

norelem controls

Electromechanical

84000 / 85000

Cable screw connections



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Cable screw connections plastic



84100-05
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Hexagon nuts
for cable screw connections EMC



84100-50
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Cable screw connections
nickel-plated brass



84100-10
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Screw plugs
plastic, round



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Cable screw connections
stainless steel



84100-13
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Screw plugs
brass, round



Accessories for stepper motors
with integrated positioning control



85300
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Cable fasteners stainless steel
or plastic in Hygienic DESIGN



84100-15
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Lifting columns aluminium
electrically adjustable



85300-10
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Cable screw connections
EMC nickel-plated brass



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Controls for lifting columns



85300-15
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Cable screw connections EMC
stainless steel



84100-30
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Hexagon nuts
for cable screw connections

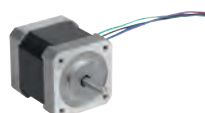


Motors

Lifting columns



85000
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Stepper motor

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Stepper motors
with integrated positioning control

85000-15
Page 1176



New/Expanded Items

84000

Cable glands



41000

80000

82000

83000

84000

85000

95000

96000

97000



A-Z

Cable glands, plastic

**Material:**

Polyamide (PA6).
Seal ring CR / NBR.

Version:

Light grey RAL 7035.

Sample order:

nlm 84100-161500

Note:

DIN EN 60423 cable glands with metric thread. Sealing and tension relief are provided by inset fins and a sealing washer.

Rating IP68 (5 bar for 30 min).

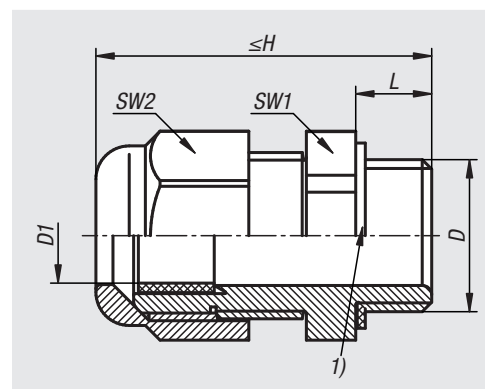
Cable glands are used for connecting fixed cables and lines in housings, distributors and switch boxes.

Temperature range:

Static: -40 °C to +100 °C.
Dynamic: -20 °C to +100 °C.

Drawing reference:

1) Flat sealing washer M32x1.5



Order No.	Version 1	D	D1	H max.	L	SW1	SW2	Max. tightening torque on SW1 Nm	Max. tightening torque on SW2 Nm
84100-121500	with standard thread length	M12x1,5	3-6,5	31	8	15	15	1,5	1,5
84100-161500	with standard thread length	M16x1,5	5-9,5	35,5	8	20	20	2,5	2,5
84100-201500	with standard thread length	M20x1,5	8-13	36	8	24	24	3,5	3,5
84100-251500	with standard thread length	M25x1,5	11-17	43	8	29	29	5	5
84100-321500	with standard thread length	M32x1,5	15-21	50	10	36	36	5	5
84100-401500	with standard thread length	M40x1,5	19-28	51	10	46	46	7,5	7,5
84100-161510	with long thread	M16x1,5	5-9,5	42,5	15	20	20	2,5	2,5
84100-201510	with long thread	M20x1,5	8-13	43	15	24	24	3,5	3,5
84100-251510	with long thread	M25x1,5	11-17	50	15	29	29	5	5
84100-321510	with long thread	M32x1,5	15-21	55	15	36	36	5	5
84100-401510	with long thread	M40x1,5	19-28	59	18	46	46	7,5	7,5

Cable glands

nickel-plated brass



Material:

Brass.

Lamellar insert polyamide (PA6).

Seal ring CR / NBR.

O-ring NBR.

Version:

nickel-plated.

Sample order:

nIm 84100-05-16150

Note:

DIN EN 60423 cable glands with metric thread. Sealing and tension relief are provided by inset fins and a sealing washer.

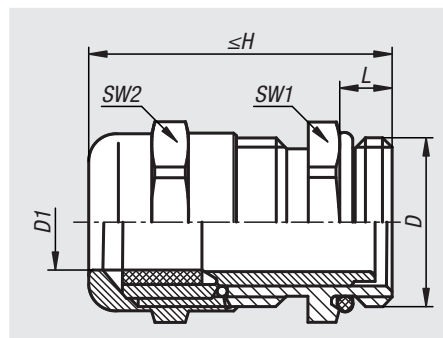
Rating IP68 (5 bar for 30 min).

Cable glands are used for connecting fixed cables and lines in housings, distributors and switch boxes.

Temperature range:

Static: -40 °C to +100 °C.

Dynamic: -20 °C to +100 °C.



Order No.	D	D1	H max.	L	SW1	SW2	Max. tightening torque on SW1 Nm	Max. tightening torque on SW2 Nm
84100-05-12150	M12x1,5	3-6	25	5	14	14	3,5	3,5
84100-05-16150	M16x1,5	5-9	30	5	17	17	3,5	3,5
84100-05-20150	M20x1,5	9-13	33,5	6	22	22	3,5	3,5
84100-05-25150	M25x1,5	11-16	36,5	7	27	27	6,7	6,7
84100-05-32150	M32x1,5	14-20	38	8	34	34	12	12
84100-05-40150	M40x1,5	19-27	41	8	43	43	13,5	13,5

Cable glands stainless steel


Material:

Stainless steel 1.4305
Lamellar insert polyamide (PA6).
Seal ring CR / NBR.
O-ring NBR.

Version:

Bright.

Sample order:

nlm 84100-10-16150

Note:

DIN EN 60423 cable glands with metric thread. Sealing and tension relief are provided by inset fins and a sealing washer.

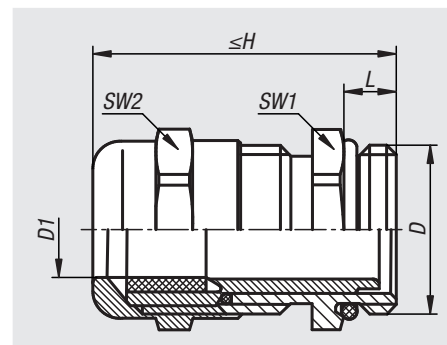
Rating IP68 (5 bar for 30 min).

Cable glands are used for connecting fixed cables and lines in housings, distributors and switch boxes.

Temperature range:

Static: -40 °C to +100 °C.

Dynamic: -20 °C to +100 °C.



Order No.	D	D1	H max.	L	SW1	SW2	Max. tightening torque on SW1 Nm	Max. tightening torque on SW2 Nm
84100-10-12150	M12x1,5	3-6	25	5	14	14	3,5	3,5
84100-10-16150	M16x1,5	5-9	30	5	17	17	3,5	3,5
84100-10-20150	M20x1,5	9-13	33,5	6	22	22	3,5	3,5
84100-10-25150	M25x1,5	11-16	36,5	7	27	27	6,7	6,7
84100-10-32150	M32x1,5	14-20	38	8	34	34	12	12
84100-10-40150	M40x1,5	19-27	41	8	43	43	13,5	13,5

Cable glands stainless steel or plastic

in Hygienic DESIGN



Material:

Stainless steel cable gland: Outer part 1.4404 Inner part 1.4305

Plastic cable gland: Polyamide. Cable gland seal: TPU. Hose:

Polyamide.

Version:

Cable gland: bright stainless steel, transparent plastic.

Hose: coated

Sample order:

nlm 84100-13-12150

Note:

Washers supplied.

EN 60423 metric thread.

IP rating 66, 68 up to 15 bar, 69K.

Tension relief corresponds to EU standard 62444.

EHEDG certified.

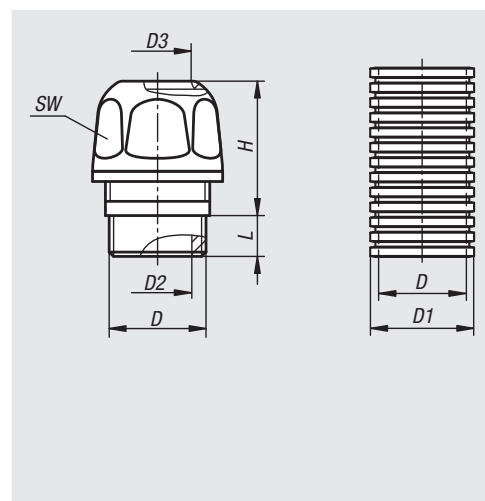
Seal insert ADI - free

Temperature range:

Stainless steel cable glands: -40 °C to +85 °C.

Plastic cable glands: -20 °C to +85 °C.

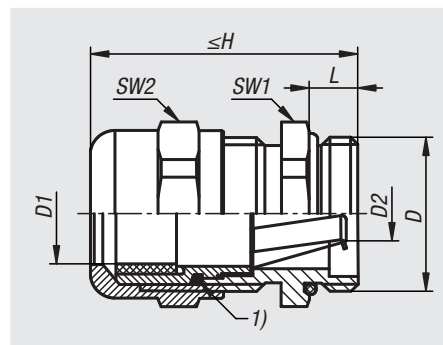
Hose: -20 °C to +95 °C.



Order No.	Item	Main material	D	D1	D2	D3	H	SW	L
84100-13-12150	cable gland	stainless steel	M12x1,5	-	8	7-5	19	17	7
84100-13-16150	cable gland	stainless steel	M16x1,5	-	10	9-7	21	20	9
84100-13-20150	cable gland	stainless steel	M20x1,5	-	12,5	12-9	27	24	9
84100-13-25150	cable gland	stainless steel	M25x1,5	-	18,5	18-15	27	30	10
84100-13-32150	cable gland	stainless steel	M32x1,5	-	25,3	23-20	27	36	11
84100-13-16151	cable gland	plastic	M16x1,5	-	10	9-7	25	22	9
84100-13-20151	cable gland	plastic	M20x1,5	-	12,5	12-9	29	26	9
84100-13-25151	cable gland	plastic	M25x1,5	-	18,5	18-15	31	32	10
84100-13-32151	cable gland	plastic	M32x1,5	-	25,3	23-20	32	38	11
80800-1250	hose	plastic	11,8	16	-	-	-	-	50 m
80800-1750	hose	plastic	15,6	21,6	-	-	-	-	50 m

Cable glands

EMC nickel-plated brass



Material:

Brass.

Lamellar insert polyamide (PA6).

Contact spring stainless steel (M12x1.5 does not have a contact spring).

Seal ring CR / NBR.

O-ring NBR.

Version:

nickel-plated.

Sample order:

nln 84100-15-16150

Note:

DIN EN 60423 cable glands with metric thread. For shielded cables and lines. Quick and easy EMC connection of the shielding braid to the housing potential by contact spring and intermediate socket. Sealing and tension relief are provided by inset fins and a sealing washer.

Rating IP68 (5 bar for 30 min).

Cable glands are used for connecting cables and lines in housings, distributors and switch boxes.

Temperature range:

Static: -40 °C to +100 °C.

Dynamic: -20 °C to +100 °C.

Drawing reference:

1) O-ring M32x1.5

Order No.	D	D1	D2	H max.	L	SW1	SW2	Max. tightening torque on SW1 Nm	Max. tightening torque on SW2 Nm
84100-15-12150	M12x1,5	3-6	-	25	5	14	14	3,5	3,5
84100-15-16150	M16x1,5	5-9	2-8	30	5	17	17	3,5	3,5
84100-15-20150	M20x1,5	9-13	3-11	33,5	6	22	22	3,5	3,5
84100-15-25150	M25x1,5	11-16	8-14	36,5	7	27	27	6,7	6,7
84100-15-32150	M32x1,5	14-20	10-19	38	8	34	34	12	12
84100-15-40150	M40x1,5	19-27	15-25	41	8	43	43	13,5	13,5

Cable glands EMC

stainless steel



Material:

Stainless steel 1.4305
Lamellar insert polyamide (PA6).
Seal ring CR / NBR.
O-ring NBR.

Version:

nickel-plated.

Sample order:

nIm 84100-20-20150

Note:

DIN EN 60423 cable glands with metric thread. For shielded cables and lines. Sealing and tension relief are provided by inset fins and a sealing washer.

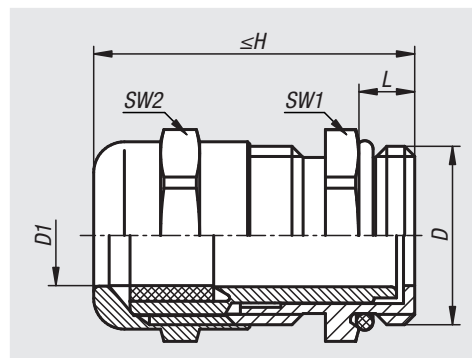
Rating IP68 (5 bar for 30 min).

Cable glands are used for connecting fixed cables and lines in housings, distributors and switch boxes.

Temperature range:

Static: -40 °C to +100 °C.

Dynamic: -20 °C to +100 °C.



Order No.	D	D1	H max.	L	SW1	SW2	Max. tightening torque on SW1 Nm	Max. tightening torque on SW2 Nm
84100-20-16150	M16x1,5	5-9	30	5	17	17	3,5	3,5
84100-20-20150	M20x1,5	9-13	33,5	6	22	22	3,5	3,5
84100-20-25150	M25x1,5	11-16	36,5	7	27	27	6,7	6,7
84100-20-32150	M32x1,5	14-20	38	8	34	34	12	12

Hexagon nuts

for cable glands



Material:

Polyamide (PA6). Brass. Stainless steel 1.4301.

Version:

Plastic light grey RAL 7035.

Brass nickel-plated.

Stainless steel bright.

Sample order:

nIm 84100-30-016150

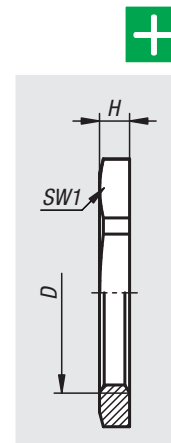
Note:

DIN EN 60423 hex nuts with metric thread. For securing cable glands and accessories.

Temperature range:

-40 °C to +100 °C (plastic).

-60 °C to +200 °C (metal).



Order No.	Main material	D	H	SW1	Max. tightening torque on SW1 Nm
84100-30-012150	polyamide	M12x1,5	5	17	1,5
84100-30-016150	polyamide	M16x1,5	5	22	2,5
84100-30-020150	polyamide	M20x1,5	6	27	3,5
84100-30-025150	polyamide	M25x1,5	6	32	5
84100-30-032150	polyamide	M32x1,5	7	41	5
84100-30-040150	polyamide	M40x1,5	7	50	7,5
84100-30-11215	brass	M12x1,5	2,8	15	3,5
84100-30-11615	brass	M16x1,5	2,8	19	3,5
84100-30-12015	brass	M20x1,5	3	24	3,5
84100-30-12515	brass	M25x1,5	3,5	30	6,7
84100-30-13215	brass	M32x1,5	4	36	12
84100-30-14015	brass	M40x1,5	5	46	13,5
84100-30-21215	stainless steel	M12x1,5	2,8	14	3,5
84100-30-21615	stainless steel	M16x1,5	2,8	19	3,5
84100-30-22015	stainless steel	M20x1,5	3	24	3,5
84100-30-22515	stainless steel	M25x1,5	3,5	30	6,7
84100-30-23215	stainless steel	M32x1,5	4	36	12
84100-30-24015	stainless steel	M40x1,5	5	46	13,5

Hexagon nuts

for EMC cable glands


Material:

Brass.

Version:

nickel-plated.

Sample order:

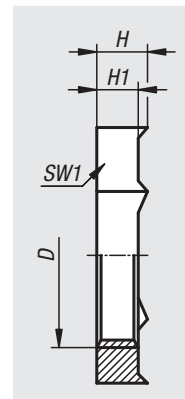
nlm 84100-32-11615

Note:

DIN EN 60423 hex nuts with metric thread. For securing EMC cable glands and accessories. With knife edge for cutting through paint or powder coatings to ensure optimum contact with the potential equaliser.

Temperature range:

-60°C to +200°C.



Order No.	D	H	H1	SW1	Max. tightening torque on SW1 Nm
84100-32-11215	M12x1,5	5,5	4,5	15	3,5
84100-32-11615	M16x1,5	5,5	4,5	19	3,5
84100-32-12015	M20x1,5	5,5	4,5	24	3,5
84100-32-12515	M25x1,5	5,5	4,5	30	6,7
84100-32-13215	M32x1,5	5,5	4,5	36	12
84100-32-14015	M40x1,5	6	5	46	13,5

Screw plugs

plastic, round


Material:

Polyamide (PA6).
Seal CR.

Version:

Plastic light grey RAL 7035.

Sample order:

nlm 84100-50-1615000

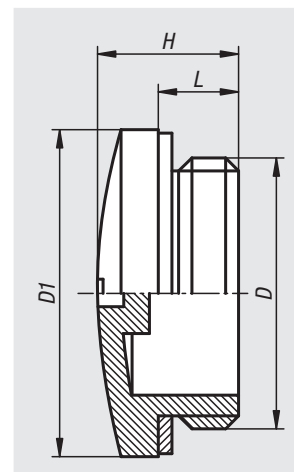
Note:

DIN EN 60423 screw plugs with metric thread. For securely sealing off unused threaded or through holes.

Rating IP68 (5 bar - 30 min).

Temperature range:

-40 °C to +100 °C.



Order No.	D	D1	H	L
84100-50-1215000	M12x1,5	15	10	6
84100-50-1615000	M16x1,5	20	10,5	6
84100-50-2015000	M20x1,5	24	10,5	6
84100-50-2515000	M25x1,5	30	13	8
84100-50-3215000	M32x1,5	37	13,5	8
84100-50-4015000	M40x1,5	46	14	8

Screw plugs

brass, round



Material:

Brass.
O-ring NBR

Version:

nickel-plated.

Sample order:

nln 84100-51-161500

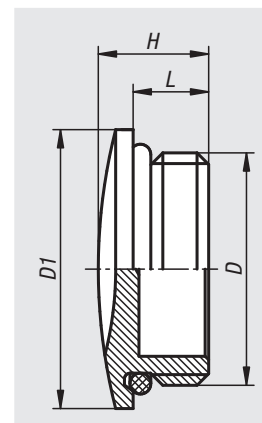
Note:

DIN EN 60423 screw plugs with metric thread. For securely sealing off unused threaded or through holes.

Rating IP68 (5 bar - 30 min).

Temperature range:

-40 °C to +100 °C.



Order No.	D	D1	H	L
84100-51-121500	M12x1,5	16	8	5
84100-51-161500	M16x1,5	20	9	6
84100-51-201500	M20x1,5	24	9,5	6,5
84100-51-251500	M25x1,5	28	11	7
84100-51-321500	M32x1,5	35	12	8
84100-51-401500	M40x1,5	45	12	8

Notes

