

Safety Tension Levers

**Steel, with Internal Thread / with Threaded Stud,
Push to Engage**

SPECIFICATION

Types

- Type **E**: Angled lever
- Type **D**: Straight lever

Hub / Shaft

Steel
Blackened

Insert

- Steel
- Property class 5.8 (with threaded stud)
 - Blackened

Ball knob DIN 319 (see page 538)

Plastic, phenolic resin (PF)
Black, shiny finish

Safety circlip

Plastic, polyacetal (POM)



INFORMATION

Safety tension levers GN 312 are used on such applications where a thoughtless or mistaken releasing or re-positioning of the tension lever could lead to an accident.

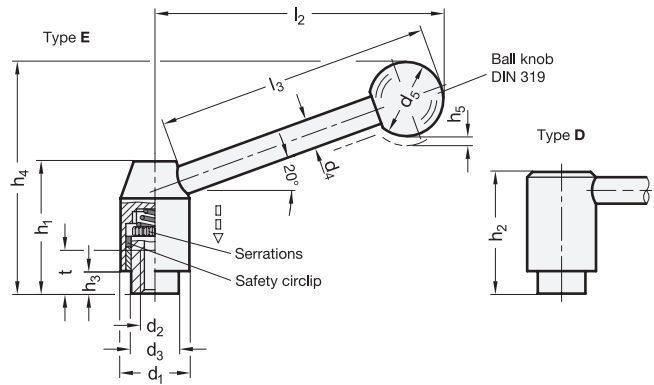
The lever in its rest position is not connected with the internal spindle and can be rotated unhindered.

The tension lever engages in the serration only after pushing it down, thus allowing clamping or unclamping.

The „freewheel“ position is re-established as soon as the handle is released.

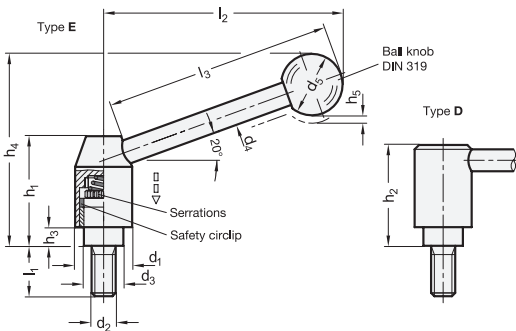
TECHNICAL INFORMATION

- Strength Values of Screws (see page A20)
- Plastic Characteristics (see page A2)



GN 312-With Internal Thread

Description	d ₁	d ₂	d ₃	d ₄	d ₅	h ₁	h ₂	h ₃	h ₄	h ₅ Stroke	l ₂	l ₃	t min.	
GN 312-21-M6-E	21	M 6	13.5	8	20	37	-	4.5	62	3	75	70	11	101
GN 312-21-M6-D	21	M 6	13.5	8	20	-	34.5	4.5	39	3	81	-	11	101
GN 312-21-M8-E	21	M 8	13.5	8	20	37	-	4.5	62	3	75	70	11	99
GN 312-21-M8-D	21	M 8	13.5	8	20	-	34.5	4.5	39	3	81	-	11	99
GN 312-24-M8-E	24	M 8	16	10	25	44	-	6.5	78	3.5	101	96	14	165
GN 312-24-M8-D	24	M 8	16	10	25	-	41	6.5	47	3.5	108	-	14	167
GN 312-24-M10-E	24	M 10	16	10	25	44	-	6.5	78	3.5	101	96	14	161
GN 312-24-M10-D	24	M 10	16	10	25	-	41	6.5	47	3.5	108	-	14	163
GN 312-28-M10-E	28	M 10	19	12	30	53	-	8.5	93	4	116	110	17	286
GN 312-28-M10-D	28	M 10	19	12	30	-	49	8.5	56	4	124	-	17	273
GN 312-28-M12-E	28	M 12	19	12	30	53	-	8.5	93	4	116	110	17	270
GN 312-28-M12-D	28	M 12	19	12	30	-	49	8.5	56	4	124	-	17	267
GN 312-33-M12-E	33	M 12	23	12	32	60	-	10.5	105	4.5	131	124	22	407
GN 312-33-M12-D	33	M 12	23	12	32	-	56	10.5	65	4.5	140.5	-	22	399
GN 312-33-M16-E	33	M 16	23	12	32	60	-	10.5	105	4.5	131	124	22	390
GN 312-33-M16-D	33	M 16	23	12	32	-	56	10.5	65	4.5	140.5	-	22	382



GN 312-With Threaded Stud

Description	d1	d2	l1	d3	d4	d5	h1	h2	h3	h4	h5 Stroke	l2	l3	⚖
GN 312-21-M8-16-E	21	M 8	16	13.5	8	20	37	-	4.5	62	3	75	70	108
GN 312-21-M8-16-D	21	M 8	16	13.5	8	20	-	34.5	4.5	39	3	81	-	108
GN 312-21-M8-20-E	21	M 8	20	13.5	8	20	37	-	4.5	62	3	75	70	109
GN 312-21-M8-20-D	21	M 8	20	13.5	8	20	-	34.5	4.5	39	3	81	-	109
GN 312-21-M8-25-E	21	M 8	25	13.5	8	20	37	-	4.5	62	3	75	70	111
GN 312-21-M8-25-D	21	M 8	25	13.5	8	20	-	34.5	4.5	39	3	81	-	111
GN 312-21-M8-32-E	21	M 8	32	13.5	8	20	37	-	4.5	62	3	75	70	113
GN 312-21-M8-32-D	21	M 8	32	13.5	8	20	-	34.5	4.5	39	3	81	-	113
GN 312-21-M8-40-E	21	M 8	40	13.5	8	20	37	-	4.5	62	3	75	70	116
GN 312-21-M8-40-D	21	M 8	40	13.5	8	20	-	34.5	4.5	39	3	81	-	116
GN 312-21-M8-50-E	21	M 8	50	13.5	8	20	37	-	4.5	62	3	75	70	118
GN 312-21-M8-50-D	21	M 8	50	13.5	8	20	-	34.5	4.5	39	3	81	-	118
GN 312-21-M8-63-E	21	M 8	63	13.5	8	20	37	-	4.5	62	3	75	70	123
GN 312-21-M8-63-D	21	M 8	63	13.5	8	20	-	34.5	4.5	39	3	81	-	123
GN 312-24-M10-20-E	24	M 10	20	16	10	25	44	-	6.5	78	3.5	101	96	179
GN 312-24-M10-20-D	24	M 10	20	16	10	25	-	41	6.5	47	3.5	108	-	181
GN 312-24-M10-25-E	24	M 10	25	16	10	25	44	-	6.5	78	3.5	101	96	181
GN 312-24-M10-25-D	24	M 10	25	16	10	25	-	41	6.5	47	3.5	108	-	183
GN 312-24-M10-32-E	24	M 10	32	16	10	25	44	-	6.5	78	3.5	101	96	184
GN 312-24-M10-32-D	24	M 10	32	16	10	25	-	41	6.5	47	3.5	108	-	186
GN 312-24-M10-40-E	24	M 10	40	16	10	25	44	-	6.5	78	3.5	101	96	188
GN 312-24-M10-40-D	24	M 10	40	16	10	25	-	41	6.5	47	3.5	108	-	190
GN 312-24-M10-50-E	24	M 10	50	16	10	25	44	-	6.5	78	3.5	101	96	194
GN 312-24-M10-50-D	24	M 10	50	16	10	25	-	41	6.5	47	3.5	108	-	196
GN 312-24-M10-63-E	24	M 10	63	16	10	25	44	-	6.5	78	3.5	101	96	201
GN 312-24-M10-63-D	24	M 10	63	16	10	25	-	41	6.5	47	3.5	108	-	203
GN 312-24-M10-80-E	24	M 10	80	16	10	25	44	-	6.5	78	3.5	101	96	185
GN 312-24-M10-80-D	24	M 10	80	16	10	25	-	41	6.5	47	3.5	108	-	210
GN 312-28-M12-20-E	28	M 12	20	19	12	30	53	-	8.5	93	4	116	110	299
GN 312-28-M12-20-D	28	M 12	20	19	12	30	-	49	8.5	56	4	124	-	296
GN 312-28-M12-25-E	28	M 12	25	19	12	30	53	-	8.5	93	4	116	110	304
GN 312-28-M12-25-D	28	M 12	25	19	12	30	-	49	8.5	56	4	124	-	301
GN 312-28-M12-32-E	28	M 12	32	19	12	30	53	-	8.5	93	4	116	110	309
GN 312-28-M12-32-D	28	M 12	32	19	12	30	-	49	8.5	56	4	124	-	306
GN 312-28-M12-40-E	28	M 12	40	19	12	30	53	-	8.5	93	4	116	110	314
GN 312-28-M12-40-D	28	M 12	40	19	12	30	-	49	8.5	56	4	124	-	311
GN 312-28-M12-50-E	28	M 12	50	19	12	30	53	-	8.5	93	4	116	110	321
GN 312-28-M12-50-D	28	M 12	50	19	12	30	-	49	8.5	56	4	124	-	318
GN 312-28-M12-63-E	28	M 12	63	19	12	30	53	-	8.5	93	4	116	110	331
GN 312-28-M12-63-D	28	M 12	63	19	12	30	-	49	8.5	56	4	124	-	328
GN 312-28-M12-80-E	28	M 12	80	19	12	30	53	-	8.5	93	4	116	110	350
GN 312-28-M12-80-D	28	M 12	80	19	12	30	-	49	8.5	56	4	124	-	339
GN 312-33-M16-32-E	33	M 16	32	23	12	32	60	-	10.5	105	4.5	131	124	455
GN 312-33-M16-32-D	33	M 16	32	23	12	32	-	56	10.5	65	4.5	140.5	-	458
GN 312-33-M16-40-E	33	M 16	40	23	12	32	60	-	10.5	105	4.5	131	124	460
GN 312-33-M16-40-D	33	M 16	40	23	12	32	-	56	10.5	65	4.5	140.5	-	469
GN 312-33-M16-50-E	33	M 16	50	23	12	32	60	-	10.5	105	4.5	131	124	492
GN 312-33-M16-50-D	33	M 16	50	23	12	32	-	56	10.5	65	4.5	140.5	-	484
GN 312-33-M16-63-E	33	M 16	63	23	12	32	60	-	10.5	105	4.5	131	124	508
GN 312-33-M16-63-D	33	M 16	63	23	12	32	-	56	10.5	65	4.5	140.5	-	500
GN 312-33-M16-80-E	33	M 16	80	23	12	32	60	-	10.5	105	4.5	131	124	530
GN 312-33-M16-80-D	33	M 16	80	23	12	32	-	56	10.5	65	4.5	140.5	-	522

