

Preparation of compressed air ► Maintenance units and components

## Series NL4

Brochure



Preparation of compressed air ▶ Maintenance units and components

## Series NL4

### Maintenance units



Maintenance unit, 2-part, Series NL4-ACD  
 ▶ G 1/2 - G 3/4 ▶ filter porosity: 5 µm ▶ with pressure gauge ▶ suitable for ATEX

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Maintenance unit, 3-part, Series NL4-ACT  
 ▶ G 1/2 - G 3/4 ▶ filter porosity: 5 µm ▶ with pressure gauge ▶ suitable for ATEX

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### Pressure regulators, air supply on the left



Pressure regulator, Series NL4-RGS  
 ▶ G 1/2 - G 3/4 ▶ Qn= 5600 l/min ▶ suitable for ATEX

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Pressure regulator, Series NL4-RGS  
 ▶ G 1/2 ▶ Qn= 5600 l/min ▶ Activation: mechanical ▶ with continuous pressure supply  
 ▶ suitable for ATEX

16



Pressure regulator, Series NL4-RGS  
 ▶ G 1/2 - G 3/4 ▶ Qn= 5600 l/min ▶ Activation: mechanical ▶ lockable ▶ with key  
 ▶ suitable for ATEX

19



Pressure regulator, Series NL4-RGS  
 ▶ G 1/2 - G 3/4 ▶ Qn= 5600 l/min ▶ Activation: pneumatically ▶ suitable for ATEX

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Precision pressure regulator, Series NL4-RGP  
 ▶ G 1/2 ▶ Qn= 6000 l/min ▶ Activation: mechanical ▶ suitable for ATEX

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Precision pressure regulator, Series NL4-RGP  
 ▶ G 1/2 ▶ Qn= 5600 l/min ▶ Activation: mechanical ▶ with continuous pressure supply  
 ▶ suitable for ATEX

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### Filter pressure regulators, air supply on the left



Filter pressure regulator, Series NL4-FRE  
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### Filling units, air supply on the left



Filling unit, electrically operated, Series NL4-SSU  
 ▶ ATEX optional ▶ G 1/2 ▶ pipe connection ▶ Electr. connection: Plug, ISO 6952, form B

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Filling unit, pneumatically operated, Series NL4-SSU  
 ▶ G 1/2 ▶ pipe connection ▶ suitable for ATEX

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Filling valve, pneumatically operated, Series NL4-SSV  
 ▶ G 1/2 ▶ pipe connection ▶ suitable for ATEX

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 ▶ ATEX optional ▶ G 1/2 ▶ pipe connection ▶ Electr. connection: Plug, ISO 6952, form B

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3/2-directional valve, pneumatically operated, Series NL4-SOV  
 ▶ G 1/2 ▶ pipe connection ▶ suitable for ATEX

72



3/2-shut-off valve, mechanically operated, Series NL4-BAV  
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74

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Distributor, Series NL4-DIL  
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76



Distributor, Series NL4-DIS  
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78



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**Series NL4**

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**Series NL4**

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## Preparation of compressed air ► Maintenance units and components

### Maintenance unit, 2-part, Series NL4-ACD

► G 1/2 - G 3/4 ► filter porosity: 5 µm ► with pressure gauge ► suitable for ATEX



00106920

Version	2-in-1, Can be assembled into blocks
Parts	Filter pressure regulator, Lubricator
Nominal flow Qn	3600 l/min
Mounting orientation	vertical
Working pressure min./max.	2 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 bar / 10 bar
Pressure supply	single
Filter reservoir volume	50 cm³
Filter element	exchangeable
Condensate drain	See table below
Lubricator reservoir volume	125 cm³
Type of filling	Manual oil filling
Oil type	HLP 32 (DIN 51 524 - ISO VG 32) HLP 68 (DIN 51 524 - ISO VG 68)

**Materials:**

Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Filter insert	Polyethylene

#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Suitable for use in Ex zones 1, 2, 21, 22
- Oil dosing at 1000 l/min [drops/min]: 1-2

	Port	Condensate drain	Weight	Note	Part No.
			[kg]		
	G 1/2	semi-automatic, open without pressure	1.73	1)	<b>0821300500</b>
	G 1/2	fully automatic, open without pressure	1.79	1)	<b>0821300503</b>
	G 1/2	semi-automatic, open without pressure	1.91	1); 3)	<b>0821300501</b>
	G 1/2	fully automatic, open without pressure	1.98	1); 3)	<b>0821300504</b>
	G 1/2	semi-automatic, open without pressure	2.34	2)	<b>0821300502</b>
	G 1/2	fully automatic, open without pressure	2.41	2)	<b>0821300505</b>
	G 3/4	semi-automatic, open without pressure	1.73	1)	<b>0821300530</b>
	G 3/4	fully automatic, open without pressure	1.79	1)	0821300533
	G 3/4	semi-automatic, open without pressure	1.91	1); 3)	<b>0821300531</b>
	G 3/4	fully automatic, open without pressure	1.98	1); 3)	0821300534
	G 3/4	semi-automatic, open without pressure	2.34	2)	0821300532
	G 3/4	fully automatic, open without pressure	2.41	2)	<b>0821300535</b>

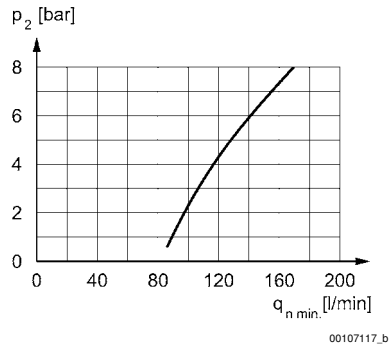
Metal protective guard can be retrofitted for all polycarbonate reservoirs

- 1) Reservoir: Polycarbonate
- 2) Reservoir: Die cast zinc
- 3) Protective guard: Steel

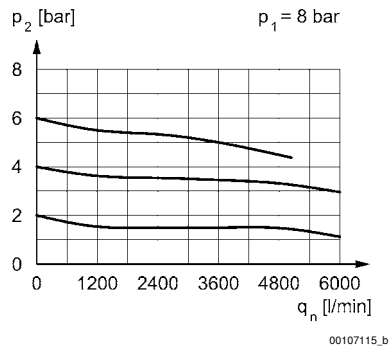
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

**Maintenance unit, 2-part, Series NL4-ACD**

► G 1/2 - G 3/4 ► filter porosity: 5 µm ► with pressure gauge ► suitable for ATEX

**minimum flow rate curve (flow rate necessary for the correct functioning of the lubricator)**


p1 = operating pressure; p2 = secondary pressure; qn = nominal flow; qnmin. = min. nominal flow

**Flow rate characteristic**

 p1 = Working pressure  
 p2 = Secondary pressure  
 qn = Nominal flow

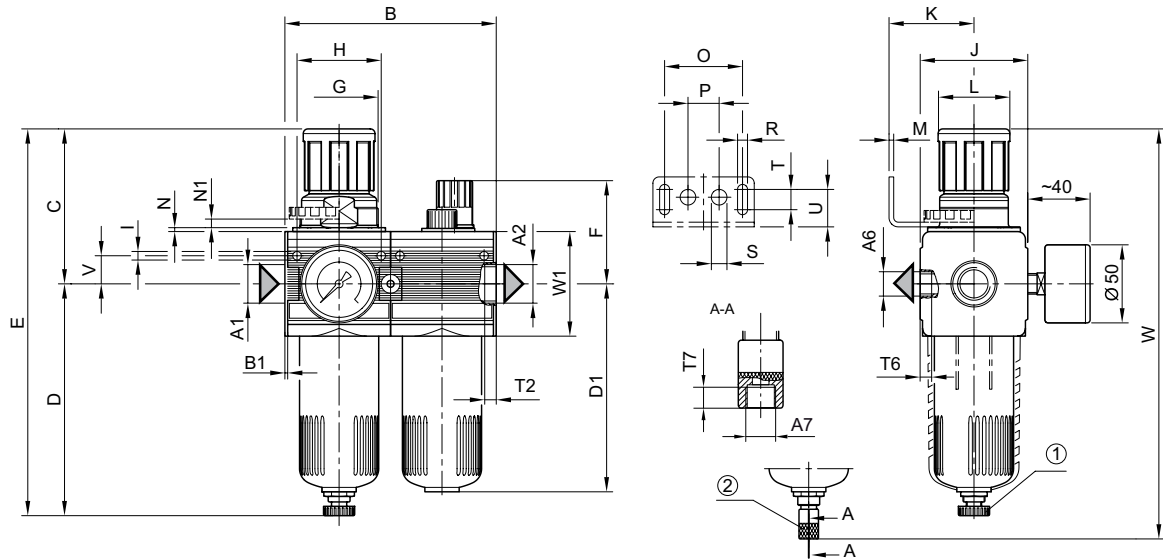


Preparation of compressed air ► Maintenance units and components

## Maintenance unit, 2-part, Series NL4-ACD

► G 1/2 - G 3/4 ► filter porosity: 5 µm ► with pressure gauge ► suitable for ATEX

### Dimensions



- 1) Semi-automatic condensate drain
- 2) fully automatic condensate drain

00107262

A1	A2	A6	A7	B	B1	C	D	D1	E	F	G	H	I
G 1/2	G 1/2	G 1/4	G 1/8	135.6	1.8	100.5	147	132	247.5	65	M50x1,5	54	5.5
G 3/4	G 3/4	G 1/4	G 1/8	135.6	1.8	100.5	147	132	247.5	65	M50x1,5	54	5.5
A1	J	K	L	M	N	N1	O	P	R	S	T	T2	T6
G 1/2	69	54.5	46	3	3	5.5	50	20	6.4	10	13	13	7
G 3/4	69	54.5	46	3	3	5.5	50	20	6.4	10	13	13	7
A1	T7	U	V	W	W1								
G 1/2	8.5	24	18	262.5	67								
G 3/4	8.5	24	18	262.5	67								

### Maintenance unit, 3-part, Series NL4-ACT

► G 1/2 - G 3/4 ► filter porosity: 5 µm ► with pressure gauge ► suitable for ATEX

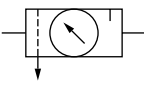


00106921

Version	3-part, Can be assembled into blocks
Parts	Pressure regulator, Filter, Lubricator
Nominal flow Qn	3000 l/min
Mounting orientation	vertical
Working pressure min./max.	2 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +60 °C
Ambient temperature min./max.	-10 °C / +60 °C
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 bar / 10 bar
Pressure supply	single
Filter reservoir volume	50 cm <sup>3</sup>
Filter element	exchangeable
Condensate drain	See table below
Lubricator reservoir volume	125 cm <sup>3</sup>
Type of filling	Manual oil filling
Oil type	HLP 32 (DIN 51 524 - ISO VG 32) HLP 68 (DIN 51 524 - ISO VG 68)
<b>Materials:</b>	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Filter insert	Polyethylene

#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Suitable for use in Ex zones 1, 2, 21, 22
- Oil dosing at 1000 l/min [drops/min]: 1-2

	Port	Condensate drain	Weight [kg]	Note	Part No.
	G 1/2	semi-automatic, open without pressure	2.37	1)	<b>0821300550</b>
	G 1/2	fully automatic, open without pressure	2.44	1)	0821300553
	G 1/2	semi-automatic, open without pressure	2.55	1); 3)	<b>0821300551</b>
	G 1/2	fully automatic, open without pressure	2.62	1); 3)	0821300554
	G 1/2	semi-automatic, open without pressure	2.8	2)	0821300552
	G 1/2	fully automatic, open without pressure	2.87	2)	0821300555
	G 3/4	semi-automatic, open without pressure	2.37	1)	<b>0821300580</b>
	G 3/4	fully automatic, open without pressure	2.44	1)	0821300583
	G 3/4	semi-automatic, open without pressure	2.55	1); 3)	<b>0821300581</b>
	G 3/4	fully automatic, open without pressure	2.62	1); 3)	0821300584
	G 3/4	semi-automatic, open without pressure	2.8	2)	0821300582
	G 3/4	fully automatic, open without pressure	2.8	2)	0821300585

Metal protective guard can be retrofitted for all polycarbonate reservoirs

1) Reservoir: Polycarbonate

2) Reservoir: Die cast zinc

3) Protective guard: Steel

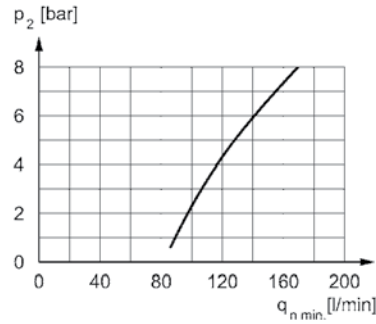
Nominal flow Qn with secondary pressure p<sub>2</sub> = 6 bar at Δp = 1 bar

## Preparation of compressed air ► Maintenance units and components

### Maintenance unit, 3-part, Series NL4-ACT

► G 1/2 - G 3/4 ► filter porosity: 5 µm ► with pressure gauge ► suitable for ATEX

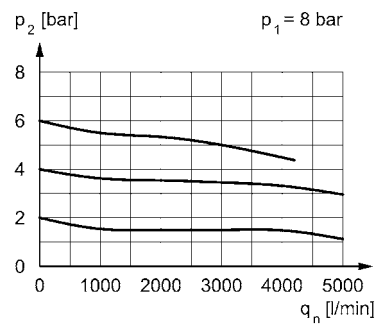
#### minimum flow rate curve (flow rate necessary for the correct functioning of the lubricator)



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$p_1$  = operating pressure;  $p_2$  = secondary pressure;  $q_n$  = nominal flow;  $q_{nmin.}$  = min. nominal flow

#### Flow rate characteristic



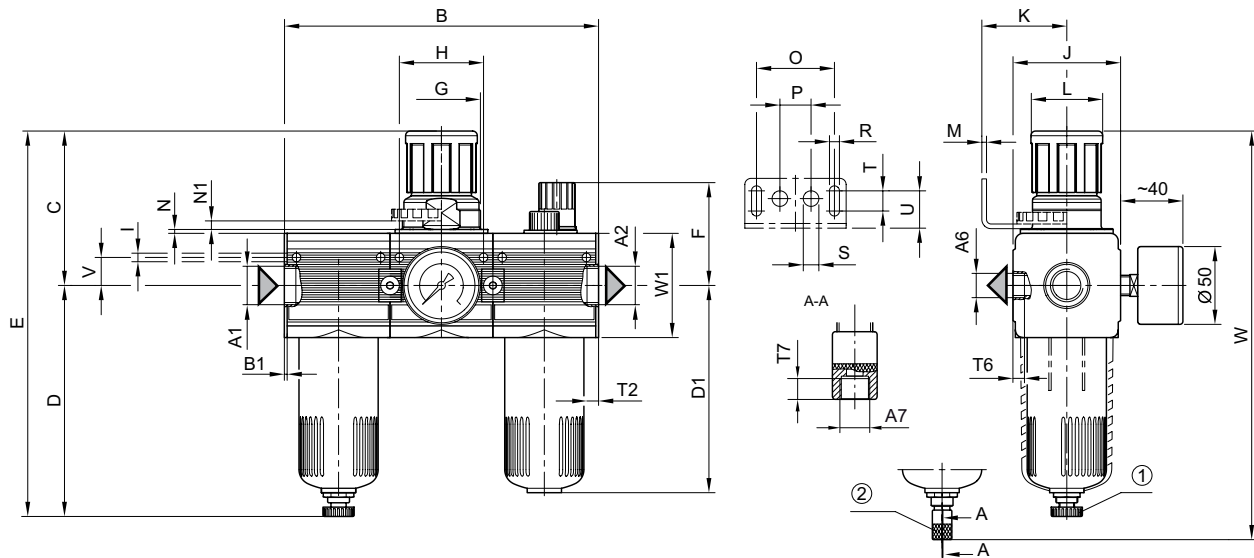
00107123\_b

$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow

### Maintenance unit, 3-part, Series NL4-ACT

▶ G 1/2 - G 3/4 ▶ filter porosity: 5 µm ▶ with pressure gauge ▶ suitable for ATEX

#### Dimensions



00107265

- 1) Semi-automatic condensate drain  
2) fully automatic condensate drain

A1	A2	A6	A7	B	B1	C	D	D1	E	F	G	H	I
G 1/2	G 1/2	G 1/4	G 1/8	201.6	1.8	100.5	147	132	247.5	65	M50x1,5	54	5.5
G 3/4	G 3/4	G 1/4	G 1/8	201.6	1.8	100.5	147	132	247.5	65	M50x1,5	54	5.5
A1	J	K	L	M	N	N1	O	P	R	S	T	T2	T6
G 1/2	69	54.5	46	3	3	5.5	50	20	6.4	10	13	13	7
G 3/4	69	54.5	46	3	3	5.5	50	20	6.4	10	13	13	7
A1	T7	U	V	W	W1								
G 1/2	8.5	24	18	262.5	67								
G 3/4	8.5	24	18	262.5	67								

## Preparation of compressed air ► Maintenance units and components

### Pressure regulator, Series NL4-RGS

► G 1/2 - G 3/4 ► Qn= 5600 l/min ► suitable for ATEX



00107354

Mounting orientation	Any
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Pressure supply	single
Materials:	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).
- Suitable for use in Ex zones 1, 2, 21, 22
- Recommended pre-filtering: 5 µm

		Port	Qn	Working pressure min./max.	Adjustment range min. - max..	Weight	Note	Part No.
			[l/min]	[bar]	[bar]	[kg]		
		G 1/2	5600	0.5 / 10	0.1 - 3	0.935	1)	<b>0821302505</b>
		G 1/2		0.5 / 16	0.2 - 6			<b>0821302580</b>
		G 1/2		0.5 / 16	0.5 - 10			<b>0821302500</b>
		G 3/4		0.5 / 16	0.1 - 3			<b>0821302544</b>
		G 3/4		0.5 / 16	0.2 - 6			<b>0821302545</b>
		G 3/4		0.5 / 16	0.5 - 10			<b>0821302540</b>
		G 1/2	5600	0.5 / 10	0.1 - 3	0.85	2)	<b>0821302504</b>
		G 1/2		0.5 / 10	0.2 - 6			<b>0821302506</b>
		G 1/2		0.5 / 16	0.5 - 10			<b>0821302501</b>
		G 3/4		0.5 / 16	0.1 - 3			<b>0821302546</b>
		G 3/4		0.5 / 16	0.2 - 6			0821302547
		G 3/4		0.5 / 16	0.5 - 10			<b>0821302541</b>

1) Pressure gauge enclosed separately

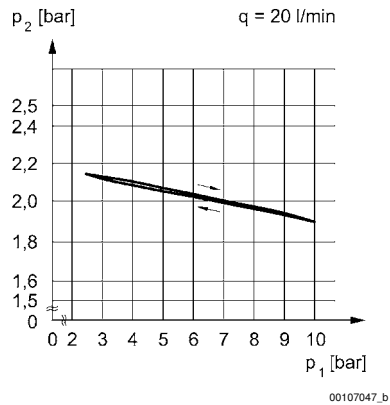
2) Order pressure gauge separately

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

### Pressure regulator, Series NL4-RGS

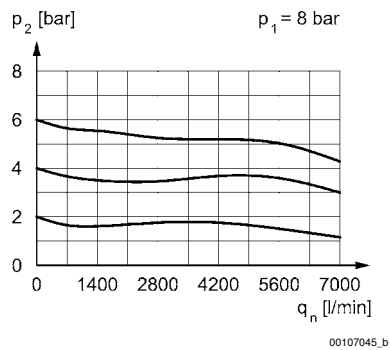
▶ G 1/2 - G 3/4 ▶ Qn= 5600 l/min ▶ suitable for ATEX

#### Pressure characteristics curve



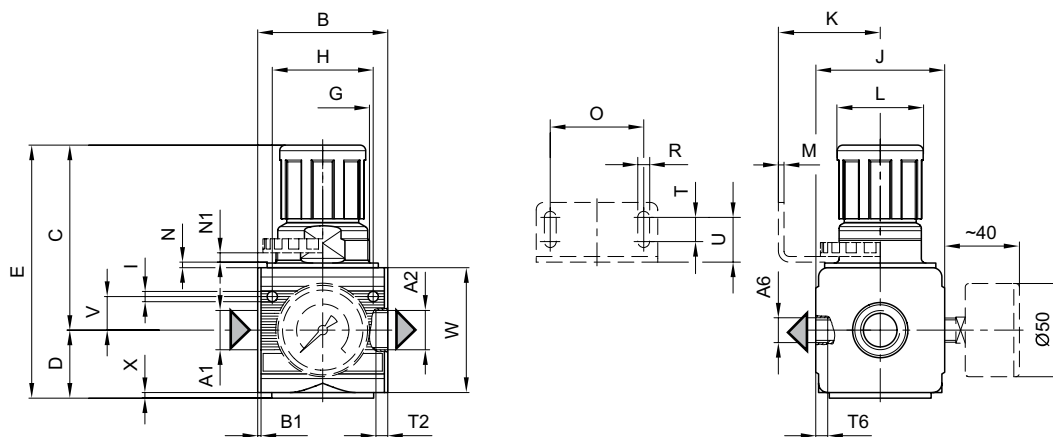
p<sub>1</sub> = working pressure; p<sub>2</sub> = secondary pressure; q = flow rate

#### Flow rate characteristic (setting range p<sub>2</sub>: 0.5 - 10 bar)



p<sub>1</sub> = Working pressure  
p<sub>2</sub> = Secondary pressure  
q<sub>n</sub> = Nominal flow

#### Dimensions



00107355

**Preparation of compressed air ► Maintenance units and components**
**Pressure regulator, Series NL4-RGS**

► G 1/2 - G 3/4 ► Qn= 5600 l/min ► suitable for ATEX

A1	A2	A6	B	B1	C	D	E	G	H	I	J	K	L
G 1/2	G 1/2	G 1/4	69.5	1.8	97	35.5	132.5	M50x1,5	54	5.5	69	54.5	46
G 3/4	G 3/4	G 1/4	69.5	1.8	97	35.5	132.5	M50x1,5	54	5.5	69	54.5	46

A1	M	N	N1	O	R	S	T	T2	T6	U	V	W	X
G 1/2	3	3	5.5	50	6.4	10	13	13	10	24	18	67	2
G 3/4	3	3	5.5	50	6.4	10	13	13	10	24	18	67	2

## Preparation of compressed air ▶ Maintenance units and components

### Pressure regulator, Series NL4-RGS

▶ G 1/2 ▶ Qn= 5600 l/min ▶ Activation: mechanical ▶ with continuous pressure supply ▶ suitable for ATEX



00106908

Mounting orientation	Any
Working pressure min./max.	0.5 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Pressure supply	double
Materials:	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).
- Suitable for use in Ex zones 1, 2, 21, 22
- Recommended pre-filtering: 5 µm

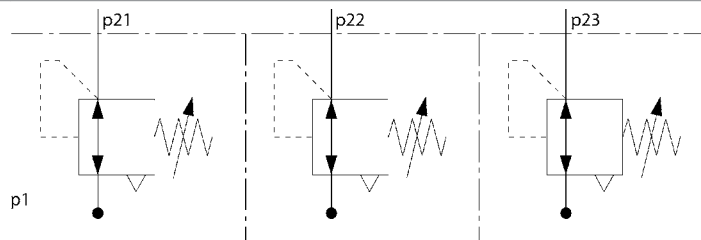
	Port	Qn	Adjustment range	Weight	Part No.
		[l/min]	min. - max..		
	G 1/2	5600	0.1 - 3	0.867	<b>0821302509</b>
			0.2 - 6		<b>0821302508</b>
			0.5 - 10		<b>0821302507</b>

Order pressure gauge separately

Max. pressure gauge Ø in blocked state: 63

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

#### Application example



00108090

p1 = working pressure

p21; p22; p23 = secondary pressure

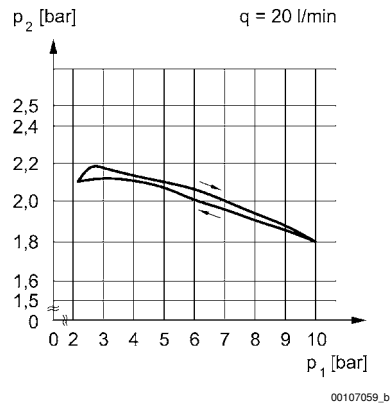


Preparation of compressed air ▶ Maintenance units and components

**Pressure regulator, Series NL4-RGS**

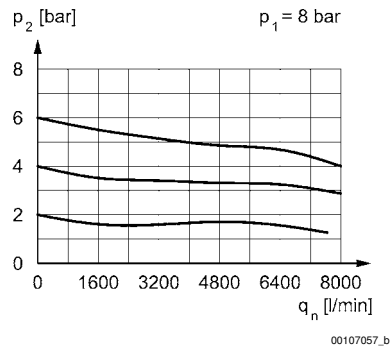
▶ G 1/2 ▶ Qn= 5600 l/min ▶ Activation: mechanical ▶ with continuous pressure supply ▶ suitable for ATEX

Pressure characteristics curve



$p_1$  = working pressure;  $p_2$  = secondary pressure;  $q$  = flow rate

Flow rate characteristic (setting range  $p_2$ : 0.5 - 10 bar)

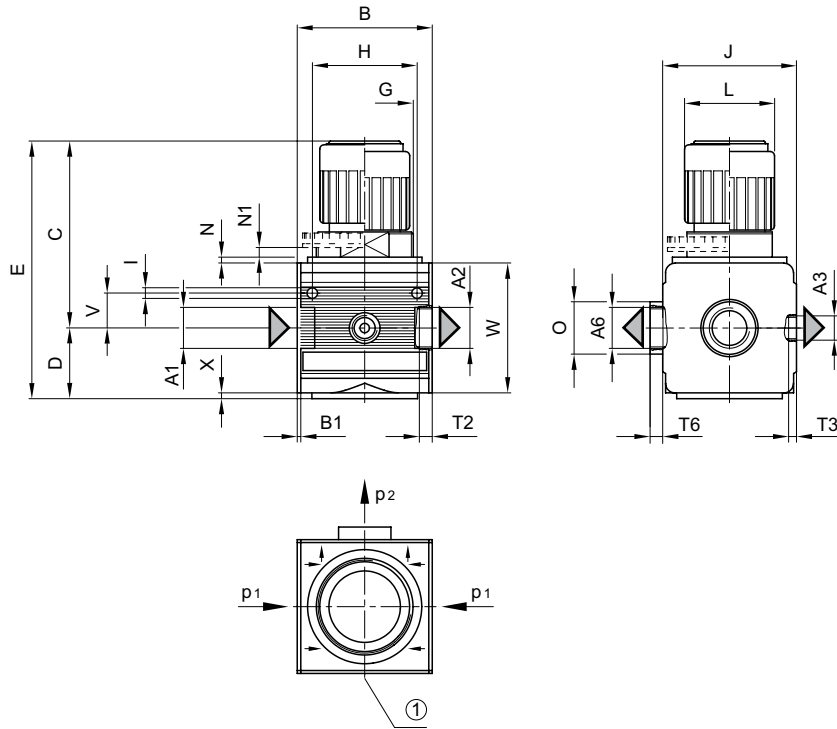


$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow

### Pressure regulator, Series NL4-RGS

▶ G 1/2 ▶ Qn= 5600 l/min ▶ Activation: mechanical ▶ with continuous pressure supply ▶ suitable for ATEX

#### Dimensions



00107246\_b

1) pressure gauge connection

p1 = working pressure

p2 = secondary pressure

A1	A2	A3	A6	B	B1	C	D	E	G	H	I	J	L
G 1/2	G 1/2	G 1/4	G 1/2	69.6	1.8	97	35.5	132.5	M50x1,5	54	5.5	69	46
A1	N	N1	O	T2	T3	T6	V	W	X				
G 1/2	3	5.5	27	13	7	6	18	67	2				

## Preparation of compressed air ▶ Maintenance units and components

### Pressure regulator, Series NL4-RGS

▶ G 1/2 - G 3/4 ▶ Qn= 5600 l/min ▶ Activation: mechanical ▶ lockable ▶ with key ▶ suitable for ATEX



00107357

Mounting orientation	Any
Working pressure min./max.	0.5 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Pressure supply	single
Materials:	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).
- Suitable for use in Ex zones 1, 2, 21, 22
- Recommended pre-filtering: 5 µm

		Port	Qn	Adjustment range	Weight	Note	Part No.
				min. - max..			
			[l/min]	[bar]	[kg]		
		G 1/2	5600	0.1 - 3	0.935	1)	0821302581
		G 1/2		0.2 - 6			<b>0821302582</b>
		G 1/2		0.5 - 10			<b>0821302502</b>
		G 3/4		0.1 - 3			<b>0821302548</b>
		G 3/4		0.2 - 6			0821302549
		G 3/4		0.5 - 10			0821302542
	-	G 1/2	5600	0.1 - 3	0.85	2)	0821302583
		G 1/2		0.2 - 6			0821302584
		G 1/2		0.5 - 10			0821302503
		G 3/4		0.1 - 3			0821302550
		G 3/4		0.2 - 6			0821302551
		G 3/4		0.5 - 10			0821302543

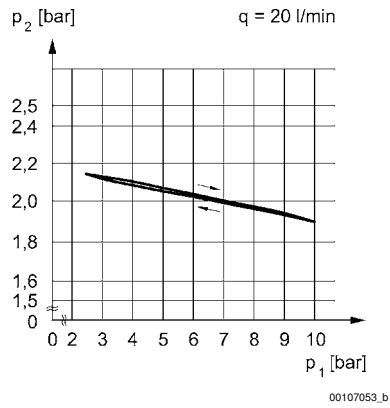
1) Pressure gauge enclosed separately

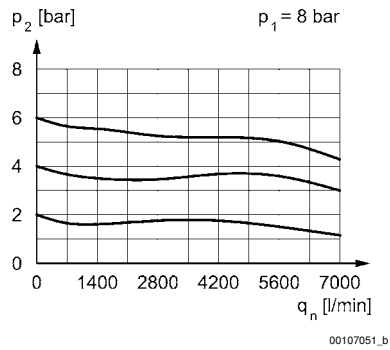
2) Order pressure gauge separately

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

**Pressure regulator, Series NL4-RGS**

▶ G 1/2 - G 3/4 ▶ Qn= 5600 l/min ▶ Activation: mechanical ▶ lockable ▶ with key ▶ suitable for ATEX

**Pressure characteristics curve**

 p<sub>1</sub> = working pressure; p<sub>2</sub> = secondary pressure; q = flow rate

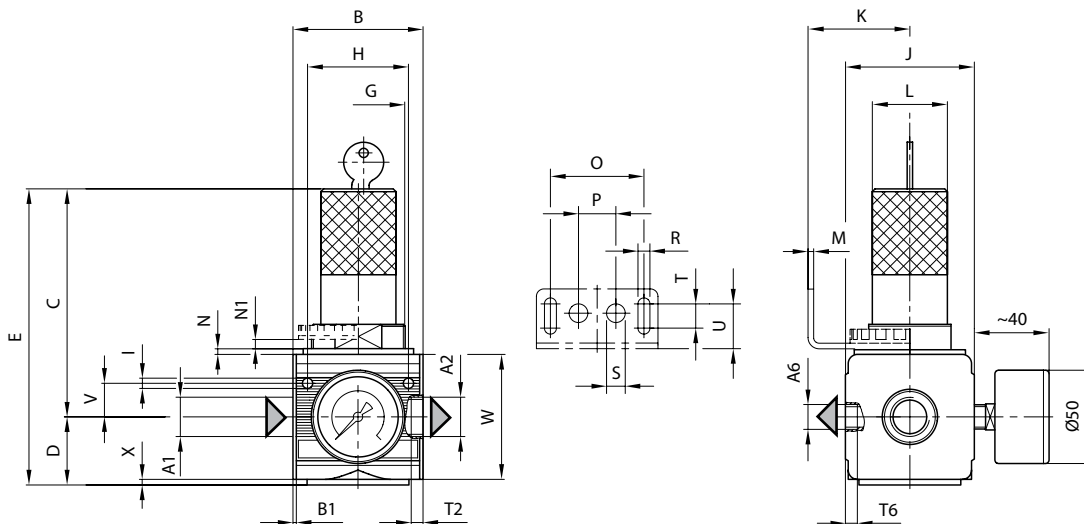
**Flow rate characteristic (setting range p<sub>2</sub>: 0.5 - 10 bar)**

 p<sub>1</sub> = Working pressure  
 p<sub>2</sub> = Secondary pressure  
 q<sub>n</sub> = Nominal flow

## Preparation of compressed air ▶ Maintenance units and components

### Pressure regulator, Series NL4-RGS

▶ G 1/2 - G 3/4 ▶ Qn= 5600 l/min ▶ Activation: mechanical ▶ lockable ▶ with key ▶ suitable for ATEX

#### Dimensions



00107244

A1	A2	A6	B	B1	C	D	E	G	H	I	J	K	L
G 1/2	G 1/2	G 1/4	69.5	1.8	122	35.5	157.5	M50x1,5	54	5.5	67	54.5	46
G 3/4	G 3/4	G 1/4	69.5	1.8	122	35.5	157.5	M50x1,5	54	5.5	67	54.5	46
A1	M	N	N1	O	P	R	S	T	T2	T6	U	V	W
G 1/2	3	3	5.5	50	20	6.4	10	13	13	7	24	18	67
G 3/4	3	3	5.5	50	20	6.4	10	13	13	7	24	18	67
A1	X												
G 1/2	2												
G 3/4	2												

### Pressure regulator, Series NL4-RGS

► G 1/2 - G 3/4 ► Qn= 5600 l/min ► Activation: pneumatically ► suitable for ATEX



00106954

Mounting orientation	Any
Working pressure min./max.	0.5 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 bar / 10 bar
Pressure supply	single
Control pressure max.	10 bar
Materials:	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

#### Technical Remarks

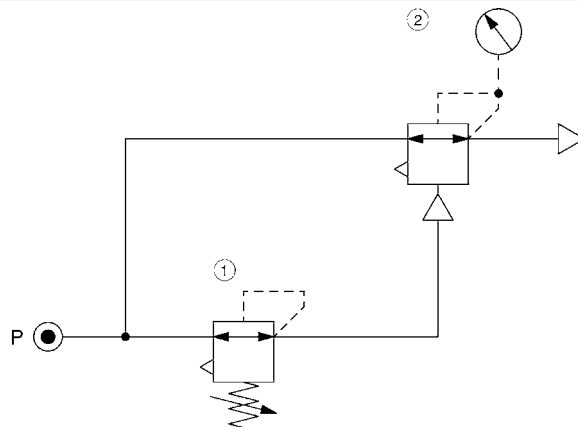
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Suitable for use in Ex zones 1, 2, 21, 22
- Recommended pre-filtering: 5 µm

	Port	Qn [l/min]	Weight [kg]	Part No.
	G 1/2	5600	0.85	<b>R412004952</b>
	G 3/4			R412007667

Order pressure gauge separately

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

#### Application example



00108093

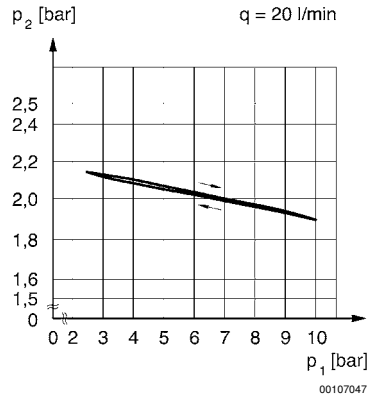
- 1) precision pressure regulator
- 2) pressure regulator valve, pneumatically operated

**Preparation of compressed air ▶ Maintenance units and components**

**Pressure regulator, Series NL4-RGS**

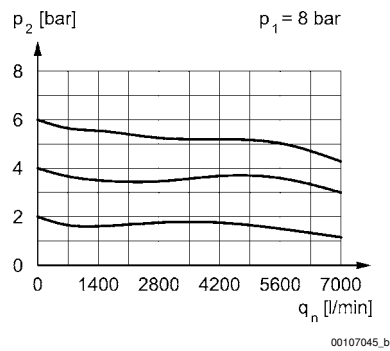
▶ G 1/2 - G 3/4 ▶ Qn= 5600 l/min ▶ Activation: pneumatically ▶ suitable for ATEX

**Pressure characteristics curve**



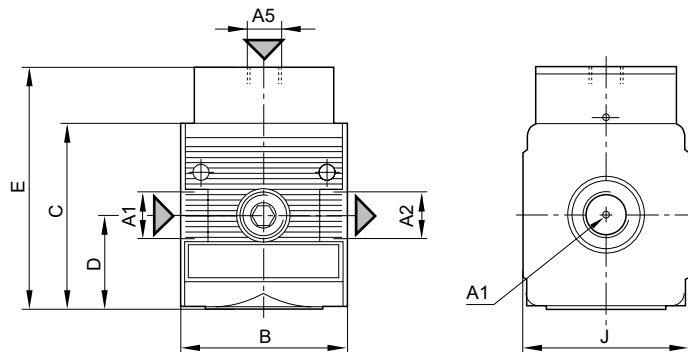
$p_1$  = working pressure;  $p_2$  = secondary pressure;  $q$  = flow rate

**Flow rate characteristic (setting range  $p_2$ : 0.5 - 10 bar)**



$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow

**Dimensions**



00121361

A1 = input  
 A2 = output  
 A5 = control pressure connection

**Pressure regulator, Series NL4-RGS**

 ► G 1/2 - G 3/4 ► Qn= 5600 l/min ► Activation: pneumatically ► suitable for ATEX
 

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A1	A2	A5	B	C	D	E	J						
G 1/2	G 1/2	G 1/4	69.5	70	36.5	93.5	67						
G 3/4	G 3/4	G 1/4	69.5	70	36.5	93.5	67						

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## Preparation of compressed air ▶ Maintenance units and components

### Precision pressure regulator, Series NL4-RGP

▶ G 1/2 ▶ Qn= 6000 l/min ▶ Activation: mechanical ▶ suitable for ATEX



00106908

Mounting orientation	Any
Working pressure min./max.	0.5 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Pressure supply	single
Max. Internal air consumption	2.6 l/min
<b>Materials:</b>	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

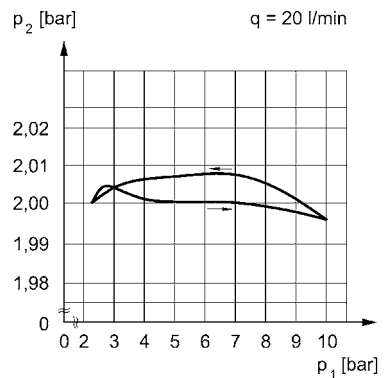
#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Suitable for use in Ex zones 1, 2, 21, 22
- Recommended pre-filtering: 5 µm

	Port	Qn [l/min]	Adjustment range	Weight [kg]	Part No.
			min. - max.. [bar]		
	G 1/2	6000	0.1 - 3	0.867	<b>0821302511</b>
			0.2 - 6		<b>0821302512</b>
			0.5 - 10		<b>0821302513</b>

Order pressure gauge separately  
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

#### Pressure characteristics curve



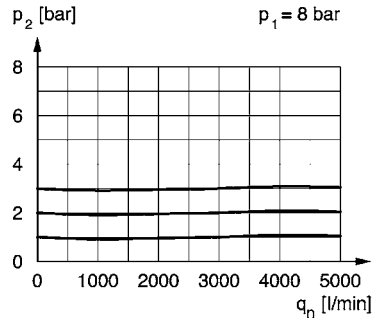
00107066\_b

p<sub>1</sub> = working pressure; p<sub>2</sub> = secondary pressure; q = flow rate

### Precision pressure regulator, Series NL4-RGP

▶ G 1/2 ▶ Qn= 6000 l/min ▶ Activation: mechanical ▶ suitable for ATEX

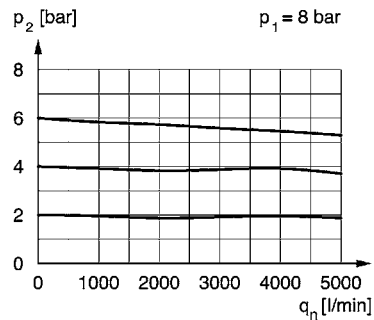
#### Flow rate characteristic



00111966a\_b

$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow  
 $p_2 = 0,1 - 3$  bar

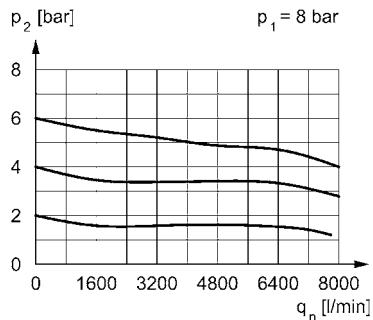
#### Flow rate characteristic



00111966b\_b

$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow  
 $p_2 = 0,2 - 6$  bar

#### Flow rate characteristic



00111966c\_b

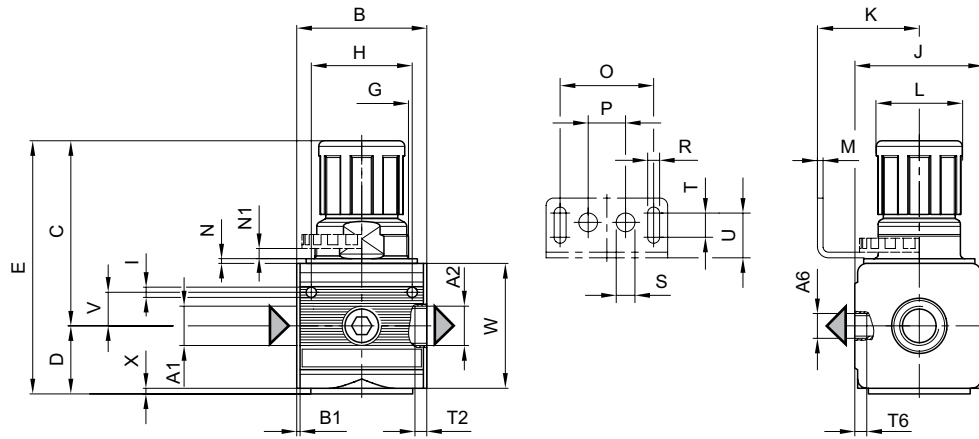
$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow  
 $p_2 = 0,5 - 10$  bar

## Preparation of compressed air ▶ Maintenance units and components

### Precision pressure regulator, Series NL4-RGP

▶ G 1/2 ▶ Qn= 6000 l/min ▶ Activation: mechanical ▶ suitable for ATEX

#### Dimensions



00107249

A1	A2	A6	B	B1	C	D	E	G	H	I	J	K	L
G 1/2	G 1/2	G 1/2	69.6	1.8	97	35.5	132.5	M50x1,5	54	5.5	69	54.5	46
A1	M	N	N1	O	P	R	S	T	T2	T6	U	V	W
G 1/2	3	3	5.5	50	20	6.4	10	13	13	7	24	18	67
A1	X												
G 1/2	2												

### Precision pressure regulator, Series NL4-RGP

▶ G 1/2 ▶ Qn= 5600 l/min ▶ Activation: mechanical ▶ with continuous pressure supply ▶ suitable for ATEX



00106908

Mounting orientation	Any
Working pressure min./max.	0.5 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Regulator type	Diaphragm-type pressure regulator, Can be assembled into blocks
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Pressure supply	double
Max. Internal air consumption	2.6 l/min
<b>Materials:</b>	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).
- Suitable for use in Ex zones 1, 2, 21, 22
- Recommended pre-filtering: 5 µm

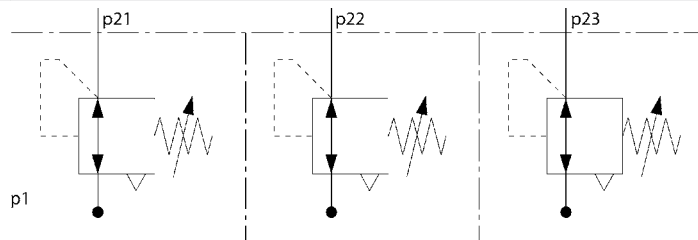
	Port	Qn	Adjustment range		Weight	Part No.
			[l/min]	min. - max..		
	G 1/2	5600		0.1 - 3	0.867	<b>0821302524</b>
				0.2 - 6		<b>0821302525</b>
				0.5 - 10		<b>0821302526</b>

Order pressure gauge separately

Max. pressure gauge Ø in blocked state: 40

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

#### Application example



00108090

p1 = working pressure

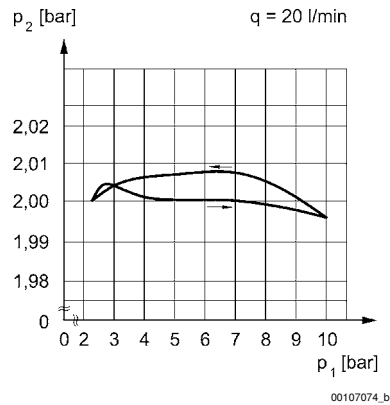
p21; p22; p23 = secondary pressure

Preparation of compressed air ▶ Maintenance units and components

**Precision pressure regulator, Series NL4-RGP**

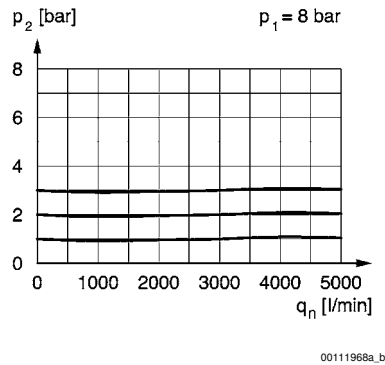
▶ G 1/2 ▶ Qn= 5600 l/min ▶ Activation: mechanical ▶ with continuous pressure supply ▶ suitable for ATEX

Pressure characteristics curve



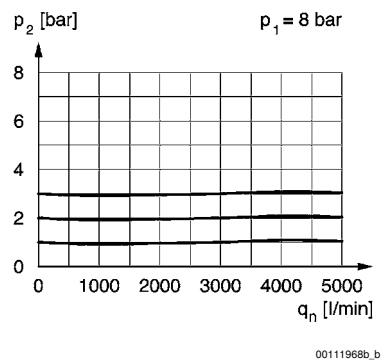
$p_1$  = working pressure;  $p_2$  = secondary pressure;  $q$  = flow rate

Flow rate characteristic



$p_2 = 0,1 - 3 \text{ bar}$   
 $p_1 = \text{Working pressure}$   
 $p_2 = \text{Secondary pressure}$   
 $q_n = \text{Nominal flow}$

Flow rate characteristic

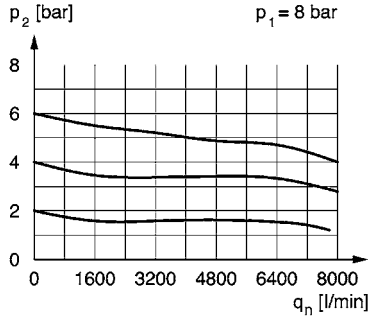


$p_2 = 0,2 - 6 \text{ bar}$   
 $p_1 = \text{Working pressure}$   
 $p_2 = \text{Secondary pressure}$   
 $q_n = \text{Nominal flow}$

**Precision pressure regulator, Series NL4-RGP**

▶ G 1/2 ▶ Qn= 5600 l/min ▶ Activation: mechanical ▶ with continuous pressure supply ▶ suitable for ATEX

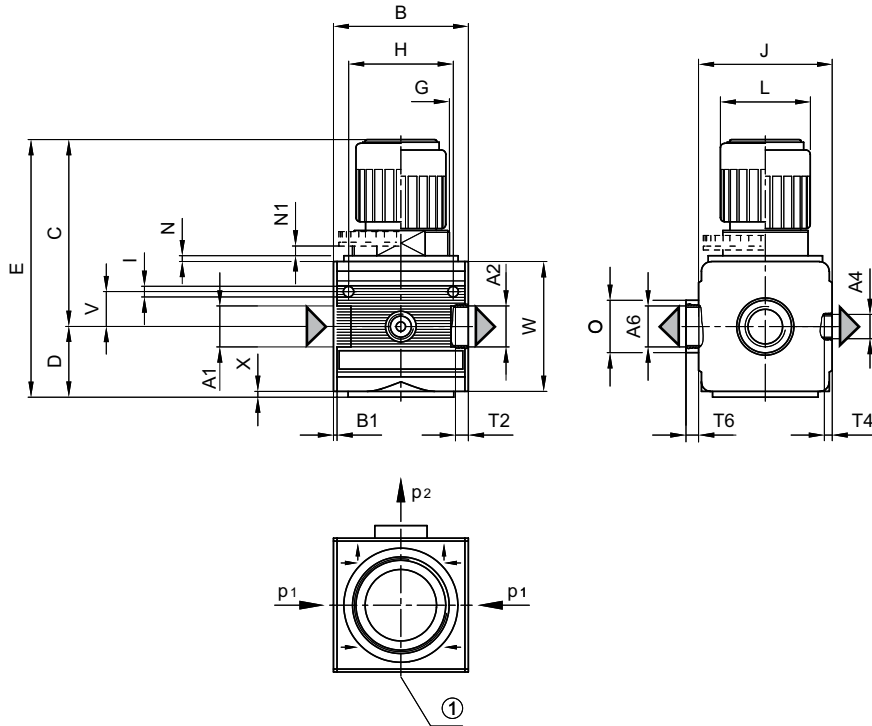
**Flow rate characteristic**



00111968c\_b

$p_2 = 0,5 - 10 \text{ bar}$   
 $p_1 = \text{Working pressure}$   
 $p_2 = \text{Secondary pressure}$   
 $q_n = \text{Nominal flow}$

**Dimensions**



00107251\_b

1) pressure gauge connection  
 $p_1 = \text{working pressure}$   
 $p_2 = \text{secondary pressure}$

A1	A2	A4	A6	B	B1	C	D	E	G	H	I	J	L
G 1/2	G 1/2	G 1/4	G 1/2	69.6	1.8	97	35.5	132.5	M50x1,5	54	5.5	69	46

Preparation of compressed air ► Maintenance units and components

**Precision pressure regulator, Series NL4-RGP**

► G 1/2 ► Qn= 5600 l/min ► Activation: mechanical ► with continuous pressure supply ► suitable for ATEX

A1	N	N1	O	T2	T4	T6	V	W	X				
G 1/2	3	5.5	27	13	7	6	18	67	2				

### Filter pressure regulator, Series NL4-FRE

► G 1/2 ► filter porosity: 5 µm ► suitable for ATEX

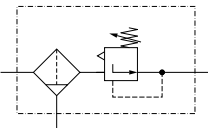


00135025

Version	1-in-1, Can be assembled into blocks
Parts	Filter, Pressure regulator
Nominal flow Qn	3500 l/min
Mounting orientation	vertical
Working pressure min./max.	2 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +60 °C
Ambient temperature min./max.	-10 °C / +60 °C
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 bar / 10 bar
Pressure supply	single
Filter reservoir volume	50 cm <sup>3</sup>
Filter element	exchangeable
Condensate drain	See table below
<b>Materials:</b>	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Filter insert	Polyethylene

#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).
- Suitable for use in Ex zones 1, 2, 21, 22

	Port	Condensate drain	Weight [kg]	Note	Part No.
	G 1/2	semi-automatic, open without pressure	1.19	1)	<b>0821300364</b>
		fully automatic, open without pressure	1.26	1)	<b>0821300367</b>
		fully automatic, open without pressure	1.47	2)	0821300281

Metal protective guard can be retrofitted for all polycarbonate reservoirs

Order pressure gauge separately

1) Reservoir: Polycarbonate

2) Reservoir: Die cast zinc

Nominal flow Qn with secondary pressure p<sub>2</sub> = 6 bar at Δp = 1 bar

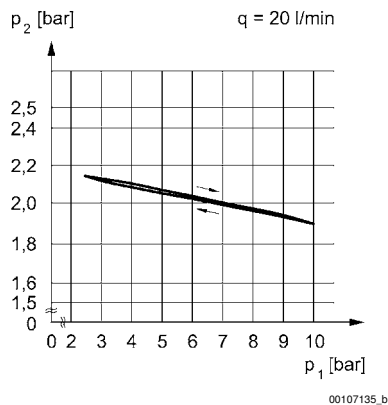


Preparation of compressed air ▶ Maintenance units and components

**Filter pressure regulator, Series NL4-FRE**

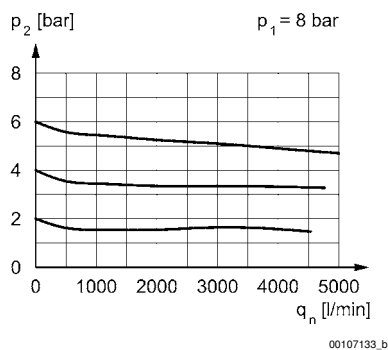
▶ G 1/2 ▶ filter porosity: 5 μm ▶ suitable for ATEX

Pressure characteristics curve



p<sub>1</sub> = working pressure; p<sub>2</sub> = secondary pressure; q = flow rate

Flow rate characteristic

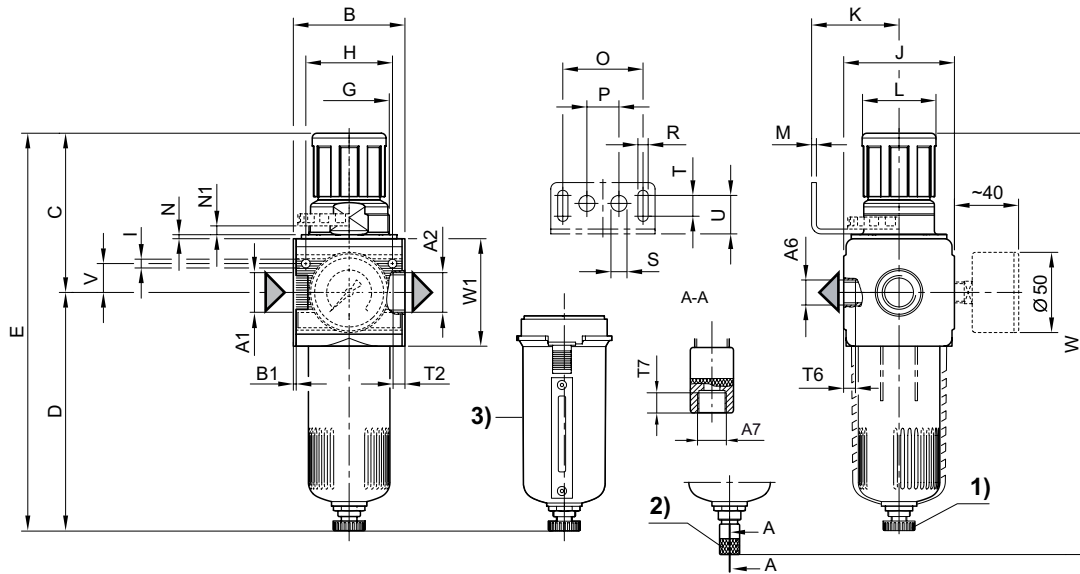


p<sub>1</sub> = Working pressure  
 p<sub>2</sub> = Secondary pressure  
 q<sub>n</sub> = Nominal flow

### Filter pressure regulator, Series NL4-FRE

▶ G 1/2 ▶ filter porosity: 5 µm ▶ suitable for ATEX

#### Dimensions



00133987

- 1) Semi-automatic condensate drain
- 2) fully automatic condensate drain
- 3) Metal reservoir with level indicator

A1	A2	A6	A7	B	B1	C	D	E	G	H	I	J	
G 1/2	G 1/2	G 1/4	G 1/8	69.6	1.8	98.3	146.5	244.8	M50x1,5	54	5.5	69	
A1	K	L	M	N	N1	O	P	R	S	T	T2	T6	T7
G 1/2	54.5	46	3	3	5.5	50	20	6.4	10	13	13	7	8.5
A1	U	V	W	W1									
G 1/2	24	18	262.8	67									

## Preparation of compressed air ► Maintenance units and components

### Filter pressure regulator, Series NL4-FRE

► G 1/2 - G 3/4 ► filter porosity: 5 µm ► with pressure gauge ► suitable for ATEX



00106912

Version	1-in-1, Can be assembled into blocks
Parts	Filter, Pressure regulator
Nominal flow Qn	3500 l/min
Mounting orientation	vertical
Working pressure min./max.	2 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 bar / 10 bar
Pressure supply	single
Filter reservoir volume	50 cm <sup>3</sup>
Filter element	exchangeable
Condensate drain	See table below
<b>Materials:</b>	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Filter insert	Polyethylene

#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).
- Suitable for use in Ex zones 1, 2, 21, 22

		Port	Condensate drain	Weight [kg]	Note	Part No.
		G 1/2	semi-automatic, open without pressure	1.19	1)	<b>0821300350</b>
		G 1/2	semi-automatic, open without pressure	1.28	1); 3)	<b>0821300351</b>
		G 1/2	semi-automatic, open without pressure	1.41	2)	<b>0821300352</b>
		G 1/2	fully automatic, open without pressure	1.26	1)	<b>0821300353</b>
		G 1/2	fully automatic, open without pressure	1.35	1); 3)	<b>0821300354</b>
		G 1/2	fully automatic, open without pressure	1.47	2)	<b>0821300355</b>
		G 3/4	semi-automatic, open without pressure	1.19	1)	<b>0821300380</b>
		G 3/4	semi-automatic, open without pressure	1.28	1); 3)	<b>0821300381</b>
		G 3/4	semi-automatic, open without pressure	1.41	2)	<b>0821300382</b>
		G 3/4	fully automatic, open without pressure	1.26	1)	<b>0821300383</b>
		G 3/4	fully automatic, open without pressure	1.35	1); 3)	<b>0821300384</b>
		G 3/4	fully automatic, open without pressure	1.47	2)	<b>0821300385</b>

Metal protective guard can be retrofitted for all polycarbonate reservoirs

Pressure gauge enclosed separately

1) Reservoir: Polycarbonate

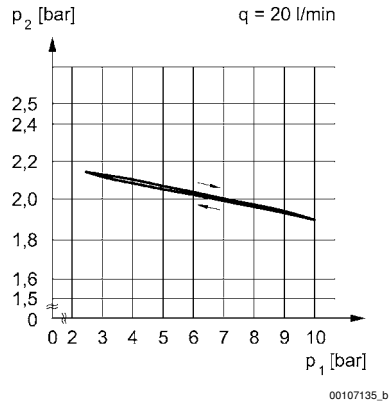
2) Reservoir: Die cast zinc

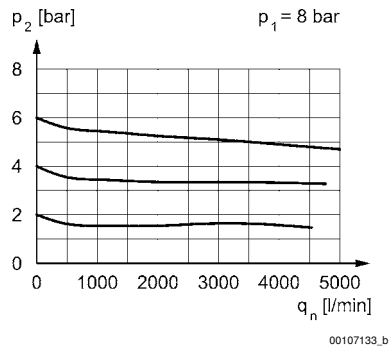
3) Protective guard: Steel

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

**Filter pressure regulator, Series NL4-FRE**

▶ G 1/2 - G 3/4 ▶ filter porosity: 5 µm ▶ with pressure gauge ▶ suitable for ATEX

**Pressure characteristics curve**

 p<sub>1</sub> = working pressure; p<sub>2</sub> = secondary pressure; q = flow rate

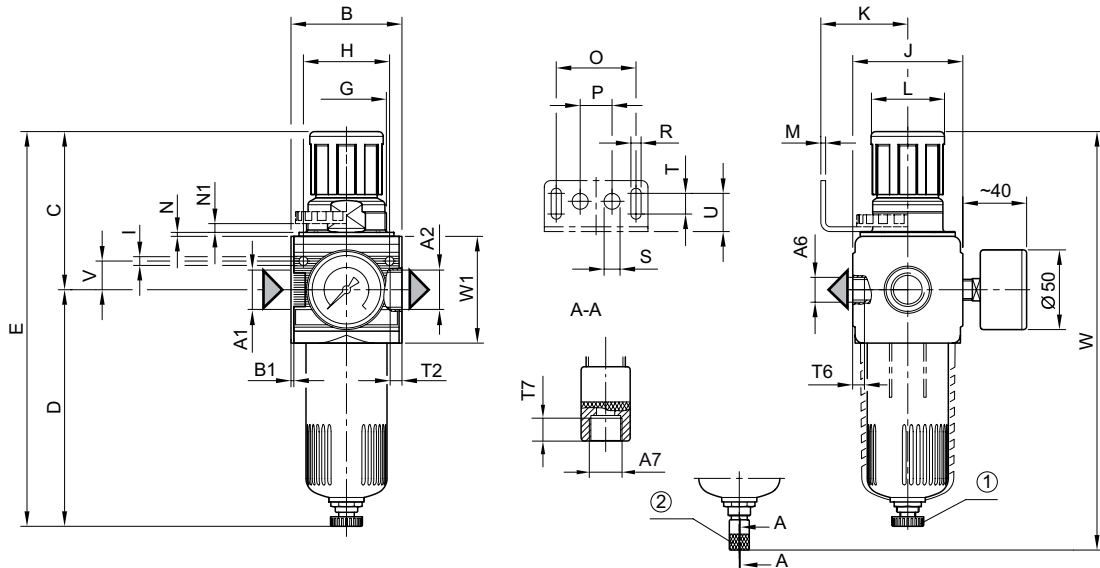
**Flow rate characteristic**

 p<sub>1</sub> = Working pressure  
 p<sub>2</sub> = Secondary pressure  
 q<sub>n</sub> = Nominal flow

## Preparation of compressed air ► Maintenance units and components

### Filter pressure regulator, Series NL4-FRE

► G 1/2 - G 3/4 ► filter porosity: 5 µm ► with pressure gauge ► suitable for ATEX

#### Dimensions



- 1) Semi-automatic condensate drain  
2) fully automatic condensate drain

00107269

A1	A2	A6	A7	B	B1	C	D	E	G	H	I	J
G 1/2	G 1/2	G 1/4	G 1/8	69.6	1.8	98.3	146.5	244.8	M50x1,5	54	5.5	69
G 3/4	G 3/4	G 1/4	G 1/8	69.6	1.8	98.3	146.5	244.8	M50x1,5	54	5.5	69

A1	K	L	M	N	N1	O	P	R	S	T	T2	T6	T7
G 1/2	54.5	46	3	3	5.5	50	20	6.4	10	13	13	7	8.5
G 3/4	54.5	46	3	3	5.5	50	20	6.4	10	13	13	7	8.5

A1	U	V	W	W1
G 1/2	24	18	262.8	67
G 3/4	24	18	262.8	67

### Filter pressure regulator, Series NL4-FRE

▶ G 1/2 - G 3/4 ▶ filter porosity: 5 µm ▶ lockable ▶ with key ▶ with pressure gauge ▶ suitable for ATEX



00106911

Version	1-in-1, Can be assembled into blocks
Parts	Filter, Pressure regulator
Nominal flow Qn	3500 l/min
Mounting orientation	vertical
Working pressure min./max.	2 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +60 °C
Ambient temperature min./max.	-10 °C / +60 °C
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 bar / 10 bar
Pressure supply	single
Filter reservoir volume	50 cm <sup>3</sup>
Filter element	exchangeable
Condensate drain	See table below
<b>Materials:</b>	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Filter insert	Polyethylene

#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).
- Suitable for use in Ex zones 1, 2, 21, 22

		Port	Condensate drain	Weight [kg]	Note	Part No.
		G 1/2	semi-automatic, open without pressure	2.01	1)	<b>0821300356</b>
		G 1/2	semi-automatic, open without pressure	2.1	1); 3)	0821300234
		G 1/2	semi-automatic, open without pressure	2.23	2)	0821300235
		G 1/2	fully automatic, open without pressure	2.08	1)	0821300236
		G 1/2	fully automatic, open without pressure	2.17	1); 3)	<b>0821300237</b>
		G 1/2	fully automatic, open without pressure	2.29	2)	0821300238
		G 3/4	semi-automatic, open without pressure	2.01	1)	0821300386
		G 3/4	semi-automatic, open without pressure	2.1	1); 3)	0821300239
		G 3/4	semi-automatic, open without pressure	2.23	2)	0821300240
		G 3/4	fully automatic, open without pressure	2.08	1)	0821300241
		G 3/4	fully automatic, open without pressure	2.29	2)	0821300243

Metal protective guard can be retrofitted for all polycarbonate reservoirs

\* Pressure gauge enclosed separately

1) Reservoir: Polycarbonate

2) Reservoir: Die cast zinc

3) Protective guard: Steel

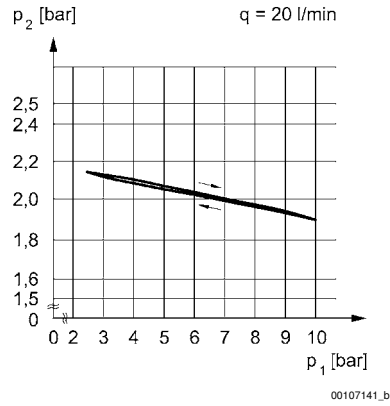
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Preparation of compressed air ▶ Maintenance units and components

**Filter pressure regulator, Series NL4-FRE**

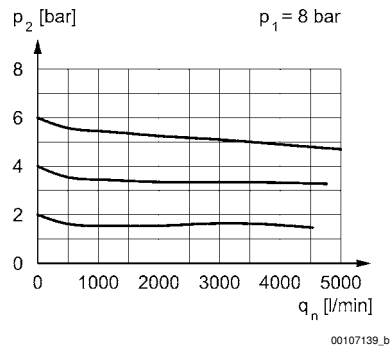
▶ G 1/2 - G 3/4 ▶ filter porosity: 5 μm ▶ lockable ▶ with key ▶ with pressure gauge ▶ suitable for ATEX

Pressure characteristics curve



p<sub>1</sub> = working pressure; p<sub>2</sub> = secondary pressure; q = flow rate

Flow rate characteristic

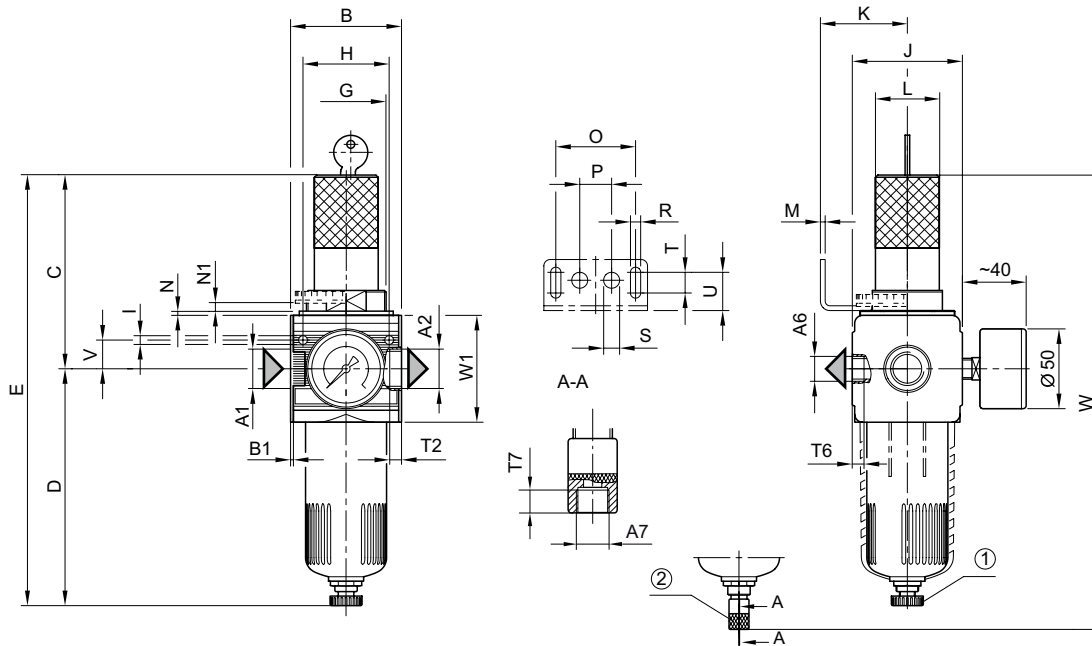


p<sub>1</sub> = Working pressure  
 p<sub>2</sub> = Secondary pressure  
 q<sub>n</sub> = Nominal flow

## Filter pressure regulator, Series NL4-FRE

▶ G 1/2 - G 3/4 ▶ filter porosity: 5 µm ▶ lockable ▶ with key ▶ with pressure gauge ▶ suitable for ATEX

### Dimensions



00107271

- 1) Semi-automatic condensate drain  
2) fully automatic condensate drain

A1	A2	A6	A7	B	B1	C	D	E	G	H	I	J	K
G 1/2	G 1/2	G 1/4	G 1/8	69.6	1.8	122	146.5	268.5	M50x1,5	54	5.5	69	54.5
G 3/4	G 3/4	G 1/4	G 1/8	69.6	1.8	122	146.5	268.5	M50x1,5	54	5.5	69	54.5
A1	L	M	N	N1	O	P	R	S	T	T2	T6	T7	U
G 1/2	46	3		5.5	50	20	6.4	10	13	13	7	8.5	24
G 3/4	46	3	3	5.5	50	20	6.4	10	13	13	7	8.5	24
A1	V	W	W1										
G 1/2	18	286.5	67										
G 3/4	18	286.5	67										



## Preparation of compressed air ► Maintenance units and components

### Filter, Series NL4-FLS

► G 1/2 - G 3/4 ► filter porosity: 5 µm ► suitable for ATEX



00106910

Version	Standard filter, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	2 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Filter reservoir volume	50 cm³
Filter element	exchangeable
filter porosity	5 µm
Condensate drain	See table below
<b>Materials:</b>	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Filter insert	Cellpor

#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Suitable for use in Ex zones 1, 2, 21, 22
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 6

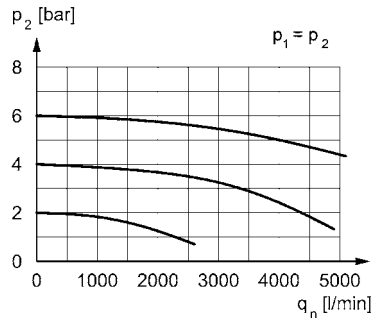
	Port	Qn	Condensate drain	Reservoir	Protective guard	Weight	Note	Part No.
						[l/min]		
	G 1/2	4000	semi-automatic, open without pressure	Polycarbonate	-	0.798	-	<b>0821303500</b>
	G 1/2		semi-automatic, open without pressure	Polycarbonate	Steel	0.89	-	<b>0821303501</b>
	G 1/2		semi-automatic, open without pressure	Die cast zinc with window	-	1.23	-	<b>0821303502</b>
	G 1/2		fully automatic, open without pressure	Polycarbonate	-	0.864	-	<b>0821303503</b>
	G 1/2		fully automatic, open without pressure	Polycarbonate	Steel	0.956	-	<b>0821303504</b>
	G 1/2		fully automatic, open without pressure	Die cast zinc with window	-	1.29	-	<b>0821303505</b>
	G 1/2		fully automatic, open without pressure	Die cast zinc with window	-	1.29	1)	0821303559
	G 3/4		semi-automatic, open without pressure	Polycarbonate	-	0.798	-	<b>0821303540</b>
	G 3/4		semi-automatic, open without pressure	Polycarbonate	-	0.798	1)	0821303558
	G 3/4		semi-automatic, open without pressure	Polycarbonate	Steel	0.89	-	<b>0821303541</b>
	G 3/4		semi-automatic, open without pressure	Die cast zinc with window	-	1.23	-	0821303542
	G 3/4		fully automatic, open without pressure	Polycarbonate	-	0.864	-	<b>0821303543</b>
	G 3/4		fully automatic, open without pressure	Polycarbonate	Steel	0.956	-	0821303544
	G 3/4		fully automatic, open without pressure	Die cast zinc with window	-	1.29	-	<b>0821303545</b>

1) With front pressure gauge connection G1/4  
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

## Filter, Series NL4-FLS

▶ G 1/2 - G 3/4 ▶ filter porosity: 5 µm ▶ suitable for ATEX

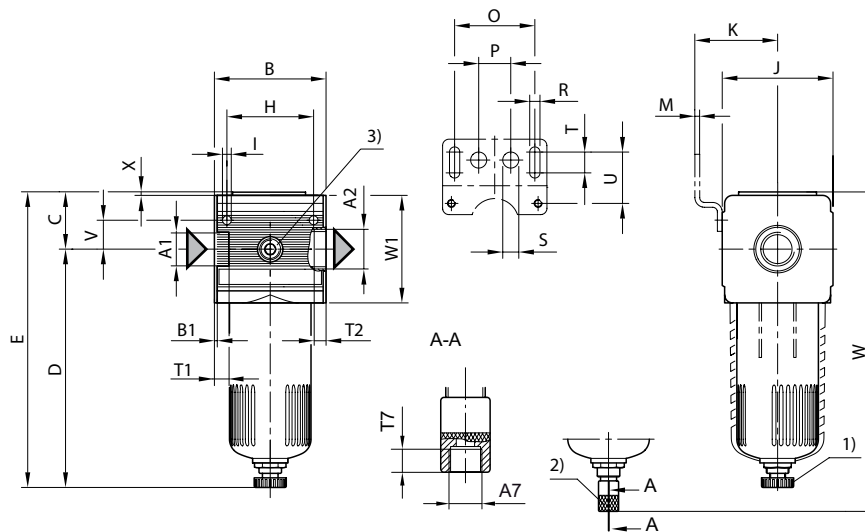
### Flow rate characteristic



00107148\_b

$p_2$  = secondary pressure  
 $q_n$  = nominal flow

### Dimensions



00107275

- 1) Semi-automatic condensate drain
- 2) fully automatic condensate drain
- 3) Optional pressure gauge connection G 1/4

A1	A2	A7	B	B1	C	D	E	H	I	J	K	M	O
G 1/2	G 1/2	G 1/8	69.6	1.8	36.5	146.5	183	54	5.5	69	54.5	3	50
G 3/4	G 3/4	G 1/8	69.6	1.8	36.5	146.5	183	54	5.5	69	54.5	3	50

A1	P	R	S	T	T1	T2	T7	U	V	W	W1	X
G 1/2	20	6.4	10	13	13	13	8.5	33	18	199	67	3
G 3/4	20	6.4	10	13	13	13	8.5	33	18	199	67	3

## Preparation of compressed air ► Maintenance units and components

### Pre-filter, Series NL4-FLP

► G 1/4 - G 1/2 ► filter porosity: 0.3 µm



00008660

Version	Pre-filter, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	2 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Filter reservoir volume	25 cm <sup>3</sup>
Filter element	exchangeable
filter porosity	0.3 µm
Condensate drain	See table below
<b>Materials:</b>	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Filter insert	Impregnated paper

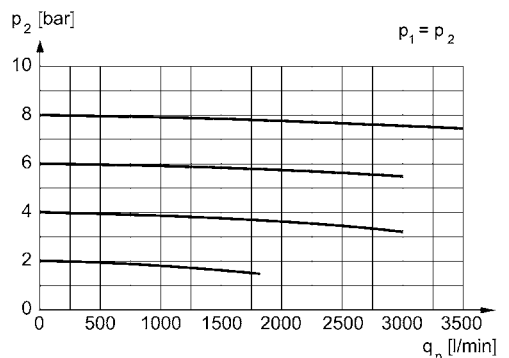
#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Recommended pre-filtering: 5 µm
- max. residual oil content at the outlet: 0.01 mg/m<sup>3</sup>
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 1

	Port	Qn [l/min]	Condensate drain	Reservoir	Weight [kg]	Fig.	Note	Part No.
	G 1/4	1000	fully automatic, open without pressure	Die cast zinc	0.482	Fig. 1	-	<b>0821303302</b>
	G 1/4	2500	fully automatic, open without pressure	Die cast zinc	0.886	Fig. 2	-	<b>0821303303</b>
	G 1/2	2500	fully automatic, open without pressure	Die cast zinc	1.29	Fig. 2	1)	<b>0821303515</b>
	G 1/2	1000	semi-automatic, open without pressure	Polycarbonate	0.798	Fig. 2	1)	<b>0821303529</b>

1) Suitable for use in Ex zones 1, 2, 21, 22  
Nominal flow Qn with secondary pressure p<sub>2</sub> = 6 bar at Δp = 0,1 bar

#### Flow rate characteristic, Fig. 1



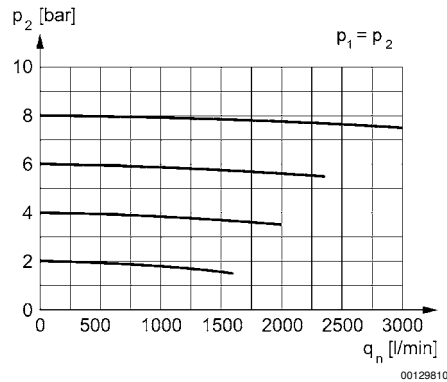
00129812

p<sub>2</sub> = secondary pressure  
q<sub>n</sub> = nominal flow

## Pre-filter, Series NL4-FLP

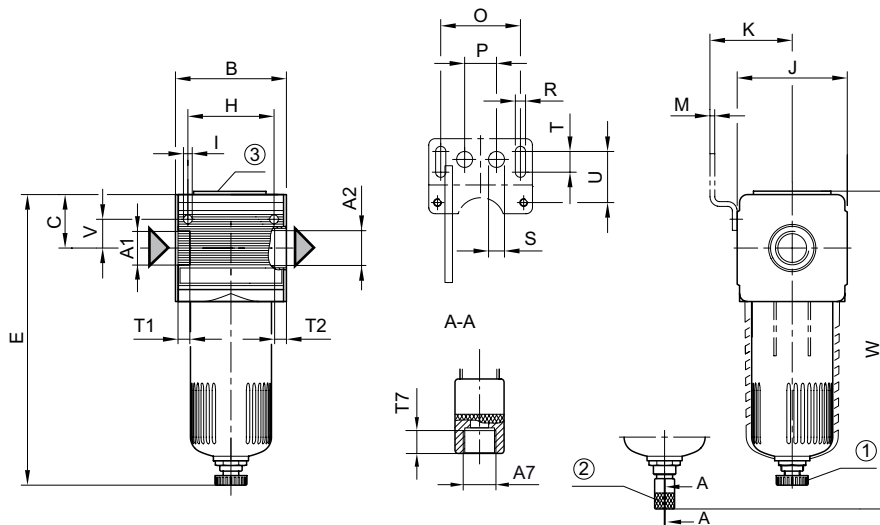
▶ G 1/4 - G 1/2 ▶ filter porosity: 0.3 µm

Flow rate characteristic, Fig. 2



p2 = secondary pressure  
qn = nominal flow

## Dimensions



- 1) semi-automatic condensate drain
- 2) fully automatic condensate drain
- 3) differential pressure gauge connection

00108162

A1	A2	A7	B	C	E	H	I	J	K	M	O	P	R
G 1/4	G 1/4	G 1/8	69.6	38.5	–	54	5.5	69	54.5	3	50	20	6.4
G 1/4	G 1/4	G 1/8	69.6	38.5	–	54	5.5	69	54.5	3	50	20	6.4
G 1/2	G 1/2	G 1/8	69.6	38.5	–	54	5.5	69	54.5	3	50	20	6.4
G 1/2	G 1/2	G 1/8	69.6	38.5	185	54	5.5	69	54.5	3	50	20	6.4

A1	S	T	T1	T2	T7	U	V	W					
G 1/4	10	13	13	13	8.5	33	18	203					
G 1/4	10	13	13	13	8.5	33	18	232					
G 1/2	10	13	13	13	8.5	33	18	317					
G 1/2	10	13	13	13	8.5	33	18	–					

## Preparation of compressed air ► Maintenance units and components

### Microfilter, Series NL4-FLC

► G 1/4 - G 1/2 ► filter porosity: 0.01 µm



00010372

Version	Microfilter, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	2 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Filter reservoir volume	25 cm <sup>3</sup>
Filter element	exchangeable
filter porosity	0.01 µm
Condensate drain	See table below
Materials:	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc
Filter insert	Borosilicate glass fiber

#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Recommended pre-filtering: 0.3 µm
- max. residual oil content at the outlet: 0.01 mg/m<sup>3</sup>
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 1

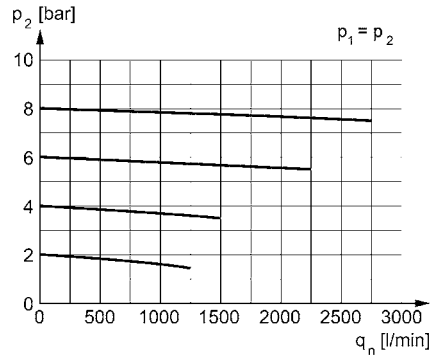
	Port	Qn	Condensate drain	Reservoir	Protective guard	Weight	Note	Part No.
		[l/min]				[kg]		
	G 1/4	720	fully automatic, open without pressure	Die cast zinc with window	-	0.886	-	0821303418
	G 1/4	720	fully automatic, open without pressure	Die cast zinc with window	-	0.886	-	0821303419
	G 1/2	720	semi-automatic, open without pressure	Polycarbonate	-	1.23	1)	<b>0821303514</b>
	G 1/2	1200	fully automatic, open without pressure	Die cast zinc with window	-	1.63	1)	<b>0821303516</b>
	G 1/2	720	semi-automatic, open without pressure	Polycarbonate	Steel	1.23	1)	<b>R412010794</b>
	G 1/2	720	semi-automatic, open without pressure	Die cast zinc with window	-	1.23	1)	R412010795
	G 1/2	720	fully automatic, open without pressure	Polycarbonate	-	1.29	1)	<b>0821303571</b>
	G 1/2	720	fully automatic, open without pressure	Polycarbonate	Steel	1.29	1)	<b>R412010796</b>
	G 1/2	720	fully automatic, open without pressure	Die cast zinc with window	-	1.29	1)	R412010797

1) Suitable for use in Ex zones 1, 2, 21, 22  
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 0,1 bar

## Microfilter, Series NL4-FLC

▶ G 1/4 - G 1/2 ▶ filter porosity: 0.01 μm

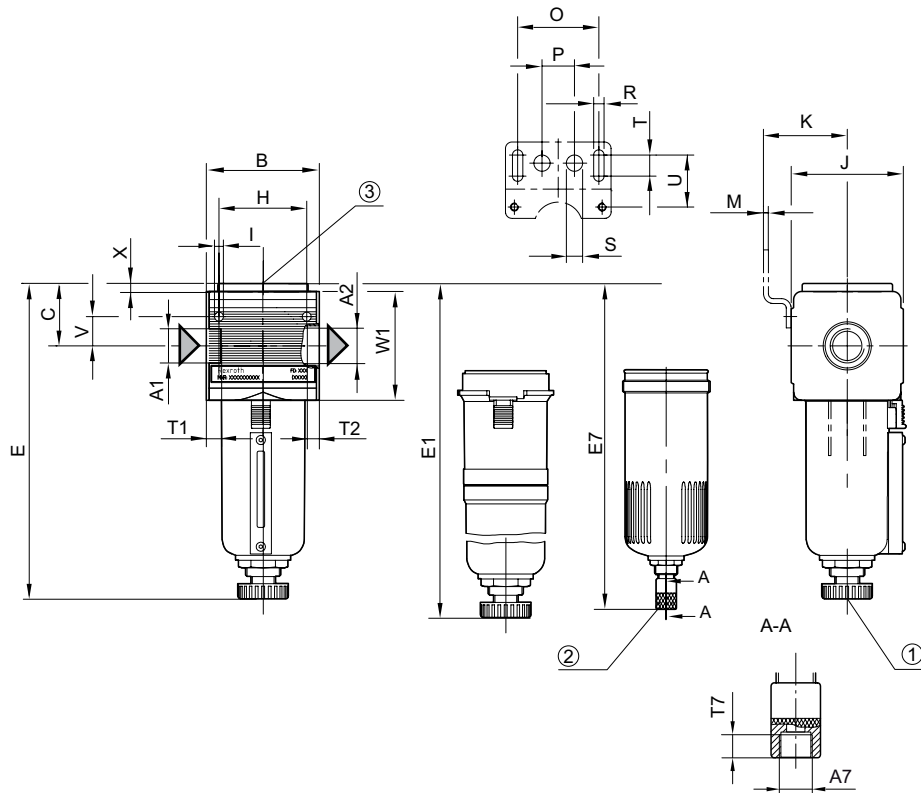
### Flow rate characteristic



00129811

p2 = secondary pressure  
qn = nominal flow

### Dimensions



00134020

- 1) semi-automatic condensate drain
- 2) fully automatic condensate drain
- 3) differential pressure gauge connection

A1	A2	A7	B	C	E	E1	E7	H	I	J	K	M	O
G 1/4	G 1/4	G 1/8	69.6	38.5	202	-	-	54	5.5	69	54.5	3	50
G 1/4	G 1/4	G 1/8	69.6	-	-	249	-	54	5.5	69	54.5	3	50
G 1/2	G 1/2	G 1/8	69.6	39.5	186	-	-	54	5.5	69	54.5	3	50

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

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**Preparation of compressed air ► Maintenance units and components**
**Microfilter, Series NL4-FLC**

► G 1/4 - G 1/2 ► filter porosity: 0.01 µm

A1	A2	A7	B	C	E	E1	E7	H	I	J	K	M	O
G 1/2	G 1/2	G 1/8	69.6	38.5	-	335	-	54	5.5	69	54.5	3	50
G 1/2	G 1/2	G 1/8	69.6	38.5	-	186	-	54	5.5	69	54.5	3	50
G 1/2	G 1/2	G 1/8	69.6	38.5	186	-	-	54	5.5	69	54.5	3	50
G 1/2	G 1/2	G 1/8	69.6	38.5	-	-	201	54	5.5	69	54.5	3	50

A1	P	R	S	T	T1	T2	T7	U	V	W1	X		
G 1/4	20	6.4	10	13	13	13	8.5	33	18	67	5		
G 1/4	20	6.4	10	13	13	13	8.5	33	18	67	-		
G 1/2	20	6.4	10	13	13	13	8.5	33	18	67	-		
G 1/2	20	6.4	10	13	13	13	8.5	33	18	67	5		
G 1/2	20	6.4	10	13	13	13	8.5	33	18	67	-		
G 1/2	20	6.4	10	13	13	13	8.5	33	18	67	-		
G 1/2	20	6.4	10	13	13	13	8.5	33	18	67	-		

### Active carbon filter, Series NL4-FLA

▶ G 1/4 - G 1/2



00108157

Version	Active carbon filter, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	0.5 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +60 °C
Ambient temperature min./max.	-10 °C / +60 °C
Filter reservoir volume	50 cm <sup>3</sup>
Filter element	exchangeable
Materials:	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Filter insert	Active carbon

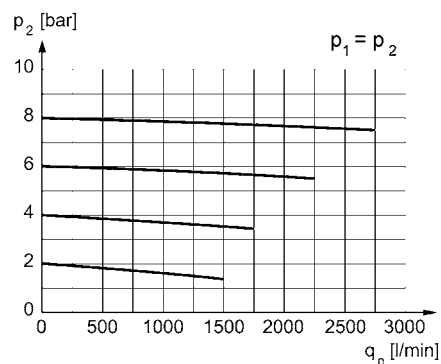
#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Recommended pre-filtering: 0.01 μm
- max. residual oil content at the outlet: 0.005 mg/m<sup>3</sup>
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 1

	Port	Qn [l/min]	Reservoir	Weight [kg]	Note	Part No.
	G 1/4	2250	Die cast zinc	0.836	-	0821303300
	G 1/4			0.836	-	0821303301
	G 1/2			1.58	1)	<b>0821303517</b>

1) Suitable for use in Ex zones 1, 2, 21, 22  
 Metal protective guard can be retrofitted for all polycarbonate reservoirs  
 Nominal flow Qn with secondary pressure p<sub>2</sub> = 6 bar at Δp = 0,1 bar

#### Flow rate characteristic



00129813

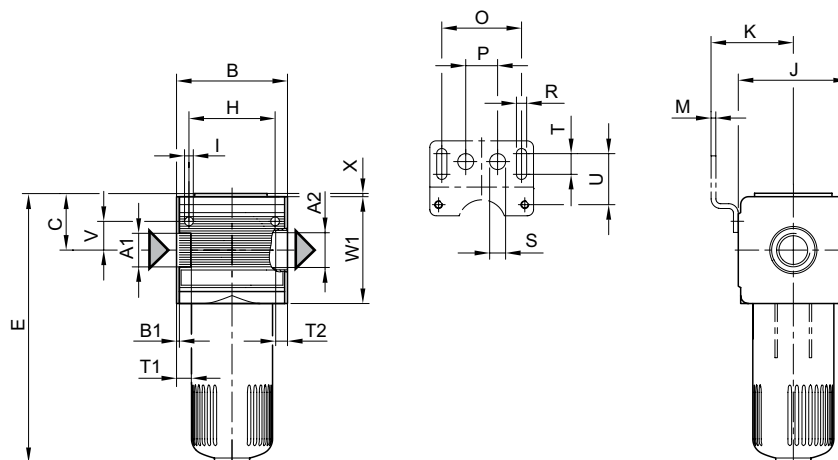
p<sub>2</sub> = secondary pressure  
 q<sub>n</sub> = nominal flow



## Active carbon filter, Series NL4-FLA

► G 1/4 - G 1/2

### Dimensions



00108164

A1	A2	B	B1	C	D	E	H	I	J	K	M	O	P
G 1/4	G 1/4	69.6	1.8	34.5	-	170	54	5.5	69	54.5	3	50	20
G 1/4	G 1/4	69.6	1.8	34.5	-	222	54	5.5	69	54.5	3	50	20
G 1/2	G 1/2	69.6	1.8	34.5	-	308	54	5.5	69	54.5	3	50	20

A1	R	S	T	T1	T2	U	V	W1	X				
G 1/4	6.4	10	13	13	13	33	18	67	1				
G 1/4	6.4	10	13	13	13	33	18	67	1				
G 1/2	6.4	10	13	13	13	33	18	67	1				

## Diaphragm-type dryer, Series NL4-ADD

► G 1/2 ► suitable for ATEX

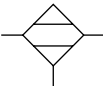


Version	Diaphragm-type dryer
Mounting orientation	vertical
Working pressure min./max.	4 bar / 12.5 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	+2 °C / +60 °C
Ambient temperature min./max.	+2 °C / +60 °C
Filter element	not exchangeable
Lowering pressure dew point	20 °C

Materials:	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Reservoir	Aluminum

### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Notice: air may not contain condensate
- purge air approx. 12% of nominal flow Qn
- Suitable for use in Ex zones 1, 2, 21, 22
- Recommended pre-filtering [µm]: 5 / 0.01 µm

	Port	Qn [l/min]	Reservoir	Weight [kg]	Note	Part No.
	G 1/2	500	Aluminum	4.43	1)	<b>R412007606</b>
		650		4.55		<b>R412007607</b>
		950		4.65		<b>R412007608</b>

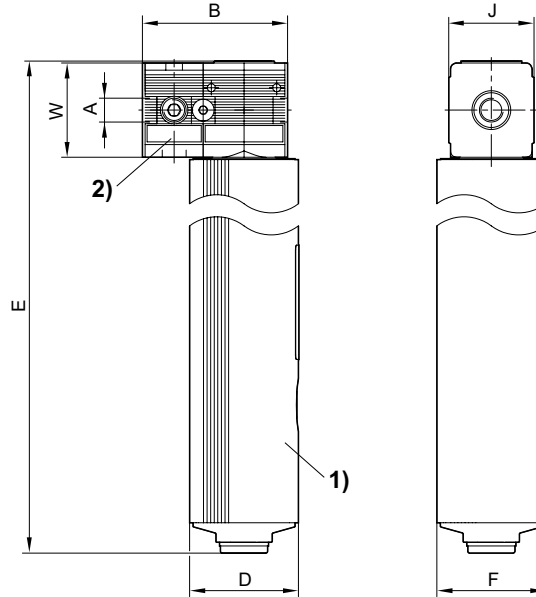
1) incl. distributor

Preparation of compressed air ► Maintenance units and components

**Diaphragm-type dryer, Series NL4-ADD**

► G 1/2 ► suitable for ATEX

Dimensions



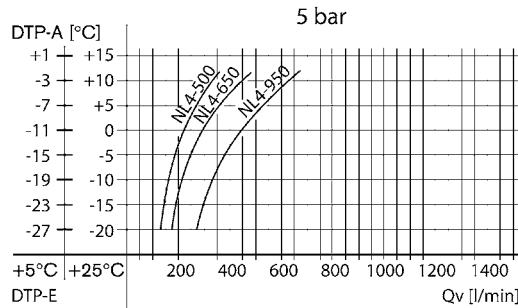
00127628

- 1) Diaphragm-type dryer
- 2) Distributor

Part No.	A	1)	B	D	E	F	J						
R412007606	G 1/2	13	106	80	518	80	69						
R412007607	G 1/2	13	106	80	569	80	69						
R412007608	G 1/2	13	106	80	638	80	69						

1) Min. usable thread depth

performance charts



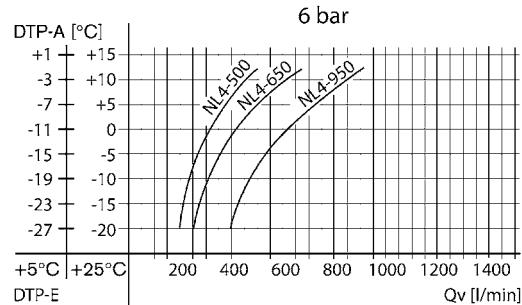
00127629

DTP-E: pressure dew point input  
 DTP-A: pressure dew point output  
 Qv: input flow rate (nominal flow rate Qn + purge air)  
 For different conditions, please contact the nearest AVENTICS sales office.

## Diaphragm-type dryer, Series NL4-ADD

► G 1/2 ► suitable for ATEX

### performance charts



00127631

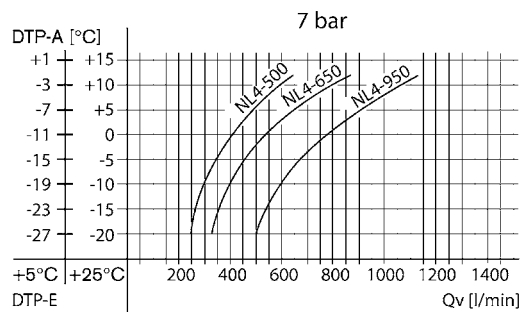
DTP-E: pressure dew point input

DTP-A: pressure dew point output

Qv: input flow rate (nominal flow rate Qn + purge air)

For different conditions, please contact the nearest AVENTICS sales office.

### performance charts



00127630

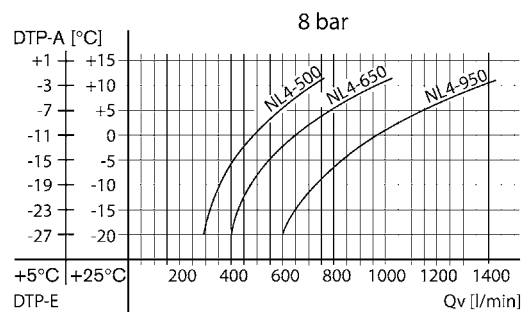
DTP-E: pressure dew point input

DTP-A: pressure dew point output

Qv: input flow rate (nominal flow rate Qn + purge air)

For different conditions, please contact the nearest AVENTICS sales office.

### performance charts



00127633

DTP-E: pressure dew point input

DTP-A: pressure dew point output

Qv: input flow rate (nominal flow rate Qn + purge air)

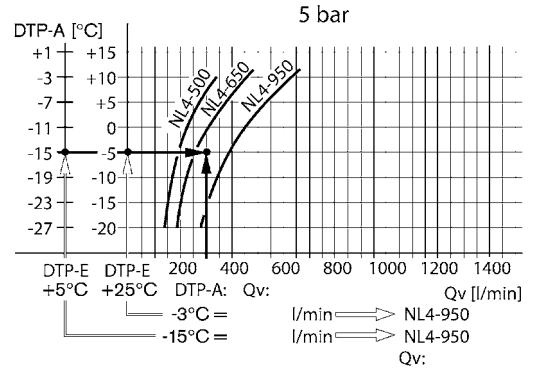
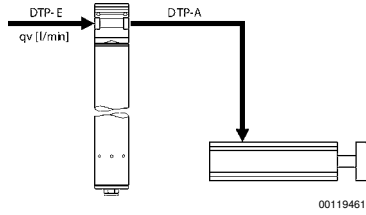
For different conditions, please contact the nearest AVENTICS sales office.

Preparation of compressed air ► Maintenance units and components

**Diaphragm-type dryer, Series NL4-ADD**

► G 1/2 ► suitable for ATEX

**Example**  
 given values:  $Q_n = 350$  l/min, DTP-E = +5 (+25) °C,  
 searched values: DTP-A = -15 (-3) °C a suitable membrane  
 dryer



00128204

Result: membrane dryer series NL4-950 (with a  $Q_v$  of 950 l/min), part no. R412007608

### Standard oil-mist lubricator, Series NL4-LBS

▶ G 1/2 - G 3/4 ▶ suitable for ATEX



00106915

Version	Oil-mist lubricator, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	0.5 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 °C / +60 °C
Ambient temperature min./max.	-10 °C / +60 °C
Type of filling	Manual oil filling
Oil type	HLP 32 (DIN 51 524 - ISO VG 32) HLP 68 (DIN 51 524 - ISO VG 68)
Materials:	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc

#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The entire preset drip quantity enters the pressure system
- Manual oil filling possible during operation
- Oil dosing at 1000 l/min [drops/min]: 1-2

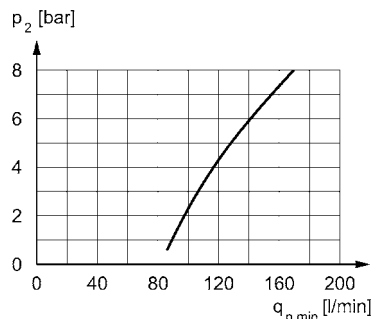
	Port	Qn	Lubricator res- ervoir volume	Reservoir	Protective guard	Weight	Note	Part No.
		[l/min]	[cm <sup>3</sup> ]			[kg]		
	G 1/2	6000	125	Polycarbonate	-	0.684	1)	<b>0821301500</b>
	G 1/2		125	Polycarbonate	Steel	0.776	1)	<b>0821301501</b>
	G 1/2		125	Die cast zinc with window	-	0.9	1)	<b>0821301502</b>
	G 1/2		116	Polycarbonate	-	0.725	2)	<b>0821301515</b>
	G 3/4		125	Polycarbonate	-	0.684	1)	<b>0821301540</b>
	G 3/4		125	Polycarbonate	Steel	0.776	1)	<b>0821301541</b>
	G 3/4		125	Die cast zinc with window	-	0.9	1)	<b>0821301542</b>
	G 3/4		116	Polycarbonate	-	0.725	2)	0821301545

1) Suitable for use in Ex zones 1, 2, 21, 22

2) Electrical level detection: with internal query

Nominal flow Qn with secondary pressure p<sub>2</sub> = 6 bar at Δp = 1 bar

#### minimum flow rate curve (flow rate necessary for the correct functioning of the lubricator)



00107155\_b

p<sub>2</sub> = secondary pressure; qnmin. = min. nominal flow

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

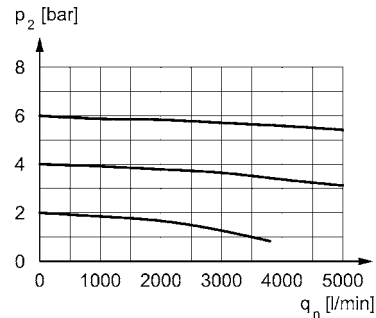
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## Preparation of compressed air ► Maintenance units and components

### Standard oil-mist lubricator, Series NL4-LBS

► G 1/2 - G 3/4 ► suitable for ATEX

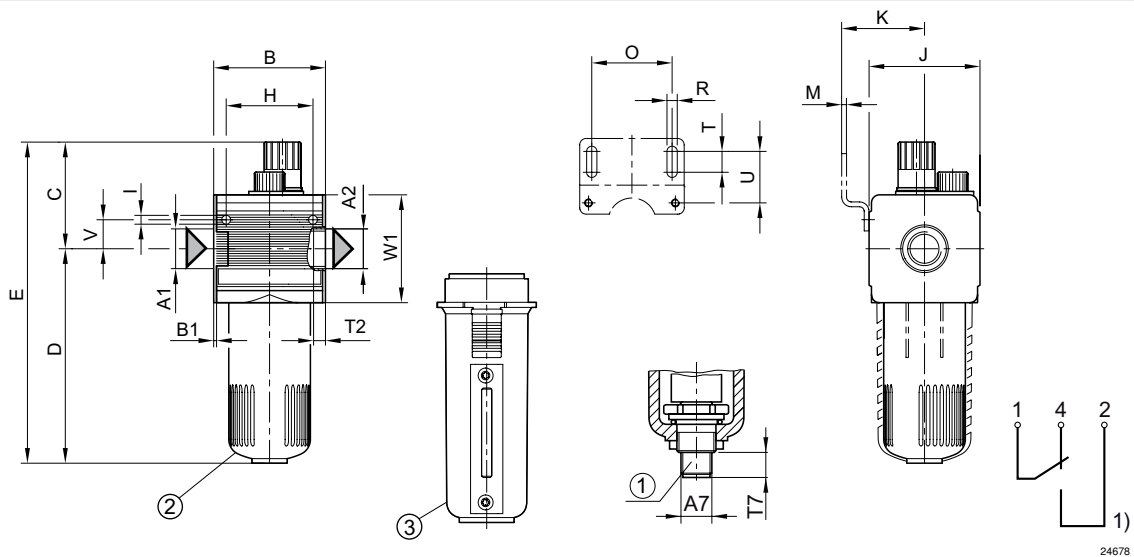
#### Flow rate characteristic



00107153\_b

p<sub>2</sub> = secondary pressure  
q<sub>n</sub> = nominal flow

#### Dimensions



24678

- 1) electrical level indicator
  - connection: 4-pin, M12x1
  - contact load: 50 V AC/0.5 A/5 W
  - type: 1 change-over contact (make contact/break contact) for min. fluid level
- 2) PC reservoir
- 3) Metal reservoir with level indicator

A1	A2	A7	B	B1	C	D	D2	E	F	H	I	J	K
G 1/2	G 1/2	M12x1	69.5	1.8	65	132	12	197	M12x1	54	5.5	67	54.5
G 3/4	G 3/4	M12x1	69.5	1.8	65	132	12	197	M12x1	54	5.5	67	54.5

A1	M	O	P	R	S	T	T2	T7	U	V	W1		
G 1/2	3	50	20	6.4	10	13	13	12	33	18	67		
G 3/4	3	50	20	6.4	10	13	13	12	33	18	67		

### Micro oil-mist lubricator, Series NL4-LBM

▶ G 1/2 ▶ G 1/2



00106915

Version	Micro oil-mist lubricator, Can be assembled into blocks
Mounting orientation	vertical
Working pressure min./max.	0.5 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Type of filling	Manual oil filling
Oil type	HLP 32 (DIN 51 524 - ISO VG 32) HLP 68 (DIN 51 524 - ISO VG 68)
Materials:	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- only approx. 10% of the preset drip quantity enters the compressed air system
- oil filling not possible during operation
- Oil dosing at 1000 l/min [drops/min]: 10-20

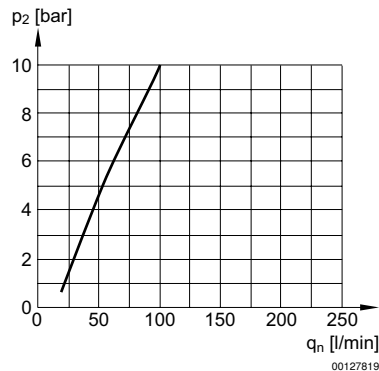
	Port	Qn [l/min]	Lubricator reservoir volume [cm³]	Reservoir	Protective guard	Note	Part No.
	G 1/2	4700	125	Polycarbonate	-	1)	<b>R412007654</b>
			125	Polycarbonate	Steel	1)	R412007655
			125	Die cast zinc with window	-	1)	R412007656
			125	Polycarbonate	-	2)	<b>R412007657</b>
			1000	Die cast zinc with window	-	2)	R412007658
			1500	Die cast zinc with window	-	2)	R412007659

1) Suitable for use in Ex zones 1, 2, 21, 22

2) Electrical level detection: with internal query

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

#### minimum flow rate curve (flow rate necessary for the correct functioning of the lubricator)



p2 = secondary pressure; qnmin. = min. nominal flow

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

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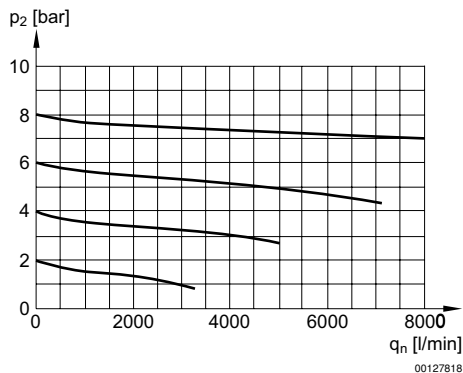


## Preparation of compressed air ► Maintenance units and components

### Micro oil-mist lubricator, Series NL4-LBM

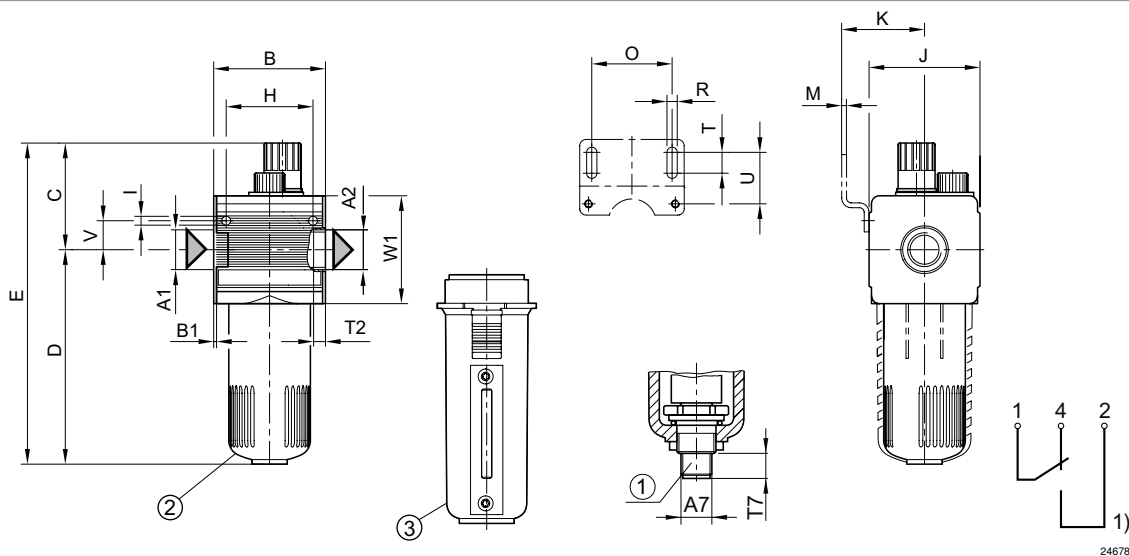
► G 1/2 ► G 1/2

#### Flow rate characteristic



p2 = secondary pressure  
qn = nominal flow

#### Dimensions



- 1) electrical level indicator  
 – connection: 4-pin, M12x1  
 – contact load: 50 V AC/0.5 A/5 W  
 – type: 1 change-over contact (make contact/break contact) for min. fluid level  
 electrical connector (M12x1) must be ordered separately
- 2) PC reservoir
- 3) Metal reservoir with inspection glass

A1	A2	A7	B	B1	C	D	E	H	I	J	K	M	O
G 1/2	G 1/2	M12x1	69.5	1.8	65	132	197	54	5.5	67	54.5	3	50
A1	P	R	S	T	T2	T7	U	V	W1				
G 1/2	20	6.4	10	13	13	12	33	18	67				

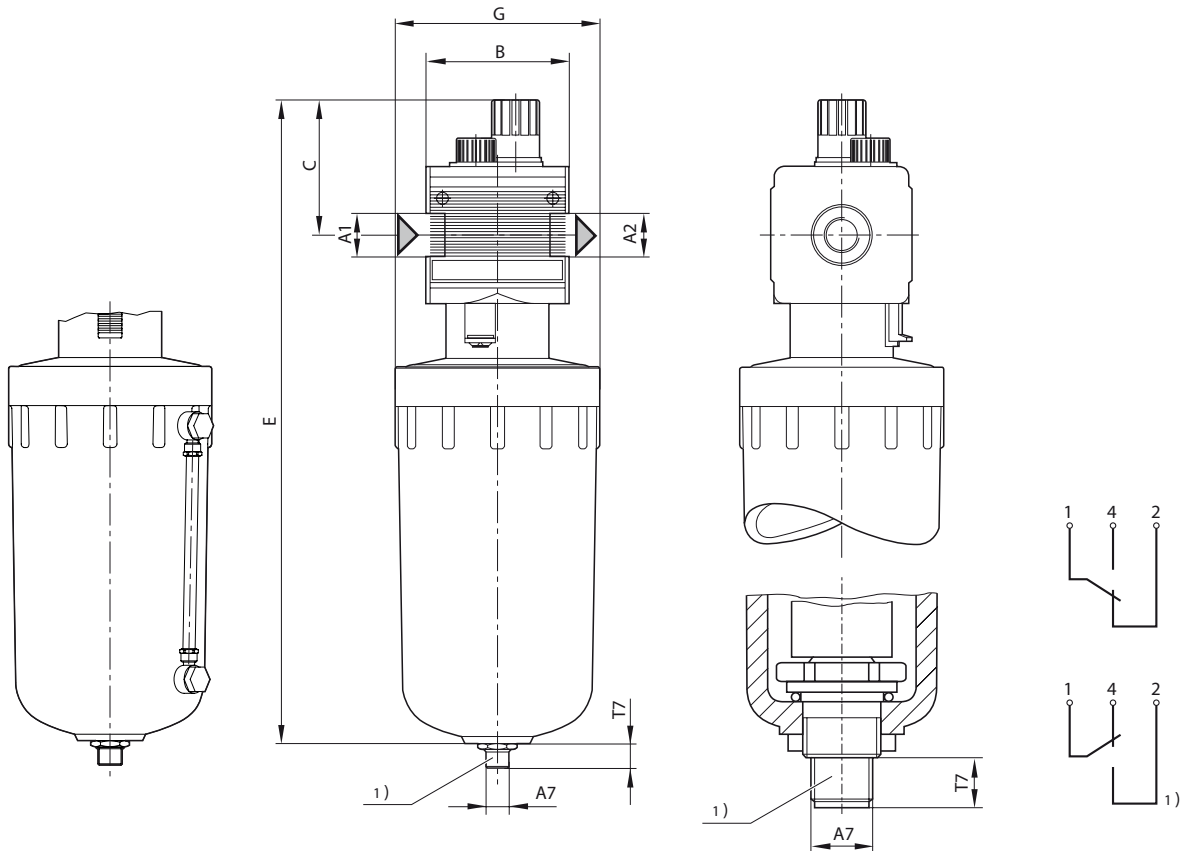
Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

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## Micro oil-mist lubricator, Series NL4-LBM

▶ G 1/2 ▶ G 1/2

### Metal reservoir



00127649\_b

1) electrical level indicator

– connection: 4-pin, M12x1

– contact load: 50 V AC/0.5 A/5 W

– type: 1 change-over contact (make contact/break contact) for min. fluid level  
electrical connector (M12x1) must be ordered separately

A1		A2	A7	B ±5	C ±5	E	G ±5	T7					
G 1/2	1 L	G 1/2	M12x1	69.6	66	315	Ø 100	12					
G 1/2	1,5 L	G 1/2	M12x1	69.6	66	415	Ø 100	12					

## Preparation of compressed air ► Maintenance units and components

### Filling unit, electrically operated, Series NL4-SSU

► ATEX optional ► G 1/2 ► pipe connection ► Electr. connection: Plug, ISO 6952, form B



00106026\_2

Parts	3/2-directional valve, electrically operated, Filling valve
Version	Poppet valve, Can be assembled into blocks
Nominal flow, 1►2	2500 l/min
Nominal flow, 2►3	1600 l/min
Working pressure min./max.	Protected against polarity reversal 3 bar / 10 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Pilot	internal
Sealing principle	Soft sealing
Max. particle size	5 µm
Protection class, with Plug Mounted	IP65
Duty cycle	100 %
Materials:	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene styrene
Threaded bushing	Die cast zinc

#### Technical Remarks

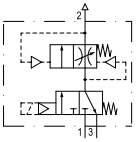
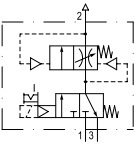

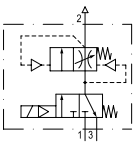
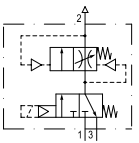
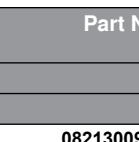
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.
- ATEX optional: The ATEX ID depends on the selected ATEX coil.
- Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.

Operating voltage			Power consumption	Switch-on power		Holding power
DC	AC 50 Hz	AC 60 Hz		DC	AC 50 Hz	
			W	VA	VA	
24 V	-	-	4.8	-	-	
-	230 V	230 V	-	11.8	8.5	

	MO	Compressed air connection			Operating voltage			Power consumption	Hold- ing pow- er	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz			
								[W]	[VA]	
	-	G 1/2	G 1/2	G 1/2	24 V	-	-	4.8	-	<b>0821300950</b>
	-	G 1/2	G 1/2	G 1/2	-	230 V	230 V	-	8.5	0821300951

**Filling unit, electrically operated, Series NL4-SSU**

▶ ATEX optional ▶ G 1/2 ▶ pipe connection ▶ Electr. connection: Plug, ISO 6952, form B

	MO	Compressed air connection			Operating voltage			Power consumption		Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	
								[W]	[VA]	
	-	G 1/2	G 1/2	G 1/2	-	-	-	-	-	<b>0821300952</b>
		G 1/2	G 1/2	G 1/2	-	-	-	-	-	<b>0821300953</b>
	-	G 1/2	G 1/2	G 1/2	24 V	-	-	4.8	-	<b>0821300955</b>
	-	G 1/2	G 1/2	G 1/2	-	230 V	230 V	-	8.5	0821300956
	-	G 1/2	G 1/2	G 1/2	-	-	-	-	-	0821300957

Part No.	Switch-on power	Weight	Note
	AC 50 Hz		
	[VA]		
<b>0821300950</b>	-	1.74	1); 4)
0821300951	11.8		
<b>0821300952</b>	-	1.7	1); 3)
<b>0821300953</b>	-	1.84	1); 3)
<b>0821300955</b>	-	1.74	2); 4)
0821300956	11.8		
0821300957	-	1.7	2); 3)

1) adjustable filling

2) Filling with fixed diaphragm

3) pilot valve without coil

4) Connector standard: ISO 6952

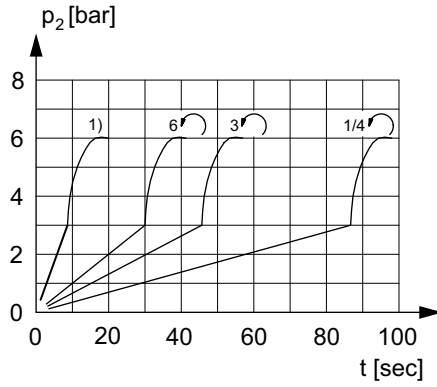
Nominal flow Q<sub>n</sub> with secondary pressure p<sub>2</sub> = 6 bar at Δp = 1 bar

Preparation of compressed air ► Maintenance units and components

**Filling unit, electrically operated, Series NL4-SSU**

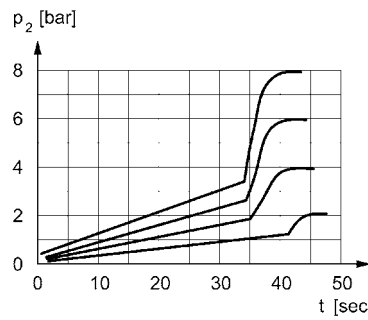
► ATEX optional ► G 1/2 ► pipe connection ► Electr. connection: Plug, ISO 6952, form B

Secondary pressure while filling



00107183

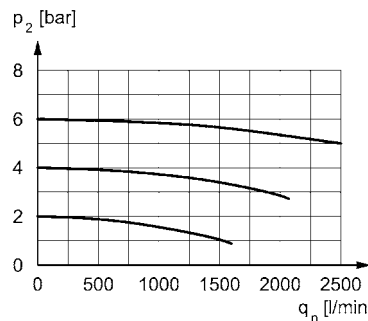
adjustable filling  
1) Fully opened  
p2 = secondary pressure  
t = fill time



00107185\_a

Filling with fixed diaphragm  
p2 = secondary pressure  
t = fill time

Flow rate characteristic



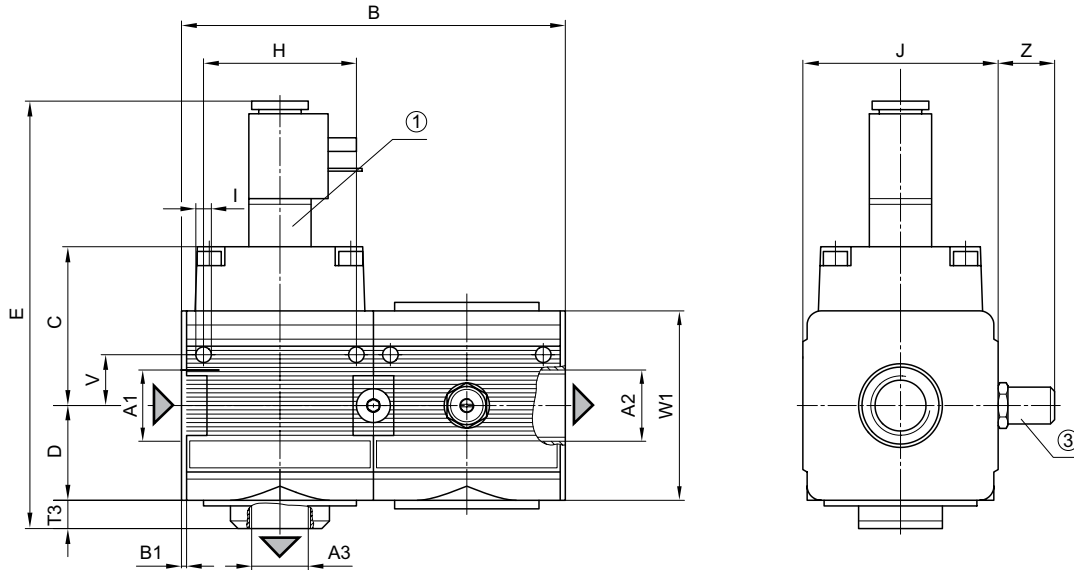
00107187\_b

p2 = secondary pressure  
qn = nominal flow

### Filling unit, electrically operated, Series NL4-SSU

▶ ATEX optional ▶ G 1/2 ▶ pipe connection ▶ Electr. connection: Plug, ISO 6952, form B

#### Dimensions



00105930\_m

- 1) electrically operated  
 3) Adjustment screw for filling time  
 A1 = input  
 A2 = output  
 A3 = ventilation port

A1	A2	A3	B	B1	C	D	E	H	I	J	T3	W1	Z
G 1/2	G 1/2	G 1/2	135.6	1.8	56.5	33.5	151	54	5.5	69	10	52	20
G 1/2	G 1/2	G 1/2	135.6	1.8	56.5	33.5	151	54	5.5	69	10	52	-

## Preparation of compressed air ▶ Maintenance units and components

### Filling unit, pneumatically operated, Series NL4-SSU

▶ G 1/2 ▶ pipe connection ▶ suitable for ATEX



00106902

Parts	3/2-directional valve, pneumatically operated, Filling valve
Version	Poppet valve, Can be assembled into blocks
Working pressure min./max.	0 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Pilot	internal
Sealing principle	Soft sealing
Control pressure min./max.	3 bar / 16 bar
Max. particle size	5 μm
Materials:	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc

#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.
- Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.
- Suitable for use in Ex zones 1, 2, 21, 22

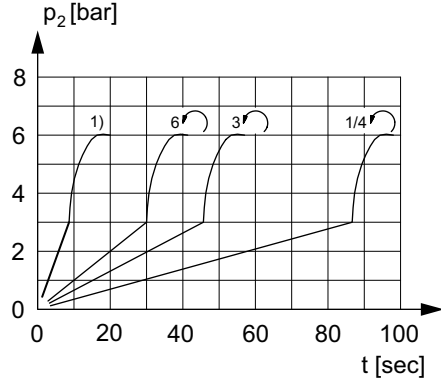
	Port	Exhaust	Qn		Weight	Note	Part No.
			1▶2	2▶3			
			[l/min]		[kg]		
	G 1/2	G 1/2	2500	1600	1.69	1)	<b>0821300949</b>
	G 1/2	G 1/2	2500	1600	1.69	2)	<b>0821300954</b>

1) adjustable filling  
2) Filling with fixed diaphragm  
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

**Filling unit, pneumatically operated, Series NL4-SSU**

▶ G 1/2 ▶ pipe connection ▶ suitable for ATEX

**Secondary pressure while filling**



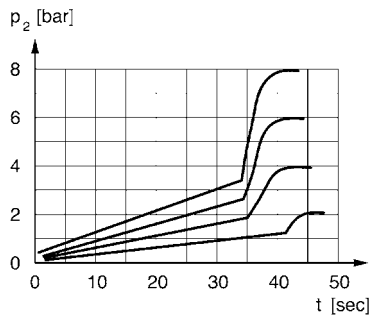
00107183

adjustable filling

1) Fully opened

p2 = secondary pressure

t = fill time



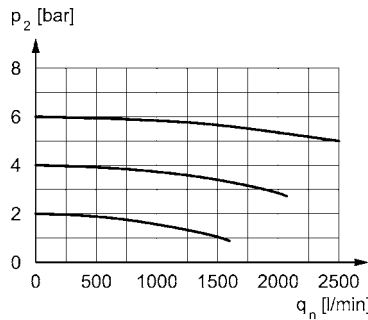
00107185

Filling with fixed diaphragm

p2 = secondary pressure

t = fill time

**Flow rate characteristic**



00107187\_b

p2 = secondary pressure

qn = nominal flow

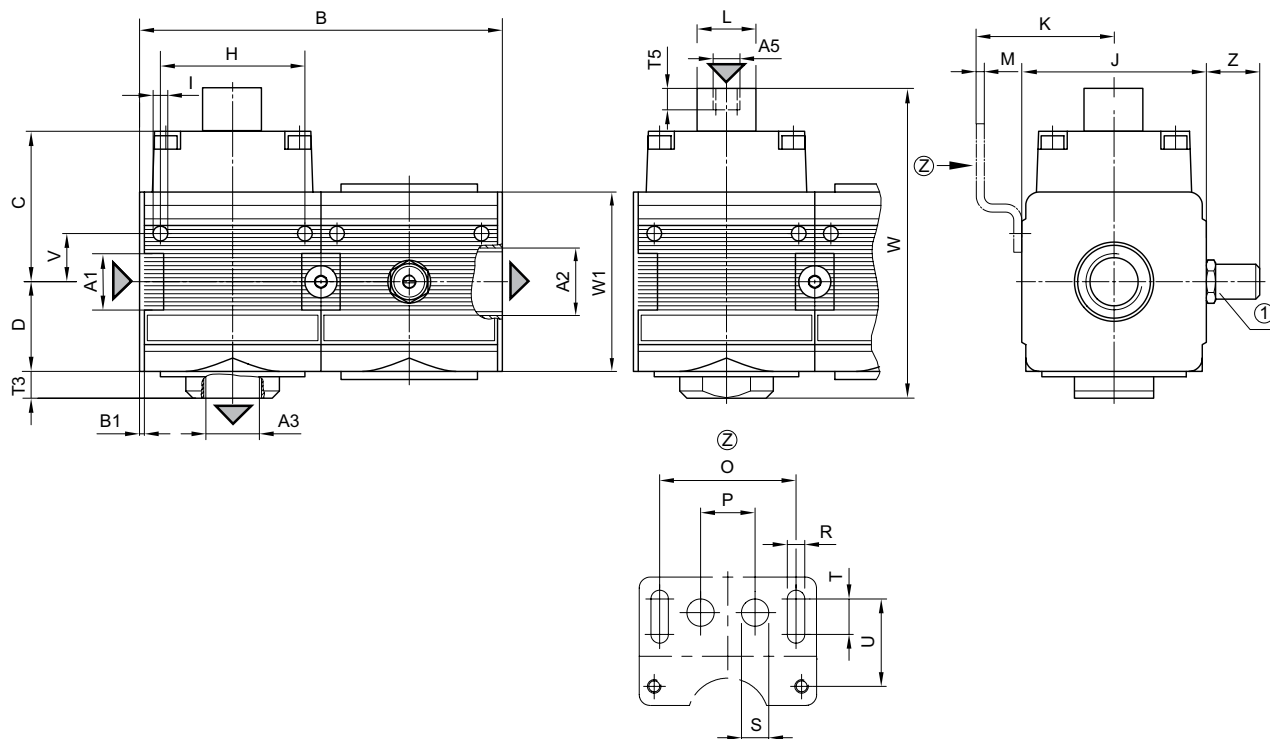


## Preparation of compressed air ► Maintenance units and components

### Filling unit, pneumatically operated, Series NL4-SSU

► G 1/2 ► pipe connection ► suitable for ATEX

#### Dimensions



1) Adjustment screw for filling time

A1 = input

A2 = output

A3 = ventilation port

A5 = control pressure connection

00128487

A1	A2	A3	A5	B	B1	C	D	H	I	J	K	L	M
G 1/2	G 1/2	G 1/2	G 1/8	135.6	1.8	56.5	33.5	54	5.5	69	54.5	22	3
G 1/2	G 1/2	G 1/2	G 1/8	135.6	1.8	56.5	33.5	54	5.5	69	54.5	22	3

A1	O	P	R	S	T	T3	T5	U	V	W	W1	Z
G 1/2	50	20	6.4	20	10	10	13	27.5	12.3	96	52	20
G 1/2	50	20	6.4	20	10	10	13	27.5	12.3	96	52	-

### Filling valve, pneumatically operated, Series NL4-SSV

▶ G 1/2 ▶ pipe connection ▶ suitable for ATEX

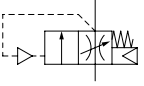
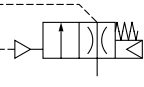


00106024

Version	Poppet valve, Can be assembled into blocks
Working pressure min./max.	0 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Sealing principle	Soft sealing
Control pressure min./max.	3 bar / 16 bar
Max. particle size	5 µm
Materials:	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Threaded bushing	Die cast zinc

#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.
- Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.
- Suitable for use in Ex zones 1, 2, 21, 22

	Port	Qn [l/min]	Weight [kg]	Note	Part No.
	G 1/2	4000	0.76	1)	<b>0821300936</b>
	G 1/2	4000	0.685	2)	<b>0821300935</b>

1) adjustable filling

2) Filling with fixed diaphragm

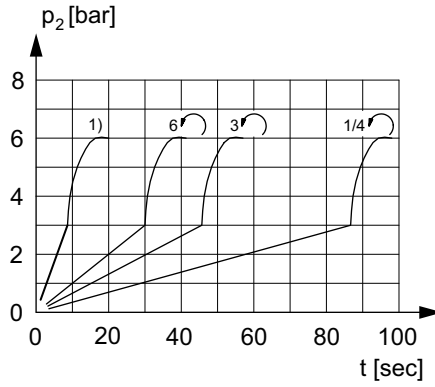
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Preparation of compressed air ▶ Maintenance units and components

**Filling valve, pneumatically operated, Series NL4-SSV**

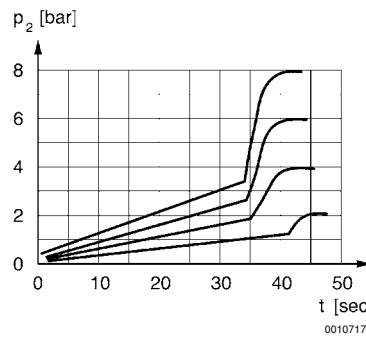
▶ G 1/2 ▶ pipe connection ▶ suitable for ATEX

Secondary pressure while filling



00107183

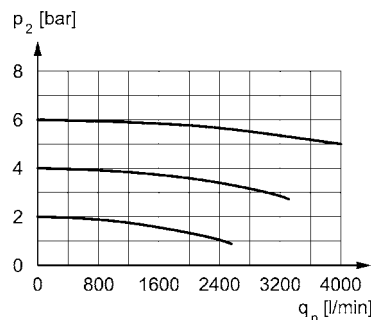
adjustable filling  
 $p_2$  = secondary pressure  
 $t$  = fill time



00107174

Filling with fixed diaphragm  
 $p_2$  = secondary pressure  
 $t$  = fill time

Flow rate characteristic



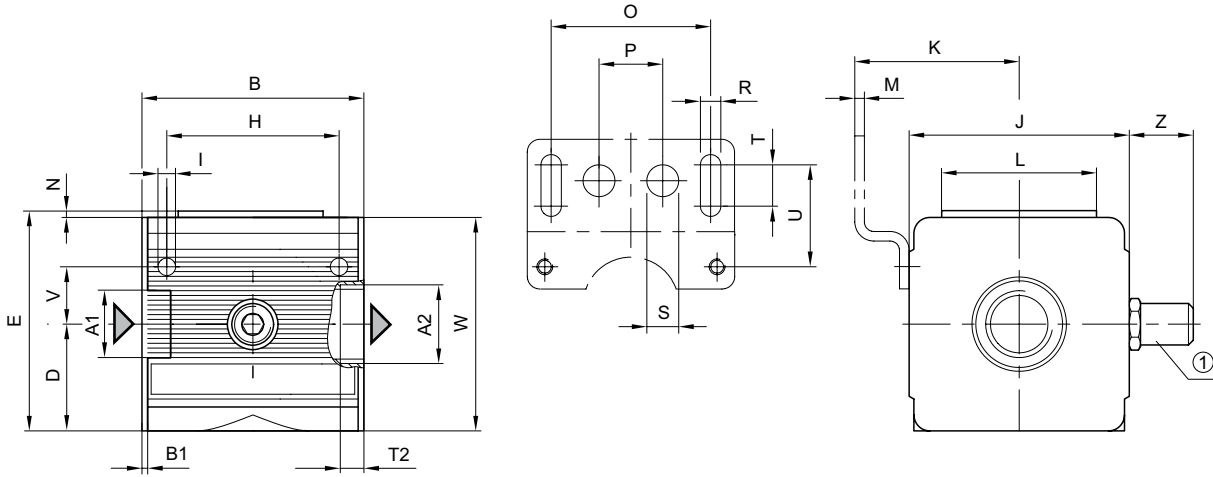
00107175\_b

$p_2$  = secondary pressure  
 $q_n$  = nominal flow

## Filling valve, pneumatically operated, Series NL4-SSV

▶ G 1/2 ▶ pipe connection ▶ suitable for ATEX

### Dimensions



00106029

1) Adjustment screw for filling time

A1 = input

A2 = output

A1	A2	B	B1	D	E	H	I	J	K	L	M	N	O
G 1/2	G 1/2	69.6	1.8	36.5	73	54	5.4	69	54.5	48	3	3	50
G 1/2	G 1/2	69.6	1.8	36.5	73	54	5.4	69	54.5	48	3	3	50
A1	P	R	S	T	T2	U	V	W	Z				
G 1/2	20	6.4	10	13	13	33	18	67	20				
G 1/2	20	6.4	10	13	13	33	18	67	-				

## Preparation of compressed air ► Maintenance units and components

### 3/2-directional valve, electrically operated, Series NL4-SOV

► ATEX optional ► G 1/2 ► pipe connection ► Electr. connection: Plug, ISO 6952, form B



00106022\_2

Version	Poppet valve, Can be assembled into blocks
Nominal flow, 1►2	4000 l/min
Nominal flow, 2►3	1600 l/min
	Protected against polarity reversal
Working pressure min./max.	3 bar / 10 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Pilot	internal
Sealing principle	Soft sealing
Max. particle size	5 µm
Protection class, with Plug Mounted	IP65
Duty cycle	100 %
<b>Materials:</b>	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene styrene

#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- ATEX optional: The ATEX ID depends on the selected ATEX coil.

Operating voltage			Power consumption	Switch-on power	Holding power
DC	AC 50 Hz	AC 60 Hz			
			W	VA	VA
24 V	-	-	4.8	-	-
-	230 V	230 V	-	11.8	8.5

	MO	Compressed air connection			Operating voltage			Power consumption	Holding power	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz			
									[W]	
	-	G 1/2	G 1/2	G 1/2	24 V	-	-	4.8	-	<b>0821300932</b>
					-	230 V	230 V	-	8.5	<b>0821300933</b>
	-	G 1/2	G 1/2	G 1/2	-	-	-	-	-	<b>0821300934</b>
					-	-	-	-	-	-
		G 1/2	G 1/2	G 1/2	-	-	-	-	-	<b>0821300937</b>
					-	-	-	-	-	-

### 3/2-directional valve, electrically operated, Series NL4-SOV

▶ ATEX optional ▶ G 1/2 ▶ pipe connection ▶ Electr. connection: Plug, ISO 6952, form B

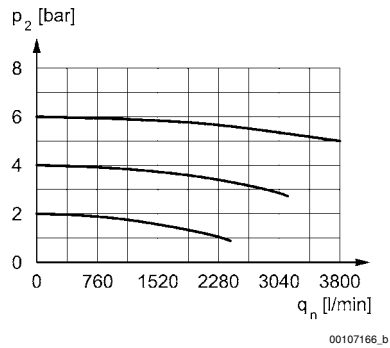
Part No.	Switch-on power AC 50 Hz [VA]	Weight [kg]	Note
<b>0821300932</b>	-	1.05	2)
<b>0821300933</b>	11.8	1.09	1)
<b>0821300934</b>	-	1.05	1)

1) pilot valve without coil

2) Connector standard: ISO 6952

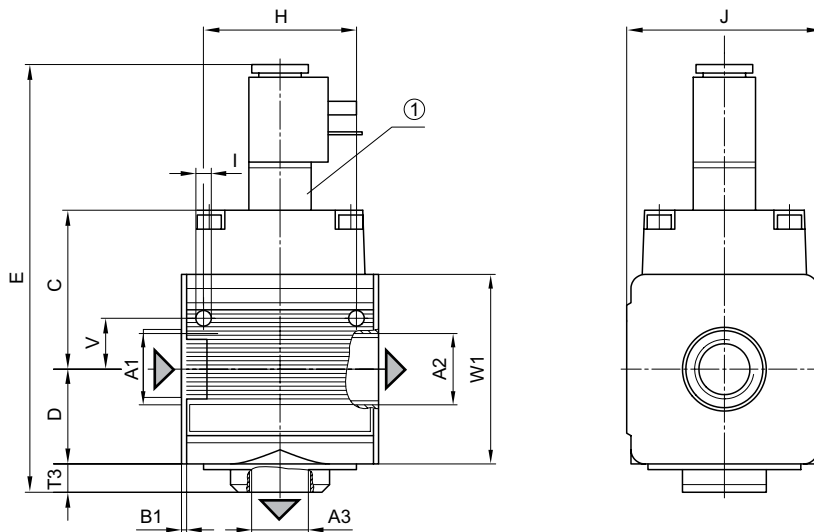
Nominal flow  $Q_n$  with secondary pressure 6 bar at  $\Delta p = 1$  bar

#### Flow rate characteristic



$p_2$  = secondary pressure  
 $q_n$  = nominal flow

#### Dimensions



00106028\_m

1) electrically operated

Preparation of compressed air ▶ Maintenance units and components

**3/2-directional valve, electrically operated, Series NL4-SOV**

▶ ATEX optional ▶ G 1/2 ▶ pipe connection ▶ Electr. connection: Plug, ISO 6952, form B

A1	A2	A3	B1	C	D	E	H	I	J	T3	W1		
G 1/2	G 1/2	G 1/2	1.8	56.5	33.5	151	54	5.5	69	10	67		

**3/2-directional valve, pneumatically operated, Series NL4-SOV**

► G 1/2 ► pipe connection ► suitable for ATEX

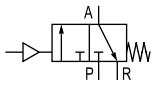


00106899

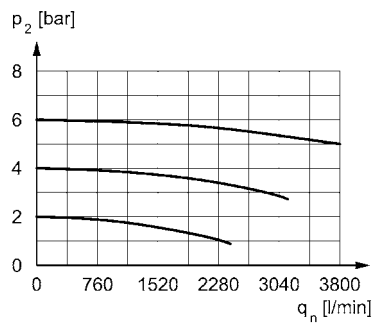
Version	Poppet valve, Can be assembled into blocks
Working pressure min./max.	0 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Sealing principle	Soft sealing
Control pressure min./max.	3 bar / 16 bar
Materials:	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Suitable for use in Ex zones 1, 2, 21, 22

	Port	Exhaust	Qn		Weight	Part No.
			1 ► 2	2 ► 3		
			[l/min]		[kg]	
	G 1/2	G 1/2	4000	1600	1	<b>0821300931</b>

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

**Flow rate characteristic**

00107166\_b

p2 = secondary pressure  
qn = nominal flow

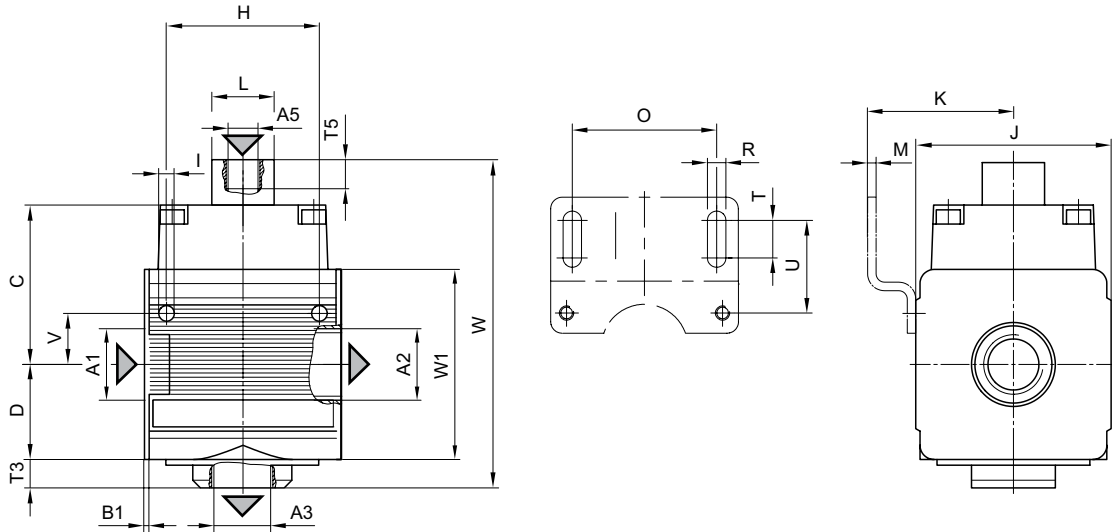


Preparation of compressed air ► Maintenance units and components

**3/2-directional valve, pneumatically operated, Series NL4-SOV**

► G 1/2 ► pipe connection ► suitable for ATEX

**Dimensions**



00128486

A1 = input  
 A2 = output  
 A3 = ventilation port  
 A5 = control pressure connection

A1	A2	A3	A5	B1	C	D	F	H	I	J	K	L	M
G 1/2	G 1/2	G 1/2	G 1/8	1.8	56.5	33.5	10	54	5.5	69	54.4	22	3
A1	O	R	T	T1	T5	U	V	W	W1				
G 1/2	50	6.4	13	1.8	13	33	18	116	67				

### 3/2-shut-off valve, mechanically operated, Series NL4-BAV

► G 1/2 - G 3/4 ► suitable for ATEX

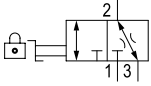


00106897

Version	Ball valve for padlocks lockable
Working pressure min./max. Medium	0 bar / 16 bar Compressed air Neutral gases
Medium temperature min./max. Ambient temperature min./max.	-10 °C / +60 °C -10 °C / +60 °C
Actuating element+	rotary switch
Sealing principle	metal/metal sealing
Materials:	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber
Actuating element+	Polyoxymethylene

#### Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Suitable for use in Ex zones 1, 2, 21, 22

	Port	Exhaust	Qn		Weight	Part No.
			1 ► 2	2 ► 3		
			[l/min]		[kg]	
	G 1/2					<b>0821300911</b>
	G 3/4	G 1/2	11000	110	0.82	<b>0821300913</b>

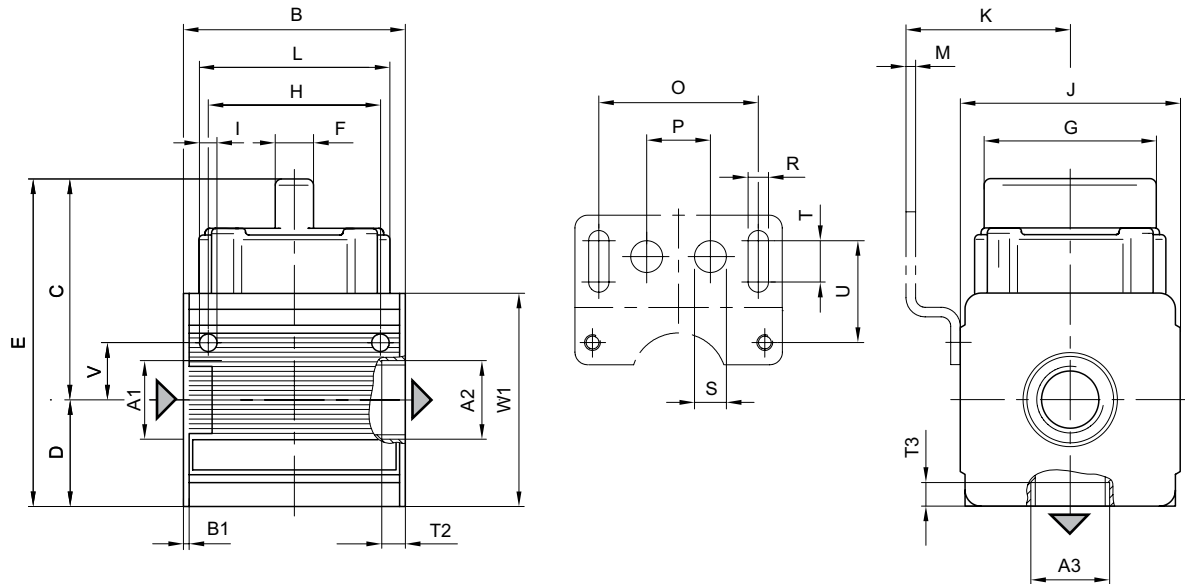
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

## Preparation of compressed air ► Maintenance units and components

### 3/2-shut-off valve, mechanically operated, Series NL4-BAV

► G 1/2 - G 3/4 ► suitable for ATEX

#### Dimensions



A1 = input  
 A2 = output  
 A3 = ventilation port

00108170

A1	A2	A3	B	B1	C	D	E	F	H	G	I	J	K
G 1/2	G 1/2	G 1/2	69.6	1.8	69.5	33.5	103	12	54	60	5.5	69	54.5
G 3/4	G 3/4	G 1/2	69.6	1.8	69.5	33.5	103	12	54	60	5.5	69	54.5

A1	L	M	O	P	R	S	T	T2	T3	U	V	W1
G 1/2	60	3	38	20	6.4	10	13	10.5	10.5	33	18	67
G 3/4	60	3	50	20	6.4	10	13	10.5	10.5	33	18	67

### Distributor, Series NL4-DIL

▶ G 1/2 ▶ Distributor 4x ▶ Narrow distributor ▶ suitable for ATEX




00106918

Version	Narrow distributor, Can be assembled into blocks
Mounting orientation	Any
Working pressure min./max.	0 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Materials:	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene

#### Technical Remarks

- Suitable for direct mounting of a PE1 and PM1 series pressure sensor (flange version)
- Suitable for use in Ex zones 1, 2, 21, 22

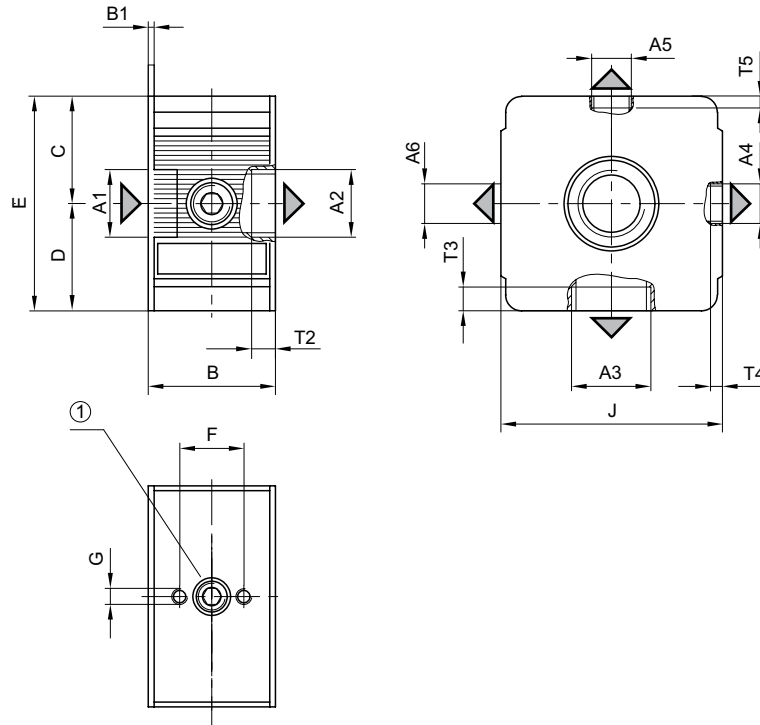
	Port	Qn					Weight	Part No.
		1▶2	1▶3	1▶4	1▶5	1▶6		
		[l/min]					[kg]	
	G 1/2	11000	8750	1340	8750	1340	0.4	<b>0821300930</b>
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar								

## Preparation of compressed air ► Maintenance units and components

### Distributor, Series NL4-DIL

► G 1/2 ► Distributor 4x ► Narrow distributor ► suitable for ATEX

#### Dimensions



1) hole pattern for mechanical vacuum/pressure switch

00107308

A1	A2	A3	A4	A5	A6	B	B1	C	D	E	F	G	J
G 1/2	G 1/2	G 3/8	G 1/4	G 1/8	G 1/4	39.6	1.8	33.5	33.5	67	20	M5	69
A1	T2	T3	T4	T5									
G 1/2	14	10.5	7	8									

### Distributor, Series NL4-DIS

▶ G 1/2 - G 3/4 ▶ Distributor 4x ▶ Distributor ▶ suitable for ATEX



00106919

Version	Distributor, Can be assembled into blocks
Mounting orientation	Any
Working pressure min./max.	0 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Materials:	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene

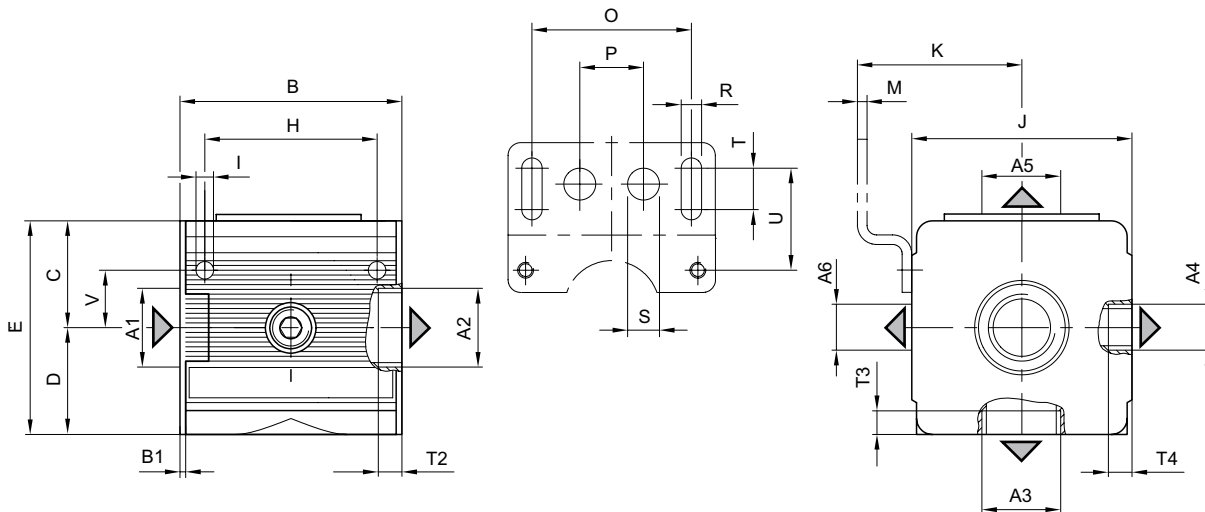
#### Technical Remarks

- Suitable for use in Ex zones 1, 2, 21, 22

	Port	Qn					Weight	Part No.
		1▶2	1▶3	1▶4	1▶5	1▶6		
		[l/min]					[kg]	
	G 1/2						0.682	<b>0821300917</b>
	G 3/4	11000	8750	1340	8750	1340		<b>0821300919</b>

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

#### Dimensions



00107309

A1	A2	A3	A4	A5	A6	B	B1	C	D	E	H	I	J
G 1/2	G 1/2	G 1/2	G 1/4	G 1/2	G 1/4	69.6	1.8	33.5	33.5	67	54	5.5	69
G 3/4	G 3/4	G 1/2	G 1/4	G 1/2	G 1/4	69.6	1.8	33.5	33.5	67	54	5.5	69

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

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Preparation of compressed air ▶ Maintenance units and components

**Distributor, Series NL4-DIS**

▶ G 1/2 - G 3/4 ▶ Distributor 4x ▶ Distributor ▶ suitable for ATEX

A1	K	M	O	P	R	S	T	T2	T3	T4	U	V
G 1/2	54.5	3	50	20	6.4	10	13	13	7.5	9	33	18
G 3/4	54.5	3	50	20	6.4	10	13	13	7.5	9	33	18

### Distributor, Series NL4-DIN

▶ G 1/2 - G 3/4 ▶ Distributor 4x ▶ Non-return valve



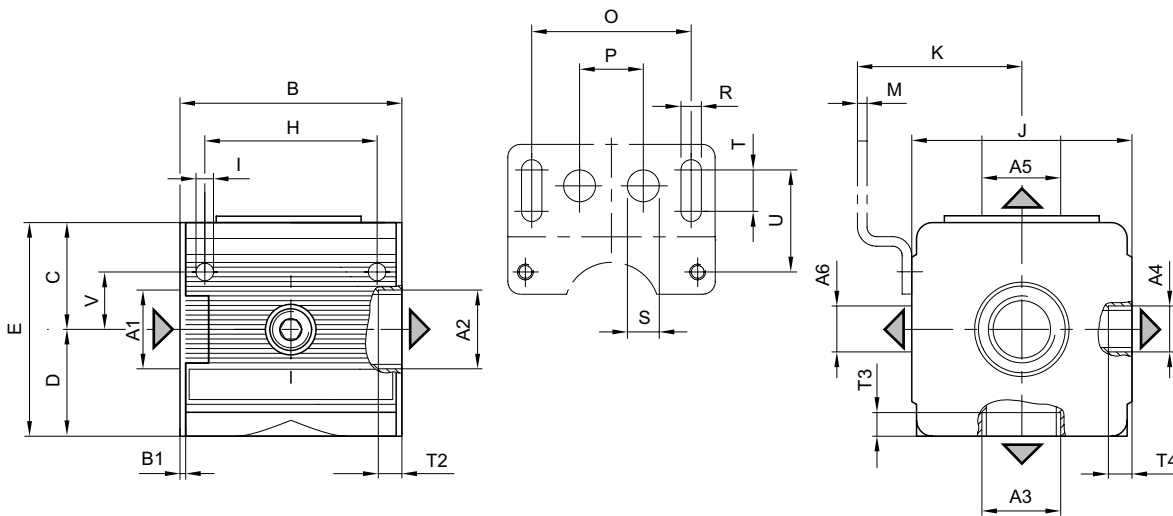
00106919

Version	Non-return valve, Can be assembled into blocks
Mounting orientation	Any
Working pressure min./max.	0.1 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Materials:	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile Butadiene Rubber

	Port	Port				Qn 1▶6	Weight	Note	Part No.
		1▶2	1▶3	1▶4	1▶5				
		[l/min]				[kg]			
	G 1/2							-	<b>0821300914</b>
	G 3/4	2400	2400	1020	2400	1020	0.682	1)	<b>0821300916</b>

1) Suitable for use in Ex zones 1, 2, 21, 22  
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

### Dimensions



00107306

A1	A2	A3	A4	A5	A6	B	B1	C	D	E	H	I	J
G 1/2	G 1/2	G 1/2	G 1/4	G 1/2	G 1/4	69.6	1.8	33.5	33.5	67	54	5.5	69
G 3/4	G 3/4	G 1/2	G 1/4	G 1/2	G 1/4	69.6	1.8	33.5	33.5	67	54	5.5	69

A1	K	M	O	P	R	S	T	T2	T3	T4	U	V
G 1/2	54.5	3	50	20	6.4	10	13	13	7.5	9	33	18
G 3/4	54.5	3	50	20	6.4	10	13	13	7.5	9	33	18



## Preparation of compressed air ▶ Maintenance units and components

### Distributor, Series NL4-DIC

▶ G 3/4 ▶ Distributor 2x ▶ Center infeed ▶ suitable for ATEX



00107223

Version  
 Mounting orientation  
 Working pressure min./max.  
 Medium  
 Medium temperature min./max.  
 Ambient temperature min./max.

Materials:  
 Housing  
 Front plate

Center infeed, Can be assembled into blocks  
 Any  
 0 bar / 16 bar  
 Compressed air  
 Neutral gases  
 -10°C / +60°C  
 -10°C / +60°C

Die cast zinc  
 Acrylonitrile butadiene styrene

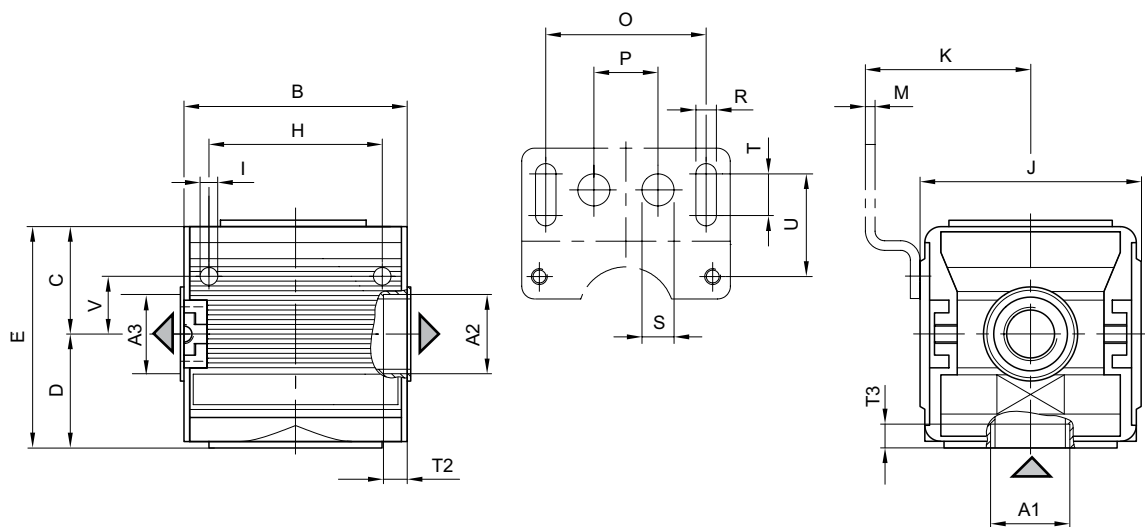
#### Technical Remarks

- Suitable for use in Ex zones 1, 2, 21, 22

	Port	Qn		Weight	Part No.
		1 ▶ 2	1 ▶ 3		
		[l/min]			
	G 3/4	11000	11000	0.593	<b>0821300928</b>

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

#### Dimensions



00107310

A1	A2	A3	B	C	D	E	H	I	J	K	M	O	P
G 3/4	G 1/2	G 1/2	66	35.5	35.5	71	54	5.5	69	54.5	3	50	20
A1	R	S	T	T2	T3	U	V						
G 3/4	6.4	10	13	13	10.5	33	18						

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

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## Series NL4 Accessories

### Reservoir, Series NL4-CLS, NL6-CLS

► For filter - filter pressure regulator ► Material: Polycarbonate, Die cast zinc ► with window ► suitable for ATEX



00108146

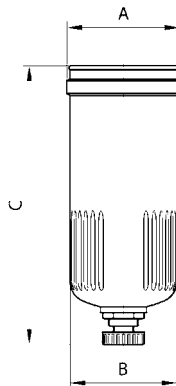
Version	Reservoir
Ambient temperature min./max.	-10°C / +60°C
Medium temperature min./max.	-10°C / +60°C
Working pressure min./max.	2 bar - 16 bar
Medium	Compressed air
Filter reservoir volume	50 cm <sup>3</sup>

Materials:	
Seal	Acrylonitrile Butadiene Rubber

Condensate drain	Reservoir	Weight [kg]	Fig.	Part No.
semi-automatic, open without pressure	Polycarbonate	0.17	Fig. 1	<b>1827009337</b>
	Die cast zinc, with window	0.55	Fig. 2	<b>1827009343</b>
fully automatic, open without pressure	Polycarbonate	0.2	Fig. 3	<b>1827009338</b>
	Die cast zinc, with window	0.56	Fig. 4	<b>1827009344</b>

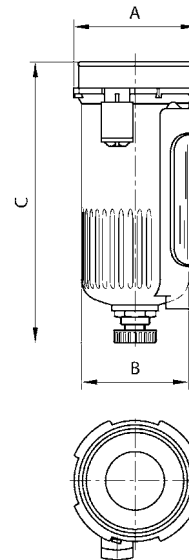
Suitable for use in Ex zones 1, 2, 21, 22

Fig. 1



00112015\_1

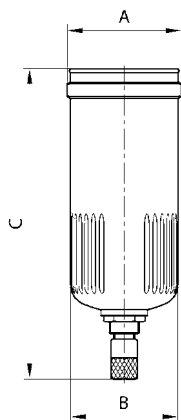
Fig. 2



00112015\_2

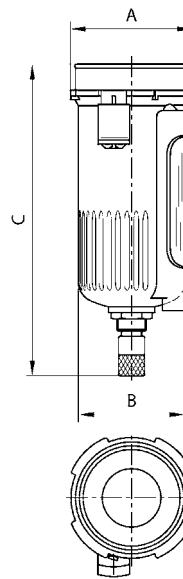
## Series NL4 Accessories

Fig. 3



00112015\_3

Fig. 4



00112015\_4

Part No.	A	B	C									
<b>1827009337</b>	M56x1,5	53.5	132									
<b>1827009343</b>	62.5	53.5	132									
<b>1827009338</b>	M56x1,5	53.5	150									
<b>1827009344</b>	62.5	53.5	150									

## Reservoir, Series NL4-CLC

► for prefilters and microfilters ► Material: Die cast zinc ► suitable for ATEX



00107021

Version  
Version  
Ambient temperature min./max.  
Medium temperature min./max.  
Working pressure min./max.  
Medium  
Filter reservoir volume

Materials:  
Reservoir  
Seal

Reservoir  
Metal reservoir without window  
-10°C / +50°C  
-10°C / +50°C  
2 bar - 16 bar  
Compressed air  
50 cm³

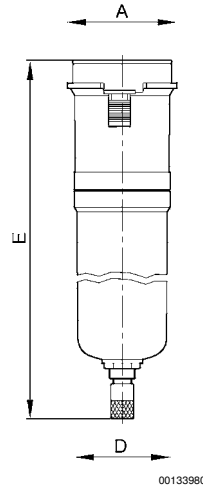
Die cast zinc  
Acrylonitrile Butadiene Rubber

Condensate drain	Reservoir	Weight	Part No.
		[kg]	
fully automatic, open without pressure	Die cast zinc	0.54	<b>1827009602</b>
		0.655	1827009603

Suitable for use in Ex zones 1, 2, 21, 22

## Series NL4 Accessories

### Dimensions



00133980

Part No.	A	D	E									
<b>1827009602</b>	62.5	52	195									
1827009603	62.5	52	281									

## Reservoir, Series NL4-CLA

► for active carbon filter ► Material: Die cast zinc ► suitable for ATEX



B0000003\_1

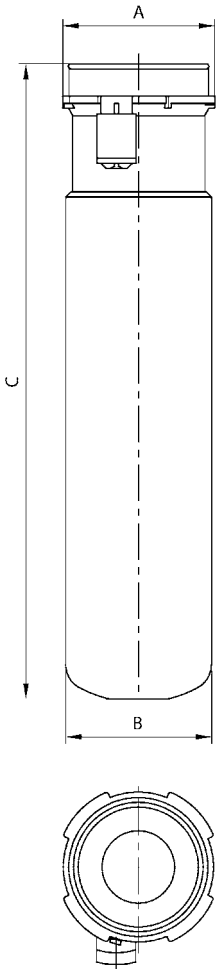
Version	Reservoir
Version	Metal reservoir without window
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Working pressure min./max.	16 bar
Medium	Compressed air
Filter reservoir volume	50 cm <sup>3</sup>
Materials:	
Reservoir	Die cast zinc
Seal	Acrylonitrile Butadiene Rubber

Condensate drain	Reservoir	Weight	Part No.
		[kg]	
semi-automatic, open without pressure	Die cast zinc	0.51	<b>1827009608</b>
		0.61	<b>1827009609</b>

Suitable for use in Ex zones 1, 2, 21, 22

**Series NL4**  
Accessories

**Dimensions**



00108168\_1

Part No.	A	B	C									
1827009608	62.5	56	172									
1827009609	62.5	56	258									

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information  
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### Series NL4 Accessories

#### Reservoir, Series NL4-CBS, NL4-CLA, NL6-CBS

▶ for active carbon filter and lubricator ▶ Material: Polycarbonate, Die cast zinc ▶ with window



00108158

Version

Ambient temperature min./max.

Medium temperature min./max.

Working pressure min./max.

Medium

Lubricator reservoir volume

Reservoir

-10°C / +60°C

-10°C / +60°C

16 bar

Compressed air

125 cm<sup>3</sup>

Materials:

Seal

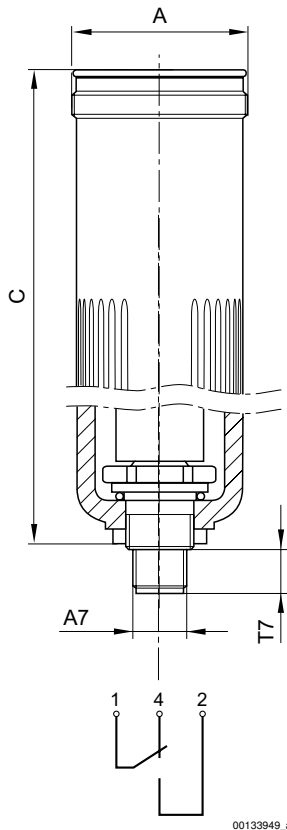
Acrylonitrile Butadiene Rubber

Electrical level detection	Reservoir	Weight [kg]	Fig.	Note	Part No.
with internal query	Polycarbonate	0.18	Fig. 1	-	<b>R412003757</b>
-	Polycarbonate	0.15	Fig. 2	1)	<b>1827009336</b>
-	Die cast zinc, with window	0.55	Fig. 3		<b>1827009342</b>

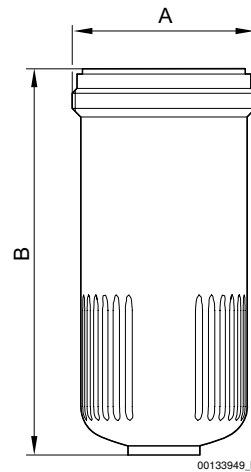
1) Suitable for use in Ex zones 1, 2, 21, 22

Fig. 1

Fig. 2



00133949\_a



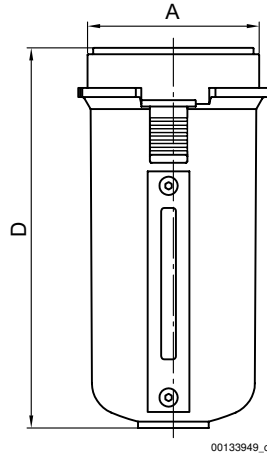
00133949\_b

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Series NL4  
Accessories

Fig. 3



Part No.	A	A7	B	C	D	T7						
<b>R412003757</b>	M56x1,5	M12x1	-	129.5	-	12						
<b>1827009336</b>	M56x1,5	-	117.5	129.5	-	-						
<b>1827009342</b>	Ø53,1	-	-	119	119	-						

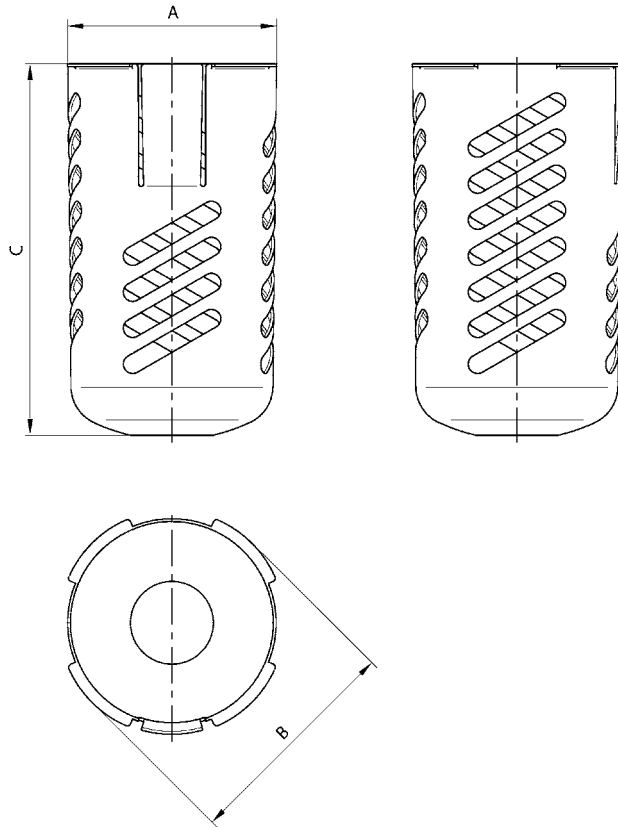
**Series NL4**  
 Accessories

**Protective guard**

► suitable for ATEX ► NL4, NL6 ► Filter, Lubricator



00106928



00107325

Part No.	Type	A	B	C	Material	Surface	Weight [kg]
<b>1820507001</b>	NL4	57,8	62,6	103	Steel	black oxidized	0.14
Can be retrofitted for PC reservoir Suitable for use in Ex zones 1, 2, 21, 22							

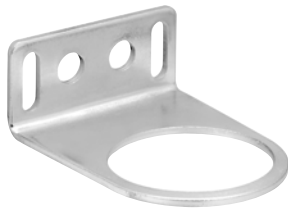


## Preparation of compressed air ► Maintenance units and components

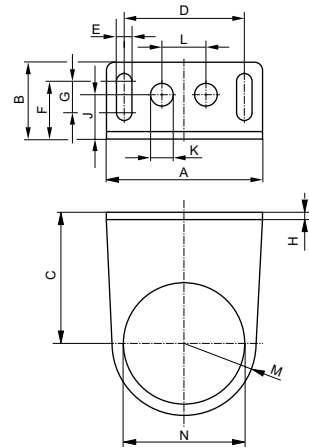
### Series NL4 Accessories

#### Mounting bracket

► NL4-MBR-...-W02



15839



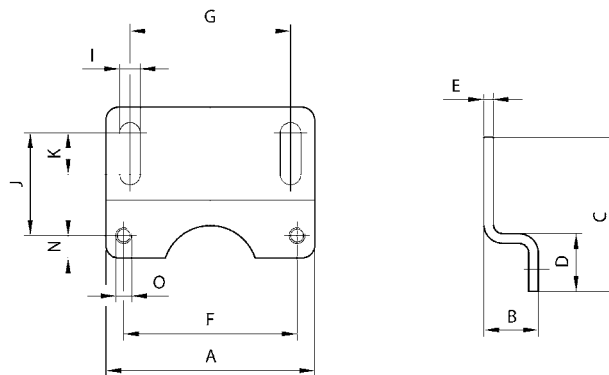
00108144

Part No.	A	B	C	D	E	F	G	H	J	K	L	M
<b>1821331014</b>	65	32	54.5	50	6.4	24	13	3	19	10	20	30
Part No.	N	Material	Surface	Weight [kg]								
<b>1821331014</b>	50.5	Steel	galvanized	0.1								

#### Mounting plate



00106900



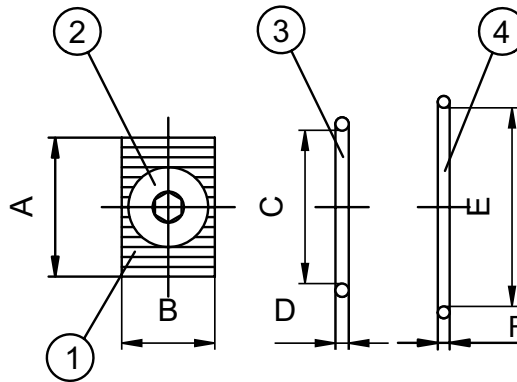
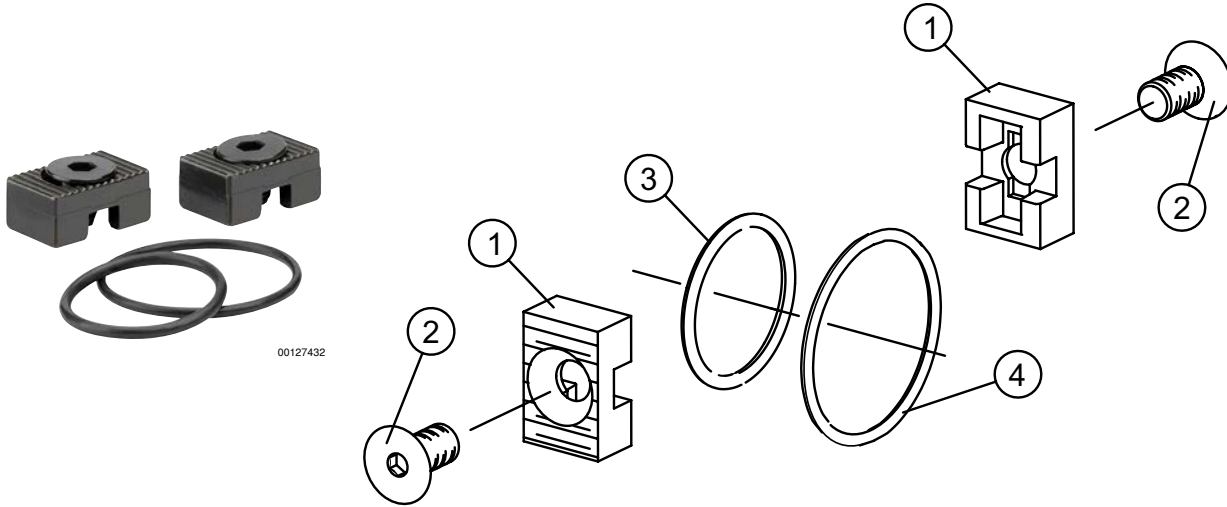
00108145

Part No.	A	B	C	D	E	F	G	I	J	K	N	O
<b>1821336007</b>	65	20	48	18	3	54	50	6.4	33	13	7	M5
Part No.	Material	Surface	Weight [kg]									
<b>1821336007</b>	Steel	galvanized	0.1									

Scope of delivery incl. mounting screws

**Series NL4**  
Accessories

**Block assembly kit, Series NL4-W04**



1) clamp mounting 2) screw 3) O-ring 4) O-ring

00131800

Part No.	A	B	C	D	E	F	Weight [kg]	Note
<b>1827009360</b>	20.9	14	23	2	29.87	1.78	0.0248	1)

1) Scope of delivery: 2 clamp mountings, 2 screws ISO 10642 M6x10-8.8, 2 O-rings to assemble two modules into blocks  
Suitable for use in Ex zones 1, 2, 21, 22

**Series NL4**  
Accessories

**Blanking screw**

▶ external thread ▶ G 1/8 - G 1/4 ▶ FPT-S-RIO



00110667

Ambient temperature min./max.  
Working pressure min./max.

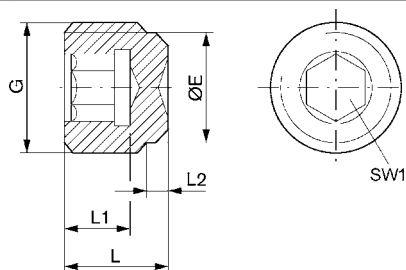
-20°C / +80°C  
0 bar / 16 bar

Materials:

Screw  
Housing  
Thread

Brass  
Brass  
Brass

**Dimensions**



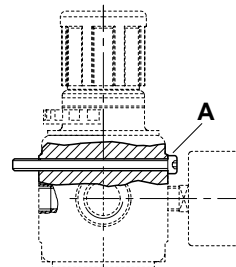
00107920

Part No.	Port G	ØE	L	L1	L2	SW1	Delivery quantity [Piece]						
<b>1823462004</b>	G 1/8	8	8	5	2	5	10						
<b>1823462003</b>	G 1/4	11	11	7	3.5	6	10						

**Mounting screws for wall mounting, Series NL2, NL3, NL4**



00135338



00130405

**Series NL4**  
**Accessories**

Part No.	usage Series	Type	A	Material	Surface	Delivery quantity [Piece]
<b>1823414009</b>	NL2	DIN 912 - M4x60	M4x60	Steel	galvanized	10
1823414034	NL3	DIN 912 - M4x70	M4x70	Steel	galvanized	10
<b>1823414014</b>	NL4	DIN 912 - M5x85	M5x85	Steel	galvanized	10

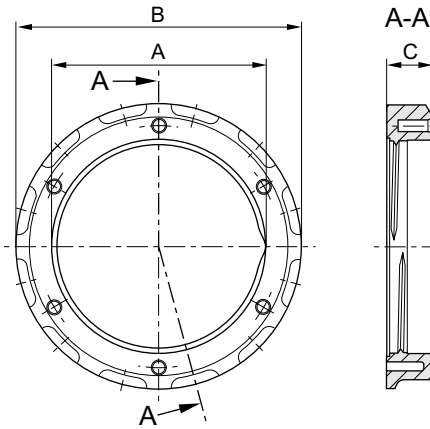
Part No.	Weight [kg]										
<b>1823414009</b>	0.006										
1823414034	0.006										
<b>1823414014</b>	0.007										

**Panel nut**

► suitable for ATEX



00124065



00123311

Part No.	usage Series	A	B	C	Material	Weight [kg]	Note	Delivery quantity [Piece]
<b>1829234070</b>	AS1 MU1 NL1 NL2 NL4	M30x1,5	35	5.5	Brass	0.013	1)	5
<b>1829234071</b>	AS5 NL2 NL4	M50x1,5	64	7.5	Plastic	0.009	1)	2
<b>1829234072</b>	NL2 NL4	M42x1,5	47	5.5	Brass	0.02	1)	5
<b>1829234073</b>	AS1 NL1 NL2 NL4	M30x1,5	37.5	7.5	Plastic	0.006	-	5

1) Suitable for use in Ex zones 1, 2, 21, 22

## Preparation of compressed air ▶ Maintenance units and components

### Series NL4 Accessories

#### Pressure gauge, Series PG1-SNL

▶ Front port ▶ Background color: Black ▶ Scale color: Green / White ▶ Viewing window: Polystyrene ▶ Units: bar / psi ▶ suitable for ATEX



00106978

Version	Bourdon tube pressure gauge
Standardization	EN 837-1
Main scale unit (outside)	bar
Secondary scale unit (inside)	psi
Ambient temperature min./max.	-40°C / +60°C
Medium	Compressed air
Pointer color	White
Main scale color (outside)	Green
Secondary scale color (inside)	White
Class	1,6

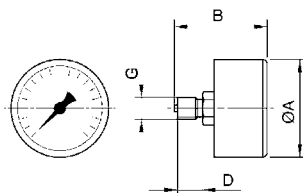
#### Materials:

Housing	Acrylonitrile butadiene styrene
Thread	Brass
Viewing window	Polystyrene

	Compressed air connection	Nominal diameter	Range of application	Display range	Operating pressure	Scale value	Weight	Note	Part No.
		[mm]	[bar]	[bar]	[bar]		[kg]		
	G 1/8	40	-0.8 - 0	-1 - 0	-1 / 0	0.1	0.06	-	<b>1827231053</b>
	G 1/8	40	0 - 1.7	0 - 2.5	0 / 2.5	0.1	0.06	-	<b>1827231048</b>
	G 1/8	40	0 - 4	0 - 6	0 / 6	0.2	0.06	1)	<b>1827231018</b>
	G 1/8	40	0 - 8	0 - 10	0 / 10	0.5	0.06	1)	<b>1827231024</b>
	G 1/8	40	0 - 12	0 - 16	0 / 16	0.5	0.06	1)	<b>1827231009</b>
	G 1/4	40	-0.8 - 0	-1 - 0	-1 / 0	0.1	0.06	-	<b>1827231057</b>
	G 1/4	40	0 - 10	0 - 16	0 / 16	0.5	0.06	1)	<b>1827231047</b>
	G 1/4	40	0 - 4	0 - 6	0 / 6	0.2	0.06	-	<b>1827231059</b>
	G 1/4	40	0 - 8	0 - 10	0 / 10	0.5	0.06	1)	<b>1827231060</b>
	G 1/4	50	-0.8 - 0	-1 - 0	-1 / 0	0.1	0.09	-	<b>1827231054</b>
	G 1/4	50	0 - 1.2	0 - 1.6	0 / 1.6	0.05	0.09	-	<b>1827231023</b>
	G 1/4	50	0 - 2	0 - 2.5	0 / 2.5	0.1	0.09	-	<b>1827231012</b>
	G 1/4	50	0 - 4	0 - 6	0 / 6	0.2	0.09	1)	<b>1827231016</b>
	G 1/4	50	0 - 8	0 - 10	0 / 10	0.5	0.09	1)	<b>1827231015</b>
	G 1/4	50	0 - 12	0 - 16	0 / 16	0.5	0.09	1)	<b>1827231010</b>
	G 1/4	63	-0.8 - 0	-1 - 0	-1 / 0	0.1	0.1	-	<b>1827231055</b>
G 1/4	63	0 - 12	0 - 16	0 / 16	0.5	0.1	1)	<b>1827231011</b>	

1) Suitable for use in Ex zones 1, 2, 21, 22

#### Dimensions



00107318

Order seal 1829202004 separately

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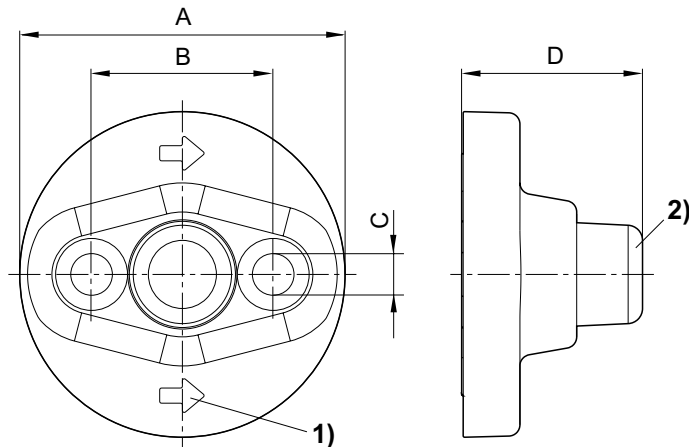
### Series NL4 Accessories

Compressed air connection G	Nominal diameter	Ø A	B	D								
G 1/8	40	39	44	10								
G 1/4	40	41	41.5	10								
G 1/4	50	49	47.5	13								
G 1/4	63	63	48.3	13								

### contamination display ► for prefilters and microfilters



00124003



00123310

- 1) Flow direction  
 2) Display in initial state: green (=  $\Delta p < 0.35$  bar)  
 Display turns red on contamination of the filter element (=  $\Delta p \geq 0.35$  bar).

Part No.	A	B	C	D	Material	Weight [kg]						
<b>R412006363</b>	43	24	5.5	24	Polyamide	0.025						

2 mounting screws and 2 O-rings supplied loose  
 Suitable for use in Ex zones 1, 2, 21, 22

AVENTICS GmbH  
Ulmer Straße 4  
30880 Laatzen, GERMANY  
Phone +49 511 2136-0  
Fax +49 511 2136-269  
www.aventics.com  
info@aventics.com



Find more contact information at  
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07-12-2016

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