0,5 litres-1,5 litres  
Assembly position..... vertical  
Working temperature..... +5°C...+60°C

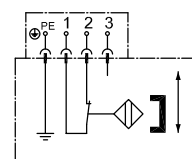


Application schema in a progressive system

### Level switch:

-contact.....see schema  
-connector.....DIN EN 175301-803  
(consult others)

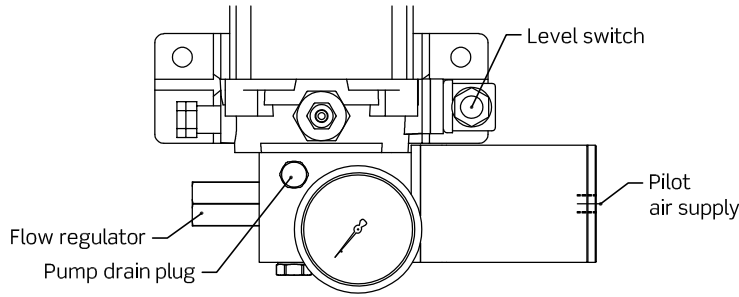
-max switching voltage.....100 VDC  
-max switching consumption.....0,25 A  
-max switching power.....8W( )...3W( )



BPN22 / A - 5 / X X - X X - X X X

Tank capacity	X	Tank refilling	X	Level switch	X	Level switch connector	X	Pump size	X	Flow cm <sup>3</sup> /emb	X	Pressure gauge	X
0,5 litres	5	Plug and filter	1	Without	0	Without	0	Ratio 1:30 max. 150 bar	A	2	3	Without	0
1,5 litres	6	Nipple	2	Minimum level	5	Standard (DIN) others consult	1	Ratio 1:50 max. 350 bar	B	0,5...2	5	With	5

### Pump start-up



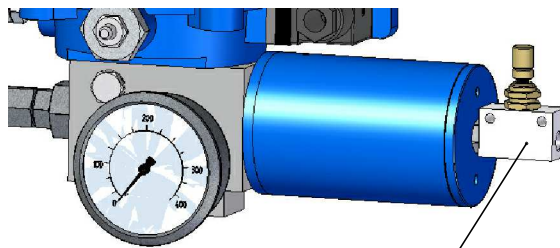
Filling the tank by means of the plug and filter, nipple or quick connector

#### Draining the pump

- 1-Operate the pump
- 2-Remove the drain plug
- 3-Operate the pump until the lubricant comes out uniformly, without air bubbles.
- 4-Mount the drain plug

#### Flow regulation

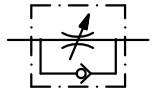
- Only with adjustable flow model
- 1-Remove the protective cap and regulate the screw of the flow controller
  - 2-Mount again the protective cap



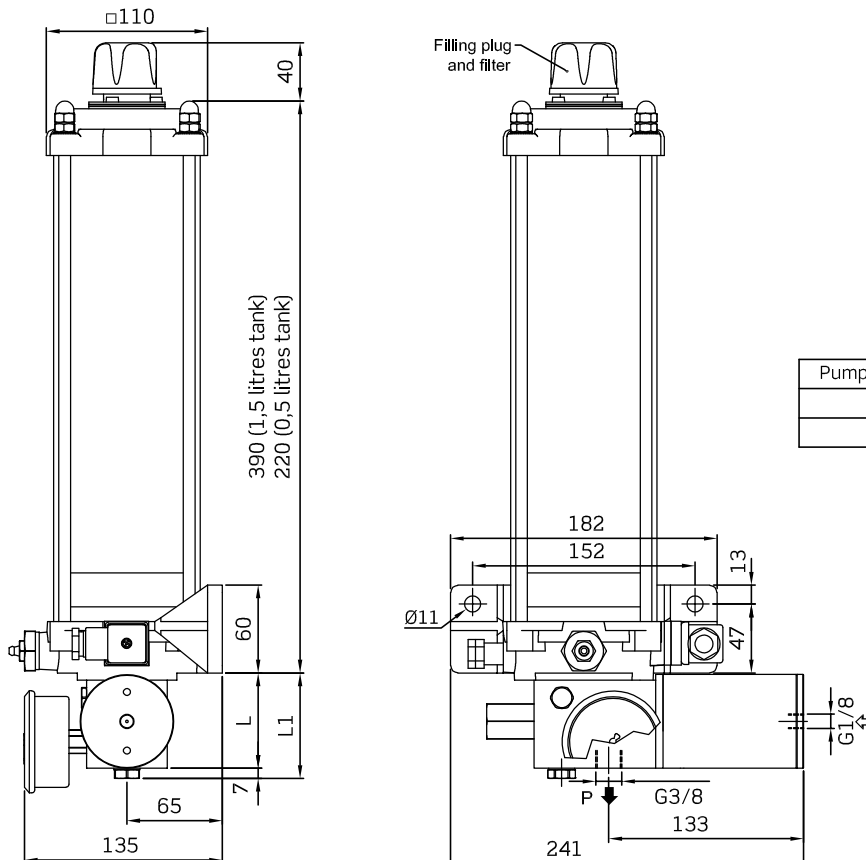
Air flow regulating valve, code 928404051

In its application with progressive distributors of small volume that incorporate monitoring system, the blow of flow coming from the pump can hinder the correct operation of this monitoring device.

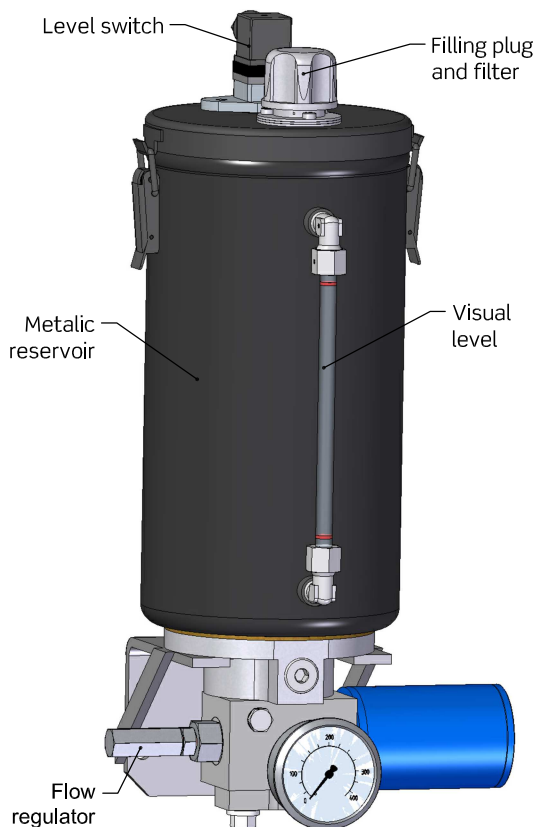
In these cases it is convenient to slow down the moving speed of the pneumatic piston by mounting a regulating valve to its inlet.



### Dimensions



Pump model	L	L1
A	65	72
B	77	85



## Pneumatically operated piston pump for OIL

**BPN53**  
214.550.000

- 5 litres metallic tank
- Lubricant from 32 cSt up to 1500 cSt
- Max. pressure 200/350 bar, according model
- Minimum level switch
- Visual level
- Tank filling by plug and filter

### Application

As a doser pump, preferably for the feeding in centralized greasing settings with progressive distributors.

### Description

The unit consists of a single effect pneumatic pump, installed at the bottom of a 5 litres reservoir, made in DD14 steel and painted by cataphoresis, from where is feeded by gravity

### Technical data

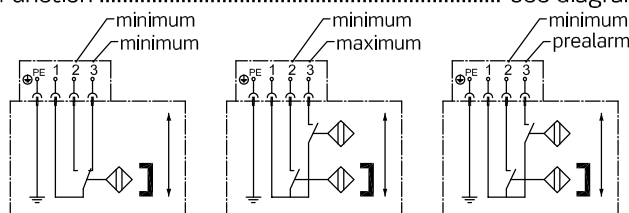
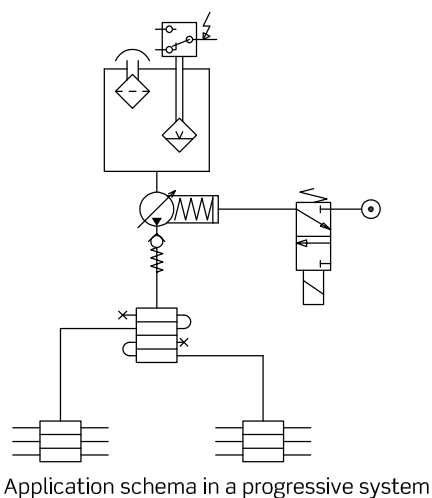
Flow.....fixed..... 2cm<sup>3</sup>/stroke  
.....variable..... 0,5 ÷ 2cm<sup>3</sup>/stroke  
Operation air pressure..... 4 ÷ 7 bar

	Ratio	Maximum pressure	Pump body
Model A.....	1/30	150 bar	aluminium
Model B.....	1/50	350 bar	steel

Number of cycles/minute..... 4 / minute  
Lubricant..... oil from 32 cSt up to 1500 cSt  
Assembly position..... vertical  
Working temperature..... +5°C...+60°C

### Electric level switch

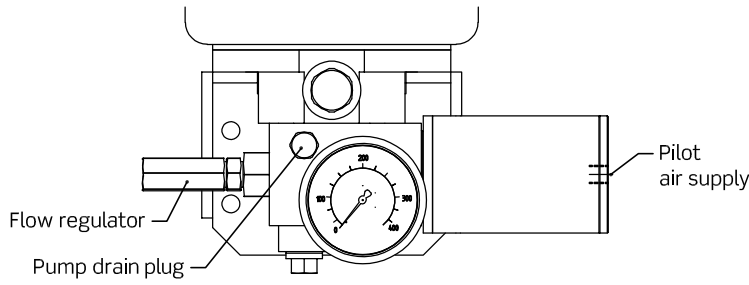
Type of contact ..... Reed  
Maximum switching voltage..... 230 VUC  
Maximum switching consumption..... max. 0,5 A  
Power breakdown ..... max. 30 W  
Connector..... DIN EN 175301-803  
Function ..... see diagram



BPN53 / A - 5 / X X X - X X - X X X															
Tank capacity	X	Return	X	Tank refilling	X	Level switch	X	Level sw. connector	X	Pump size	X	Flow cm <sup>3</sup> /emb	X	Pressure gauge	X
5 litres	5	Without	0	Plug and filter at upper lid	1	Without	0	Without	0	Ratio 1:30 max. 150 bar	A	2	3	Without	0
						Minimum level	5	Standard (DIN) others consult	1	Ratio 1:50 max. 350 bar	B	0,5...2	5	With	5
						Minimum+prealarm	7								



### Pump start-up



Filling the tank by means of the plug and filter

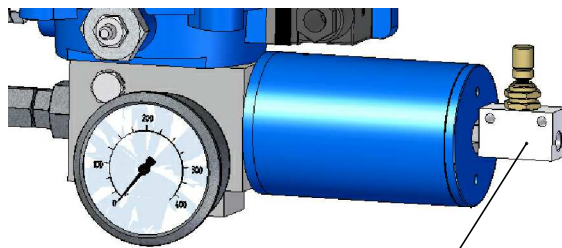
Draining the pump

- 1-Operate the pump
- 2-Remove the drain plug
- 3-Operate the pump until the lubricant comes out uniformly, without air bubbles.
- 4-Mount the drain plug

Flow regulation

Only with adjustable flow model

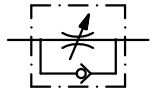
- 1-Remove the protective cap and regulate the screw of the flow controller
- 2-Mount again the protective cap



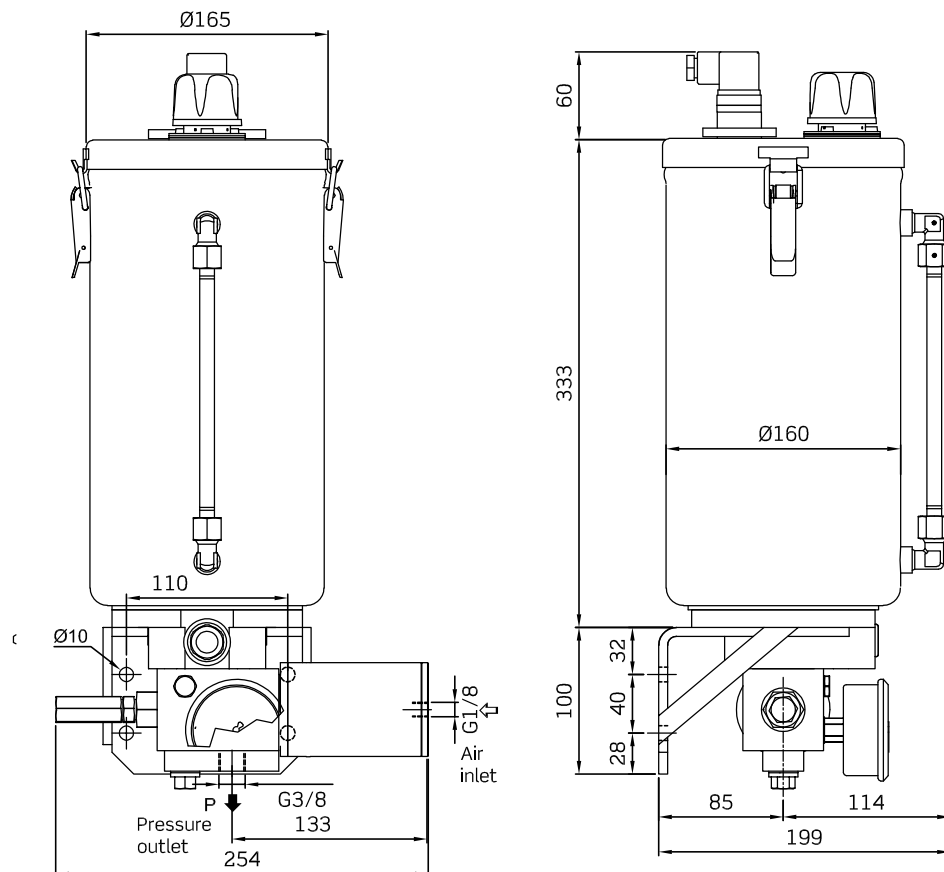
Air flow regulating valve, code 928404051

In its application with progressive distributors of small volume that incorporate monitoring system, the blow of flow coming from the pump can hinder the correct operation of this monitoring device.

In these cases it is convenient to slow down the moving speed of the pneumatic piston by mounting a regulating valve to its inlet.

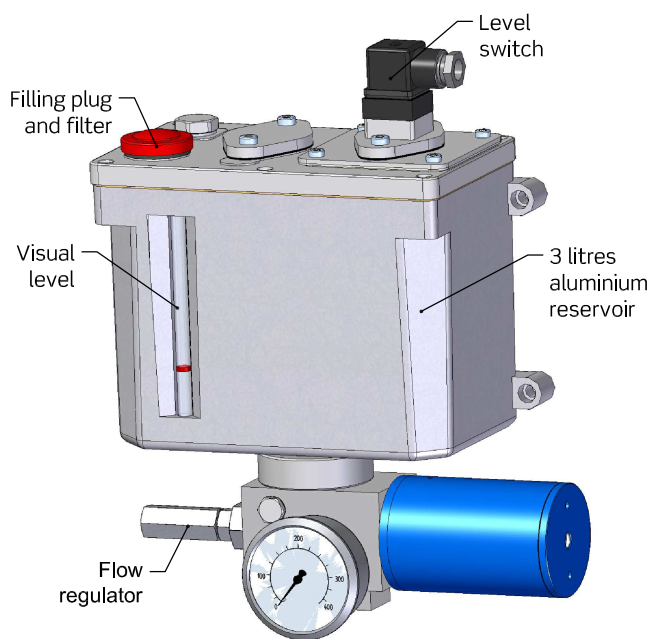


### Dimensions



## Pneumatically operated piston pump for OIL

**BPN62**  
214.400.000



- 3 litres aluminium tank
- Lubricant from 32 cSt up to 1500 cSt
- Max. pressure 200/350 bar, according model
- Minimum level switch
- Visual level
- Internal filter for feeding the pump
- Tank filling by plug and filter

### Application

As a doser pump, preferably for the feeding in centralized greasing settings with progressive distributors.

### Description

The unit consists of a single effect pneumatic pump, installed at the bottom of a 3 litres aluminium tank, from where is feeded by gravity

### Technical data

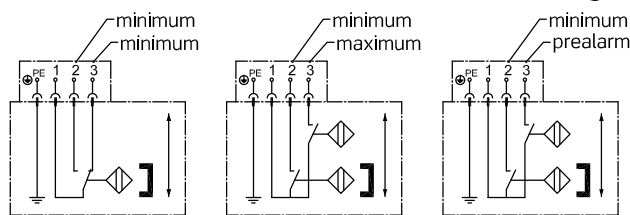
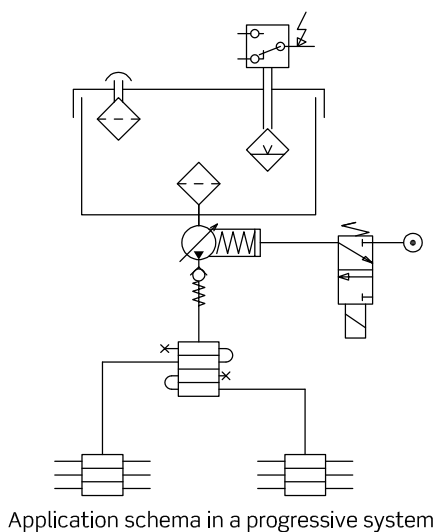
Flow.....fixed..... 2cm<sup>3</sup>/stroke  
.....variable..... 0,5 ÷ 2cm<sup>3</sup>/stroke  
Operation air pressure..... 4 ÷ 7 bar

	Ratio	Maximum pressure	Pump body
Model A.....	1/30	150 bar	aluminium
Model B.....	1/50	350 bar	steel

Number of cycles/minute..... 4 / minute  
Lubricant..... oil from 32 cSt up to 1500 cSt  
Assembly position..... vertical  
Working temperature..... +5°C...+60°C

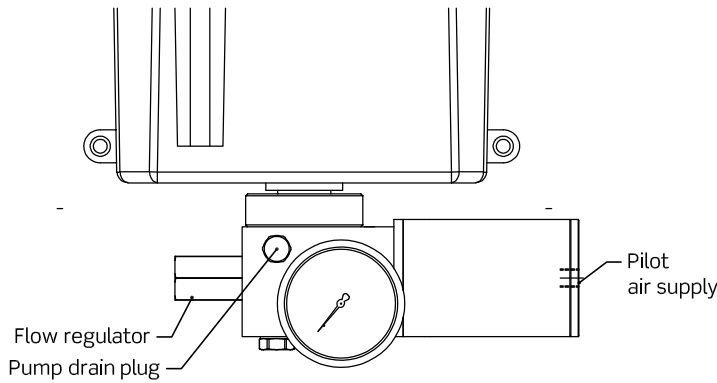
### Electric level switch

Type of contact ..... Reed  
Maximum switching voltage..... 230 VUC  
Maximum switching consumption..... max. 0,5 A  
Power breakdown ..... max. 30 W  
Connector..... DIN EN 175301-803  
Function ..... see diagram



Tank capacity		Tank refilling		Level switch		Level sw. connector		Pump size		Flow cm <sup>3</sup> /emb		Pressure gauge	
X		X		X		X		X		X		X	
3 litres	3	Plug and filter at upper lid	1	Without	0	Without	0	Ratio 1:30 max. 150 bar	A	2	3	Without	0
				Minimum level	5	Standard (DIN) others consult	1	Ratio 1:50 max. 350 bar	B	0,5...2	5	With	5
				Maximum-minimum	6								
				Minimum+prealarm	7								

### Pump start-up



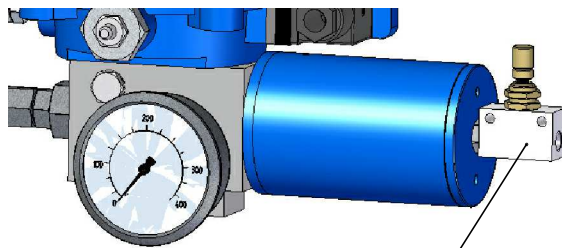
Filling the tank by means of the plug and filter

Draining the pump

- 1-Operate the pump
- 2-Remove the drain plug
- 3-Operate the pump until the lubricant comes out uniformly, without air bubbles.
- 4-Mount the drain plug

Flow regulation

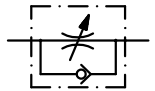
- Only with adjustable flow model
- 1-Remove the protective cap and regulate the screw of the flow controller
  - 2-Mount again the protective cap



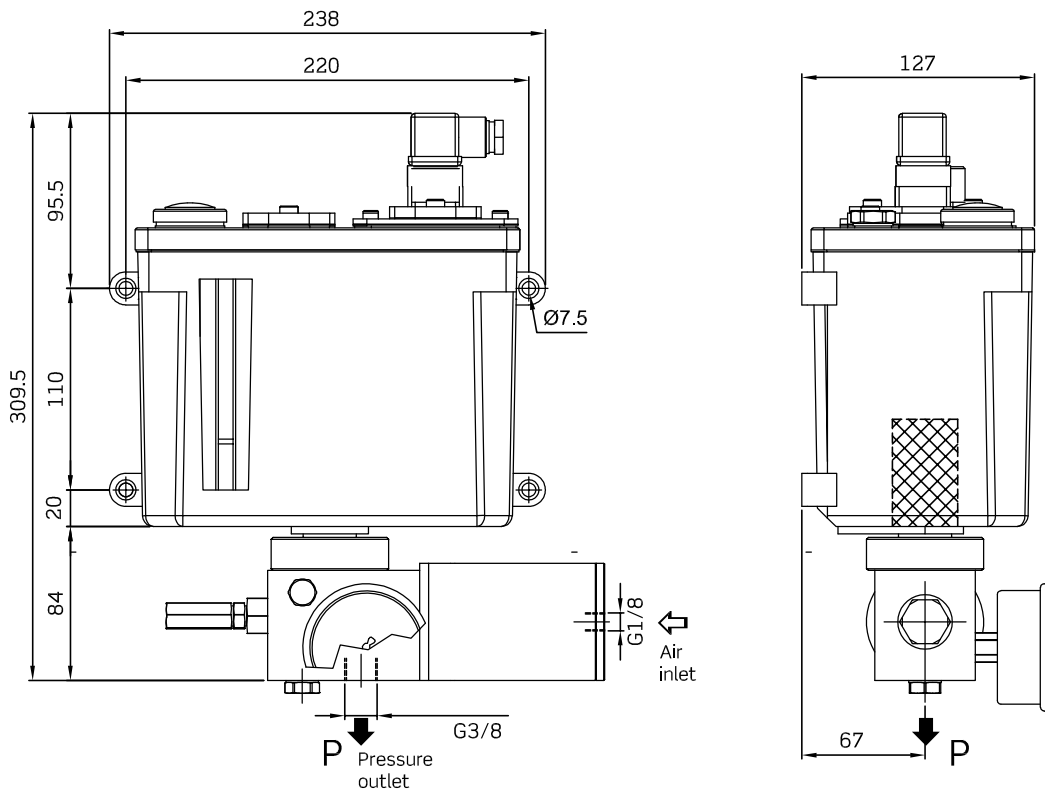
Air flow regulating valve, code 928404051

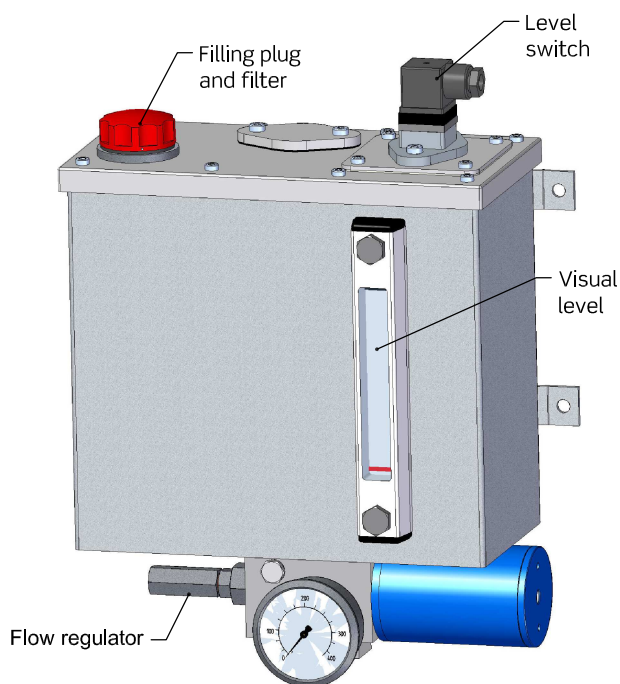
In its application with progressive distributors of small volume that incorporate monitoring system, the blow of flow coming from the pump can hinder the correct operation of this monitoring device.

In these cases it is convenient to slow down the moving speed of the pneumatic piston by mounting a regulating valve to its inlet.



### Dimensions





## Pneumatically operated piston pump for OIL

**BPN63**  
214.300.000

- 3-6-10-16 litres metallic tank
- Lubricant from 32 cSt up to 1500 cSt
- Max. pressure 200/350 bar, according model
- Minimum level switch
- Visual level
- Internal filter for feeding the pump
- Tank filling by plug and filter

### Application

As a doser pump, preferably for the feeding in centralized greasing settings with progressive distributors.

### Description

The unit consists of a single effect pneumatic pump, installed at the bottom of a metallic tank, from where is feeded by gravity

### Technical data

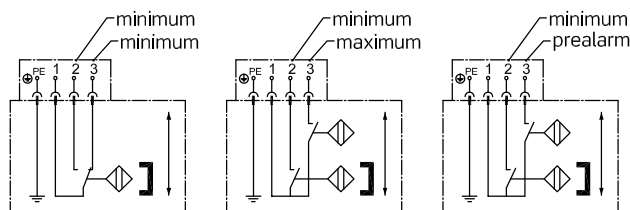
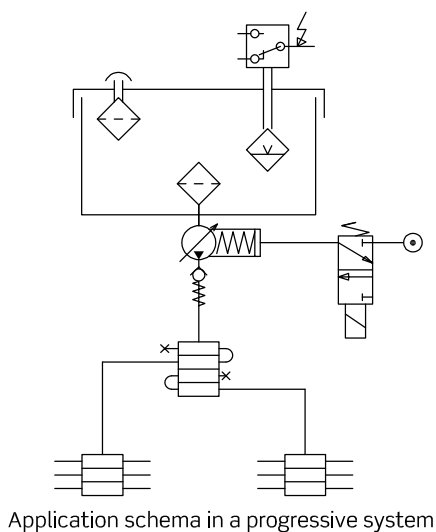
Flow.....fixed..... 2cm<sup>3</sup>/stroke  
.....variable..... 0,5 ÷ 2cm<sup>3</sup>/stroke  
Operation air pressure..... 4 ÷ 7 bar

	Ratio	Maximum pressure	Pump body
Model A.....	1/30	150 bar	aluminium
Model B.....	1/50	350 bar	steel

Number of cycles/minute..... 4 / minute  
Lubricant.....oil from 32 cSt up to 1500 cSt  
Assembly position.....vertical  
Working temperature..... +5°C...+60°C

### Electric level switch

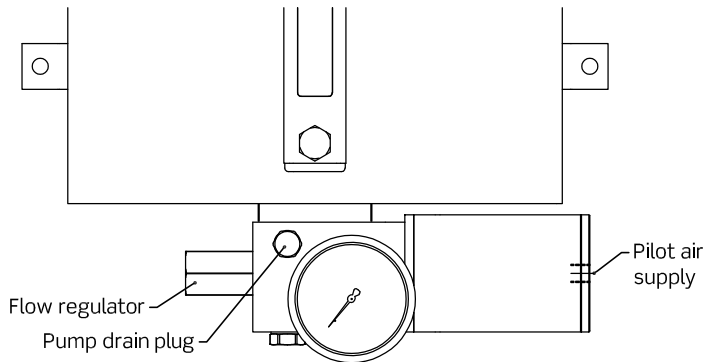
Type of contact .....Reed  
Maximum switching voltage..... 230 VUC  
Maximum switching consumption.....max. 0,5 A  
Power breakdown ..... max. 30 W  
Connector..... DIN EN 175301-803  
Function ..... see diagram



BPN63 / X - 5 / X X - X X - X X X

Tank capacity	X	Tank material	X	Tank refilling	X	Level switch	X	Level sw. connector	X	Pump size	X	Flow cm <sup>3</sup> /emb	X	Pressure gauge	X
3 litres	B	Metal	3	Plug and filter at upper lid	1	Without	0	Without	0	Ratio 1:30 max. 150 bar	A	2	3	Without	0
6 litres	C					Minimum level	5	Standard (DIN) others consult	1					Ratio 1:50 max. 350 bar	B
10 litres	D	AISI 316	7	Maximum-minimum	6	With	5								
16 litres	E			Minimum+prealarm	7	With	5								

### Pump start-up



Filling the tank by means of the plug and filter

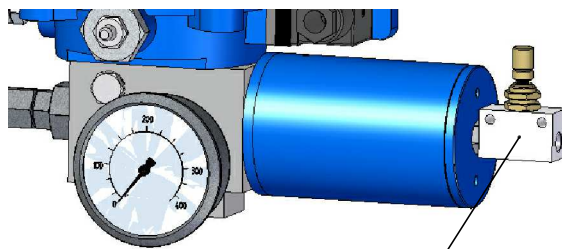
Draining the pump

- 1-Operate the pump
- 2-Remove the drain plug
- 3-Operate the pump until the lubricant comes out uniformly, without air bubbles.
- 4-Mount the drain plug

Flow regulation

Only with adjustable flow model

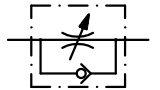
- 1-Remove the protective cap and regulate the screw of the flow controller
- 2-Mount again the protective cap



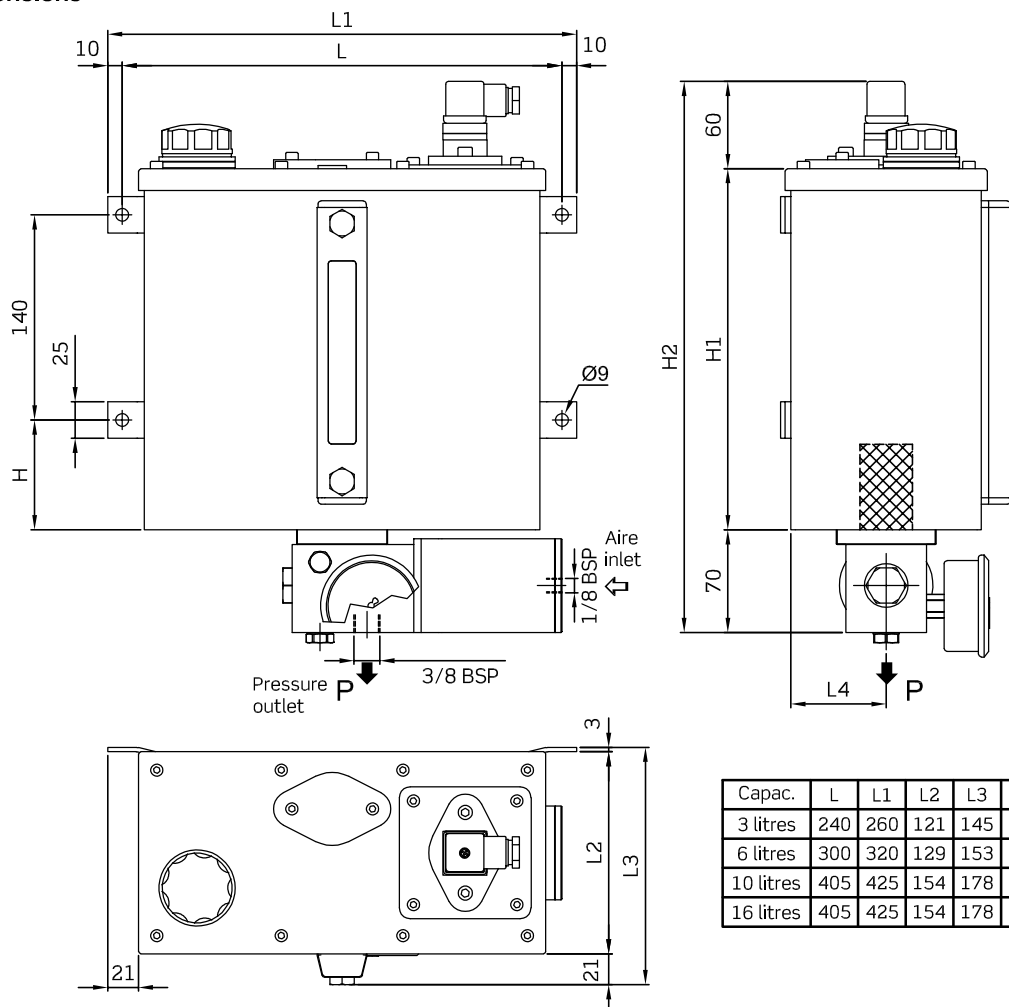
Air flow regulating valve, code 928404051

In its application with progressive distributors of small volume that incorporate monitoring system, the blow of flow coming from the pump can hinder the correct operation of this monitoring device.

In these cases it is convenient to slow down the moving speed of the pneumatic piston by mounting a regulating valve to its inlet.



### Dimensions



Capac.	L	L1	L2	L3	L4	H	H1	H2
3 litres	240	260	121	145	62	45	215	345
6 litres	300	320	129	153	72	75	245	375
10 litres	405	425	154	178	95	75	245	375
16 litres	405	425	154	178	95	155	325	455