

norelem moves

Systems and components for machine and plant construction

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Spring hinges
aluminium profile, 0.9 Nm,
long version



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Spring hinges
aluminium profile
tension spring hinges, 1.3 Nm



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Spring hinges
aluminium profile
tension spring hinges, 3.8 Nm



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Security hinge switches

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Security hinge switches
long version

27000 / 28000

Oil level gauges

Caps

Plugs

Vent screws

Dipsticks

Filler necks



28000
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Oil level gauges

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Oil level gauges

28000-10
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Oil level gauges
with electronic oil level monitoring

28000-11
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Oil level gauges
with electronic temperature monitoring

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Oil level gauges
with electronic oil level and temperature
monitoring

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Oil level gauges
long version

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Oil level gauges
with electronic oil level monitoring, long
version

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Oil level gauges
with electronic temperature monitoring,
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Oil level gauges
with electronic oil level and temperature
monitoring, long version

28004
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Oil level sight glasses

28006
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Oil level sight glasses
press-in

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Oil level sight glasses
domed

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Oil level sight glasses
aluminium

28012
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Oil level sight glasses
aluminium, glass window

New/Expanded Items

norelem

norelem moves

Systems and components for machine and plant construction

28000



Screw plugs with hexagon socket
DIN 906, tapered thread



Screw plugs with collar and hexagon socket
DIN 908



Screw plugs hex head with collar
DIN 910



Screw plugs



Screw plugs with hexagon socket



Press-in plugs



Screw plugs with magnet



Screw plugs aluminium with magnet



Screw plugs aluminium



Screw plugs



Screw plugs with dipstick



Plugs fill only knurled cap



Caps for filler necks



Vent screws



Vent screws with splash guard



Vent screws with check valve



Vent screws brass



Vent screws brass with check valve



Press-in plugs with dipstick



Vent screws with dipstick



Vent screws with check valve and dipstick



Dipsticks



Filler necks



Filler necks



Filler necks

+ New/Expanded Items

28000

Oil level gauges

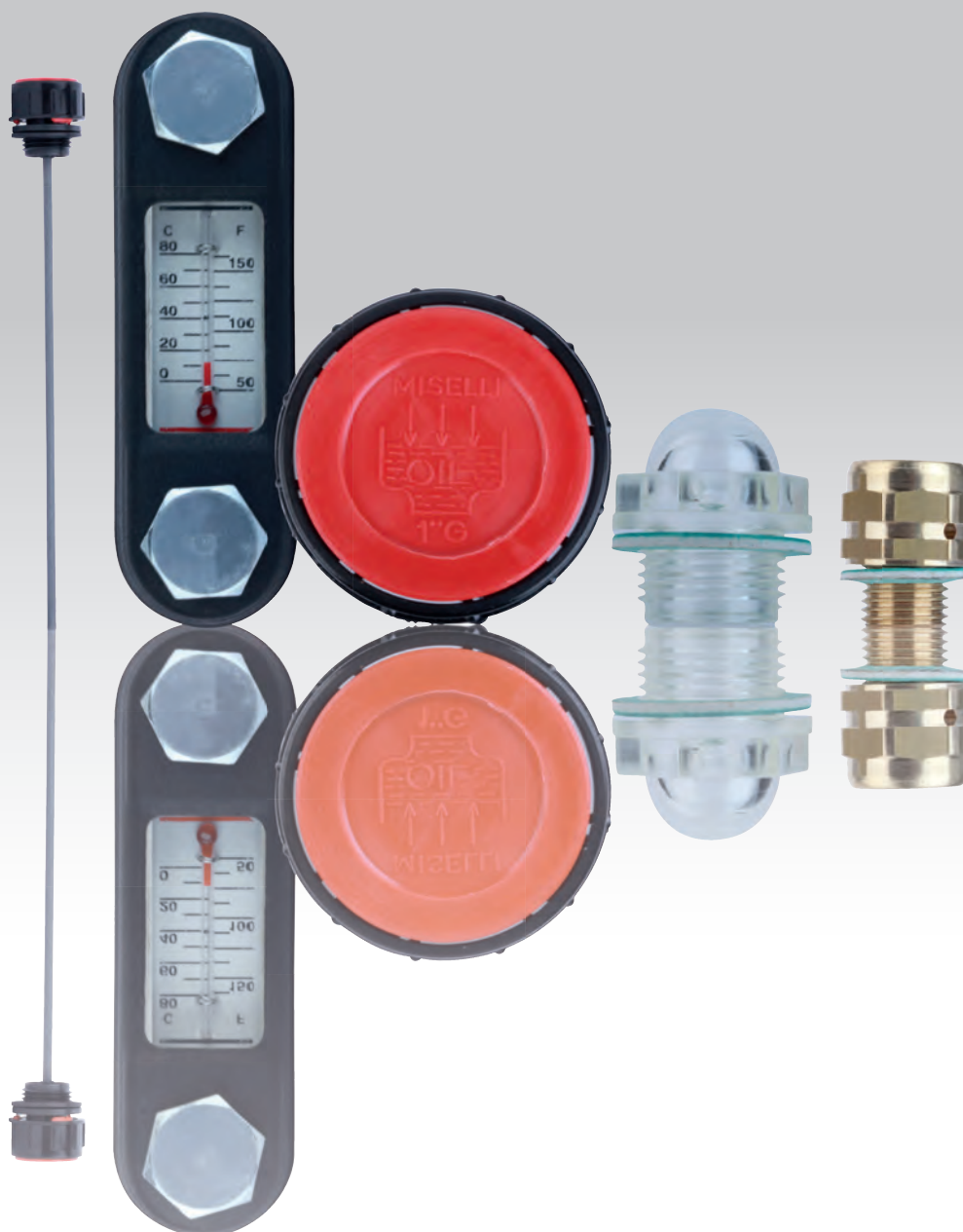
Caps

Plugs

Vent screws

Dipsticks

Filler necks



Oil level gauges



Material:

Housing thermoplastic polyamide.
O-ring and flat seal rubber (NBR).
Reflector aluminium.
Screw and hex nut steel.

Version:

Transparent housing, high mechanical stability,
non-ageing, temperature resistant up to 100 °C.
Pressure resistant at 20 °C up to 10 bar, at 60 °C
up to 8 bar.
Reflector painted white, line marks and scale
black.
Screw and hexagon nut, electro zinc-plated.

Sample order:

nIm 28000-1127

Note:

The oil level gauges can either be fastened as
shown in the illustration or screwed directly into
a tapped hole. Centre distance for the fastening
holes = $L1 \pm 0.3$.

The max. tightening torque for the fastening
screws is 5 Nm.

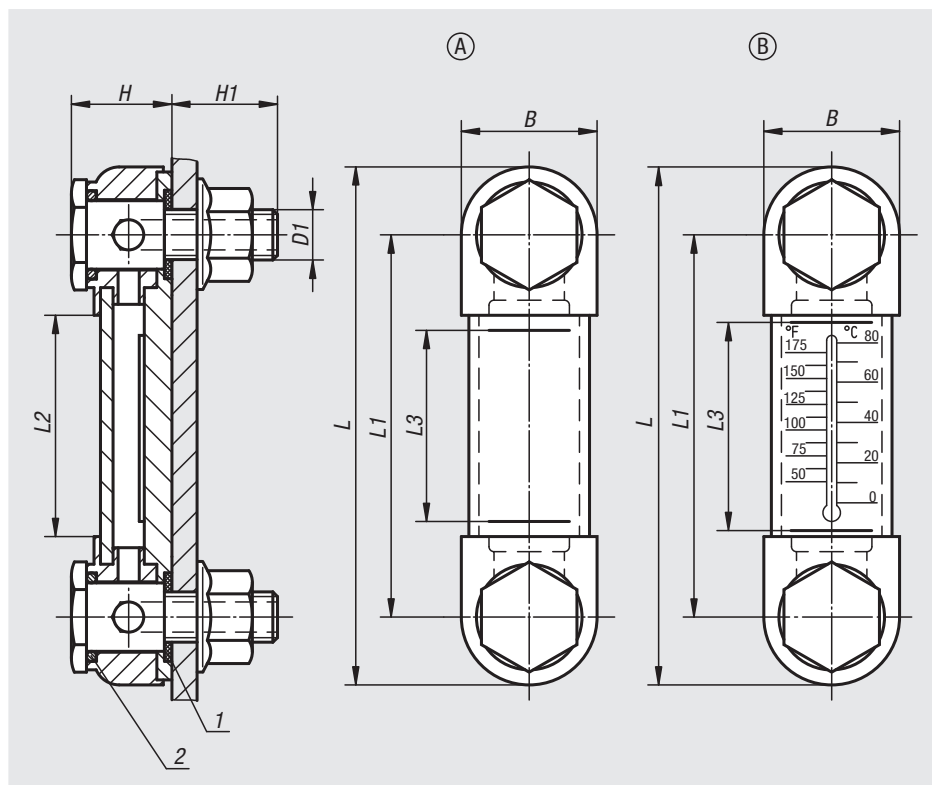
Drawing reference:

Form A: without thermometer

Form B: with thermometer

1) flat seal

2) O-ring



Order No.	Form	B	D1	H	H1	L	L1	L2	L3	Number of fastening screws	Thermometer scale
28000-1076	A	27	M10	20	21	103	76	44	37	2	-
28000-1127	A	27	M12	19	18	151	127	95	80	2	-
28000-2076	B	27	M10	20	21	103	76	44	37	2	0 - 80 °C / 50 - 175 °F
28000-2127	B	27	M12	19	18	151	127	95	80	2	0 - 100 °C / 50 - 200 °F

Oil level gauges



Material:

Housing steel.
Viewing glass thermoplastic polyamide.
O-ring and flat seal rubber (NBR).
Reflector aluminium.
Screw and hex nut steel.

Version:

Housing painted black.
Transparent viewing glass, high mechanical stability, non-ageing, temperature resistant with oil up to 100 °C, with water up to 70 °C.
Reflector painted white, markings and scale black.
Screw and hexagon nut, electro zinc-plated.

Sample order:

nlm 28000-107610

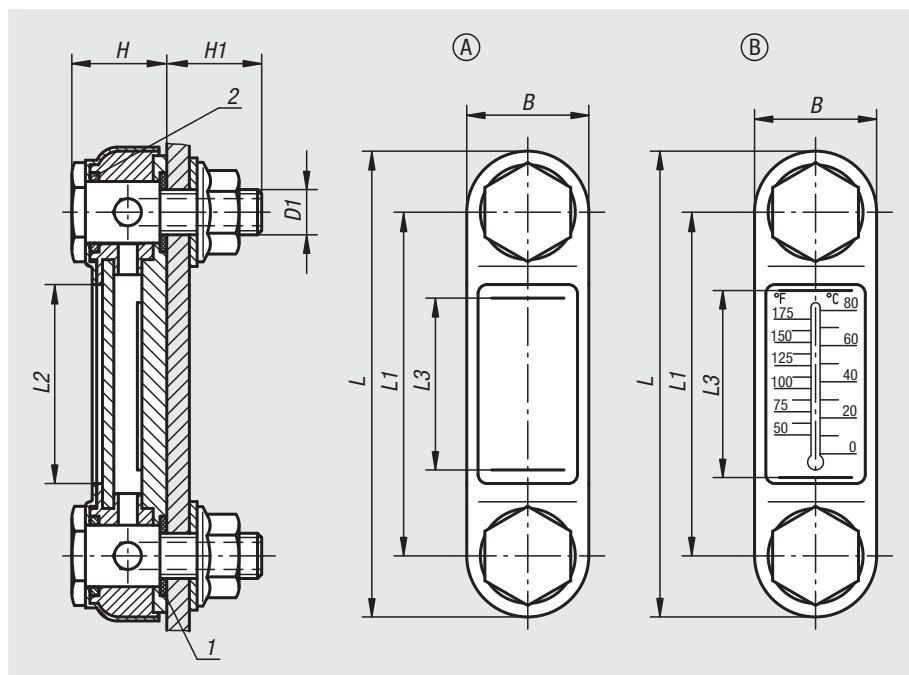
Note:

The oil level gauges can either be fastened as shown in the illustration or directly in the threaded hole.
Centre distance for the fastening holes = $L1 \pm 0.5$.
The oil level gauges are suitable for tanks operating without pressure.
Maximum operating temperature: 100 °C.

Drawing reference:

Form A: without thermometer
Form B: with thermometer

- 1) flat seal
- 2) O-ring



Order No.	Form	B	D1	H	H1	L	L1	L2	L3	Number of fastening screws	Thermometer scale
28000-107610	A	31	M10	24,5	20	107	76	39	37	2	-
28000-107612	A	31	M12	24,5	20	107	76	39	37	2	-
28000-112710	A	31	M10	24,5	20	156	127	90	80	2	-
28000-112712	A	31	M12	24,5	20	156	127	90	80	2	-
28000-125412	A	34	M12	33	17	286	254	200	178	2	-
28000-207610	B	31	M10	24,5	20	107	76	39	37	2	0 - 80 °C / 50 - 175 °F
28000-207612	B	31	M12	24,5	20	107	76	39	37	2	0 - 80 °C / 50 - 175 °F
28000-212710	B	31	M10	24,5	20	156	127	90	80	2	0 - 100 °C / 50 - 200 °F
28000-212712	B	31	M12	24,5	20	156	127	90	80	2	0 - 100 °C / 50 - 200 °F
28000-225412	B	34	M12	33	17	286	254	200	178	2	0 - 100 °C / 50 - 200 °F

Oil level gauges

with electronic oil level monitoring



Material:

Housing fibreglass reinforced thermoplastic polyamide.
Sight glass thermoplastic polyamide.
O-ring and flat seal NBR.
Reflector PVC.
Float plastic.
Screw and nut, steel.

Version:

Housing black.
Sight glass crystal clear, high mechanical stability, non-ageing.
Reflector white.
Float red, with magnetic element.
Screw and nut electro zinc-plated.

Sample order:

n1m 28000-10-12712

Note:

The oil level gauge not only enables the oil level to be viewed but also recorded using a REED switch. When the float element reaches the selected minimum value after the circuit has been closed, the system emits an electric signal.

The sensor is located on the housing and its height can be adjusted in line with the control requirements for the oil level. The minimum level is ca. 35 mm from the centre of the lower fastening screw.

The reed switch is equipped with a normally open (NO) contact as standard.

The sight glass consists of two transparent components which are ultrasonically welded together following assembly. This ensures a seal around the entire body.

The maximum pressure is 1 bar. The maximum tightening torque of the fastening screws is 5 Nm.

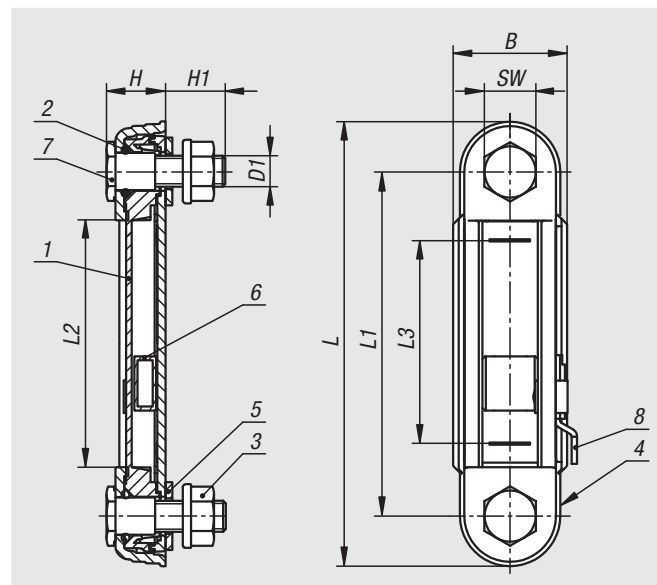
The sight glass has high mechanical strength and is resistant to mineral oil, petrol, lubricants, petroleum, solvents and most chemical substances. Avoid contact with alcoholic solutions and hot water.

Temperature range:

Maximum operating temperature: 75 °C.

Assembly:

The oil level gauge is secured using two M12 tapped holes or, two 12.2 mm (± 0.2 mm) holes and flange nuts. Centre distance for the fastening holes = $L1 \pm 0.3$.



Function:

The oil level is measured using a float element with a magnet that activates the electrical contact when the REED level switch is reached. If the oil level falls below a particular level, an electrical pulse can be emitted.

Attention:

Strong magnetic fields can impair function.

Drawing reference:

- 1) Sight glass
- 2) O-ring
- 3) M12 flange nut
- 4) Housing
- 5) Flat seal
- 6) Float with magnet
- 7) M12 hollow screw
- 8) Reed switch

Order No.	B	D1	H	H1	L	L1	L2	L3	SW	Number of fastening screws
28000-10-12712	42	M12	21	21	164	127	91	75	19	2

Oil level gauges

with electronic temperature monitoring



Material:

Housing fibreglass reinforced thermoplastic polyamide.

Sight glass thermoplastic polyamide.

O-ring and flat seal NBR.

Reflector PVC.

Screw and nut, steel.

Version:

Housing black.

Sight glass crystal clear, high mechanical stability, non-ageing.

Reflector white.

Screw and nut electro zinc-plated.

Sample order:

nIm 28000-11-112712

Note:

In addition to a visual check, the oil level gauges can also emit an electric signal if the temperature of the liquid inside the container reaches the threshold of 70 °C.

The temperature is monitored by a temperature switch (bi-metal).

When the specified temperature is reached, the sensor closes (NO) or opens (NC) the circuit depending on the model.

The sight glass consists of two transparent components which are ultrasonically welded together following assembly. This ensures a seal around the entire body.

The maximum pressure is 1 bar. The maximum tightening torque of the fastening screws is 5 Nm.

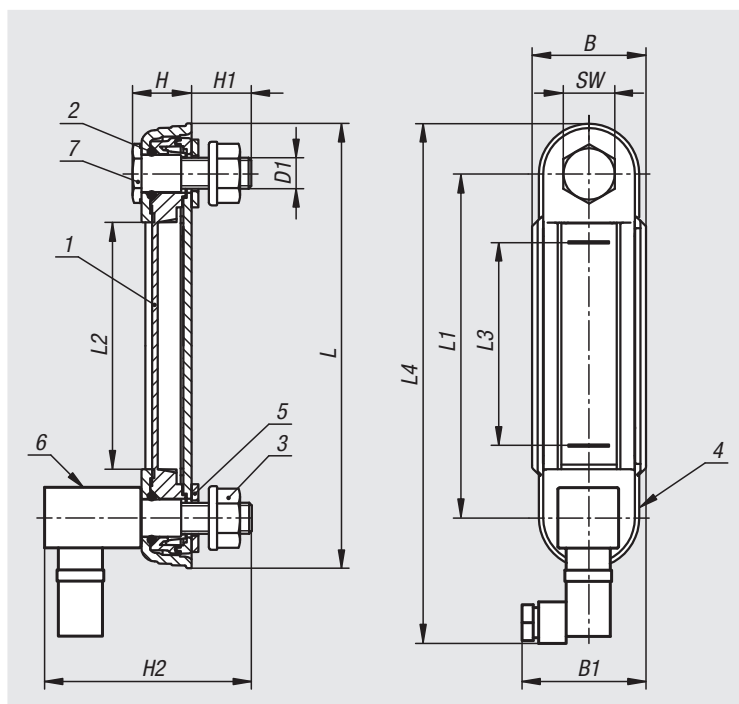
The sight glass has high mechanical strength and is resistant to mineral oil, petrol, lubricants, petroleum, solvents and most chemical substances. Avoid contact with alcoholic solutions and hot water.

Temperature range:

Maximum operating temperature: 75 °C.

Assembly:

The oil level gauge is secured using two M12 tapped holes or, two 12.2 mm (± 0.2 mm) holes and flange nuts. Centre distance for the fastening holes = $L1 \pm 0.3$.



Drawing reference:

- 1) Inspection glass
- 2) O-ring
- 3) M12 flange nut
- 4) Housing
- 5) Flat seal
- 6) Temperature sensor
- 7) M12 hollow screw

Order No.	Version 2	B	B1	D1	H	H1	H2	L	L1	L2	L3	L4	SW	Number of fastening screws
28000-11-112712	normally open contact	42	45	M12	21	21	80	164	127	91	75	191	19	2
28000-11-212712	normally closed contact	42	45	M12	21	21	80	164	127	91	75	191	19	2

Oil level gauges

with electronic oil level and temperature monitoring



Material:

Housing fibreglass reinforced thermoplastic polyamide.
Sight glass thermoplastic polyamide.
O-ring and flat seal NBR.
Reflector PVC.
Float plastic.
Screw and nut, steel.

Version:

Housing black.
Sight glass crystal clear, high mechanical stability, non-ageing.
Reflector white.
Float red, with magnetic element.
Screw and nut electro zinc-plated.

Sample order:

n1m 28000-12-112712

Note:

The oil level gauge not only enables the oil level to be viewed but also recorded using a REED switch. In addition, the oil level gauges can also emit an electric signal if the temperature of the liquid inside the container reaches the threshold of 70 °C.

As soon as the float element approaches the selected minimum value after the circuit has been closed, the system emits an electric signal. The sensor is located on the housing and its height can be adjusted in line with the control requirements for the oil level. The minimum level is ca. 35 mm from the centre of the lower fastening screw.

The reed switch is equipped with a normally open (NO) contact as standard.

The temperature is monitored by a temperature switch (bi-metal). When the specified temperature is reached, the sensor closes (NO) or opens (NC) the circuit depending on the model.

The sight glass consists of two transparent components which are ultrasonically welded together following assembly. This ensures a seal around the entire body.

The maximum pressure is 1 bar. The maximum tightening torque of the fastening screws is 5 Nm.

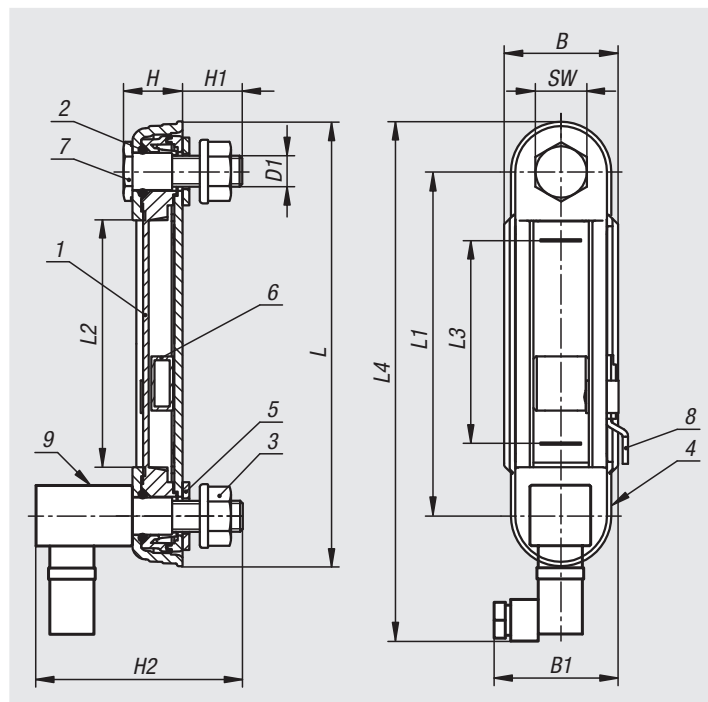
The sight glass has high mechanical strength and is resistant to mineral oil, petrol, lubricants, petroleum, solvents and most chemical substances. Avoid contact with alcoholic solutions and hot water.

Temperature range:

Maximum operating temperature: 75 °C.

Assembly:

The oil level gauge is secured using two M12 tapped holes or, two 12.2 mm (± 0.2 mm) holes and flange nuts. Centre distance for the fastening holes = $L1 \pm 0.3$.



Function:

The oil level is measured using a float element with a magnet that activates the electrical contact when the REED level switch is reached. If the oil level falls below a particular level, an electrical pulse can be emitted.

Attention:

Strong magnetic fields can impair function.

Drawing reference:

- 1) Sight glass
- 2) O-ring
- 3) M12 flange nut
- 4) Housing
- 5) Flat seal
- 6) Float with magnet
- 7) M12 hollow screw
- 8) Reed switch
- 9) Temperature sensor

Order No.	Version 2	B	B1	D1	H	H1	H2	L	L1	L2	L3	L4	SW	Number of fastening screws
28000-12-112712	normally open contact	42	45	M12	21	21	80	164	127	91	75	191	19	2
28000-12-212712	normally closed contact	42	45	M12	21	21	80	164	127	91	75	191	19	2

Oil level gauges

long version



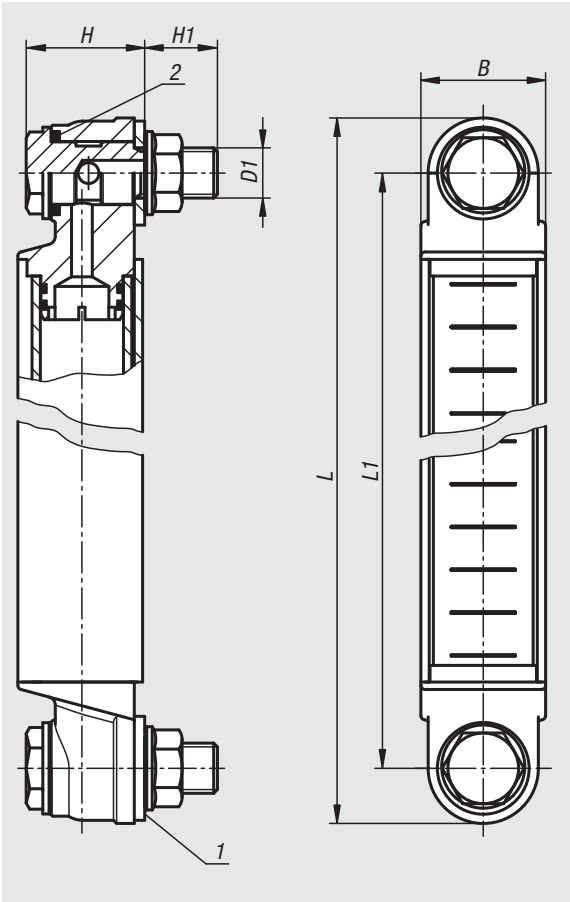
Material:
Housing aluminium.
Tube polycarbonate.
Caps polyamide.
O-ring and flat seal NBR, Shore 70.
Screw and hex. nut steel.

Version:
Viewing glass transparent.
Screws and nuts electro zinc-plated.

Sample order:
nlm 28001-1400

Note:
The oil level gauges can either be fastened as shown in the illustration or directly in the tapped hole. Centre distance for the fastening holes = $L1 \pm 0.3$. The maximum operating temperature is 90 °C. The maximum pressure is 1 bar. The maximum tightening torque of the fastening screws is 5 Nm.

Drawing reference:
1) flat seal
2) O-ring



Order No.	B	D1	H	H1	L	L1
28001-1300	30	M12	30	16,5	325	300
28001-1400	30	M12	30	16,5	425	400
28001-1500	30	M12	30	16,5	525	500

Oil level gauges

with electronic oil level monitoring, long version



Material:

Housing aluminium.
Tube polycarbonate.
Caps polyamide.
O-ring and flat seal NBR.
Reflector PVC.
Float plastic.
Screws and nuts, steel.

Version:

Sight glass crystal clear.
Reflector white.
Float red, with magnetic element.
Screws and nuts electro zinc-plated.

Sample order:

nIm 28001-10-300

Note:

The oil level gauge not only enables the oil level to be viewed but also recorded using a REED switch. If the float element reaches the selected minimum value after the circuit has been closed, the system emits an electric signal.

The sensor is located on the sight glass and its height can be adjusted in line with the control requirements for the oil level.

The minimum level is around 50 mm from the centre of the lower fastening screw.

The reed switch is equipped with a normally open (NO) contact as standard.

The maximum pressure is 1 bar. The maximum tightening torque of the fastening screws is 5 Nm.

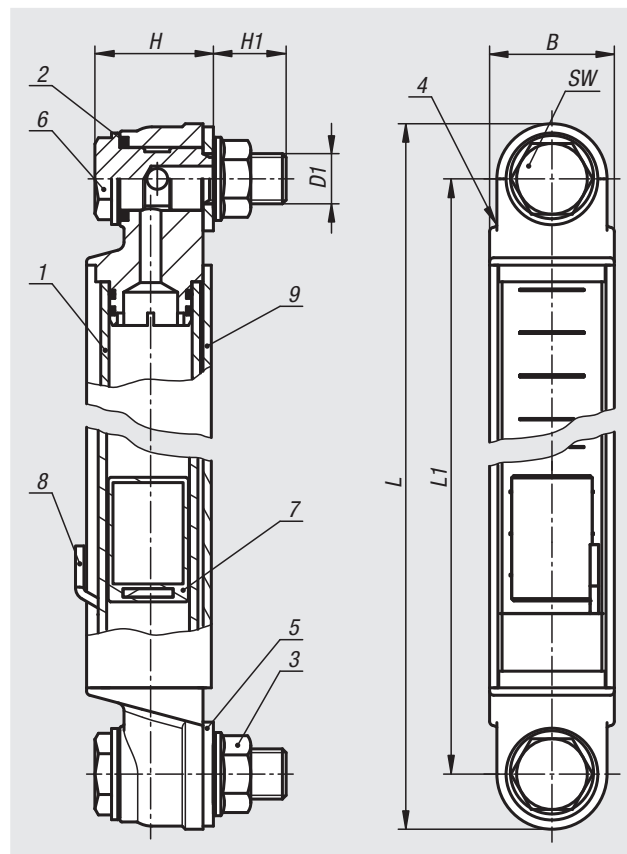
The sight glass has high mechanical strength and is resistant to mineral oil, petrol, lubricants, petroleum, solvents and most chemical substances. Avoid contact with alcoholic solutions and hot water.

Temperature range:

Maximum operating temperature: 75°C.

Assembly:

The oil level gauge is secured using two M12 tapped holes or, two 12.2 mm (± 0.2 mm) holes and flange nuts. Centre distance for the fastening holes = $L1 \pm 0.5$.



Function:

The oil level is measured using a float element with a magnet that activates the electrical contact when the REED level switch is reached. If the oil level falls below a particular level, an electrical pulse can be emitted.

Attention:

Strong magnetic fields can impair function.

Drawing reference:

- 1) Sight glass
- 2) O-ring
- 3) M12 flange nut
- 4) Plastic end cap
- 5) Flat seal
- 6) M12 hollow screw
- 7) Float with magnet
- 8) Reed switch
- 9) Aluminium housing

Order No.	B	D1	H	H1	L	L1	SW	Number of fastening screws
28001-10-300	30	M12	30	16,5	326,6	300	17	2
28001-10-400	30	M12	30	16,5	426,6	400	17	2
28001-10-500	30	M12	30	16,5	526,6	500	17	2

Oil level gauges

with electronic temperature monitoring, long version



Material:

Housing aluminium.
Tube polycarbonate.
Caps polyamide.
O-ring and flat seal NBR.
Reflector PVC.
Screws and nuts, steel.

Version:

Sight glass crystal clear.
Reflector white.
Screws and nuts electro zinc-plated.

Sample order:

n1m 28001-11-1300

Note:

In addition to a visual check, the oil level gauges can also emit an electric signal if the temperature of the liquid inside the container reaches the threshold of 70 °C.

The temperature is monitored by a temperature switch (bi-metal). When the specified temperature is reached, the sensor closes (NO) or opens (NC) the circuit depending on the model.

The maximum pressure is 1 bar. The maximum tightening torque of the fastening screws is 5 Nm.

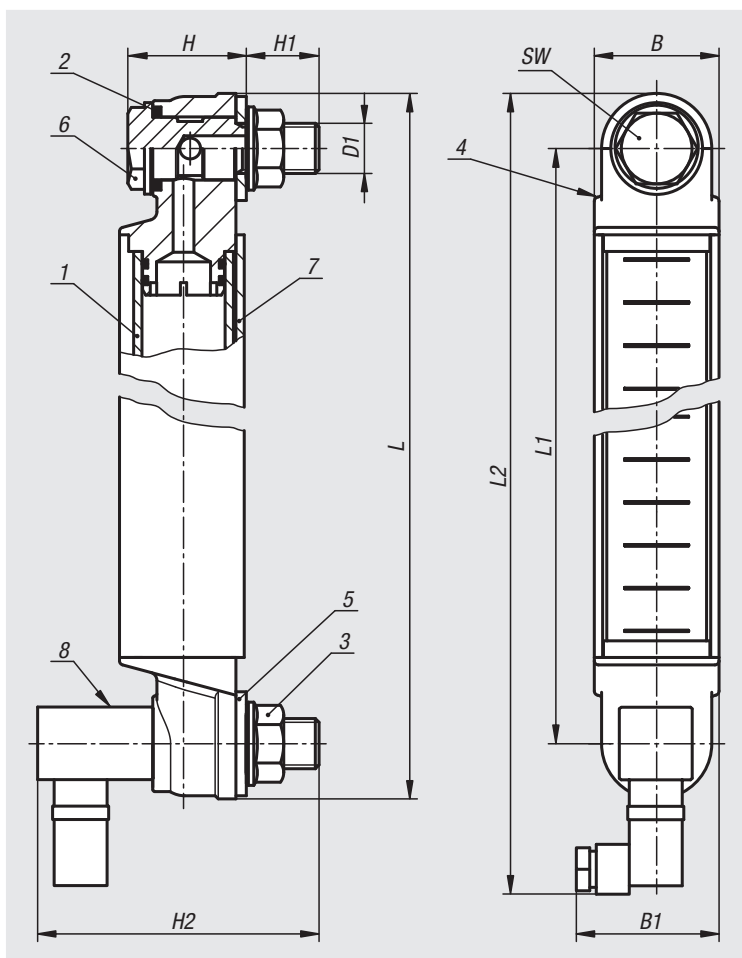
The sight glass has high mechanical strength and is resistant to mineral oil, petrol, lubricants, petroleum, solvents and most chemical substances. Avoid contact with alcoholic solutions and hot water.

Temperature range:

Maximum operating temperature: 75 °C.

Assembly:

The oil level gauge is secured using two M12 tapped holes or, two 12.2 mm (± 0.2 mm) holes and flange nuts. Centre distance for the fastening holes = $L1 \pm 0.5$.



Drawing reference:

- 1) Sight glass
- 2) O-ring
- 3) M12 flange nut
- 4) Plastic end cap
- 5) Flat seal
- 6) M12 hollow screw
- 7) Aluminium housing
- 8) Temperature sensor

Order No.	Version 2	B	B1	D1	H	H1	H2	L	L1	L2	SW	Number of fastening screws
28001-11-1300	normally open contact	30	39	M12	30	16,5	80	326,6	300	358,3	17	2
28001-11-2300	normally closed contact	30	39	M12	30	16,5	80	326,6	300	358,3	17	2
28001-11-1400	normally open contact	30	39	M12	30	16,5	80	426,6	400	458,3	17	2
28001-11-2400	normally closed contact	30	39	M12	30	16,5	80	426,6	400	458,3	17	2
28001-11-1500	normally open contact	30	39	M12	30	16,5	80	526,6	500	558,3	17	2
28001-11-2500	normally closed contact	30	39	M12	30	16,5	80	526,6	500	558,3	17	2

Oil level gauges

with electronic oil level and temperature monitoring, long version



Material:

Housing aluminium.
Tube polycarbonate.
Caps polyamide.
O-ring and flat seal NBR.
Reflector PVC.
Float plastic.
Screws and nuts, steel.

Version:

Sight glass crystal clear.
Reflector white.
Float red, with magnetic element.
Screws and nuts electro zinc-plated.

Sample order:

nln 28001-12-1300

Note:

The oil level gauge not only enables the oil level to be viewed but also recorded using a REED switch. In addition, the oil level gauges can also emit an electric signal if the temperature of the liquid inside the container reaches the threshold of 70°C.

As soon as the float element approaches the selected minimum value after the circuit has been closed, the system emits an electric signal.

The sensor is located on the housing and its height can be adjusted in line with the control requirements for the oil level.

The minimum level is ca. 35 mm from the centre of the lower fastening screw.

The reed switch is equipped with a normally open (NO) contact as standard.

The temperature is monitored by a temperature switch (bi-metal). When the specified temperature is reached, the sensor closes (NO) or opens (NC) the circuit depending on the model.

The maximum pressure is 1 bar. The maximum tightening torque of the fastening screws is 5 Nm.

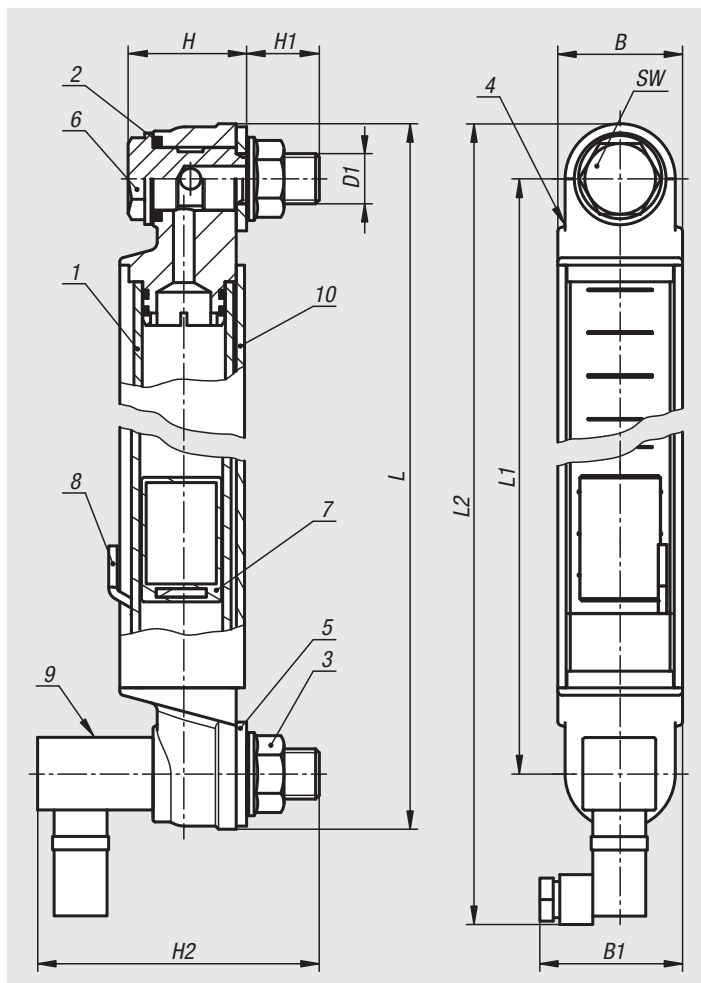
The sight glass has high mechanical strength and is resistant to mineral oil, petrol, lubricants, petroleum, solvents and most chemical substances. Avoid contact with alcoholic solutions and hot water.

Assembly:

The oil level gauge is secured using two M12 tapped holes or, two 12.2 mm (± 0.2 mm) holes and flange nuts. Centre distance for the fastening holes = $L1 \pm 0.5$.

Function:

The oil level is measured using a float element with a magnet that activates the electrical contact when the REED level switch is reached. If the oil level falls below a particular level, an electrical pulse can be emitted.



Oil level gauges

with electronic oil level and temperature monitoring, long version

Attention:

Strong magnetic fields can impair function.

Drawing reference:

- 1) Sight glass
- 2) O-ring
- 3) M12 flange nut
- 4) Plastic end cap
- 5) Flat seal
- 6) M12 hollow screw
- 7) Float with magnet
- 8) Reed switch
- 9) Temperature sensor
- 10) Aluminium housing

Order No.	Version 2	B	B1	D1	H	H1	H2	L	L1	L2	SW	Number of fastening screws
28001-12-1300	normally open contact	30	39	M12	30	16,5	80	326,6	300	358,3	17	2
28001-12-2300	normally closed contact	30	39	M12	30	16,5	80	326,6	300	358,3	17	2
28001-12-1400	normally open contact	30	39	M12	30	16,5	80	426,6	400	458,3	17	2
28001-12-2400	normally closed contact	30	39	M12	30	16,5	80	426,6	400	458,3	17	2
28001-12-1500	normally open contact	30	39	M12	30	16,5	80	526,6	500	558,3	17	2
28001-12-2500	normally closed contact	30	39	M12	30	16,5	80	526,6	500	558,3	17	2

Oil level sight glasses



Material:

Housing in thermoplastic polyamide.
Plastic reflector.

Version:

Housing, transparent, high mechanical stability, non-ageing, temperature resistant with oil up to 90 °C, resistant to solvents but not to alcohol or frost.
Flat seal, asbestos-free.
Reflector white.

Sample order:

nln 28004-143100

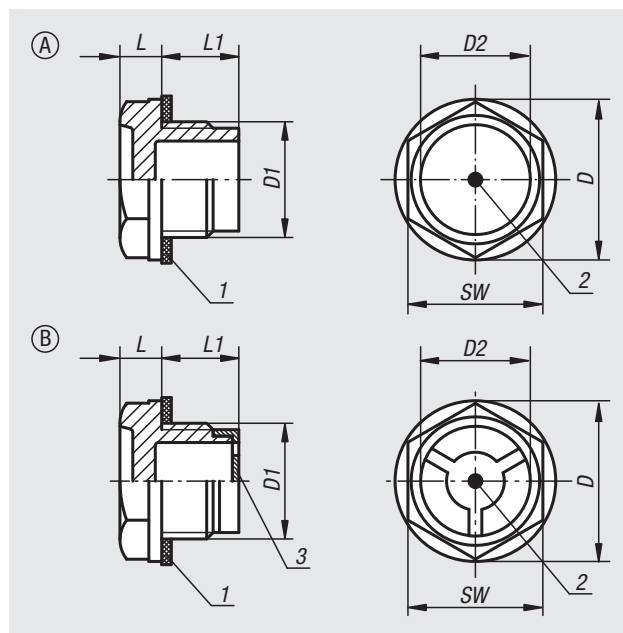
On request:

Rubber gasket (NBR).

Drawing reference:

Form A: without reflector
Form B: with reflector

- 1) flat seal
- 2) check mark
- 3) reflector



Order No.	Form	D	D1	D2	L	L1	SW	Tightening torque max. Nm
28004-120014	A	20,5	G1/4	12	8	8,5	17	5
28004-122038	A	22	G3/8	12	6,5	12	18	7
28004-128012	A	28	G1/2	16	8	12	24	15
28004-135034	A	36	G3/4	21	8,5	13,5	30	20
28004-143100	A	42	G1	30	9	14	36	25
28004-151114	A	51	G1 1/4	32	10	17	42	-
28004-158112	A	58	G1 1/2	39	10	21	50	-
28004-174200	A	74	G2	48	12	20	64	-
28004-1201415	A	20	M14X1,5	12	7,5	8	17	5
28004-1221615	A	22	M16X1,5	12	6,5	12,5	18	7
28004-1251815	A	25,5	M18X1,5	14	6	12,5	21	10
28004-1282015	A	28	M20X1,5	16	7,5	12	24	15
28004-1282215	A	28	M22X1,5	16	7,5	12,5	24	15
28004-1362615	A	36	M26X1,5	21	8,5	13,5	30	20
28004-1362715	A	36	M27X1,5	21	8,5	13,5	30	20
28004-1514015	A	51	M40X1,5	32	10	17	42	-
28004-222038	B	22	G3/8	12	6,5	12	18	7
28004-228012	B	28	G1/2	16	8	12	24	15
28004-235034	B	36	G3/4	21	8,5	13,5	30	20
28004-243100	B	42	G1	30	9	14	36	25
28004-251114	B	51	G1 1/4	32	10	17	42	-
28004-258112	B	58	G1 1/2	39	10	21	50	-
28004-274200	B	74	G2	48	12	20	64	-
28004-2221615	B	22	M16X1,5	12	6,5	12,5	18	7
28004-2251815	B	25,5	M18X1,5	14	6	12,5	21	10
28004-2282015	B	28	M20X1,5	16	7,5	12	24	15
28004-2282215	B	28	M22X1,5	16	7,5	12,5	24	15
28004-2362615	B	36	M26X1,5	21	8,5	13,5	30	20
28004-2362715	B	36	M27X1,5	21	8,5	13,5	30	20
28004-2514015	B	51	M40X1,5	32	10	17	42	-

Oil level sight glasses

press-in



Material:

Housing thermoplastic polyamide.
O-ring NBR, Shore 70.
Reflector plastic.

Version:

Housing, transparent, high mechanical stability, non-ageing, temperature resistant up to 90 °C, resistant to solvents but not to alcohol or frost.
Reflector white.

Sample order:

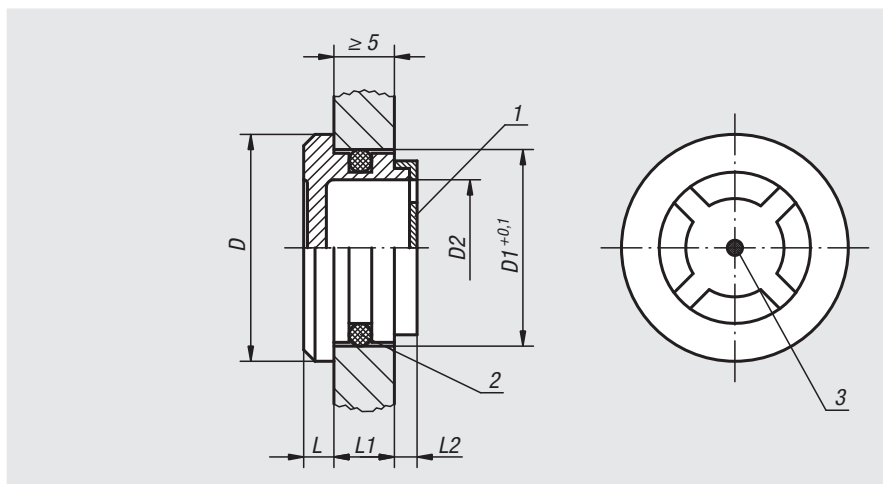
nlm 28006-3026

Note:

For use where there is no internal pressure.

Drawing reference:

- 1) reflector
- 2) O-ring
- 3) check mark



Order No.	D	D1	D2	L	L1	L2
28006-2420	24	20	14	4	7	3
28006-3026	30	26	20	4	8	3,5
28006-3632	36	32	24	4	9	4
28006-4238	42	38	30	4	10	4
28006-4440	44	40	32	4	10	4

Oil level sight glasses

domed



Material:

Housing in thermoplastic polyamide.

Version:

Housing, transparent, high mechanical stability, non-ageing, temperature resistant with oil up to 100 °C, with water up to 70 °C.
Resistant to solvents but not alcohol.
Flat seal, asbestos-free.

Sample order:

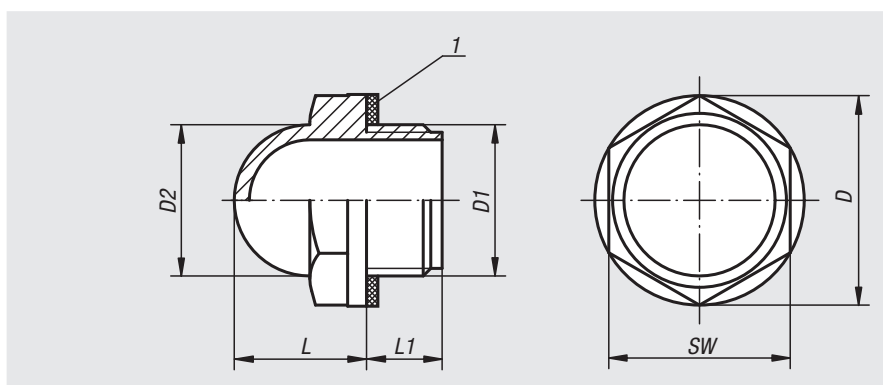
nlm 28008-28012

On request:

Rubber gasket (NBR).

Drawing reference:

- 1) flat seal



Order No.	D	D1	D2	L	L1	SW	Tightening torque max. Nm
28008-22038	22	G3/8	15	14	10	19	8
28008-28012	28	G1/2	20	17	10	24	12
28008-35034	35	G3/4	25	20	10	30	16
28008-42100	42	G1	31	24	10,5	36	20

Oil level sight glasses

aluminium



Material:

Housing in aluminium.
Reflector in aluminium or white plastic.
Polyamide viewing lens.

Version:

Transparent viewing lens,
temperature-resistant with oil up to 100 °C,
with water up to 70 °C.
Flat seal, asbestos-free.

Sample order:

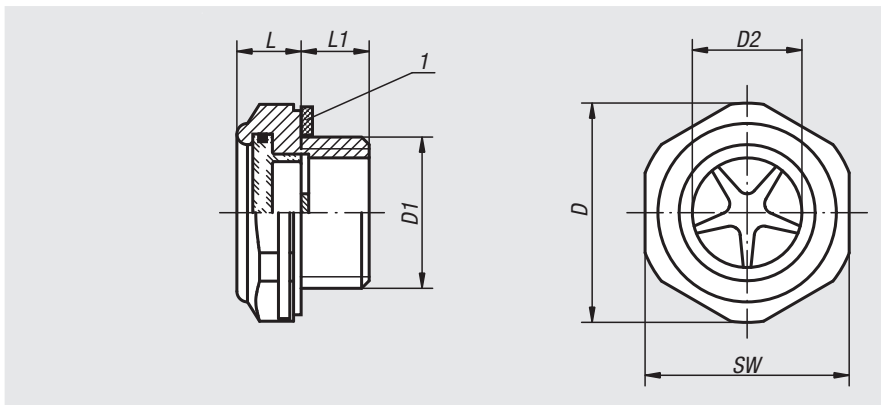
nIm 28010-29012

Note:

The G3/8" and M18x1.5 versions have a white plastic reflector.

Drawing reference:

1) flat seal



Order No.	D	D1	D2	L	L1	SW	Tightening torque max. Nm	Pressure load max. bar
28010-20014	20	G1/4	11	8	8	17	9	10
28010-24038	24,1	G3/8	12,7	9,5	9	22	12	10
28010-29012	29,7	G1/2	15	10	9	27	18	10
28010-36034	35,2	G3/4	21,9	10	11	32	24	10
28010-42100	44,1	G1	25,1	11	11	40	-	10
28010-52114	55	G1 1/4	34	13,5	12	50	-	10
28010-241815	24,5	M18X1,5	13	10	9	22	12	10
28010-292215	29,5	M22X1,5	16	10	9	27	18	10

Oil level sight glasses

aluminium, glass window



Material:

Housing, reflector in aluminium.
Natural, clear glass viewing lens.
Internal seal, Viton®.

Version:

Viewing lens, temperature-resistant to 150 °C.
Flat seal, asbestos-free.

Sample order:

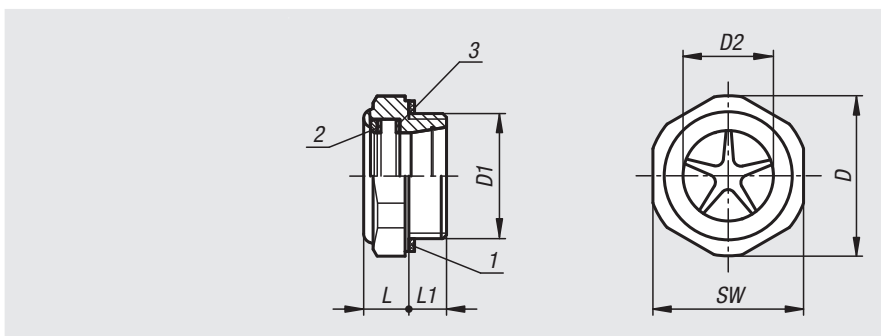
nIm 28012-29012

Note:

Resists high pressure and heat. Natural glass as the viewing lens ensures optimal light transmission and high surface hardness.

Drawing reference:

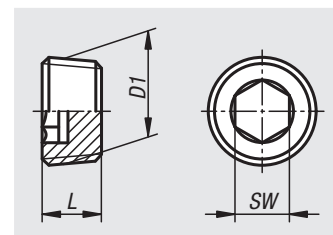
- 1) flat seal
- 2) external seal
- 3) internal seal



Order No.	D	D1	D2	L	L1	SW	Tightening torque max. Nm	Pressure load max. bar
28012-29012	29,5	G1/2	12	10	9	27	18	20
28012-34034	34,5	G3/4	16	12	10	32	24	20
28012-42100	42,5	G1	23	12	10	40	-	20
28012-292015	29,5	M20X1,5	12	10	9	27	18	20
28012-423315	42,5	M33X1,5	23	12	10	40	-	20

Screw plugs with hexagon socket

DIN 906, tapered thread



Material:

Steel or stainless steel 1.4571.

Version:

Steel electro zinc-plated.

Stainless steel bright.

Sample order:

nln 28013-100810

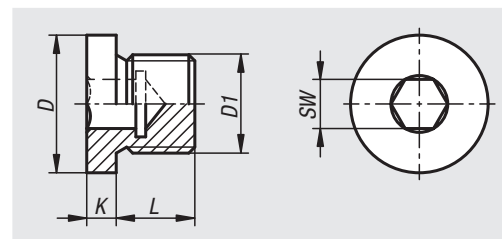
Note:

Screw plugs with hexagon socket and tapered threads are suitable for plugging holes with parallel threads.

Order No. steel	Order No. stainless steel	D1	L	SW
28013-100810	28013-200810	M8x1	8	4
28013-101010	28013-201010	M10X1	8	5
28013-101215	28013-201215	M12X1,5	10	6
28013-101415	28013-201415	M14X1,5	10	7
28013-101615	28013-201615	M16X1,5	10	8
28013-101015	28013-201815	M18X1,5	10	8
28013-102015	28013-202015	M20X1,5	10	10
28013-102215	28013-202215	M22X1,5	10	10
28013-102415	28013-202415	M24X1,5	12	12
28013-102615	-	M26X1,5	12	12
28013-103015	-	M30X1,5	12	17
28013-103615	-	M36X1,5	15	19
28013-104215	-	M42X1,5	18	22
28013-104815	-	M48X1,5	20	24
28013-10018	28013-2001815	R1/8	8	5
28013-10014	28013-2001415	R1/4	10	7
28013-10038	28013-2003815	R3/8	10	8
28013-10012	28013-2001215	R1/2	10	10
28013-10034	28013-2003415	R3/4	12	12
28013-10100	28013-2010015	R1	12	17
28013-10114	-	R1 1/4	18	22
28013-10112	-	R1 1/2	20	24

Screw plugs with collar and hexagon socket

DIN 908

**Material:**

Steel.

Version:

Electro zinc-plated.

Sample order:

nlm 28014-100810

Note:

Screw plugs with collar and hexagon socket for plugging holes with parallel threads.

Order No.	D	D1	K	L	SW
28014-100810	12	M8x1	3	8	4
28014-101010	14	M10X1	3	8	5
28014-101215	17	M12X1,5	3	12	6
28014-101415	19	M14X1,5	3	12	6
28014-101615	21	M16X1,5	3	12	8
28014-101815	23	M18X1,5	4	12	8
28014-102015	25	M20X1,5	4	14	10
28014-102215	27	M22X1,5	4	14	10
28014-102415	29	M24X1,5	4	14	12
28014-102615	31	M26X1,5	4	16	12
28014-102720	32	M27X2	4	16	12
28014-103015	36	M30X1,5	4	16	17
28014-103320	39	M33X2	5	16	17
28014-103615	42	M36X1,5	5	16	19
28014-104215	49	M42X1,5	5	16	22
28014-104220	49	M42X2	5	16	22
28014-104815	55	M48X1,5	5	16	24
28014-104820	55	M48X2	5	16	24
28014-10018	14	G1/8	3	8	5
28014-10014	18	G1/4	3	12	6
28014-10038	22	G3/8	3	12	8
28014-10012	26	G1/2	4	14	10
28014-10034	32	G3/4	4	16	12
28014-10100	39	G1	5	16	17
28014-10114	49	G1 1/4	5	16	22
28014-10112	55	G1 1/2	5	16	24

Screw plugs hex head with collar

DIN 910

**Material:**

Steel.

Version:

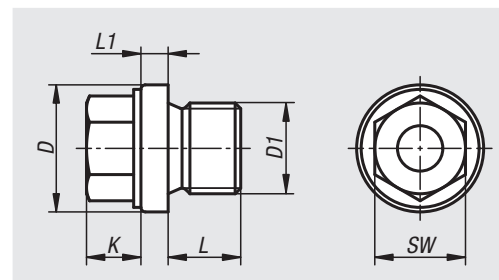
Electro zinc-plated.

Sample order:

nlm 28016-101010

Note:

Screw plugs with collar and hexagonal head for plugging holes with parallel threads.



Order No.	D	D1	K	L	L1	SW
28016-101010	14	M10X1	6	8	3	10
28016-101215	17	M12X1,5	6	12	3	13
28016-101415	19	M14X1,5	6	12	3	13
28016-101615	21	M16X1,5	6	12	3	17
28016-101815	23	M18X1,5	8	12	4	17
28016-102015	25	M20X1,5	8	14	4	19
28016-102215	27	M22X1,5	8	14	4	19
28016-102415	29	M24X1,5	9	14	4	22
28016-102615	31	M26X1,5	10	16	4	24
28016-102720	32	M27X2	10	16	4	24
28016-103015	36	M30X1,5	10	16	4	24
28016-103320	39	M33X2	11	16	5	27
28016-103615	42	M36X1,5	11	16	5	27
28016-104215	49	M42X1,5	12	16	5	30
28016-104220	49	M42X2	12	16	5	30
28016-104815	55	M48X1,5	12	16	5	30
28016-104820	55	M48X2	12	16	5	30
28016-10018	14	G1/8	6	8	3	10
28016-10014	18	G1/4	6	12	3	13
28016-10038	22	G3/8	6	12	3	17
28016-10012	26	G1/2	8	14	4	19
28016-10034	32	G3/4	10	16	4	24
28016-10100	39	G1	11	16	5	27
28016-10114	49	G1 1/4	12	16	5	30
28016-10112	55	G1 1/2	12	16	5	30

Screw plugs


Material:

Thermoplastic polyamide 66, reinforced with 30% fibreglass.

Version:

Black. Flat seal asbestos-free

Sample order:

nIm 28020-22038

Temperature range:

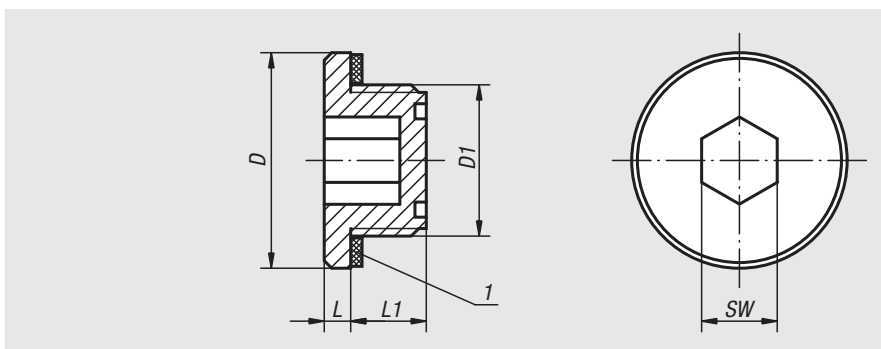
Temperature resistant with oil up to 100°C.

On request:

O-ring or materials with higher stability.

Drawing reference:

1) flat seal



Order No.	D	D1	L	L1	SW	Tightening torque max. Nm
28020-18014	18,2	G1/4	2,5	8	6	3
28020-22038	22,5	G3/8	3,5	10,5	8	6
28020-28012	28,5	G1/2	3,5	10,5	10	8
28020-35034	35	G3/4	4	10,5	12	10
28020-201415	20	M14X1,5	2,5	8	6	3
28020-221615	22,5	M16X1,5	3,5	11	8	6
28020-261815	26	M18X1,5	3	10	10	7
28020-282015	28,5	M20X1,5	3	11	10	7
28020-282215	28,5	M22X1,5	3,5	10,5	10	7
28020-352615	35	M26X1,5	3	12	12	10

Screw plugs

with hexagon socket


Material:

Steel 1.0737.

O-ring NBR, Shore 90.

Version:

Electro zinc-plated.

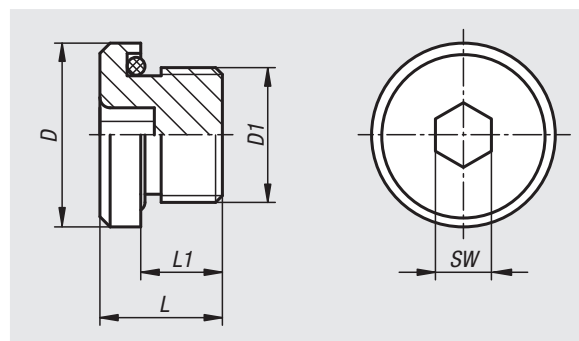
Sample order:

nln 28021-15018

Note:

Operating temperature: -20°C / +100°C.

Operating pressure: max. 70 bar for static application.



Order No.	D	D1	L	L1	SW
28021-15018	15	G1/8	13	9	4
28021-19014	19	G1/4	16	11	6
28021-22038	22	G3/8	17	11	6
28021-27012	27	G1/2	20	14	8
28021-32034	32	G3/4	20	14	12
28021-40001	40	G1	22	16	12
28021-50114	50	G1 1/4	25	18	12
28021-55112	55	G1 1/2	24	17	24
28021-141010	15	M10X1	12	8	5
28021-171215	17	M12X1,5	16	10	6
28021-191415	19	M14X1,5	16	10	6
28021-221615	22	M16X1,5	16	10	6
28021-251815	25	M18X1,5	17	11	8
28021-272015	27	M20X1,5	18	12	8
28021-282215	28	M22X1,5	18	12	10
28021-322615	32	M26X1,5	20	13,5	12
28021-322702	32	M27X2	20	13,5	12
28021-403302	40	M33X2	21	15	17
28021-504202	50	M42X2	24	17	22
28021-554802	55	M48X2	24	17	24

Press-in plugs


Material:

Housing and cap thermoplastic polyamide 66.
Air filter polyurethane (PU foam).
O-ring rubber (NBR).

Version:

Housing black.
Cap red.
Filter mesh 50 µm.

Sample order:

nln 28022-33030

Temperature range:

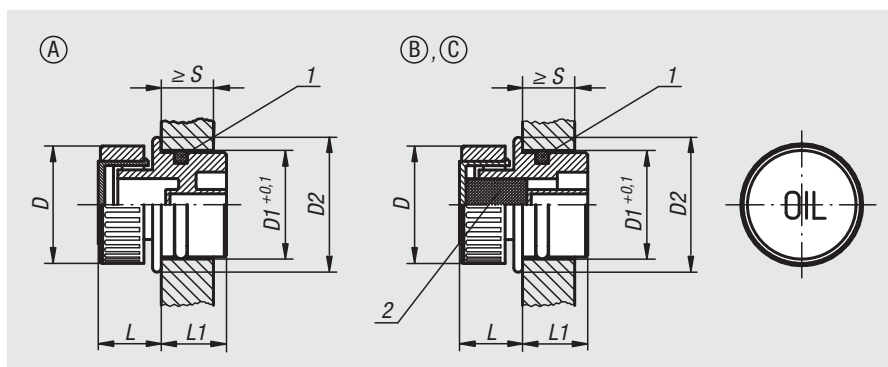
Temperature resistant with oil up to 100°C.

Drawing reference:

Form A: without vent
Form B: with vent
Form C: with vent and air filter

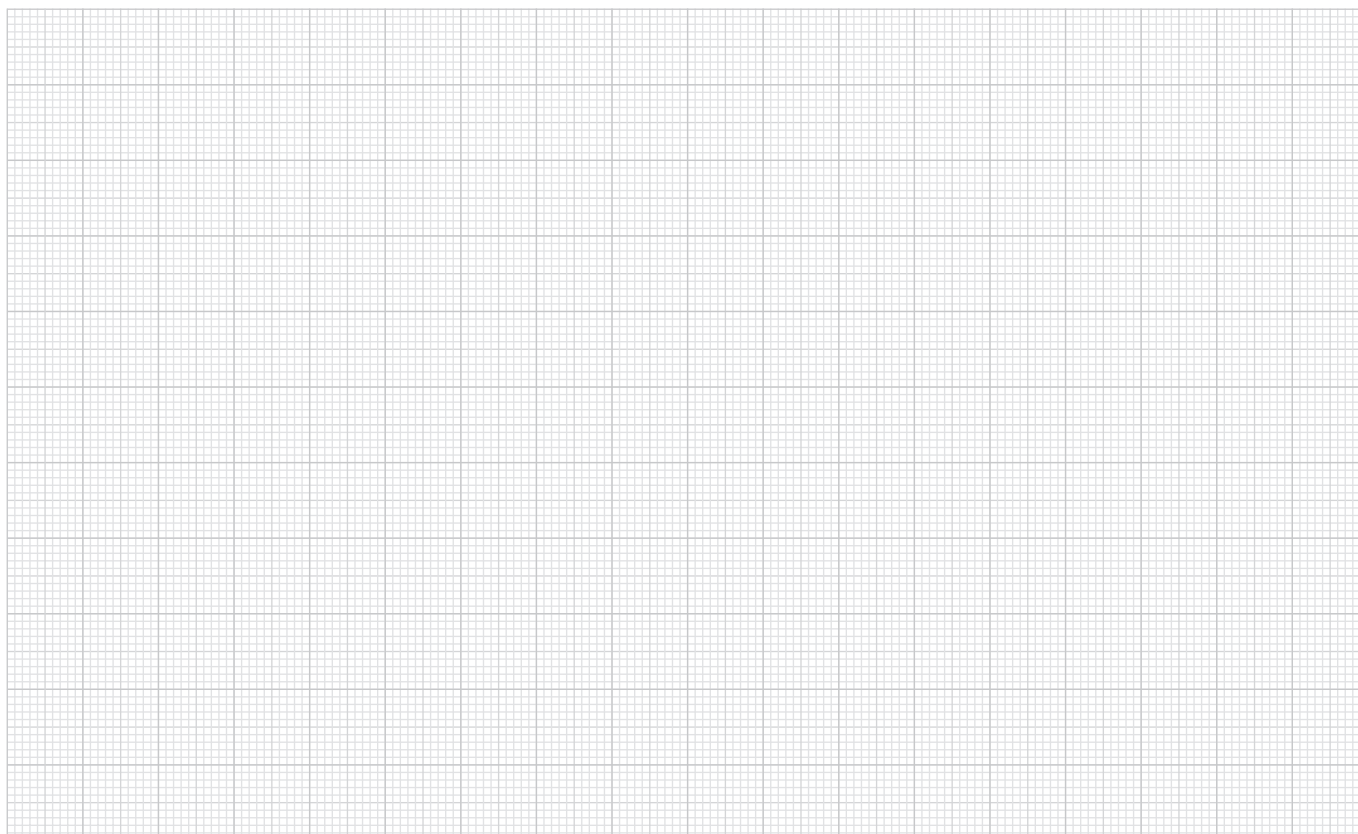
1) O-ring

2) air filter Form C only



Order No. Form A	Order No. Form B	Order No. Form C	D	D1	D2	L	L1	S min.
28022-13018	28022-23018	28022-33018	30	18	23	14	14	8
28022-13020	28022-23020	28022-33020	30	20	24	14	15,5	8
28022-13026	28022-23026	28022-33026	30	26	30	14	16,5	9,5
28022-13030	28022-23030	28022-33030	30	30	34	14	17	9,5

Notes



Screw plugs with magnet

**Material:**

Thermoplastic polyamide 66. Ferrite permanent magnet.

Version:

Black. Flat seal asbestos-free

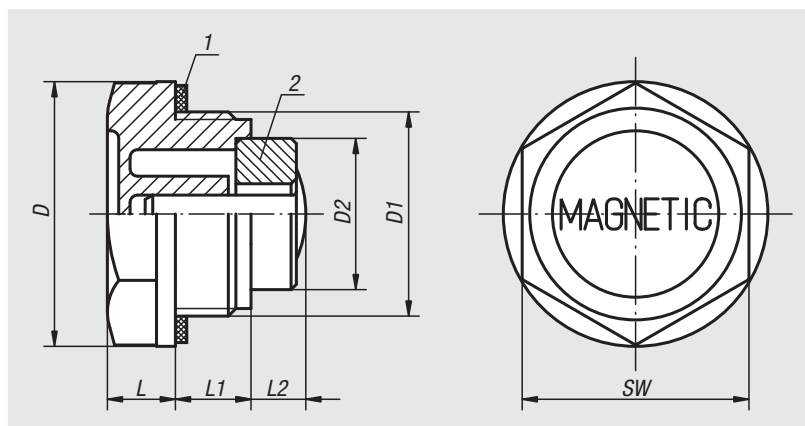
Sample order:

nlm 28024-22038

Note:

The magnetic effect of the screw plug attracts iron particles in the oil.

Screwing the plug into the drain outlet diminishes possible damage to mechanical components.

**Temperature range:**

Temperature resistant with oil up to 100°C.

Drawing reference:

1) flat seal

2) magnet

Order No.	D	D1	D2	L	L1	L2	SW
28024-20014	20	G1/4	8	7	9	5	17
28024-22038	22	G3/8	13	7,5	10	10	18
28024-27012	27	G1/2	13	8	11	9	24
28024-34034	34	G3/4	19,6	9	11	6,5	30
28024-42100	42	G1	19,6	10,5	12	14	35
28024-201415	20	M14X1,5	8	7	9	5	17

Screw plugs aluminium with magnet

**Material:**

Aluminium. Ferrite permanent magnet.

Version:

Bright. Flat seal asbestos-free.

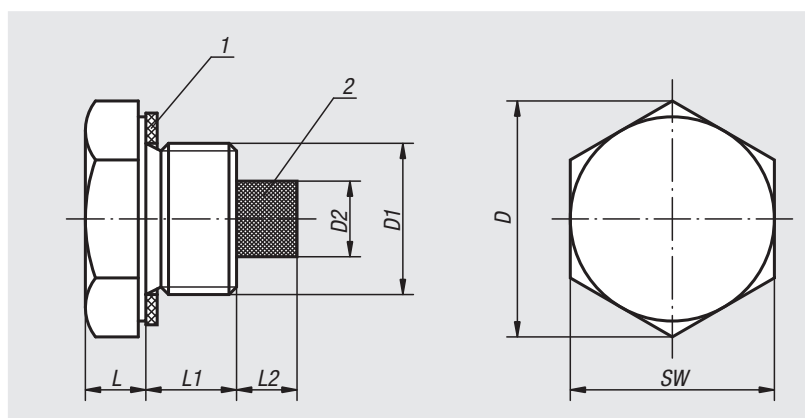
Sample order:

nlm 28026-24038

Note:

The magnetic effect of the screw plug attracts iron particles in the oil.

Screwing the plug into the drain outlet diminishes possible damage to mechanical components.

**Drawing reference:**

1) flat seal

2) magnet

Order No.	D	D1	D2	L	L1	L2	SW
28026-21014	21	G1/4	5	7	10	6	19
28026-24038	24,5	G3/8	8	7	10	7	22
28026-30012	30	G1/2	10	8	10	7	27
28026-36034	36,5	G3/4	13	8	10	7	34
28026-42100	42,5	G1	13	8	14	7	40

Screw plugs

aluminium


Material:

Aluminium.

Version:

Bright. Flat seal asbestos-free.

Sample order:

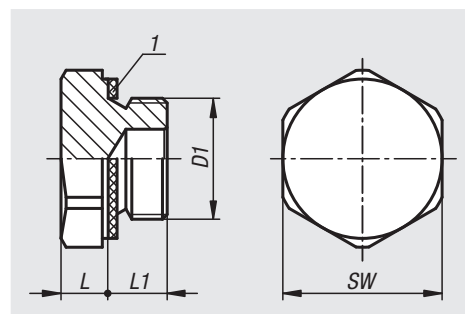
nlm 28027-19014

On request:

Cap marked OIL.

Drawing reference:

1) flat seal



Order No.	D1	L	L1	SW
28027-141010	M10X1	5	8	14
28027-171215	M12X1,5	6	8	17
28027-171415	M14X1,5	6	8	17
28027-221615	M16X1,5	7	10	22
28027-221815	M18X1,5	7	10	22
28027-242015	M20X1,5	7	10	24
28027-19014	G1/4	7	10	19
28027-22038	G3/8	7	10	22
28027-27012	G1/2	8	10	27
28027-34034	G3/4	8	10	34
28027-40100	G1	8	14	40

Screw plugs


Material:

Thermoplastic polyamide 66

Version:

Black. Flat seal asbestos-free

Sample order:

nlm 28028-142100

Note:

Temperature resistant to 100°C.

Drawing reference:

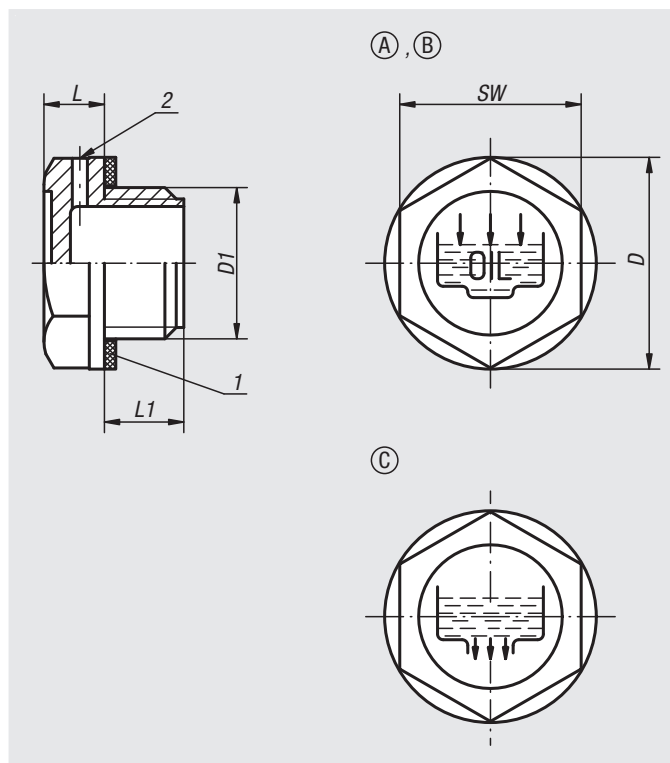
Form A: with fill symbol

Form B: with fill symbol and vent hole

Form C: with drain symbol

1) flat seal

2) vent hole Form B only



Order No. Form A	Order No. Form B	Order No. Form C	D	D1	L	L1	SW	Tightening torque max. Nm
28028-119014	28028-219014	28028-319014	19,5	G1/4	7	9	17	5
28028-122038	28028-222038	28028-322038	22	G3/8	7,5	10	18	8
28028-128012	28028-228012	28028-328012	28	G1/2	7,5	11	24	9
28028-134034	28028-234034	28028-334034	34	G3/4	9	11	30	11
28028-142100	28028-242100	28028-342100	42	G1	10,5	12	35	-
28028-151114	28028-251114	28028-351114	51	G1 1/4	12	13,5	42	-
28028-158112	28028-258112	28028-358112	58	G1 1/2	10	14,5	50	-
28028-174200	28028-274200	28028-374200	74	G2	13,5	16	64	-
28028-1191415	28028-2191415	28028-3191415	19,5	M14X1,5	7	9	17	5
28028-1211615	28028-2211615	28028-3211615	21	M16X1,5	7,5	10	18	6
28028-1261815	28028-2261815	28028-3261815	26	M18X1,5	7,5	10	21	7
28028-1282015	28028-2282015	28028-3282015	28	M20X1,5	8	10	24	8
28028-1282215	28028-2282215	28028-3282215	28	M22X1,5	8	11	24	10
28028-1524015	28028-2524015	28028-3524015	52	M40X1,5	10	13	42	-

Screw plugs

with dipstick



Material:

Thermoplast, polyamide 66.
Dipstick steel, zinc phosphated.

Version:

Flat seal asbestos-free.

Sample order:

nIm 28029-122038

Note:

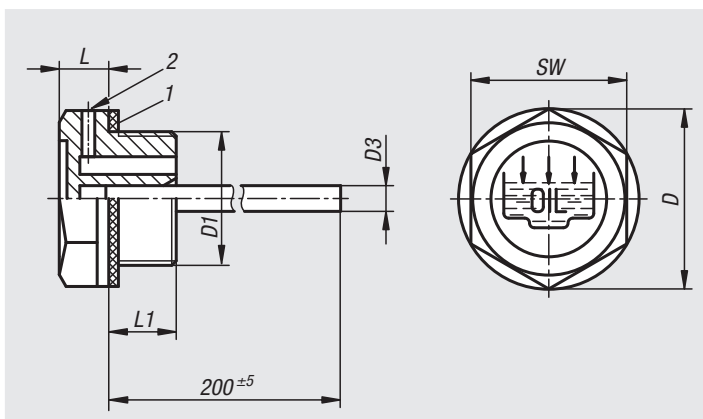
Form B has a vent hole on the side of the hexagon head with a diameter of between 2 and 3.5 mm, depending on the size of the screw plug.

Temperature range:

Temperature resistant with oil up to 100°C.

Drawing reference:

- 1) flat seal
- 2) vent hole Form B only



Order No.	Form	D	D1	D3	L	L1	SW
28029-119014	A	19	G1/4	4	7	9	17
28029-122038	A	22	G3/8	4	7,5	10	18
28029-128012	A	28	G1/2	4	7,5	11	24
28029-134034	A	34	G3/4	5	9	11	30
28029-142100	A	42	G1	5	10,5	12	36
28029-151114	A	51	G1 1/4	5	12	13,5	42
28029-1191415	A	19	M14X1,5	4	7	9	17
28029-1211615	A	21	M16X1,5	4	7,5	10	18
28029-1261815	A	26	M18X1,5	4	7,5	10	21
28029-1282015	A	28	M20X1,5	4	8	10	24
28029-1282215	A	28	M22X1,5	4	8	11	24
28029-219014	B	19	G1/4	4	7	9	17
28029-222038	B	22	G3/8	4	7,5	10	18
28029-228012	B	28	G1/2	4	7,5	11	24
28029-234034	B	34	G3/4	5	9	11	30
28029-242100	B	42	G1	5	10,5	12	36
28029-251114	B	51	G1 1/4	5	12	13,5	42
28029-2191415	B	19	M14X1,5	4	7	9	17
28029-2211615	B	21	M16X1,5	4	7,5	10	18
28029-2261815	B	26	M18X1,5	4	7,5	10	21
28029-2282015	B	28	M20X1,5	4	8	10	24

Plugs fill only

knurled cap



Material:

Thermoplastic polyamide 66;
O-ring in rubber (NBR)

Version:

black.

Sample order:

nln 28030-128012

Temperature range:

Temperature resistant with oil up to 100°C.

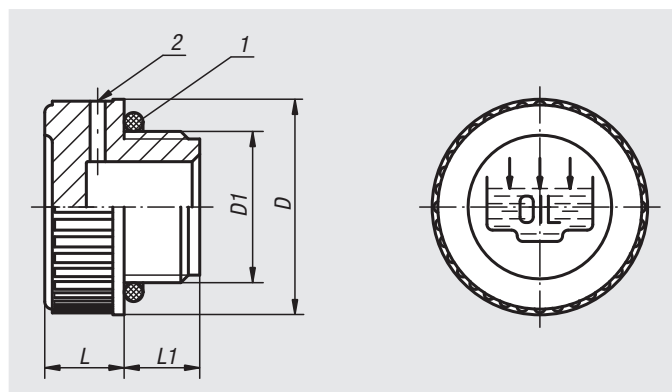
Drawing reference:

Form A: with fill symbol

Form B: with fill symbol and vent hole

1) O-ring

2) vent hole only Form B



Order No.	Form	D	D1	L	L1
28030-120014	A	20	G1/4	9	9
28030-120038	A	20,5	G3/8	9	10
28030-128012	A	28	G1/2	10,5	10,5
28030-131034	A	31	G3/4	12	11
28030-139100	A	39	G1	12	12
28030-149114	A	49	G1 1/4	13	13,5
28030-155112	A	55	G1 1/2	14,7	14,5
28030-168200	A	68,5	G2	15	16
28030-1201415	A	20	M14X1,5	9	9
28030-1201615	A	20	M16X1,5	9	10
28030-1281815	A	28	M18X1,5	10,5	10
28030-1282015	A	28	M20X1,5	10,5	10
28030-1282215	A	28	M22X1,5	10,5	10
28030-220014	B	20	G1/4	9	9
28030-220038	B	20,5	G3/8	9	10
28030-228012	B	28	G1/2	10,5	10,5
28030-231034	B	31	G3/4	12	11
28030-239100	B	39	G1	12	12
28030-249114	B	49	G1 1/4	13	13,5
28030-255112	B	55	G1 1/2	14,7	14,5
28030-268200	B	68,5	G2	15	16
28030-2201415	B	20	M14X1,5	9	9
28030-2201615	B	20	M16X1,5	9	10
28030-2281815	B	28	M18X1,5	10,5	10
28030-2282015	B	28	M20X1,5	10,5	10
28030-2282215	B	28	M22X1,5	10,5	10

Caps for filler necks


Material:

Housing and cap thermoplastic polyamide 66.
Air filter polyurethane (PU foam).
Flat seal NBR, Shore 70.

Version:

Black housing.
Red cap.
Filter mesh 40 µm.

Sample order:

nln 28032-67200

Temperature range:

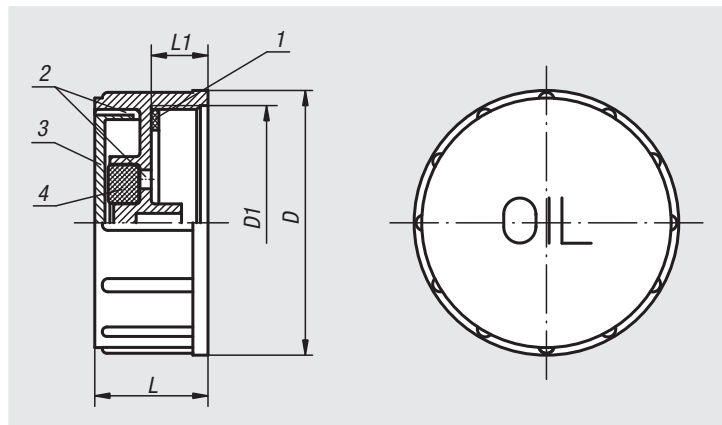
Temperature resistant with oil up to 100°C.

On request:

Cap in yellow for diesel oil.

Drawing reference:

- 1) flat seal
- 2) vent
- 3) cap
- 4) air filter



Order No.	D	D1	L	L1
28032-67200	67,5	G2	30	15
28032-676020	67,5	M60x2	30	15

Vent screws


Material:

Housing, cap in thermoplastic polyamide 66.
Air filter (Form B only) in polyurethane (PU foam).
O-ring in rubber (NBR).

Version:

Black housing. Red cap. Filter mesh 60 µm.

Sample order:

nln 28034-147034

Note:

The removable cap allows easy cleaning of the air filter.

Form A: without air filter

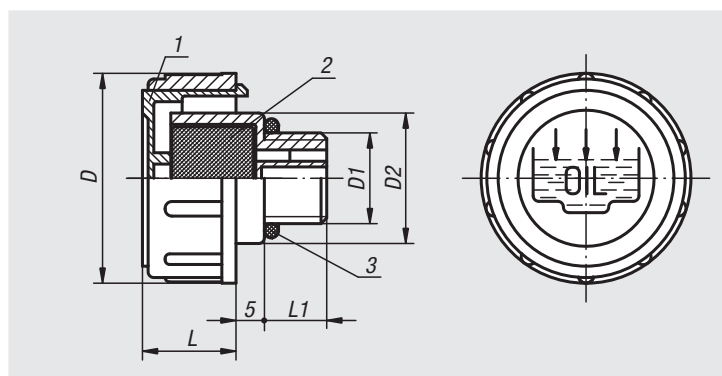
Form B: with air filter

Temperature range:

Temperature resistant with oil up to 100°C.

Drawing reference:

- 1) cap
- 2) air filter Form B only
- 3) O-ring



Order No. Form A	Order No. Form B	D	D1	D2	L	L1
28034-136038	28034-236038	36	G3/8	23	17	11
28034-141012	28034-241012	41	G1/2	28	18	12
28034-147034	28034-247034	47	G3/4	33	17	12
28034-152100	28034-252100	52	G1	38	20	12
28034-163114	28034-263114	63	G1 1/4	49	23	13
28034-163112	28034-263112	63	G1 1/2	55	23	13,5
28034-1361615	28034-2361615	36	M16x1,5	23	17	11
28034-1411815	28034-2411815	41	M18x1,5	28	17,5	12
28034-1412015	28034-2412015	41	M20x1,5	28	17,5	12
28034-1412215	28034-2412215	41	M22x1,5	28	17,5	12

Vent screws

with splash guard



Material:

Housing and cap thermoplastic polyamide 66.
Air filter polyurethane (PU foam).
Flat seal NBR, Shore 70.

Version:

Black housing.
Red cap.
Filter mesh 40 µm.

Sample order:

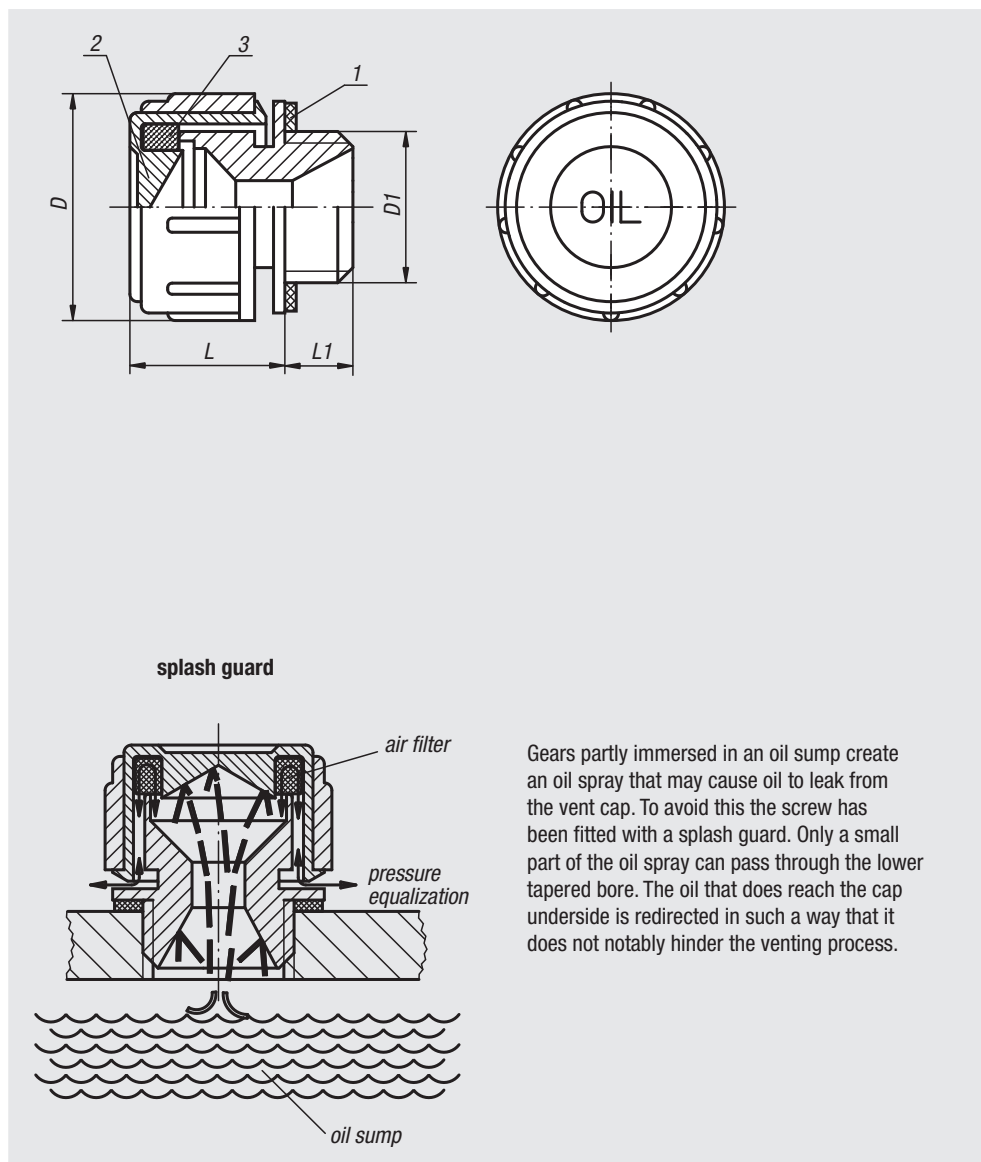
nln 28036-30038

Temperature range:

Temperature resistant with oil up to 100°C.

Drawing reference:

- 1) flat seal
- 2) cap
- 3) air filter



Gears partly immersed in an oil sump create an oil spray that may cause oil to leak from the vent cap. To avoid this the screw has been fitted with a splash guard. Only a small part of the oil spray can pass through the lower tapered bore. The oil that does reach the cap underside is redirected in such a way that it does not notably hinder the venting process.

Order No.	D	D1	L	L1
28036-30014	30	G1/4	21	10
28036-30038	30	G3/8	21	10
28036-30012	30	G1/2	21	10

Vent screws

with check valve


Material:

Housing and cap thermoplastic polyamide 66.
Spring stainless steel.
Lift disc and flat seal rubber (NBR).

Version:

Housing black.
Cap red.

Sample order:

nIm 28038-30014

Note:

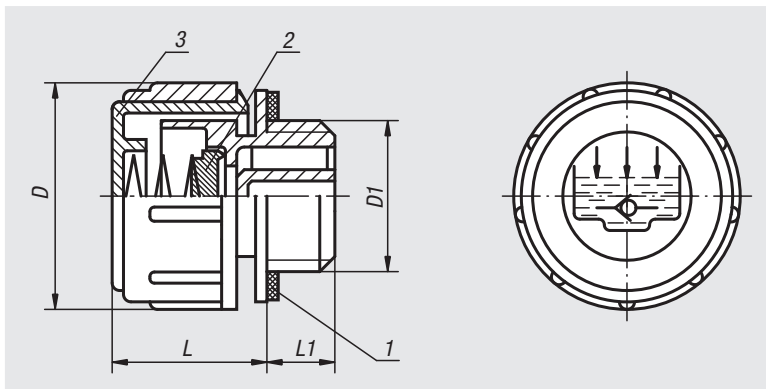
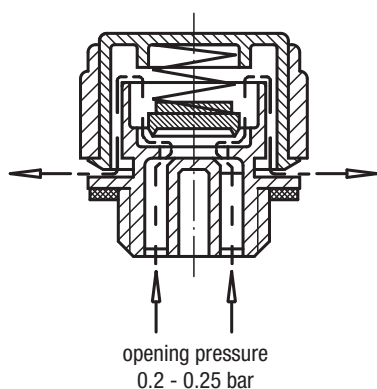
Opening pressure 0.20 – 0.25 bar.

Temperature range:

Temperature resistant with oil up to 100°C.

Drawing reference:

- 1) flat seal
- 2) lift disc
- 3) cap


Operating principle


Order No.	D	D1	L	L1
28038-30014	30	G1/4	21	10
28038-30038	30	G3/8	21	10
28038-30012	30	G1/2	21	10

Vent screws brass


Material:

Housing and cap brass.
Air filter electro zinc-plated steel wire mesh.

Version:

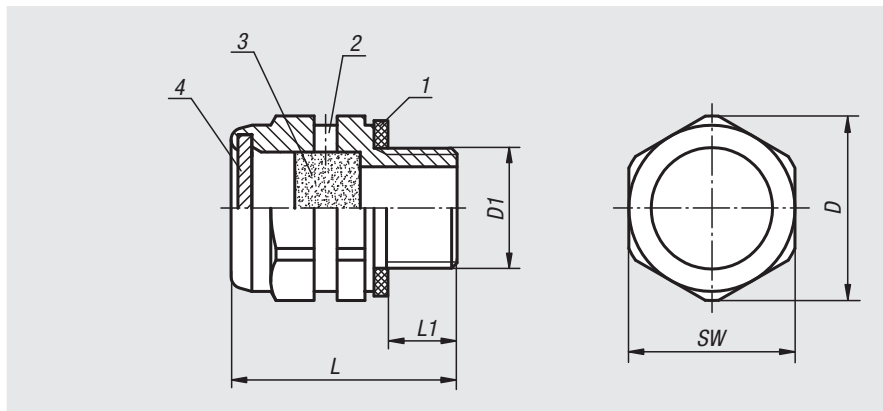
Air filter mesh 50 - 60 µm.
Flat seal asbestos-free.

Sample order:

nIm 28040-20014

Drawing reference:

- 1) flat seal
- 2) vent hole 2x
- 3) air filter
- 4) cap



Order No.	D	D1	L	L1	SW
28040-20014	20	G1/4	24,5	7,5	18
28040-24038	24,5	G3/8	24,5	8,5	22
28040-30012	30	G1/2	24,5	8,5	27

Vent screws brass

with check valve


Material:

Housing and cap brass.
Spring stainless steel.
Lift disc brass.
O-ring NBR.

Version:

Flat seal asbestos-free.

Sample order:

nIm 28042-20014

Note:

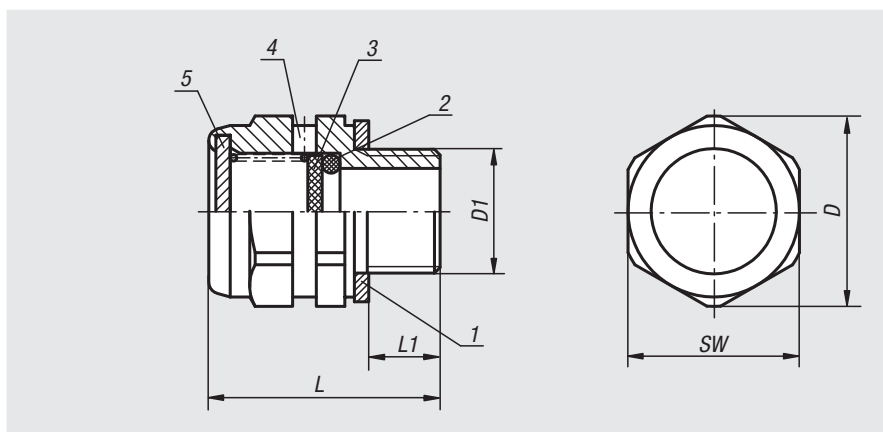
Opening pressure 0.3 bar (±0.1).

Functional principle:

See 28038 vent screws with check valve.

Drawing reference:

- 1) flat seal
- 2) O-ring
- 3) lift disc
- 4) vent hole 2x
- 5) cap



Order No.	D	D1	L	L1	SW
28042-20014	20	G1/4	24,3	7,5	18
28042-24038	24,5	G3/8	24,5	8,5	22
28042-30012	30	G1/2	24,5	8,5	27

Press-in plugs

with dipstick



Material:

Housing and cap thermoplastic polyamide 66.

Air filter polyurethane (PU foam).

Dipstick zinc.

O-ring NBR, Shore 70.

Version:

Housing black.

Cap red.

Filter mesh 50 µm.

Dipstick phosphated.

Sample order:

nlm 28048-13018

Temperature range:

Temperature resistant with oil up to 100°C.

On request:

Min-Max markings.

Drawing reference:

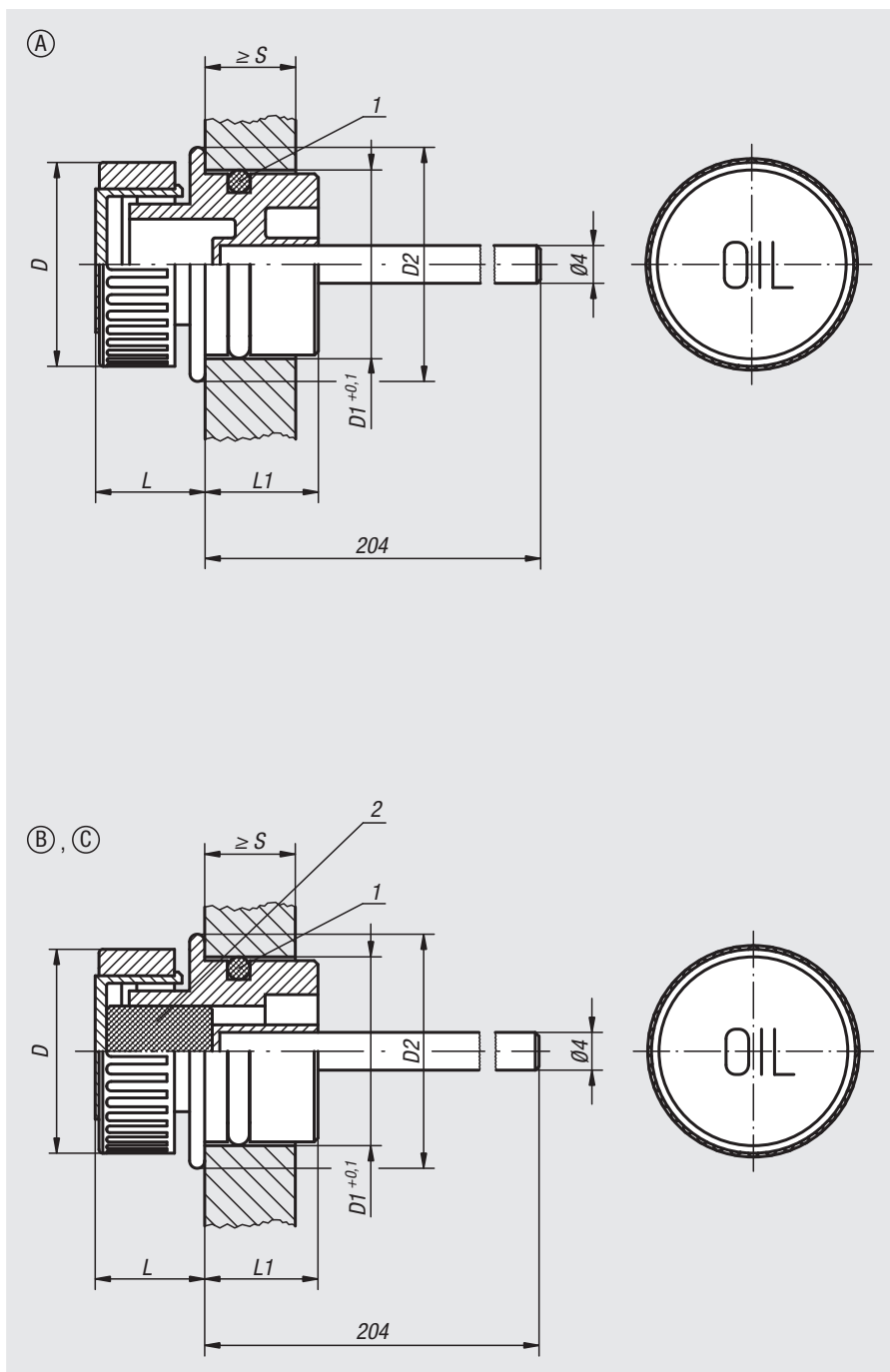
Form A: without vent

Form B: with vent

Form C: with vent and air filter

1) O-ring

2) air filter Form C only



Order No. Form A	Order No. Form B	Order No. Form C	D	D1	D2	L	L1	S min.
28048-13018	28048-23018	28048-33018	30	18	23	14	14	8

Vent screws

with dipstick



Material:

Housing and cap thermoplastic polyamide 66.

Air filter polyurethane (PU foam).

Dipstick zinc.

O-ring NBR, Shore 70.

Version:

Housing black.

Cap red.

Filter mesh 50 µm.

Dipstick phosphated.

Sample order:

nIm 28054-141012

Note:

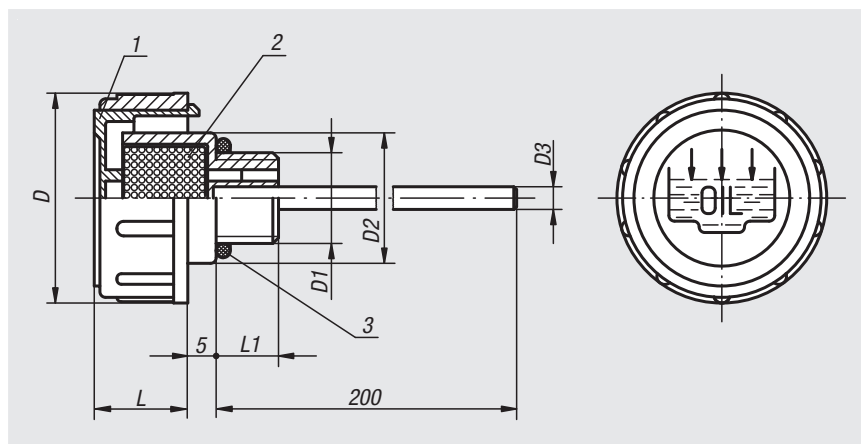
The removable cap allows easy cleaning of the air filter.

Form A: without air filter

Form B: with air filter

Temperature range:

Temperature resistant with oil up to 100°C.



On request:

Min-Max markings.

Drawing reference:

1) cap

2) air filter Form B only

3) O-ring

Order No.	Form	D	D1	D2	D3	L	L1
28054-136038	A	36	G3/8	23	4	17	11
28054-141012	A	41	G1/2	28	4	18	12
28054-147034	A	47	G3/4	33	5	17	12
28054-152100	A	52	G1	38	5	20	12
28054-163114	A	63	G1 1/4	49	5	23	13
28054-163112	A	63	G1 1/2	55	5	23	13,5
28054-1361615	A	36	M16x1,5	23	4	17	11
28054-1411815	A	41	M18x1,5	28	4	17,5	12
28054-1412015	A	41	M20x1,5	28	4	17,5	12
28054-1412215	A	41	M22x1,5	28	4	17,5	12
28054-236038	B	36	G3/8	23	4	17	11
28054-241012	B	41	G1/2	28	4	18	12
28054-247034	B	47	G3/4	33	5	17	12
28054-252100	B	52	G1	38	5	20	12
28054-263114	B	63	G1 1/4	49	5	23	13
28054-263112	B	63	G1 1/2	55	5	23	13,5
28054-2361615	B	36	M16x1,5	23	4	17	11
28054-2411815	B	41	M18x1,5	28	4	17,5	12
28054-2412015	B	41	M20x1,5	28	4	17,5	12
28054-2412215	B	41	M22x1,5	28	4	17,5	12

Vent screws

with check valve and dipstick



Material:

Housing and cap thermoplastic polyamide.
Spring stainless steel.
Dipstick zinc.
Lift disc and seal rubber (NBR).

Version:

Housing black.
Cap red.
Dipstick phosphated.

Sample order:

nln 28058-30038

Note:

Opening pressure 0.20 – 0.25 bar.

Temperature range:

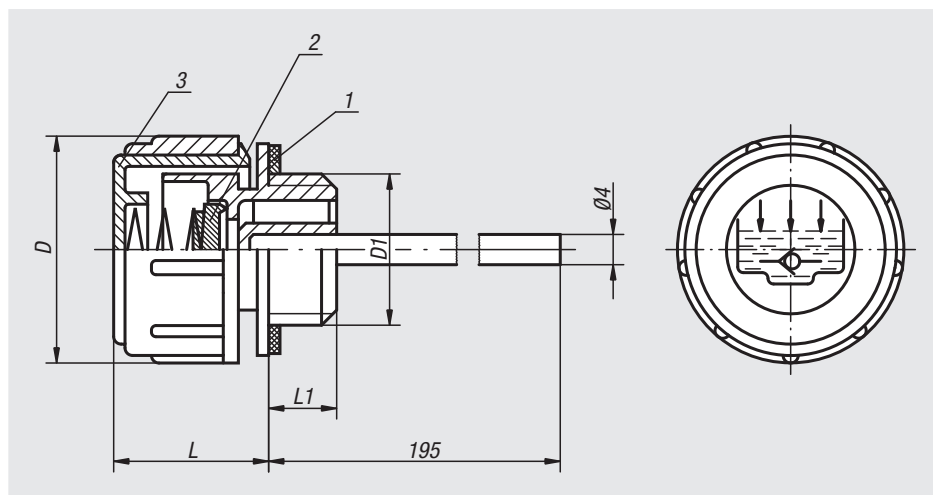
Temperature resistant with oil up to 100°C.

On request:

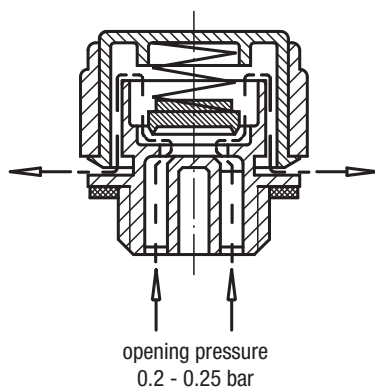
Min-Max markings.

Drawing reference:

- 1) flat seal
- 2) lift disc
- 3) cap



Operating principle



Order No.	D	D1	L	L1
28058-30038	30	G3/8	21	10
28058-30012	30	G1/2	21	10

Dipsticks


Material:

Grip thermoplastic polyamide.
Dipstick steel.
O-ring NBR, Shore 70.

Version:

Black handle.
Dipstick, phosphated.

Sample order:

nln 28060-23218

Temperature range:

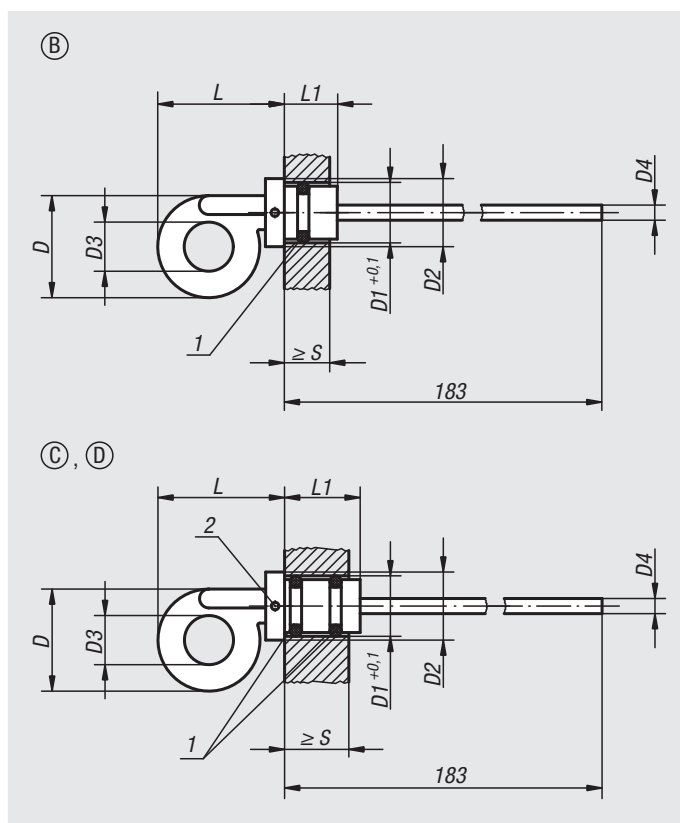
Temperature resistant with oil up to 100°C.

Drawing reference:

Form B: with vent hole
Form C: without vent hole
Form D: with vent hole

1) O-ring

2) Form D only



Order No.	Form	D	D1	D2	D3	D4 Ø	L	L1	S min.
28060-22714	B	27	14	18	13	4	34	13	10
28060-23218	B	32	18	24	14	5	45	17	9
28060-23220	B	32	20	24	14	5	44,5	18	10
28060-32714	C	27	14	18	13	4	34	20	17
28060-33012	C	27	12	18	14	4	36	20	16
28060-33318	C	33	18	24	14	5	44	21	17,5
28060-33520	C	35	20	24	16	5	46	21	17,5
28060-42714	D	27	14	18	13	4	34	20	17
28060-43318	D	33	18	24	14	5	44	21	17,5

Filler necks



Material, version:

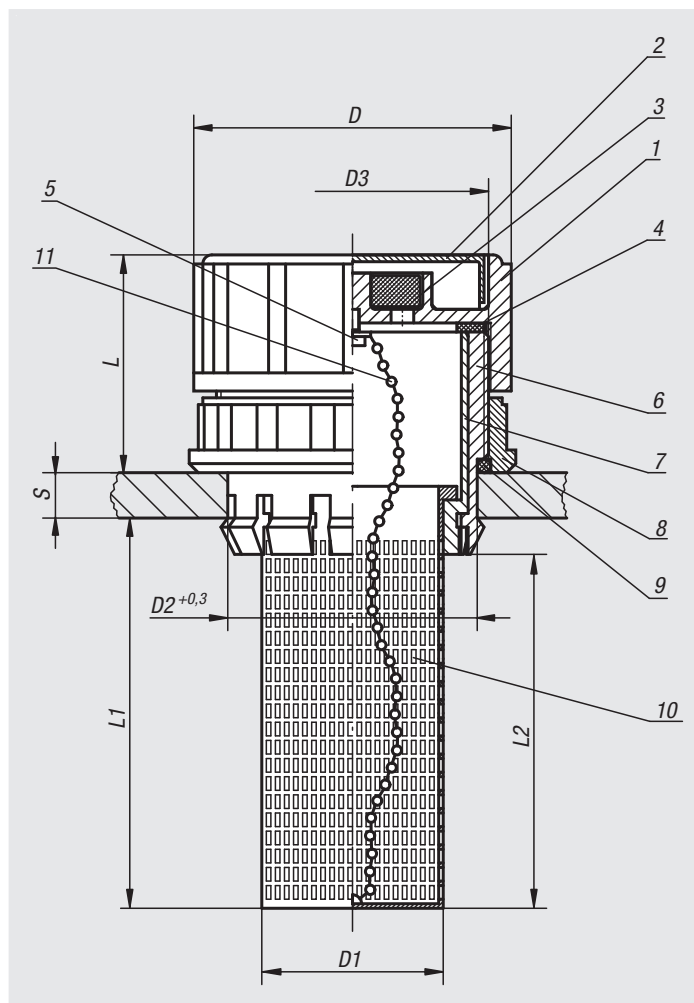
1. Housing black thermoplastic polyamide 66.
2. Sealing cap red thermoplastic polyamide 66.
3. Air filter polyurethane (PU foam), filter grade 40 µm.
4. Flat seal NBR
5. Fastening screw nickel-plated steel.
6. Press-in unit black thermoplastic polyamide 66.
7. Stop sleeve black thermoplastic polyamide 66.
8. Fastening nut black polyamide 66.
9. O-ring NBR, Shore 70.
10. Filler sieve black thermoplastic polypropylene.
11. Chain nickel-plated brass.

Sample order:

nIm 28070-706020

Note:

Temperature resistant up to 80 °C.



Order No.	D	D1	D2	D3	L	L1	L2	S
28070-706020	70	38	55	M60X2	46,5	88	80	2 - 8

Filler necks

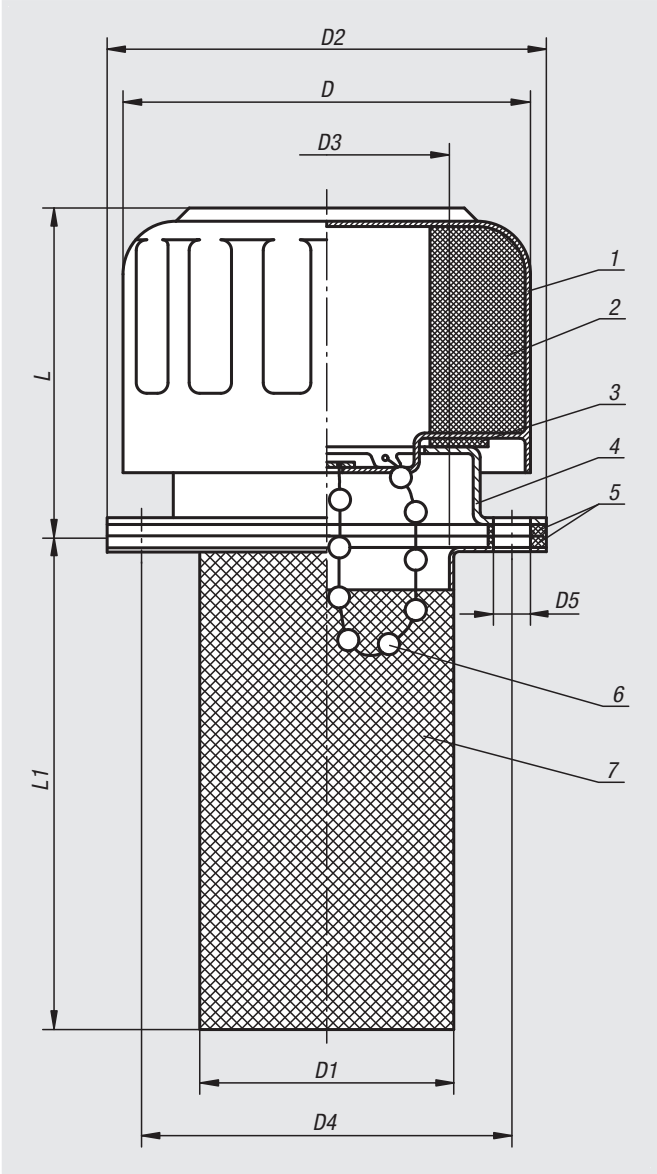


- Material, version:**
- 1. Filler housing chrome steel
 - 2. Air filter polyurethane (PU foam), filter mesh 40 µm. Flow rate up to 720 l/min
 - 3. Flat seal cork
 - 4. Mounting flange with fastening screws, bayonet fitting
 - 5. Flat seal cork
 - 6. Chain nickel-plated brass
 - 7. Filler sieve electro zinc-plated steel

Sample order:
nlm 28071-45

Note:
The filler necks are supplied with seals and M5 fastening screws.

Not suitable for water tanks.



Order No.	Version 1	D	D1	D2	D3	D4	D5	L	L1
28071-45	without chain	46,5	27,5	52	25	41,3	6 (3x)	43	66
28071-77	with chain	80	49	83	44	71,5	6 (6x)	57	80

Filler necks



Material, version:

1. Sealing cap red Polyamide 66 thermoplastic.
2. Filler sieve black Polypropylene thermoplastic.
3. Flange electro zinc-plated steel.
4. Fastening screws electro zinc-plated steel.
5. Flange seal cork.
6. Chain brass.

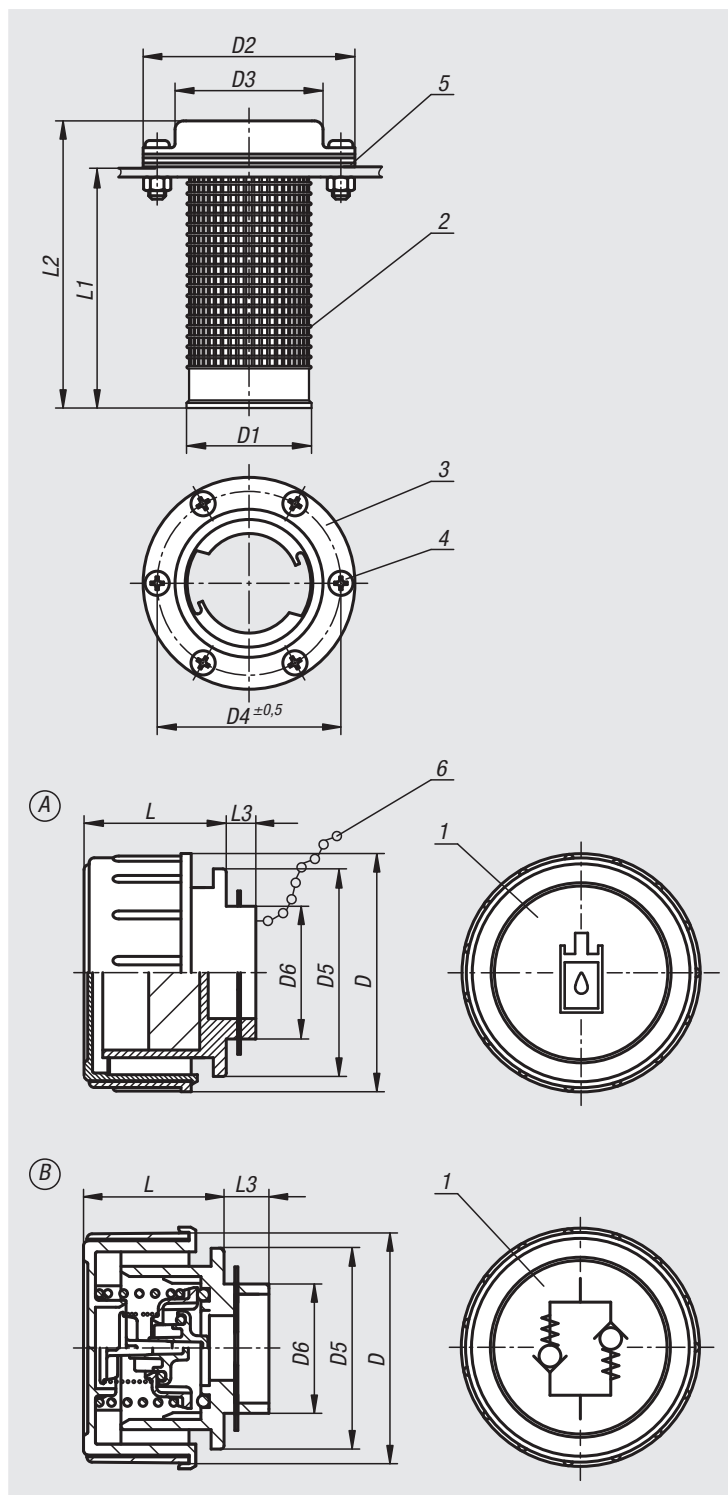
Sample order:

nIm 28072-170

Note:

Form A: the max. pressure while venting is 50 mbar (0.73 psi) with a max. air volume of 500 l/min. The air filter prevents dirt entering.

Form B: contains a plastic vent and aeration valve. The opening pressure while venting is 0.35 bar (± 0.05 bar). The opening pressure while aerating is 0.05 bar. This form is suitable for applications where the airflow needs to be controlled in both directions.



Order No.	Form	Version 2	D	D1	D2	D3	D4	D5	D6	L	L1	L2	L3
28072-170	A	with filter	70	46	83	58	72	60	37	41	94	115	14
28072-270	B	vent valve	70	46	83	58	72	60	37	41	94	115	14