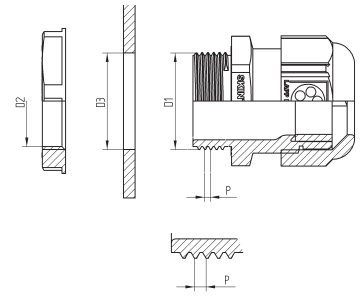


Thread and hole dimensions – technical data for installation

Metric thread to EN 60423 (for screw connections to EN 50 262)

Nominal size	Ø D1	P	Ø D2	Hole Ø D3
M12 x 1.5	12	1.5	10.6	12.3 - 0.2
M16 x 1.5	16	1.5	14.6	16.3 - 0.2
M20 x 1.5	20	1.5	18.6	20.3 - 0.2
M25 x 1.5	25	1.5	23.6	25.3 - 0.2
M32 x 1.5	32	1.5	30.6	32.3 - 0.2
M40 x 1.5	40	1.5	38.6	40.4 - 0.3
M50 x 1.5	50	1.5	48.6	50.4 - 0.3
M63 x 1.5	63	1.5	61.6	63.4 - 0.3
M75 x 1.5	75	1.5	73.6	75.4 - 0.3
M90 x 2	90	2	88.8	90.4 - 0.3
M110 x 2	110	2	108.8	110.4 - 0.3



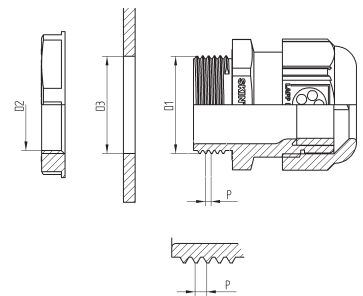
- D1 = External-Ø
- D2 = Core Ø internal thread
- D3 = Hole Ø
- P = Pitch

Metric thread to DIN 13 part 6 and 7 (for screw connections to DIN 89 280)

Nominal size	Ø D1	P	Ø D2	Hole Ø D3
M18 x 1.5	18	1.5	16.4	18.3 - 0.2
M24 x 1.5	24	1.5	22.4	24.3 - 0.2
M30 x 2	30	2	27.8	30.3 - 0.2
M36 x 2	36	2	33.8	36.3 - 0.2
M45 x 2	45	2	42.8	45.4 - 0.3
M56 x 2	56	2	53.8	56.4 - 0.3
M72 x 2	72	2	69.8	72.5 - 0.4
M80 x 2	80	2	77.8	80.5 - 0.4
M105 x 2	105	2	102.8	105.5 - 0.4

PG thread to DIN 40430

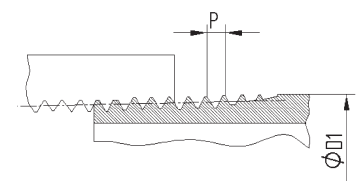
Nominal size	Ø D1	P	Ø D2	Hole Ø D3
PG 7	12.5	1.27	11.3	12.8 - 0.2
PG 9	15.2	1.41	13.9	15.5 - 0.2
PG 11	18.6	1.41	17.3	18.9 - 0.2
PG 13.5	20.4	1.41	19.1	20.7 - 0.2
PG 16	22.5	1.41	21.2	22.8 - 0.2
PG 21	28.3	1.588	26.8	28.6 - 0.2
PG 29	37.0	1.588	35.5	37.4 - 0.3
PG 36	47.0	1.588	45.5	47.4 - 0.3
PG 42	54.0	1.588	52.5	54.4 - 0.3
PG 48	59.3	1.588	57.8	59.7 - 0.3



- D1 = External-Ø
- D2 = Core Ø internal thread
- D3 = Hole Ø
- P = Pitch

NPT thread to ANSI B1.20.2 – 1983

Nominal size	Ø D1	P	Hole Ø D3
NPT 1/4"	13.7	1.41	14.1 - 0.2
NPT 3/8"	17.1	1.41	17.4 - 0.2
NPT 1/2"	21.3	1.81	21.6 - 0.2
NPT 3/4"	26.7	1.81	27.0 - 0.2
NPT 1"	33.4	2.21	33.7 - 0.2
NPT 1 1/4"	42.2	2.21	42.5 - 0.2
NPT 1 1/2"	48.3	2.21	48.7 - 0.2
NPT 2"	60.3	2.21	60.7 - 0.2



- D1 = External-Ø
- D3 = Hole Ø
- P = Pitch

Tightening torques and installation dimensions for cable glands

Tightening torques* for SKINTOP® metric cable glands

Table of recommended tightening torques (domed cap nut, connection thread) for SKINTOP® metric design to achieve category A protection rating and strain relief to EN 50262. For more information regarding the protection rating, see the product page.

Nominal size	Tightening torque in Nm	
	Plastic	Metal
M12 x 1.5	1.5	8
M16 x 1.5	3.0	10
M20 x 1.5	6.0	12
M25 x 1.5	8.0	12
M32 x 1.5	10.0	18
M40 x 1.5	13.0	18
M50 x 1.5	15.0	20
M63 x 1.5	16.0	20
M63 x 1.5 plus	-	25
M75 x 1.5	-	30
M90 x 2	-	45
M110 x 2	-	55

*NOTE: The values in the table above constitute the tightening torques for fittings and the maximum tightening torques for domed cap nuts under normal climatic conditions. Note that lower torques must be used with different cable insulation materials; otherwise, the cable insulation may be damaged. For ATEX screw connections, see the corresponding operating instructions for the respective tightening torques (operating instructions can be found in the delivery bag).

Tightening torques* for SKINTOP® PG cable glands

Nominal size	Tightening torques for fittings in Nm		Tightening torques for domed cap nuts in Nm	
	Plastic	Metal	Plastic	Metal
PG 7	3.0	6.25	1.7	6.25
PG 9	4.0	6.25	2.5	6.25
PG 11	4.0	6.25	2.5	6.25
PG 13.5	4.0	6.25	2.5	6.25
PG 16	6.0	7.5	3.3	7.5
PG 21	8.0	10.0	5.0	10.0
PG 29	13.0	10.0	5.0	10.0
PG 36	13.0	10.0	5.0	10.0
PG 42	13.0	10.0	5.0	10.0
PG 48	13.0	10.0	5.0	10.0

*NOTE: The values in the table above constitute the tightening torques for fittings and the maximum tightening torques for domed cap nuts under normal climatic conditions. Note that lower torques must be used with different cable insulation materials; otherwise, the cable insulation may be damaged. For ATEX screw connections, see the corresponding operating instructions for the respective tightening torques (operating instructions can be found in the delivery bag).

Installation dimensions and wrench sizes for cable glands

Diameter A indicates the installation space required for the relevant hexagon. This diameter corresponds to the width of the hexagon across corners plus an installation tolerance.

SW	Ø A	SW	Ø A	SW	Ø A	SW	Ø A
9	10.4	22	25.0	37	41.5	54	61.0
11	12.5	24	27.3	39	44.0	55	62.0
13	14.9	25	28.3	40	45.2	57	64.4
14	16.0	26	29.5	41	46.1	60	67.5
15	17.1	27	30.6	42	47.0	64	72.3
16	18.2	28	31.8	45	51.2	65	73.1
17	19.4	29	32.5	45	51.2	66	74.5
18	20.4	30	34.0	46	52.5	67	74.5
19	22.0	32	36.2	47	52.5	95	105.0
20	22.7	33	37.2	50	58.3	115	127.0
21	23.9	36	40.5	53	60.0	135	150.0

