# Series NL1

# Brochure



Preparation of compressed air  $\rightarrow$  Maintenance units and components **Series NL1** 

Maintenance unit, 3-part, Series NL1-ACT  ► G 1/8 - G 1/4 ► filter porosity: 5 μm ► with pressure gauge ► ATEX certified  Pressure regulator, Series NL1-RGS  ► G 1/8 - G 1/4 ► Qn=600 l/min ► Activation: mechanical ► ATEX certified  Pressure regulator, Series NL1-RGS  ► G 1/4 ► Qn=1000 l/min ► with continuous pressure supply ► ATEX certified  Pressure regulator, Series NL1-RGS  ► G 1/4 ► Qn=1000 l/min ► Activation: mechanical ► cold-resistant ► ATEX certified  Pressure regulator, Series NL1-RGS  ► G 1/4 ► Qn=1000 l/min ► Activation: mechanical ► cold-resistant ► ATEX certified  Pressure regulator, Series NL1-RGS  ► G 1/8 - G 1/4 ► Qn=1000 l/min ► Activation: mechanical ► with pressure gauge in hand wheel ► ATEX certified  Pressure regulator, Series NL1-RGS  ► G 1/8 - G 1/4 ► Qn=1000 l/min ► Activation: mechanical ► with pressure gauge in hand wheel ► ATEX certified  Pressure regulator, Series NL1-RGS  ► G 1/4 ► Qn=1000 l/min ► Activation: mechanical ► with continuous pressure supply  ► with pressure gauge in hand wheel ► ATEX certified  Filter pressure regulator, Series NL1-FRE  ► G 1/8 - G 1/4 ► filter porosity: 5 μm ► ATEX certified		
Pressure regulator, Series NL1-RGS  Por 1/4 → Qn=1000 l/min → Activation: mechanical → ATEX certified  Pressure regulator, Series NL1-RGS  For 1/4 → Qn=1000 l/min → with continuous pressure supply → ATEX certified  Pressure regulator, Series NL1-RGS  For 1/4 → Qn=1000 l/min → Activation: mechanical → ATEX certified  Pressure regulator, Series NL1-RGS  For 1/4 → Qn=1000 l/min → Activation: mechanical → ATEX certified  Pressure regulator, Series NL1-RGS  For 1/8 - G 1/4 → Qn=1000 l/min → Activation: mechanical → with pressure gauge in hand wheel → ATEX certified  Pressure regulator, Series NL1-RGS  For 1/8 - G 1/4 → Qn=1000 l/min → Activation: mechanical → with pressure gauge in hand wheel → ATEX certified  Pressure regulator, Series NL1-RGS  For 1/4 → Qn=1000 l/min → Activation: mechanical → with continuous pressure supply  With pressure regulator, Series NL1-RGS  For 1/4 → Qn=1000 l/min → Activation: mechanical → with continuous pressure supply  With pressure regulator, Series NL1-RE  Filter pressure regulator, Series NL1-FRE  Filter pressure regulator, Series NL1-FRE  Filter pressure regulator, Series NL1-RE  Filter pressure regulator, Series NL1-RE  Filter pressure regulator, Series NL1-RE	Maintenance unit, 2-part, Series NL1-ACD  ► G 1/8 - G 1/4 ► filter porosity: 5 μm ► with pressure gauge ► ATEX certified	6
Pressure regulator, Series NL1-RGS	Maintenance unit, 3-part, Series NL1-ACT ► G 1/8 - G 1/4 ► filter porosity: 5 μm ► with pressure gauge ► ATEX certified	9
Pressure regulator, Series NL1-RGS	Pressure regulator, Series NL1-RGS  ► G 1/8 - G 1/4 ► Qn=600 l/min ► Activation: mechanical ► ATEX certified	12
Pressure regulator, Series NL1-RGS	Pressure regulator, Series NL1-RGS  ► G 1/4 ► Qn=1000 I/min ► with continuous pressure supply ► ATEX certified	15
Pressure regulator, Series NL1-RGS  ▶ G 1/8 - G 1/4 ▶ Qn=1000 l/min ▶ Activation: mechanical ▶ with pressure gauge in hand wheel ▶ ATEX certified  Pressure regulator, Series NL1-RGS  ▶ G 1/4 ▶ Qn=1000 l/min ▶ Activation: mechanical ▶ with pressure gauge in hand wheel ▶ ATEX certified  Pressure regulator, Series NL1-RGS  ▶ G 1/4 ▶ Qn=1000 l/min ▶ Activation: mechanical ▶ with continuous pressure supply ▶ with pressure gauge in hand wheel ▶ ATEX certified  Filter pressure regulator, Series NL1-FRE  ▶ G 1/8 - G 1/4 ▶ filter porosity: 5 μm ▶ ATEX certified	Pressure regulator, Series NL1-RGS ► G 1/4 ► Qn=1000 l/min ► Activation: mechanical ► cold-resistant ► ATEX certified	18
Pressure regulator, Series NL1-RGS  ► G 1/4 ► Qn=1000 l/min ► Activation: mechanical ► with pressure gauge in hand wheel ► ATEX certified  Pressure regulator, Series NL1-RGS  ► G 1/4 ► Qn=1000 l/min ► Activation: mechanical ► with continuous pressure supply  ► with pressure gauge in hand wheel ► ATEX certified  Filter pressure regulator, Series NL1-FRE  ► G 1/8 - G 1/4 ► filter porosity: 5 μm ► ATEX certified  Filter pressure regulator, Series NL1-FRE  Filter pressure regulator, Series NL1-FRE	Pressure regulator, Series NL1-RGS  ► G 1/8 - G 1/4 ► Qn=1000 l/min ► Activation: mechanical ► ATEX certified	20
<ul> <li>► G 1/4 ► Qn=1000 l/min ► Activation: mechanical ► with continuous pressure supply</li> <li>► with pressure gauge in hand wheel ► ATEX certified</li> <li>Filter pressure regulator, Series NL1-FRE</li> <li>► G 1/8 - G 1/4 ► filter porosity: 5 μm ► ATEX certified</li> </ul>	► G 1/8 - G 1/4 ► Qn=1000 l/min ► Activation: mechanical ► with pressure gauge in hand	23
► G 1/8 - G 1/4 ► filter porosity: 5 μm ► ATEX certified  Filter pressure regulator, Series NL1-FRE	► G 1/4 ► Qn=1000 I/min ► Activation: mechanical ► with continuous pressure supply	25
Filter pressure regulator, Series NL1-FRE  ► G 1/8 - G 1/4 ► filter porosity: 5 μm ► cold-resistant	Filter pressure regulator, Series NL1-FRE  ► G 1/8 - G 1/4 ► filter porosity: 5 μm ► ATEX certified	28
	Filter pressure regulator, Series NL1-FRE  ▶ G 1/8 - G 1/4 ▶ filter porosity: 5 μm ▶ cold-resistant	31

Preparation of compressed air  $\rightarrow$  Maintenance units and components **Series NL1** 

	Filter, Series NL1-FLS	34
	► G 1/8 - G 1/4 ► filter porosity: 5 μm ► ATEX certified	
	Microfilter, Series NL1-FLC  ► G 1/8 - G 1/4 ► filter porosity: 0.01 μm ► ATEX certified	37
and an analysis of the second	Active carbon filter, Series NL1-FLA  ▶ G 1/8 - G 1/4 ▶ ATEX certified	39
	Micro oil-mist lubricator, Series NL1-LBM  ► G 1/8 - G 1/4 ► ATEX certified	41
	Filling unit, electrically operated, Series NL1-SSU  ► G 1/4 ► pipe connection ► Electr. connection: Plug, ISO 6952, form B ► ATEX optional	43
	Filling unit, pneumatically operated, Series NL1-SSU  ► G 1/4 ► pipe connection ► ATEX certified	46
	3/2-shut-off valve, mechanically operated, Series NL1-BAV ► G 1/8 - G 1/4 ► ATEX certified	49
b	3/2-way valve, electrically operated, Series NL1-SOV  ► G 1/4 ► pipe connection ► Electr. connection: Plug, ISO 6952, form B ► ATEX optional	51
	3/2-way valve, electrically operated, Series NL1-SOV ► G 1/4 ► pipe connection ► Electr. connection: Plug, ISO 6952, form B ► with continuous pressure supply ► ATEX optional	53
	3/2-way valve, pneumatically operated, Series NL1-SOV ► G 1/4 ► pipe connection ► ATEX certified	56

Preparation of compressed air  $\rightarrow$  Maintenance units and components **Series NL1** 

	3/2-way valve, pneumatically operated, Series NL1-SOV  ► G 1/4 ► pipe connection ► with continuous pressure supply ► ATEX certified	58
	Filling valve, pneumatically operated, Series NL1-SSV  ► G 1/4 ► pipe connection ► adjustable filling time ► ATEX certified	60
	Distributor, Series NL1-DIL  ► G 1/4 ► Distributor 2x ► Narrow distributor ► ATEX certified	62
Accessories		
	Reservoir, Series NL1/AS1-CLS/-CLP/-CLC  ▶ For filter, filter pressure regulator and microfilters	63
	Reservoir, Series NL1/AS1-CBM/-CLA/-CBM  ▶ for active carbon filter and lubricator	64
	Reservoir, Series NL1/AS1-CBM  ▶ for lubricator	65
	Protective guard  ▶ series NL1 ▶ Filter, Lubricator	66
	Mounting bracket ► NL1/NL2-MBRW02	66
	Mounting bracket ► NL1-MBRW05	67
	Block assembly kit, Series NL1-W04	67

## **Series NL1**

Pressure gauges, Series PG1-SNL

► For panel installation ► Background color: Black ► Scale color: Green / White

► Viewing window: Polystyrene

68

# Maintenance unit, 2-part, Series NL1-ACD

# ▶ G 1/8 - G 1/4 ▶ filter porosity: 5 μm ▶ with pressure gauge ▶ ATEX certified



ATEX II 2G2D X

Maintenance Unit

2-in-1, Can be assembled into blocks
Parts

Filter pressure regulator, Micro oil-mist

**lubricator** 

Regulator type Diaphragm-type pressure regulator

Regulator function with relieving air exhaust

Pressure supply single Installation location vertical Nominal flow Qn 600 l/min -10°C/+60°C Ambient temperature min./max. Medium temperature min./max. -10°C/+60°C Working pressure min./max. 1.5 bar / 16 bar Adjustment range min./max. 0.5 bar / 10 bar Medium Compressed air Filter element exchangeable Filter reservoir volume 16 cm<sup>3</sup>

Condensate drain See table below Type of filling Manual oil filling

Oil type HLP 32 (DIN 51 524 - ISO VG 32)

HLP 68 (DIN 51 524 - ISO VG 68)

Lubricator reservoir volume 35 cm<sup>3</sup>

Materials:

Housing Die cast zinc

Seal 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.
- Oil dosing at 1000 l/min [drops/min]: 10-20
- Max. particle count as per ISO 8573-4 at the outlet: 5 mg/m³

	Port	Condensate drain	Weight	Note	Part No.
			[kg]		
	G 1/8	semi-automatic, open without pressure	0.564	1)	0821300727
	G 1/8	semi-automatic, open without pressure	0.645	2)	0821300728
$- (\mathbf{x})' $	G 1/8	fully automatic, open without pressure	0.617	1)	0821300729
	G 1/4	semi-automatic, open without pressure	0.564	1)	0821300730
,	G 1/4	semi-automatic, open without pressure	0.645	2)	0821300731
	G 1/4	fully automatic, open without pressure	0.617	1)	0821300732

nominal flow Qn with secondary pressure 6 bar at  $\Delta p = 1$  bar

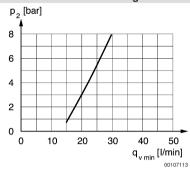
Metal protective guard can be retrofitted for all polycarbonate reservoirs

1) Reservoir: Polycarbonate 2) Reservoir: Die cast zinc

# Maintenance unit, 2-part, Series NL1-ACD

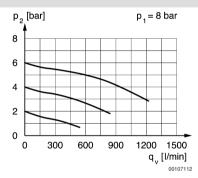
▶ G 1/8 - G 1/4 ▶ filter porosity: 5 μm ▶ with pressure gauge ▶ ATEX certified

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



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

#### Flow rate characteristic



p1 = working pressure; p2 = secondary pressure; qv = nominal flow

# Maintenance unit, 2-part, Series NL1-ACD

▶ G 1/8 - G 1/4 ▶ filter porosity: 5 μm ▶ with pressure gauge ▶ ATEX certified

# **Dimensions** G R ~34,5 O Ø40 ш Ш П T2 T6 ≥ 5 Ω 1 2 Α7

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

AI	A2	Ab	Α/	В	C	וט	וט			G	J	l K	L
G 1/8	G 1/8	G 1/8	G 1/8	80	62.5	102.5	95.5	165	50	M30x1,5	40	43.5	27
G 1/4	G 1/4	G 1/8	G 1/8	80	62.5	102.5	95.5	165	50	M30x1,5	40	43.5	27
							1	1					
A1	М	0	R	т.	T2	T6	T7	l U	ıl w	W1	7		
,								_					
G 1/8	3	38	5.4	8	8	-	8.5	-			24.5		
		_		8		6		18.5	203	35	24.5 24.5		

# Maintenance unit, 3-part, Series NL1-ACT

# ▶ G 1/8 - G 1/4 ▶ filter porosity: 5 μm ▶ with pressure gauge ▶ ATEX certified



ATEX II 2G2D X

Maintenance Unit

3-part, Can be assembled into blocks
Parts

Pressure controller, Filter, Micro oil-mist

lubricator

16 cm<sup>3</sup>

Regulator type Diaphragm-type pressure regulator

Regulator function with relieving air exhaust

Pressure supply single Installation location vertical 450 l/min Nominal flow Qn -10°C/+60°C Ambient temperature min./max. Medium temperature min./max. -10°C / +60°C Working pressure min./max. 1.5 bar / 16 bar Adjustment range min./max. 0.5 bar / 10 bar Medium Compressed air Filter element exchangeable

Condensate drain See table below Type of filling Manual oil filling

Oil type HLP 32 (DIN 51 524 - ISO VG 32)

HLP 68 (DIN 51 524 - ISO VG 68)

Lubricator reservoir volume 35 cm<sup>3</sup>

Materials:

Housing Die cast zinc

Seal 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.

Filter reservoir volume

- Oil dosing at 1000 l/min [drops/min]: 10-20
- Max. particle count as per ISO 8573-4 at the outlet: 5 mg/m³

	Port	Condensate drain	Weight	Note	Part No.
			[kg]		
	G 1/8	semi-automatic, open without pressure	0.734	1)	0821300721
	G 1/8	semi-automatic, open without pressure	0.815	2)	0821300722
	G 1/8	fully automatic, open without pressure	0.787	1)	0821300723
	G 1/4	semi-automatic, open without pressure	0.734	1)	0821300724
'	G 1/4	semi-automatic, open without pressure	0.815	2)	0821300725
	G 1/4	fully automatic, open without pressure	0.787	1)	0821300726

nominal flow Qn with secondary pressure 6 bar at  $\Delta p = 1$  bar

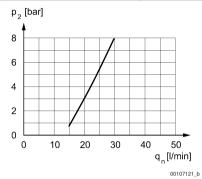
Metal protective guard can be retrofitted for all polycarbonate reservoirs

1) Reservoir: Polycarbonate 2) Reservoir: Die cast zinc

# Maintenance unit, 3-part, Series NL1-ACT

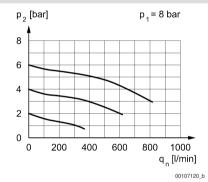
▶ G 1/8 - G 1/4 ▶ filter porosity: 5 μm ▶ with pressure gauge ▶ ATEX certified

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



p2 = secondary pressure qn = nominal flow

#### Flow rate characteristic



p1 = working pressure; p2 = secondary pressure; qn = nominal flow

# Maintenance unit, 3-part, Series NL1-ACT

▶ G 1/8 - G 1/4 ▶ filter porosity: 5 μm ▶ with pressure gauge ▶ ATEX certified

# **Dimensions** В G ~34,5 O ш T $\Box$ T2 Т6 ≥ 5 $\Box$ 1) 2) Α7 00107264\_m

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

A1	A2	A5	A6	A7	В	С	D	D1	Е	F	G	J	L
G 1/8	120	65.5	102.5	95.5	168	50	M30x1,5	40	27				
G 1/4	G 1/4	G 1/8	G 1/8	G 1/8	120	65.5	102.5	95.5	168	50	M30x1,5	40	27
A1	М	T2	Т6	T7	W	W1							
Α1	IVI	12	10	17	VV	VV I							
G 1/8	3	8	6	8.5	206	35							
G 1/4	3	8	6	8.5	206	35							

# Pressure regulator, Series NL1-RGS

## ► G 1/8 - G 1/4 ► Qn=600 l/min ► Activation: mechanical ► ATEX certified



ATEX II 2G2D X

Regulator type Diaphragm-type pressure regulator, Can be

assembled into blocks

Function with relieving air exhaust

Installation location Any Pressure supply single

-10°C/+60°C Ambient temperature min./max. Medium temperature min./max. -10°C/+60°C Working pressure min./max. 0.5 bar / 16 bar Adjustment range min./max. See table below Medium Compressed air

Materials:

Housing Die cast zinc

Seal 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.
- lockable regulator head
- Recommended pre-filtering: 5 μm

		Port	Qn	Adjustment range min max	Weight	Part No.
			[l/min]	[bar]	[kg]	
$\bigcirc$		G 1/8		0.1 - 3		0821302728
		G 1/8	600	0.2 - 6	0.294	0821302729
		G 1/8	600	0.5 - 10	0.294	0821302730
<u>-</u> - + /W	l	G 1/4		0.1 - 3		0821302734
'		G 1/4		0.2 - 6		0821302735
		G 1/4		0.5 - 10		0821302736
		G 1/8		0.1 - 3		0821302725
[N]		G 1/8		0.2 - 6		0821302726
		G 1/8	600	0.5 - 10	0.24	0821302727
'L <del> </del>	-	G 1/4	600	0.1 - 3	0.24	0821302731
		G 1/4		0.2 - 6		0821302732
		G 1/4		0.5 - 10		0821302733
nominal flow Qn v	with secondary pre	essure 6 bar at Δp = 1	bar			

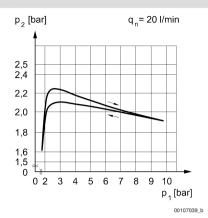
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# Preparation of compressed air → Maintenance units and components

# Pressure regulator, Series NL1-RGS

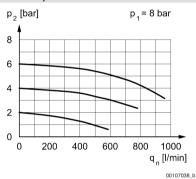
► G 1/8 - G 1/4 ► Qn=600 l/min ► Activation: mechanical ► ATEX certified

#### Pressure characteristics curve



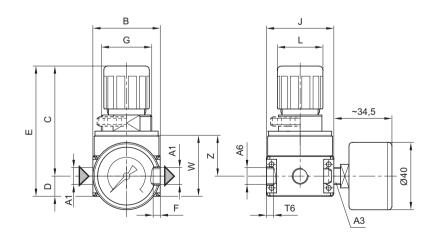
p1 = working pressure; p2 = secondary pressure; qn = nominal flow

# Flow rate characteristic (setting range p2: 0.5 - 10 bar)



p1 = working pressure; p2 = secondary pressure; qn = nominal flow

#### **Dimensions**



Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information Pneumatics catalog, online PDF, as of 2011-03-14, © Bosch Rexroth AG, subject to change

Pressure regulator, Series NL1-RGS

► G 1/8 - G 1/4 ► Qn=600 I/min ► Activation: mechanical ► ATEX certified

A1	A2	A3	A6	В	С	D	Е	G	J	L	T2	T6	W
G 1/8	G 1/8	G 1/8	G 1/8	40	65.5	12	77.5	M30x1,5	40	27	8	6	36.5
G 1/4	G 1/4	G 1/8	G 1/8	40	65.5	12	77.5	M30x1,5	40	27	8	6	36.5
A1	7												
G 1/8	24.5												
G 1/4	24.5												

# Pressure regulator, Series NL1-RGS

# ► G 1/4 ► Qn=1000 I/min ► with continuous pressure supply ► ATEX certified



ATEX II 2G2D X

Regulator type Diaphragm-type pressure regulator, Can be

assembled into blocks

Function with relieving air exhaust

Installation location Any
Pressure supply double

Materials:

Housing Die cast zinc

#### Technical Remarks

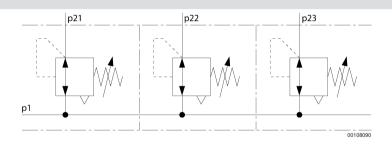
■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.

■ Recommended pre-filtering: 5 µm

	Port	Qn	Adjustment range min max	Weight	Part No.
		[l/min]	[bar]	[kg]	
			0.1 - 3		0821300711
	G 1/4	1000	0.2 - 6	0.26	0821300712
_ <del>V</del> JÿVV			0.5 - 10		0821300713

nominal flow Qn with secondary pressure 6 bar at  $\Delta p=1\,$  bar lockable regulator head

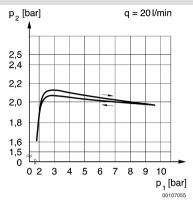
#### Application example



# Pressure regulator, Series NL1-RGS

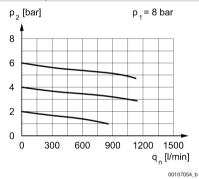
► G 1/4 ► Qn=1000 I/min ► with continuous pressure supply ► ATEX certified

#### Pressure characteristics curve



p1 = working pressure; p2 = secondary pressure; q = flow rate

#### Flow rate characteristic (setting range p2: 0.5 - 10 bar)

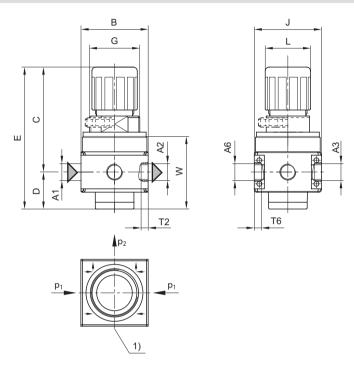


p1 = working pressure; p2 = secondary pressure; qn = nominal flow

# Pressure regulator, Series NL1-RGS

► G 1/4 ► Qn=1000 I/min ► with continuous pressure supply ► ATEX certified

#### **Dimensions**



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p2 = secondary pressure

A1	A2	A3	A6	В	С	D	Е	G	J	K	L	М	T2
G 1/4	G 1/4	G 1/8	G 1/4	40	62.5	22	84.5	M30x1,5	40	43.5	27	3	8
A1	Т6	W											
G 1/4	6	45.5											

<sup>1)</sup> pressure gauge connection p1 = working pressure

# Pressure regulator, Series NL1-RGS

## ► G 1/4 ► Qn=1000 I/min ► Activation: mechanical ► cold-resistant ► ATEX certified



ATEX II 2G2D X

Regulator type Diaphragm-type pressure regulator, Can be

assembled into blocks with relieving air exhaust

Regulator function with relieval Installation location Any

Pressure supply single

Materials:

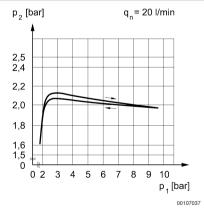
Housing Die cast zinc
Seal Chloroprene rubber

#### **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  $\mu$ m

	Port	Qn	Weight	Part No.
		[l/min]	[kg]	
	G 1/4	1000	0.26	R412007620
nominal flow Qn with secon	dary pressure 6 bar at Δp = 1 ba	ur		

## Pressure characteristics curve

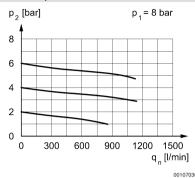


p1 = working pressure; p2 = secondary pressure; qn = nominal flow

# Pressure regulator, Series NL1-RGS

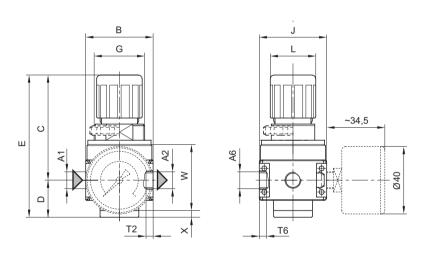
► G 1/4 ► Qn=1000 I/min ► Activation: mechanical ► cold-resistant ► ATEX certified

## Flow rate characteristic (setting range p2: 0.5 - 10 bar)



p1 = working pressure; p2 = secondary pressure; qn = nominal flow

#### **Dimensions**



A1	A2	A6	В	С	D	Е	G	J	K	L	М	0	R
G 1/4	G 1/4	G 1/8	40	62.5	22	84.5	M30x1,5	40	43.5	27	3	38	5.4
A1	Т	T2	T6	U	W	Х							
G 1/4	8	8	6	18.5	39.5	4							

# Pressure regulator, Series NL1-RGS

## ► G 1/8 - G 1/4 ► Qn=1000 I/min ► Activation: mechanical ► ATEX certified



ATEX II 2G2D X

Regulator type Diaphragm-type pressure regulator, Can be

assembled into blocks

Function with relieving air exhaust

Installation location Any
Pressure supply single

Materials:

Housing Die cast zinc

Seal Acrylonitrile Butadiene Rubber

#### **Technical Remarks**

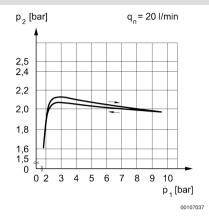
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Recommended pre-filtering: 5 μm

		Port	Qn	Adjustment range min max	Weight	Part No.
			[l/min]	[bar]	[kg]	
		G 1/8		0.1 - 3		0821302708
		G 1/8	1000	0.2 - 6	0.014	0821302709
		G 1/8	1000	0.5 - 10	0.314	0821302710
<u>-</u> - + / //	ı	G 1/4		0.1 - 3		0821302714
' '		G 1/4		0.2 - 6		0821302715
		G 1/4		0.5 - 10		0821302716
		G 1/8		0.1 - 3		0821302705
īNI		G 1/8		0.2 - 6		0821302706
		G 1/8	1000	0.5 - 10	0.26	0821302707
' <u> </u>	-	G 1/4	1000	0.1 - 3	0.20	0821302711
		G 1/4		0.2 - 6		0821302712
		G 1/4		0.5 - 10		0821302713
nominal flow Qn v	vith secondary pre	ssure 6 bar at Δp = 1	bar			

# Pressure regulator, Series NL1-RGS

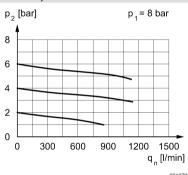
► G 1/8 - G 1/4 ► Qn=1000 I/min ► Activation: mechanical ► ATEX certified

#### Pressure characteristics curve



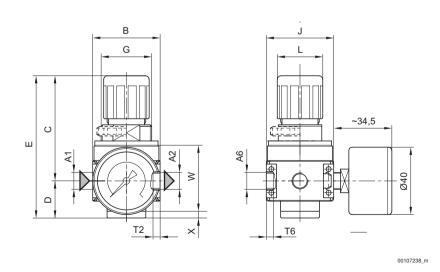
p1 = working pressure; p2 = secondary pressure; qn = nominal flow

# Flow rate characteristic (setting range p2: 0.5 - 10 bar)



p1 = working pressure; p2 = secondary pressure; qn = nominal flow

#### **Dimensions**



Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information Pneumatics catalog, online PDF, as of 2011-03-14, © Bosch Rexroth AG, subject to change

Pressure regulator, Series NL1-RGS

► G 1/8 - G 1/4 ► Qn=1000 l/min ► Activation: mechanical ► ATEX certified

A1	A2	A6	В	С	D	E	G	J	K	L	M	0	R
G 1/8	G 1/8	G 1/8	40	62.5	22	84.5	M30x1,5	40	43.5	27	3	38	5.4
G 1/4	G 1/4	G 1/8	40	62.5	22	84.5	M30x1,5	40	43.5	27	3	38	5.4
A1	т	T2	T6	- 11	W	v							
AI		12	10	U	VV	^							
G 1/8	8	8	6	18.5	39.5	4							
G 1/4	8	8	6	18.5	39.5	4							

# Pressure regulator, Series NL1-RGS

# ► G 1/8 - G 1/4 ► Qn=1000 I/min ► Activation: mechanical ► with pressure gauge in hand wheel ► ATEX certified



ATEX II 2G2D X

Regulator type Diaphragm-type pressure regulator, Can be

assembled into blocks

Function with relieving air exhaust

Installation location Any
Pressure supply single

Ambient temperature min./max. -10°C / +60°C

Medium temperature min./max. -10°C / +60°C

Working pressure min./max. 0.5 bar / 16 bar

Adjustment range min./max. See table below

Medium Compressed air

Materials:

Housing Die cast zinc

Seal Acrylonitrile Butadiene Rubber

#### **Technical Remarks**

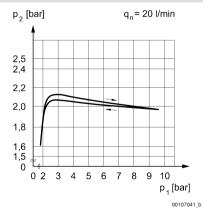
■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.

■ Recommended pre-filtering: 5  $\mu$ m

	Port	Qn	Adjustment range min max	Weight	Part No.
		[l/min]	[bar]	[kg]	
	G 1/8		0.1 - 3		0821300663
	G 1/8		0.2 - 6		0821300664
	G 1/8	1000	0.5 - 10	0.35	0821300665
<b>1 1 1</b>	G 1/4	1000	0.1 - 3	0.33	0821300666
<u>-</u>	G 1/4		0.2 - 6		0821300667
1 '	G 1/4		0.5 - 10		0821300668

nominal flow Qn with secondary pressure 6 bar at  $\Delta p = 1$  bar

#### Pressure characteristics curve



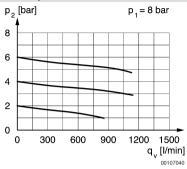
p1 = working pressure; p2 = secondary pressure; qn = nominal flow

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information Pneumatics catalog, online PDF, as of 2011-03-14, © Bosch Rexroth AG, subject to change

# Pressure regulator, Series NL1-RGS

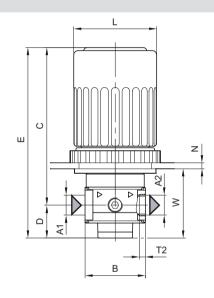
► G 1/8 - G 1/4 ► Qn=1000 l/min ► Activation: mechanical ► with pressure gauge in hand wheel ► ATEX certified

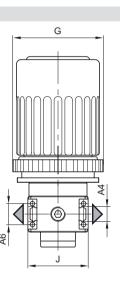
## Flow rate characteristic (setting range p2: 0.5 - 10 bar)

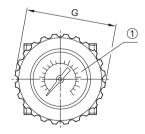


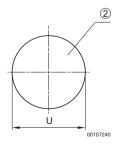
p1 = working pressure; p2 = secondary pressure; qn = nominal flow

#### **Dimensions**









- 1) pressure gauge Ø 40
- 2) opening for control panel assembly

Panel nut included in scope of delivery

A1	A2	В	С	D	Е	G	J	L	N	T2	U	W	
G 1/8	G 1/8	40	102	22	124	60	40	54	4	8	48.5	43	
G 1/4	G 1/4	40	102	22	124	60	40	54	4	8	48.5	43	

# Pressure regulator, Series NL1-RGS

► G 1/4 ► Qn=1000 l/min ► Activation: mechanical ► with continuous pressure supply ► with pressure gauge in hand wheel ► ATEX certified



ATEX II 2G2D X

Regulator type Diaphragm-type pressure regulator, Can be

assembled into blocks

Function with relieving air exhaust

Installation location Any
Pressure supply single

Ambient temperature min./max. -10°C / +50°C

Medium temperature min./max. -10°C / +50°C

Working pressure min./max. 0.5 bar / 16 bar

Medium Compressed air

Materials:

Housing Die cast zinc Seal Nitrile rubber

#### Technical Remarks

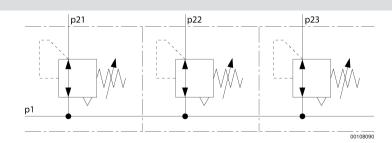
■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.

■ Recommended pre-filtering: 5 µm

Port	Qn	Adjustment range min max	Weight	Part No.
	[l/min]	[bar]	[kg]	
G 1/4	1000	0.2 - 6	0.35	0821302743

nominal flow Qn with secondary pressure 6 bar at  $\Delta p = 1$  bar

#### **Application example**



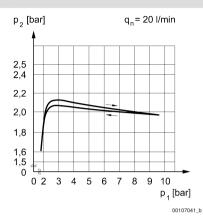
p1 = working pressure

p21; p22; p23 = secondary pressure

# Pressure regulator, Series NL1-RGS

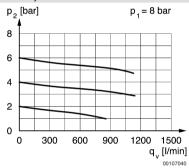
► G 1/4 ► Qn=1000 l/min ► Activation: mechanical ► with continuous pressure supply ► with pressure gauge in hand wheel ► ATEX certified

#### Pressure characteristics curve



p1 = working pressure; p2 = secondary pressure; qn = nominal flow

# Flow rate characteristic (setting range p2: 0.5 - 6 bar)

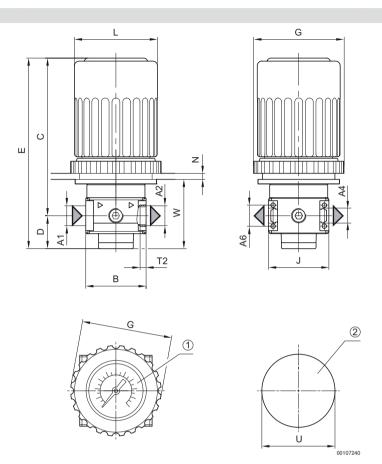


p1 = working pressure; p2 = secondary pressure; qn = nominal flow

# Pressure regulator, Series NL1-RGS

► G 1/4 ► Qn=1000 l/min ► Activation: mechanical ► with continuous pressure supply ► with pressure gauge in hand wheel ► ATEX certified

#### **Dimensions**



- 1) pressure gauge Ø 25
- 2) opening for control panel assembly
  Panel nut included in scope of delivery

A1	A2	A4	A6	В	С	D	Е	G	J	L	N	T2	U
G 1/4	G 1/4	G 1/8	G 1/4	40	90	22	112	40	40	33.6	4	8	31.5
A1	W												
G 1/4	43												

# Filter pressure regulator, Series NL1-FRE

# ▶ G 1/8 - G 1/4 ▶ filter porosity: 5 μm ▶ ATEX certified



ATEX II 2G2D X

Maintenance Unit 1-in-1, Can be assembled into blocks

Parts Pressure controller, Filter

Regulator type Diaphragm-type pressure regulator

single

vertical

Regulator function with relieving air exhaust

Pressure supply Installation location Nominal flow Qn

Nominal flow Qn

Ambient temperature min./max.

-10°C / +60°C

Medium temperature min./max.

-10°C / +60°C

Working pressure min./max.

1.5 bar / 16 bar

Adjustment range min./max.

0.5 bar / 10 bar

Medium

Compressed air

Filter element

exchangeable

Filter reservoir volume 16 cm³

Condensate drain See table below

Materials:

Housing Die cast zinc

Seal 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.
- lockable regulator head
- Max. particle count as per ISO 8573-4 at the outlet: 5 mg/m³

	Port	Condensate drain	Weight	Note	Part No.
			[kg]		
	G 1/8	semi-automatic, open without pressure	0.334	1)	0821300750
	G 1/8	semi-automatic, open without pressure	0.383	2)	0821300751
	G 1/8	fully automatic, open without pressure	0.387	1)	0821300752
L	G 1/4	semi-automatic, open without pressure	0.334	1)	0821300756
	G 1/4	semi-automatic, open without pressure	0.383	2)	0821300757
	G 1/4	fully automatic, open without pressure	0.387	1)	0821300758

nominal flow Qn with secondary pressure 6 bar at  $\Delta p = 1$  bar

Metal protective guard can be retrofitted for all polycarbonate reservoirs

- 1) Reservoir: Polycarbonate
- 2) Reservoir: Die cast zinc

# Filter pressure regulator, Series NL1-FRE

▶ G 1/8 - G 1/4 ▶ filter porosity: 5 μm ▶ ATEX certified

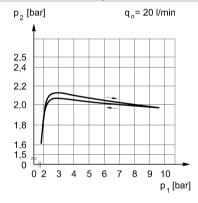
		Port	Condensate drain	Weight	Note	Part No.
				[kg]		
		G 1/8	semi-automatic, open without pressure	0.334	1)	0821300753
		G 1/8	semi-automatic, open without pressure	0.383	2)	0821300754
<b>↑</b>		G 1/8	fully automatic, open without pressure	0.387	1)	0821300755
	-	G 1/4	semi-automatic, open without pressure	0.334	1)	0821300759
		G 1/4	semi-automatic, open without pressure	0.383	2)	0821300760
		G 1/4	fully automatic, open without pressure	0.387	1)	0821300761

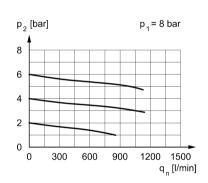
nominal flow Qn with secondary pressure 6 bar at  $\Delta p = 1$  bar

Metal protective guard can be retrofitted for all polycarbonate reservoirs

- 1) Reservoir: Polycarbonate
- 2) Reservoir: Die cast zinc

#### Pressure characteristics curve, flow characteristics





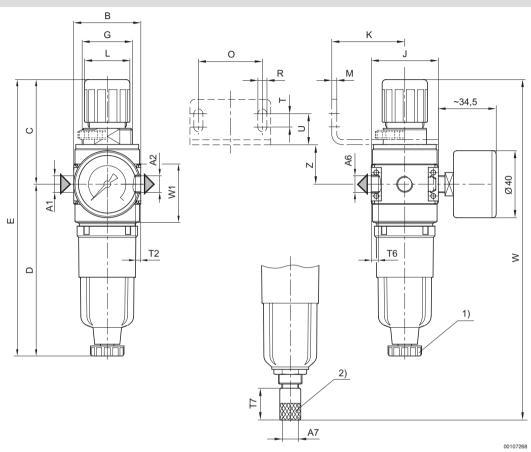
p1 = working pressure; p2 = secondary pressure; qn = nominal flow

00112009

# Filter pressure regulator, Series NL1-FRE

► G 1/8 - G 1/4 ► filter porosity: 5 µm ► ATEX certified

#### **Dimensions**



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

A1	A2	А3	A6	A7	В	С	D	Е	G	J	K	L	М
G 1/8	40	62.5	102.5	165	M30x1,5	40	43.5	27	3				
G 1/4	G 1/4	G 1/8	G 1/8	G 1/8	40	62.5	102.5	165	M30x1,5	40	43.5	27	3
A1	0	R	т	T2	Т6	T7		W	W1	7			
AI	0	n	1	12	10	17	U	VV	VVI				
G 1/8	38	5.4	8	8	6	8.5	18.5	203	44	24.5			
G 1/4	38	5.4	8	8	6	8.5	18.5	203	44	24.5			

# Filter pressure regulator, Series NL1-FRE

► G 1/8 - G 1/4 ► filter porosity: 5 μm ► cold-resistant



ATEX II 2G2D X

Maintenance Unit 2-in-1, Can be assembled into blocks

Parts Pressure controller, Filter

Regulator type Diaphragm-type pressure regulator

with relieving air exhaust Regulator function

Pressure supply single Installation location vertical Nominal flow Qn 950 l/min Ambient temperature min./max. -30°C / +50°C Medium temperature min./max. -30°C / +50°C Working pressure min./max. 1.5 bar / 16 bar Adjustment range min./max. 0.5 bar / 10 bar Medium Compressed air

exchangeable Filter reservoir volume 16 cm<sup>3</sup>

Condensate drain semi-automatic, open without pressure

Materials:

Filter element

Die cast zinc Housing Reservoir Polycarbonate 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.

■ Max. particle count as per ISO 8573-4 at the outlet: 5 mg/m³

Port	Weight	Part No.
	[kg]	
 G 1/8		R412007618
G 1/4	0.334	R412007619

Reservoir: Polycarbonate

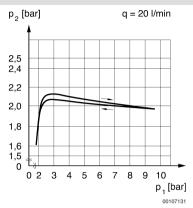
Metal protective guard can be retrofitted for all polycarbonate reservoirs

nominal flow Qn with secondary pressure 6 bar at  $\Delta p = 1$  bar

# Filter pressure regulator, Series NL1-FRE

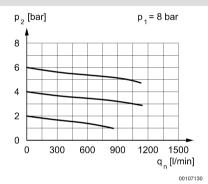
► G 1/8 - G 1/4 ► filter porosity: 5 µm ► cold-resistant

#### Pressure characteristics curve



p1 = working pressure; p2 = secondary pressure; q = flow rate

## Flow rate characteristic

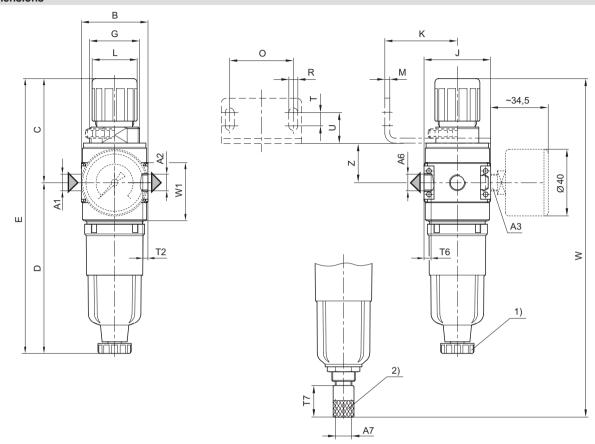


p1 = working pressure; p2 = secondary pressure; qn = nominal flow

# Filter pressure regulator, Series NL1-FRE

► G 1/8 - G 1/4 ► filter porosity: 5 μm ► cold-resistant

#### **Dimensions**



00127882

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

	A1	A2	A3	A6	A7	В	С	D	E	G	J	K	L	M
	G 1/8	40	62.5	102.5	165	M30x1,5	40	43.5	27	3				
l	G 1/4	G 1/4	G 1/8	G 1/8	G 1/8	40	62.5	102.5	165	M30x1,5	40	43.5	27	3
Г	A1	0	R	т	T2	T6		U	W	W1	7			
L	AI	U	n		12	10	17	U	VV	VV I				
	G 1/8	38	5.4	8	8	6	8.5	18.5	203	44	24.5			
	G 1/4	38	5.4	8	8	6	8.5	18.5	203	44	24.5			

# Filter, Series NL1-FLS

# ▶ G 1/8 - G 1/4 ▶ filter porosity: 5 μm ▶ ATEX certified



ATEX II 2G2D X

Version Standard filter, Can be assembled into

blocks

16 cm<sup>3</sup>

Installation location vertical

 $\begin{array}{lll} \mbox{Ambient temperature min./max.} & -10\,^{\circ}\mbox{C} \ / \ +60\,^{\circ}\mbox{C} \\ \mbox{Medium temperature min./max.} & -10\,^{\circ}\mbox{C} \ / \ +60\,^{\circ}\mbox{C} \\ \mbox{Working pressure min./max.} & 1.5\mbox{ bar} \ / \ 16\mbox{ bar} \\ \mbox{Medium} & \mbox{Compressed air} \\ \mbox{Filter element} & \mbox{exchangeable} \\ \mbox{filter porosity} & 5\mbox{ } \mu \mbox{m} \\ \end{array}$ 

Materials:

Housing Die cast zinc

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.

Filter reservoir volume

- Max. particle count as per ISO 8573-4 at the outlet: 5 mg/m³
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 6

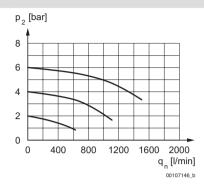
Port	Qn	Condensate drain	Reservoir	Weight	Part No.
	[l/min]			[kg]	
G 1/8		semi-automatic, open without pressure	Polycarbonate	0.334	0821303710
G 1/8		semi-automatic, open without pressure	Die cast zinc	0.259	0821303711
G 1/8	1000	fully automatic, open without pressure	Polycarbonate	0.263	0821303712
G 1/4	semi-automatic, open without pressure	Polycarbonate	0.21	0821303713	
G 1/4		semi-automatic, open without pressure	Die cast zinc	0.259	0821303714
G 1/4		fully automatic, open without pressure	Polycarbonate	0.263	0821303715

nominal flow Qn with secondary pressure 6 bar at  $\Delta p=1$  bar Metal protective guard can be retrofitted for all polycarbonate reservoirs

# Filter, Series NL1-FLS

# ▶ G 1/8 - G 1/4 ▶ filter porosity: 5 μm ▶ ATEX certified

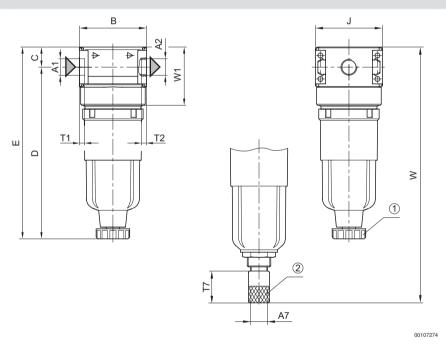
#### Flow rate characteristic



p2 = secondary pressure

#### qn = nominal flow

## **Dimensions**



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

Part No.	A1	A2	A7	В	С	D	E	J	T1	T2	T7	W
0821303710	G 1/8	G 1/8	G 1/8	40	12.3	102.5	114.8	40	8	8	8.5	153
0821303711	G 1/8	G 1/8	G 1/8	40	12.3	102.5	114.8	40	8	8	8.5	153
0821303712	G 1/8	G 1/8	G 1/8	40	12.3	102.5	114.8	40	8	8	8.5	153
0821303713	G 1/4	G 1/4	G 1/8	40	12.3	102.5	114.8	40	8	8	8.5	153
0821303714	G 1/4	G 1/4	G 1/8	40	12.3	102.5	114.8	40	8	8	8.5	153
0821303715	G 1/4	G 1/4	G 1/8	40	12.3	102.5	114.8	40	8	8	8.5	153
Part No	W1											

Part No.	W1						
0821303710	35.1						
0821303711	35.1						

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# Filter, Series NL1-FLS

► G 1/8 - G 1/4 ► filter porosity: 5 µm ► ATEX certified

Part No.	W1						
0821303712	35.1						
0821303713	35.1						
0821303714	35.1						
0821303715	35.1						

# Microfilter, Series NL1-FLC

# ► G 1/8 - G 1/4 ► filter porosity: 0.01 µm ► ATEX certified



ATEX II 2G2D T4 X

Version Microfilter, Can be assembled into blocks

vertical

16 cm<sup>3</sup>

Ambient temperature min./max. -10°C / +60°C

Medium temperature min./max. -10°C / +60°C

Working pressure min./max. 1.5 bar / 16 bar

Medium Compressed air

Filter element exchangeable

filter porosity 0.01 µm

Materials:

Installation location

Filter reservoir volume

Housing Die cast zinc

Seals Acrylonitrile Butadiene Rubber

Reservoir Polycarbonate

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.

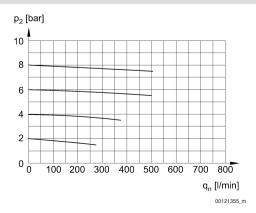
Residual oil content: 0.01 mg/m³
 Recommended pre-filtering: 5 µm

■ solid impurities in the compressed air at the outlet as per ISO 8573-1: class 1

	Port	Qn	Condensate drain	Reservoir	
		[l/min]			
$\wedge$	G 1/8	170	semi-automatic, open without pressure		
	G 1/4	450	semi-automatic, open without pressure	Polycarbonate	
	G 1/8	170	fully automatic, open without pressure		
Naminal flaw On at 6 h	or and An O 1 ha				

Nominal flow Qn at 6 bar and  $\Delta p = 0.1$  bar.

#### Flow rate characteristic G1/8



p2 = secondary pressure

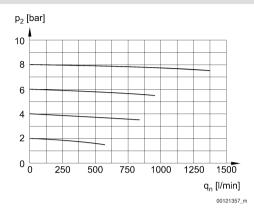
qn = nominal flow

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information Pneumatics catalog, online PDF, as of 2011-03-14, © Bosch Rexroth AG, subject to change

# Microfilter, Series NL1-FLC

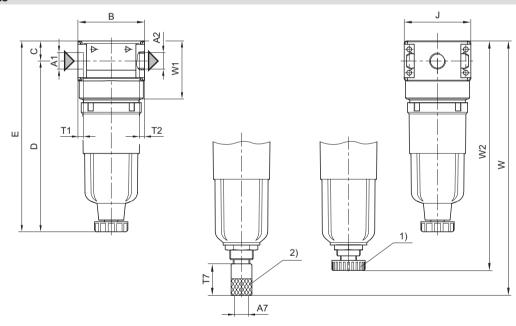
► G 1/8 - G 1/4 ► filter porosity: 0.01 µm ► ATEX certified

#### Flow rate characteristic G1/4



p2 = secondary pressure qn = nominal flow

#### **Dimensions**



00107279

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

# Active carbon filter, Series NL1-FLA ► G 1/8 - G 1/4 ► ATEX certified



ATEX II 2G2D X

Version Active carbon filter, Can be assembled into

blocks

Installation location vertical

Ambient temperature min./max. -10°C / +60°C

Medium temperature min./max. -10°C / +60°C

Working pressure min./max. 0.5 bar / 16 bar

Medium Compressed air

Filter element exchangeable

Filter reservoir volume 16 cm³

Materials:

Housing Die cast zinc

Seals Acrylonitrile Butadiene Rubber

Reservoir Polycarbonate
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.

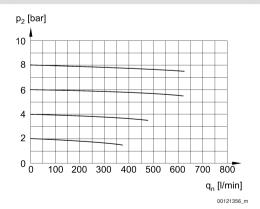
- Recommended pre-filtering: 0.01  $\mu$ m
- max. residual oil content at the outlet: 0.005 mg/m³
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 1

	Port	Qn	Reservoir	Weight	Part No.
		[l/min]		[kg]	
$\wedge$	G 1/8	310		0.19	0821303720
	G 1/4	380	Polycarbonate	0.21	0821303721

Nominal flow Qn at 6 bar and  $\Delta p = 0.1$  bar.

Metal protective guard can be retrofitted for all polycarbonate reservoirs

#### Flow rate characteristic G1/8



p2 = secondary pressure

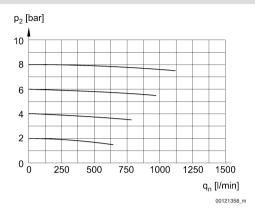
qn = nominal flow

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information Pneumatics catalog, online PDF, as of 2011-03-14, © Bosch Rexroth AG, subject to change

# Active carbon filter, Series NL1-FLA

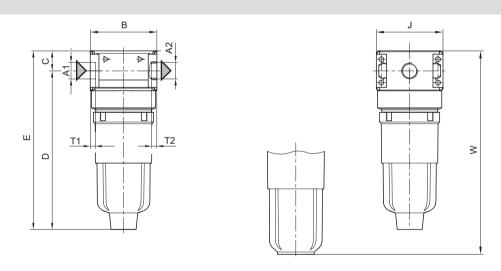
► G 1/8 - G 1/4 ► ATEX certified

#### Flow rate characteristic G1/4



p2 = secondary pressure qn = nominal flow

#### **Dimensions**



00107282

Part No.	A1	A2	В	С	D	Е	J	T1	T2	W	
0821303720	G 1/8	G 1/8	40	12.3	95.5	108	40	8	8	-	
0821303721	G 1/4	G 1/4	40	12.3	_	_	40	8	8	123	

# Micro oil-mist lubricator, Series NL1-LBM ► G 1/8 - G 1/4 ► ATEX certified



ATEX II 2G2D X

Version Micro oil-mist lubricator, Can be assembled

into blocks

Installation location vertical

Lubricator reservoir volume 35 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)

Materials:

Housing Die cast zinc

Seal Acrylonitrile Butadiene Rubber

# Technical Remarks

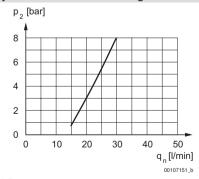
■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.

- 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	Reservoir	Weight	Part No.
		[l/min]		[kg]	
	G 1/8		Polycarbonate	0.23	0821301702
$ $ $\langle$ $\rangle$	G 1/8	1000	Die cast zinc	0.262	0821301703
	G 1/4	1000	Polycarbonate	0.23	0821301704
	G 1/4		Die cast zinc	0.262	0821301705

nominal flow Qn with secondary pressure 6 bar at  $\Delta p = 1$  bar Metal protective guard can be retrofitted for all polycarbonate reservoirs

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

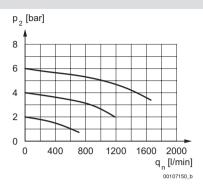


p2 = secondary pressure; qnmin. = min. nominal flow

# Micro oil-mist lubricator, Series NL1-LBM

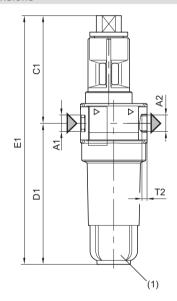
# ► G 1/8 - G 1/4 ► ATEX certified

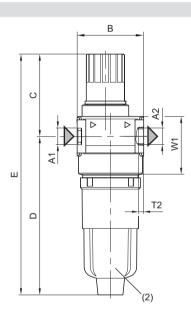
#### Flow rate characteristic

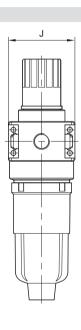


p2 = secondary pressure qn = nominal flow

#### **Dimensions**







00107287\_b

- 1) Metal reservoir
- 2) PC reservoir

A1	A2	В	С	C1	D	D1	Е	E1	J	T2	W1	
G 1/8	G 1/8	40	50	65	95.5	85	145.5	150	40	8	35	
G 1/4	G 1/4	40	50	65	95.5	85	145.5	150	40	8	35	

# Filling unit, electrically operated, Series NL1-SSU

# ► G 1/4 ► pipe connection ► Electr. connection: Plug, ISO 6952, form B ► ATEX optional



Parts Filling valve, 3/2-way valve, electrically

operated

Version Poppet valve, Can be assembled into blocks

Protected against polarity reversal

Pilot internal
Sealing principle soft sealing
Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

-10°C / +60°C

Medium

Compressed air

Max. particle size  $5 \mu m$ 

Protection class, with Plug IP 65

Duty cycle 100 %

Materials:

Housing Die cast zinc

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.
- 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.

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

		Port	Exhaust		Operating voltage		Q	n	Weight	Note	Part No.
				DC	AC 50 Hz	AC 60 Hz	1▶2	2▶3			
								[l/min]	[kg]		
2				24 V	-	-			0.88	1)	0821300796
				-	230 V	230 V			0.88	1)	0821300797
	-	G 1/4	G 1/4				2000	800			
[27]   W				-	-	-			0.85	1); 2); 3); 4)	0821300798
1 3 - 1											

nominal flow Qn with secondary pressure 6 bar at  $\Delta p = 1$  bar

- 1) adjustable filling
- 2) pilot valve without coil
- 3) Manual override: with detent
- 4) ATEX optional

# Filling unit, electrically operated, Series NL1-SSU

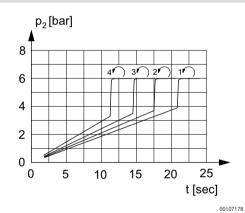
► G 1/4 ► pipe connection ► Electr. connection: Plug, ISO 6952, form B ► ATEX optional

	Port	Exhaust		Operating voltage		Q	n	Weight	Note	Part No.
			DC	AC 50 Hz	AC 60 Hz	1▶2	2▶3			
							[l/min]	[kg]		
2 2 1 1 1 1 3 M	G 1/4	G 1/4	-	-	-	2000	800	0.85	1); 2); 4)	0821300799

nominal flow Qn with secondary pressure 6 bar at  $\Delta p = 1$  bar

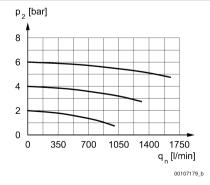
- 1) adjustable filling
- 2) pilot valve without coil
- 3) Manual override: with detent
- 4) ATEX optional

#### Secondary pressure while filling



adjustable filling p2 = secondary pressure t = filling time

#### Flow rate characteristic



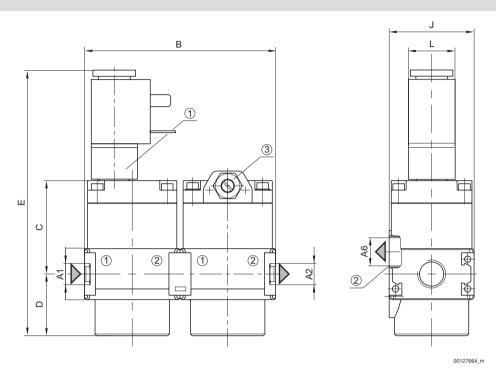
p2 = secondary pressure qn = nominal flow

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information Pneumatics catalog, online PDF, as of 2011-03-14, © Bosch Rexroth AG, subject to change

# Filling unit, electrically operated, Series NL1-SSU

► G 1/4 ► pipe connection ► Electr. connection: Plug, ISO 6952, form B ► ATEX optional

#### **Dimensions**



- 1) electrically operated
- 2) exhaust
- 3) Adjustment screw for filling time

	<b>A</b> 1	A2	A6	В	С	D	J	L	L1	W		
G	1/4	G 1/4	G 1/4	90	44.5	29	40	22	22	89.5		

# Filling unit, pneumatically operated, Series NL1-SSU

# ► G 1/4 ► pipe connection ► ATEX certified



00127665

ATEX II 2G2D X

Parts Filling valve, 3/2-way valve, pneumatically

operated

Version Poppet valve, Can be assembled into blocks

Sealing principle soft sealing
Working pressure min./max. 2.5 bar / 10 bar
Ambient temperature min./max. -10°C / +60°C
Medium temperature min./max. -10°C / +60°C
Medium Compressed air

Max. particle size 5  $\mu$ m

Materials:

Housing Die cast zinc

Seals Acrylonitrile Butadiene Rubber

#### Technical Remarks

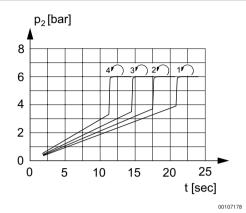
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.

	Port	Exhaust		Qn	Control pres- sure min./max.	Weight	Part No.
			1▶2	2▶3			
			[I/m	nin]	[bar]	[kg]	
2 <sup>2</sup>	G 1/4	G 1/4	2000	800	2.5 / 16	0.83	0821300795

nominal flow Qn with secondary pressure 6 bar at  $\Delta p = 1$  bar

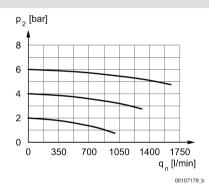
# Filling unit, pneumatically operated, Series NL1-SSU ▶ G 1/4 ▶ pipe connection ▶ ATEX certified

#### Secondary pressure while filling



adjustable filling p2 = secondary pressure t = filling time

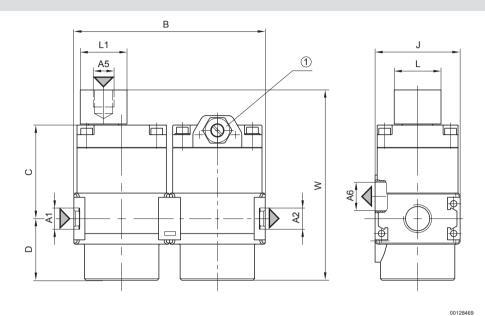
#### Flow rate characteristic



p2 = secondary pressure qn = nominal flow

# Filling unit, pneumatically operated, Series NL1-SSU ▶ G 1/4 ▶ pipe connection ▶ ATEX certified

#### **Dimensions**



A5 = pilot connection Adjustment screw for filling time
 A6 = ventilation port

Part No.	A1	A2	A5	A6	В	С	D	J	L	L1	W	
0821300795	G 1/4	G 1/8	G1/8	G 1/4	90	44.5	29	40	22	22	89.5	

# 3/2-shut-off valve, mechanically operated, Series NL1-BAV ► G 1/8 - G 1/4 ► ATEX certified



ATEX II 2G2D X Version Ball valve

> with padlock lockable rotary switch

Actuating element rotary switch
Sealing principle metal/metal sealing
Working pressure min./max. 0 bar / 16 bar
Ambient temperature min./max. -10°C / +60°C
Medium temperature min./max. -10°C / +60°C
Medium Compressed air

Materials:

Housing Die cast zinc

Seals Acrylonitrile Butadiene Rubber

Actuating element Polyoxymethylene

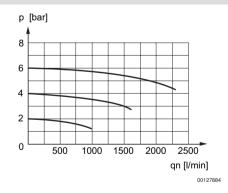
#### **Technical Remarks**

■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.

Port	Exhaust	Qn		Weight	Part No.
		1▶2	2▶3		
		[l/min]		[kg]	
G 1/8					0821300772
G 1/4	G 1/4	1800	70	0.246	0821300773

nominal flow Qn with secondary pressure 6 bar at  $\Delta p = 1$  bar

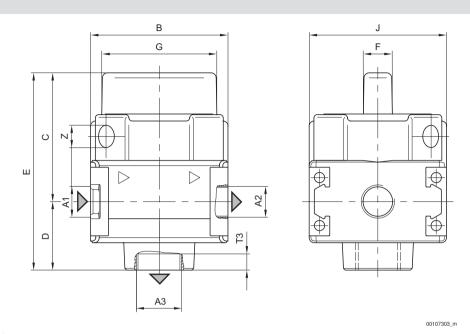
#### Flow rate characteristic



# 3/2-shut-off valve, mechanically operated, Series NL1-BAV

► G 1/8 - G 1/4 ► ATEX certified

#### **Dimensions**



A3 = ventilation port

A1	A2	A3	В	С	D	Е	F	G	J	T3	Z	
G 1/8	G 1/8	G 1/4	40	37.6	20	57.6	8	33.5	40	10	6.5	
G 1/4	G 1/4	G 1/4	40	37.6	20	57.6	8	33.5	40	10	6.5	

# 3/2-way valve, electrically operated, Series NL1-SOV

# ► G 1/4 ► pipe connection ► Electr. connection: Plug, ISO 6952, form B ► ATEX optional



Version Poppet valve, Can be assembled into blocks

Protected against polarity reversal

Pilot internal
Sealing principle soft sealing
Working pressure min./max. 2.5 bar / 10 bar
Ambient temperature min./max. -10°C / +60°C
Medium temperature min./max. -10°C / +60°C
Medium Compressed air

Max. particle size  $5 \mu m$ 

Protection class, with Plug IP 65
Duty cycle 100 %

Materials:

Housing Die cast zinc

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	DC	AC 50 Hz	AC 50 Hz
			W	VA	VA
24 V			4.8	-	-
-	230 V	230 V	-	11.8	8.5

		Port	Exhaust	Operating voltage		Qn		Weight	Note	Part No.	
				DC	AC 50 Hz	AC 60 Hz	1▶2	2▶3			
								[l/min]	[kg]		
2				24 V	-	-					0821300776
1 3 W	-	G 1/4	G 1/4	-	230 V	230 V	2200	800	0.45	-	0821300777
2 1 3	-	G 1/4	G 1/4	-	-	-	2200	800	0.42	1); 3)	0821300778
2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		G 1/4	G 1/4	-	-	-	2200	800	0.42	1); 2); 3)	0821300779

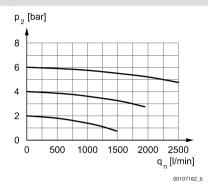
nominal flow Qn with secondary pressure 6 bar at  $\Delta p = 1$  bar

- 1) pilot valve without coil
- 2) Manual override: with detent
- 3) ATEX optional

# 3/2-way valve, electrically operated, Series NL1-SOV

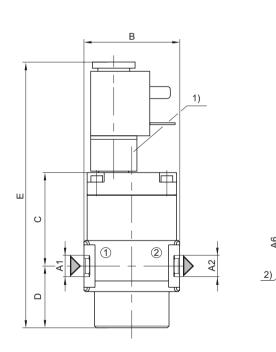
▶ G 1/4 ▶ pipe connection ▶ Electr. connection: Plug, ISO 6952, form B ▶ ATEX optional

#### Flow rate characteristic



p2 = secondary pressure qn = nominal flow

#### **Dimensions**



00127662\_m

Ø

- 1) electrically operated
- 2) Port 3 (Exhaust)

A1	A2	A6	В	С	D	Е	J	L			
G 1/4	G 1/4	G 1/4	45	44.5	29	124.5	40	22			

# 3/2-way valve, electrically operated, Series NL1-SOV

► G 1/4 ► pipe connection ► Electr. connection: Plug, ISO 6952, form B ► with continuous pressure supply

► ATEX optional



Version Poppet valve, Can be assembled into blocks

Protected against polarity reversal

Pilot internal
Sealing principle soft sealing
Working pressure min./max. 2.5 bar / 10 bar
Ambient temperature min./max. -10°C / +60°C
Medium temperature min./max. -10°C / +60°C
Medium Compressed air

Max. particle size  $5 \mu m$ 

Protection class, with Plug IP 65
Duty cycle 100 %

Materials:

Housing Die cast zinc

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	DC	AC 50 Hz	AC 50 Hz
			W	VA	VA
24 V	-	-	4.8	-	-
-	230 V	230 V	-	11.8	8.5

		Port	Exhaust	Operating voltage		Qn		Weight	Note	Part No.	
				DC	AC 50 Hz	AC 60 Hz	1▶2	2▶3			
								[l/min]	[kg]		
2   T   T   T   T   T   T   T   T   T	-	G 1/4	G 1/4	24 V -	230 V	230 V	2000	800	0.45	-	0821300673 0821300674
2   1   3	-	G 1/4	G 1/4	-	-	-	2000	800	0.42	1); 3)	0821300675
2 1 3		G 1/4	G 1/4	-	-	-	2000	800	0.42	1); 2); 3)	0821300676

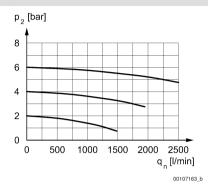
nominal flow Qn with secondary pressure 6 bar at  $\Delta p = 1$  bar

- 1) pilot valve without coil
- 2) Manual override: with detent
- 3) ATEX optional

# 3/2-way valve, electrically operated, Series NL1-SOV

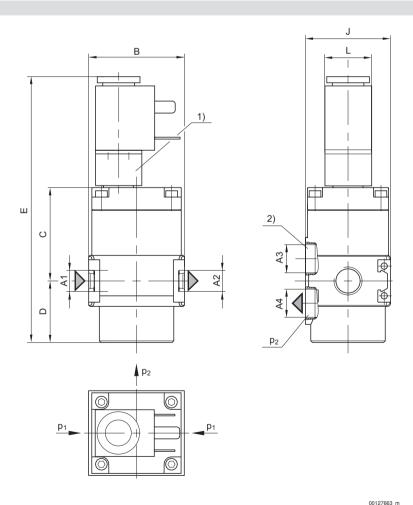
- ► G 1/4 ► pipe connection ► Electr. connection: Plug, ISO 6952, form B ► with continuous pressure supply
- ► ATEX optional

#### Flow rate characteristic



p2 = secondary pressure qn = nominal flow

#### **Dimensions**



1) electrically operated p1 = working pressure p2 = secondary pressure 2) Port 3 (Exhaust)

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information Pneumatics catalog, online PDF, as of 2011-03-14, © Bosch Rexroth AG, subject to change

# 3/2-way valve, electrically operated, Series NL1-SOV

► G 1/4 ► pipe connection ► Electr. connection: Plug, ISO 6952, form B ► with continuous pressure supply

► ATEX optional

A1	A2	А3	A4	A6	В	С	D	Е	J	L		
G 1/4	45	44.5	29	124.5	40	22						

# 3/2-way valve, pneumatically operated, Series NL1-SOV

# ► G 1/4 ► pipe connection ► ATEX certified



ATEX II 2G2D X

Version Poppet valve, Can be assembled into blocks

 $\begin{array}{lll} \text{Sealing principle} & \text{soft sealing} \\ \text{Working pressure min./max.} & 2.5 \text{ bar / } 10 \text{ bar} \\ \text{Ambient temperature min./max.} & -10 ^{\circ}\text{C} \text{ / } +60 ^{\circ}\text{C} \\ \text{Medium temperature min./max.} & -10 ^{\circ}\text{C} \text{ / } +60 ^{\circ}\text{C} \\ \text{Medium} & \text{Compressed air} \\ \end{array}$ 

Max. particle size 5  $\mu$ m

Materials:

Housing Die cast zinc

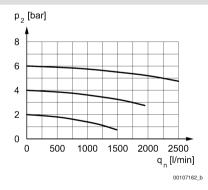
Seals Acrylonitrile Butadiene Rubber

#### Technical Remarks

■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.

	Port	Exhaust		Qn	Control pres- sure min./max.	Weight	Part No.			
			1▶2	2▶3						
			[l/m	nin]	[bar]	[kg]				
2										
12 T T W	G 1/4	G 1/4	2200	800	2.5 / 16	0.4	0821300775			
nominal flow Qn with secondary pressure 6 bar at Δp = 1 bar										

#### Flow rate characteristic

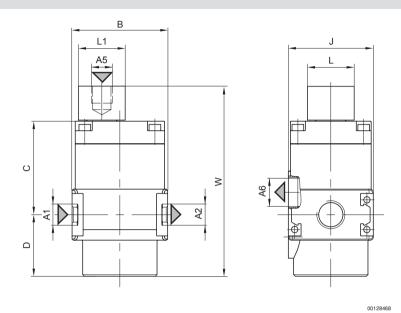


p2 = secondary pressure qn = nominal flow

# 3/2-way valve, pneumatically operated, Series NL1-SOV

# ► G 1/4 ► pipe connection ► ATEX certified

#### **Dimensions**



A5 = pilot connection A6 = ventilation port

Part No.	A1	A2	A5	A6	В	С	D	J	L	L1	W	
0821300775	G 1/4	G 1/4	G 1/8	G 1/4	45	44.5	29	40	22	22	89.5	

# 3/2-way valve, pneumatically operated, Series NL1-SOV

# ▶ G 1/4 ▶ pipe connection ▶ with continuous pressure supply ▶ ATEX certified



ATEX II 2G2D X

Version Poppet valve, Can be assembled into blocks

Max. particle size 5  $\mu$ m

Materials:

Housing Die cast zinc

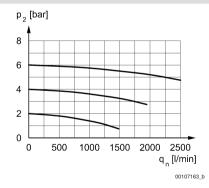
Seals Acrylonitrile Butadiene Rubber

#### Technical Remarks

■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.

	Port	Exhaust		Qn	Control pres- sure min./max.	Weight	Part No.
			1▶2	2▶3			
			[l/m	nin]	[bar]	[kg]	
12 J J W	G 1/4	G 1/4	2200	800	2.5 / 16	0.4	0821300672
nominal flow Qn wit	th secondary pressur	re 6 bar at Δp = 1 ba	r				

#### Flow rate characteristic

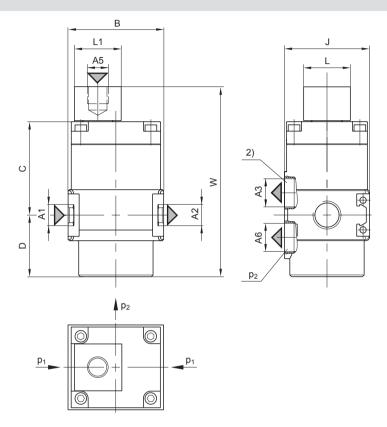


p2 = secondary pressure qn = nominal flow

# 3/2-way valve, pneumatically operated, Series NL1-SOV

▶ G 1/4 ▶ pipe connection ▶ with continuous pressure supply ▶ ATEX certified

#### **Dimensions**



00128467

A5 = pilot connection p1 = working pressure p2 = secondary pressure 2) A6 = ventilation port

Part No.	A1	A2	A3	A5	A6	В	С	D	J	L	L1	W
0821300672	G 1/4	G 1/4	G 1/4	G 1/8	G 1/4	45	44.5	29	40	22	22	89.5

# Filling valve, pneumatically operated, Series NL1-SSV

# ▶ G 1/4 ▶ pipe connection ▶ adjustable filling time ▶ ATEX certified



ATEX II 2G2D X

Version Poppet valve, Can be assembled into blocks

Sealing principle soft sealing Working pressure min./max. 2.5 bar / 16 bar Ambient temperature min./max. -10°C/+60°C Medium temperature min./max. -10°C / +60°C Medium Compressed air

Max. particle size  $5 \mu m$ 

Materials:

Housing Die cast zinc

Seals Acrylonitrile Butadiene Rubber

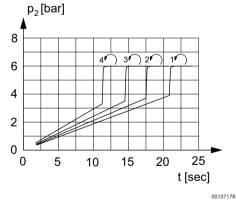
#### **Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- 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.

	Port	Qn	Weight	Part No.
		[l/min]	[kg]	
- T**	G 1/4	2200	0.43	0821300774
nominal flow On with secondary	proceure 6 har at An - 1 har			

#### nominal flow Qn with secondary pressure 6 bar at $\Delta p = 1$ bar

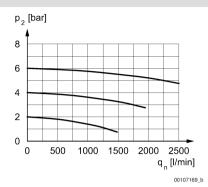
#### Secondary pressure while filling



adjustable filling p2 = secondary pressure t = filling time

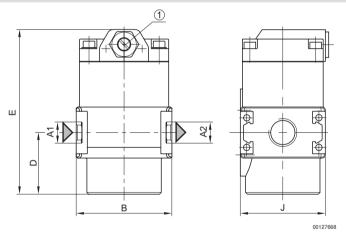
# Filling valve, pneumatically operated, Series NL1-SSV ▶ G 1/4 ▶ pipe connection ▶ adjustable filling time ▶ ATEX certified

#### Flow rate characteristic



p2 = secondary pressure qn = nominal flow

#### **Dimensions**



1) Adjustment screw for filling time

Part No.	A1	A2	В	D	Е	J			
0821300774	G 1/4	G 1/4	45	29	77.5	40			

# **Distributor, Series NL1-DIL**

# ► G 1/4 ► Distributor 2x ► Narrow distributor ► ATEX certified

ATEX II 2G2D X

Version Narrow distributor, Can be assembled into

blocks

Installation location Any

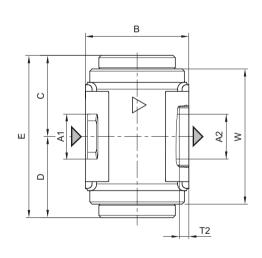
Materials:

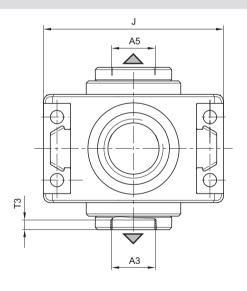
Housing Die cast zinc



	Port		Qn		Weight	Part No.						
		1▶2	1▶3	1▶5								
			[l/min]		[kg]							
G 1/4 2700 1300 1300 0.09 <b>0821300</b>												
nominal flow Qn with secondary pressure 6 bar at $\Delta p = 1$ bar												

#### **Dimensions**





00107307

A1	A2	А3	A5	В	С	D	E	J	T2	T3	W	
G 1/4	G 1/4	G 1/8	G 1/8	23	18	20	40	40	6	8	30	

### Series NL1 Accessories

# Reservoir, Series NL1/AS1-CLS/-CLP/-CLC

# ▶ For filter, filter pressure regulator and microfilters



Version Reservoir

Ambient temperature min./max. -10°C / +50°C

Medium temperature min./max. -10°C / +50°C

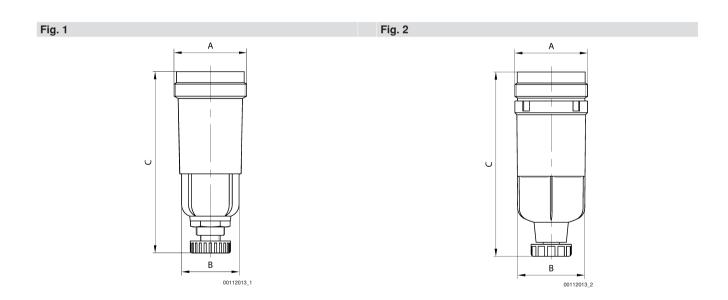
Working pressure min./max. 1.5 bar - 16 bar

Medium Compressed air

Filter reservoir volume 16 cm³

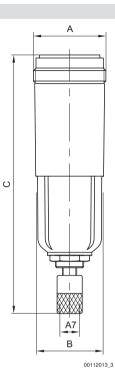
Materials:
Seal Acrylonitrile Butadiene Rubber

Condensate drain	Reservoir	Weight	Fig.	Part No.
		[kg]		
semi-automatic, open without	Die cast zinc	0.153	Fig. 1	1827009640
pressure	Polycarbonate	0.085	Fig. 2	1827009639
fully automatic, open without pressure	Polycarbonate	0.115	Fig. 3	1827009642



### Series NL1 Accessories

#### Fig. 3



Part No.	Α	В	С					
1827009640	M36x1,5	34	90.5					
1827009639	M36x1,5	34	92					
1827009642	M36x1,5	34	131.5					

# Reservoir, Series NL1/AS1-CBM/-CLA/-CBM

# ▶ for active carbon filter and lubricator





00107029

Version
Ambient temperature min./max.
Medium temperature min./max.

Working pressure min./max. Medium

Filter reservoir volume

Materials: Seal Reservoir

-10°C/+50°C

-10°C/+50°C

16 bar

Compressed air Oil

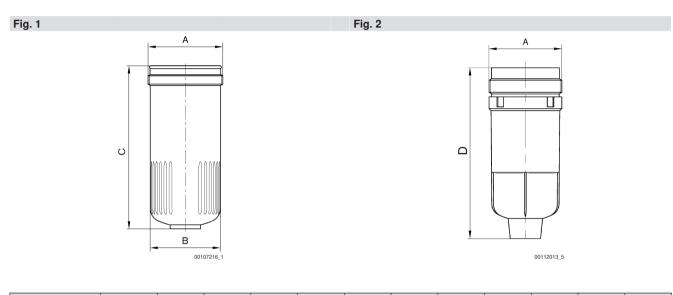
6 om3

16 cm<sup>3</sup>

Acrylonitrile Butadiene Rubber

### Series NL1 Accessories

Reservoir	Weight	Fig.	Part No.
	[kg]		
Delyeerhonete	0.07	Fig. 1	1827009333
Polycarbonate	0.06	Fig. 2	1827009637



Part No.	Α	В	С	D				
1827009333	M36x1,5	30	100	_				
1827009637	M36x1,5		_	85				

# Reservoir, Series NL1/AS1-CBM

# ▶ for lubricator



Version

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

Medium

Filter reservoir volume

Materials:

Seal

Reservoir

-10°C / +50°C -10°C / +50°C

16 bar

Compressed air

Oil

16 cm<sup>3</sup>

Acrylonitrile Butadiene Rubber

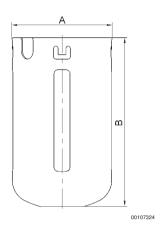
Reservoir	Weight	Part No.
	[kg]	
Die cast zinc	0.125	1827009638

### **Series NL1** Accessories

Protective guard

▶ series NL1 ▶ Filter, Lubricator



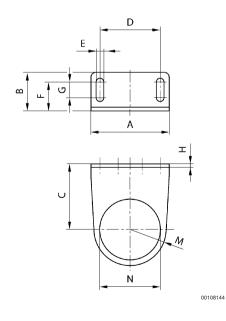


1820507004 37 63 Steel 0.03	Part No.	Α	В	Material	Weight				
1820507004 37 63 Steel 0.03					[kg]				
102001001	1820507004	37	63	Steel	0.03				

Can be retrofitted for PC reservoir

# Mounting bracket ► NL1/NL2-MBR-...-W02





Part No.	Α	В	С	D	Е	F	G	Н	J	K	L	M
1821331013	48	27	43.5	38	5.4	18.5	8	3	-	-	-	20

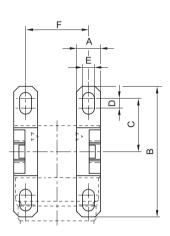
Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information Pneumatics catalog, online PDF, as of 2011-03-14, © Bosch Rexroth AG, subject to change

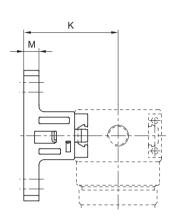
### **Series NL1** Accessories

Part No.	N	Material	Surface	Weight			
				[kg]			
1821331013	30.5	Steel	galvanized	0.065			

# Mounting bracket ► NL1-MBR-...-W05



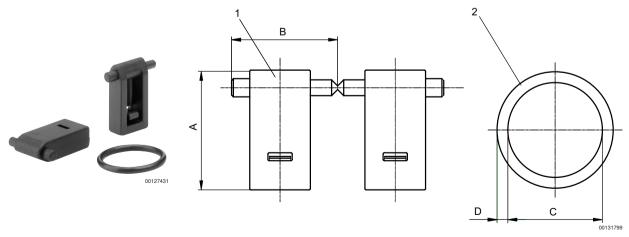




00107314

	Part No.	Α	В	С	D	Е	F	K	М	Material	Weight [kg]	
ŀ	1821336024	11	60	24.5	4.5	5.5	29	43.5	7	Polyamide	0.02	

# Block assembly kit, Series NL1-W04



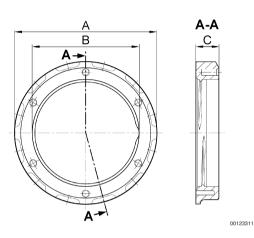
1) coupling clamp 2) O-ring

### Series NL1 Accessories

Part No.	Α	В	С	D	Material	Weight [kg]			
1827009636	19.7	17.5	15.6	1.78	Polyamide	0.02			

# Panel nut, Series NL2-W06





material: polyamide

Part No.	usage	Α	В	С	Material	Weight [kg]		
	Series							
1829234070	NL2	35	M30x1,5	5.5	Brass	0.013		
1829234073	NL2	37.5	M30x1,5	7.5	Plastic	0.006		

### Pressure gauges, Series PG1-SNL

▶ For panel installation ▶ Background color: Black ▶ Scale color: Green / White ▶ Viewing window: Polystyrene



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)

Secondary scale color (inside)

Class

White

1,6

Materials:
Housing Steel
Thread Brass

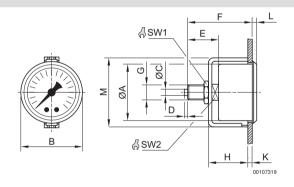
Front ring Steel, chrome-plated

Viewing window Polystyrene

# Series NL1 Accessories

	Compressed air connection	Nominal diameter	Application	Display range	Operating pressure	Scale value	Weight	Part No.
		[mm]	[bar]	[bar]	[bar]		[kg]	
	G 1/8	40	-0.8 - 0	-1 - 0	-1 / 0	0.1	0.097	1827231040
	G 1/8	40	0 - 2	0 - 2.5	0 / 2.5	0.1	0.097	1827231042
	G 1/8	40	0 - 4	0 - 6	0/6	0.2	0.097	1827231041
	G 1/8	40	0 - 8	0 - 10	0 / 10	0.5	0.097	1827231030
	G 1/8	40	0 - 12	0 - 16	0 / 16	0.5	0.097	1827231031
	G 1/4	50	0 - 2	0 - 2.5	0 / 2.5	0.1	0.148	1827231032
	G 1/4	63	0 - 2	0 - 2.5	0 / 2.5	0.1	0.19	1827231036
	G 1/4	50	0 - 4	0 - 6	0/6	0.2	0.148	1827231033
	G 1/4	63	0 - 4	0 - 6	0/6	0.2	0.19	1827231037
	G 1/4	50	0 - 8	0 - 10	0 / 10	0.5	0.148	1827231034
	G 1/4	63	0 - 8	0 - 10	0 / 10	0.5	0.19	1827231038
	G 1/4	50	0 - 12	0 - 16	0 / 16	0.5	0.148	1827231035
	G 1/4	63	0 - 12	0 - 16	0 / 16	0.5	0.19	1827231039
Mounting: with U	-clip							

# **Dimensions**



Com- pressed air con- nection G		ninal neter	ØA	В	С	D	E	F	Н	К	L	М	SW1
G 1/8		40	40	43	_	_	25.5	49	32	4	4	49	17
G 1/4		50	50	54	5	3	29.5	51.5	34.5	3	4.5	61	17
G 1/4		63	63	62	5	3	27	53	36.3	4.2	5.5	75	17
Com- pressed air con- nection G	SW2												
G 1/8	14												
G 1/4	14												
G 1/4	14												



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