

# Thread Dimensions and Tightening Torque Values

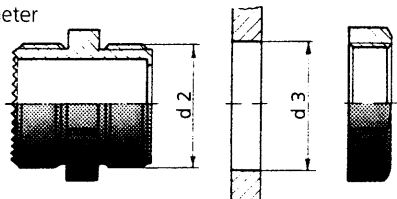
For screw-type cable glands

T21

## Technical data for assembly

PG-Thread DIN 40430	Nominal thread			
	$\varnothing d_1$	$\varnothing d_2$	p	$\varnothing d_3$
PG 7	11,28	12,50	1,27	13,0 ± 0,2
PG 9	13,86	15,20	1,41	15,7 ± 0,2
PG 11	17,26	18,60	1,41	19,0 ± 0,2
PG 13,5	19,06	20,40	1,41	21,0 ± 0,2
PG 16	21,16	22,50	1,41	23,0 ± 0,2
PG 21	26,78	28,30	1,588	28,8 ± 0,2
PG 29	35,48	37,00	1,588	37,5 ± 0,3
PG 36	45,48	47,00	1,588	47,5 ± 0,3
PG 42	52,48	54,00	1,588	54,5 ± 0,3
PG 48	57,73	59,30	1,588	59,8 ± 0,3

$d_1$  = core diameter  
 $d_2$  = outside diameter  
 $d_3$  = bore diameter  
 p = pitch



Metric thread DIN 46319	Nominal thread			
	$\varnothing d_1$	$\varnothing d_2$	p	$\varnothing d_3$
M 12 x 1,5	10,38	12	1,5	12,5 ± 0,2
M 16 x 1,5	14,38	16	1,5	16,5 ± 0,2
M 20 x 1,5	18,38	20	1,5	20,5 ± 0,2
M 25 x 1,5	23,38	25	1,5	25,5 ± 0,2
M 32 x 1,5	30,38	32	1,5	32,5 ± 0,2
M 40 x 1,5	38,38	40	1,5	40,5 ± 0,3
M 50 x 1,5	48,38	50	1,5	50,5 ± 0,3
M 63 x 1,5	61,38	63	1,5	64,0 ± 0,3

Metric thread DIN 89280	Nominal thread			
	$\varnothing d_1$	$\varnothing d_2$	p	$\varnothing d_3$
M 18 x 1,5	16,38	18	1,5	18,5 ± 0,2
M 24 x 1,5	22,38	24	1,5	24,5 ± 0,2
M 30 x 2,0	27,34	30	2,0	30,5 ± 0,2
M 36 x 2,0	33,34	36	2,0	36,5 ± 0,2
M 45 x 2,0	42,34	45	2,0	45,5 ± 0,3
M 56 x 2,0	53,34	58	2,0	57,0 ± 0,3
M 72 x 2,0	68,82	72	2,0	73,0 ± 0,3

### Strain relief to VDE 0619

It must not be possible to push the cable into the specimen with a force of 10 N. Then the cable is pulled without jerking with a tensile force in the axial direction 50 times for 1 s each time.

Cable diameter mm	Tensile force N	Torque Nm
> bis 4	40	0,05
> 4 bis 8	50	0,1
> 8 bis 11	60	0,15
> 11 bis 16	80	0,35
> 16	100	0,42

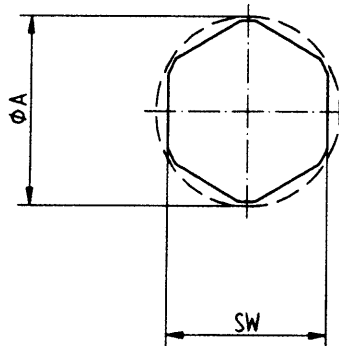
### Tightening torque values to DIN/VDE 0619, Point 7.

The tightening torque values to DIN/VDE 0619 are the torque values for tightening the centre sections to achieve Protection Class IP 68-5 bar.

Nominal size	Bushing	
	Metal	Polymer moulding compound torque in Nm
Pg 7	6,25	2,5
Pg 9	6,25	3,75
Pg 11	6,25	3,75
Pg 13,5	6,25	3,75
Pg 16	7,5	5,0
Pg 21	10,0	7,5
Pg 29	10,0	7,5
Pg 36	10,0	7,5
Pg 42	10,0	7,5
Pg 48	10,0	7,5

### Fitting dimensions and widths across flats

The diameter A indicates the assembly space required for the relevant hexagon. This diameter corresponds to the width across corner of the hexagon, plus an assembly tolerance.



SW	A
25	28,3
26	29,5
27	30,6
28	31,8
29	32,5
30	34,0
32	36,2
33	37,2
36	40,5
37	41,5
39	44,0
40	45,2
41	46,1
42	47,0
45	51,2
46	52,5
47	52,5
50	58,3
53	60,0
54	61,0
55	62,0
57	64,4
60	67,5
64	72,3
65	73,1
66	74,5
67	74,5

SW	A
9	10,4
11	12,5
13	14,9
14	16,0
15	17,1
16	18,2
17	19,4
18	20,4
19	22,0
20	22,7
21	23,9
22	25,0
24	27,3