

Toggle latches

Steel / Stainless Steel

SPECIFICATION

Types

- Type **A**: without spring cotter pin
- Type **B**: with spring cotter pin

Version in Steel ST

zinc plated, blue passivated

Version in Stainless Steel NI

AISI 304

INFORMATION

The outstanding features of GN 8330 toggle latches are superior functionality and design. The integrated spring mechanism holds the locking lever and the clamping hook in the open position and allows effortless operation.

Once the dead center is exceeded, the elasticity of the sheet metal parts will cause the toggle latch to close. In the clamped position, the required drill hole spacing is m_2 .

With the stroke w of the clamping hook, the elements to be connected can be pulled together during clamping.

The toggle latch can be secured against opening inadvertently with the so-called spring cotter pin. The spring cotter pin is placed into the d_2 bore hole. Sealing is also possible via d_2 .

The retaining force given in the table is a guide value for the potentially static tensile stress load acting on the toggle latch. Depending on the conditions of use (e.g. when exposed to vibrations or shock impact), the retaining force may be impaired.

Screws with low-lying flat head must be used to guarantee the proper function. The drill template also allows the assembly using blank rivets.

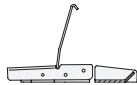
ON REQUEST

- GN 8330.1 spring cotter pin

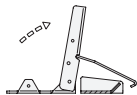
TECHNICAL INFORMATION

- Stainless Steel characteristics (see page A26)

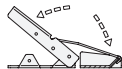
DESCRIPTION OF FUNCTION



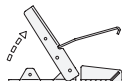
If not operated (i.e. not in the clamping position), both the locking lever and the clamping hook are held in the position shown, kept in place by two torsion springs.



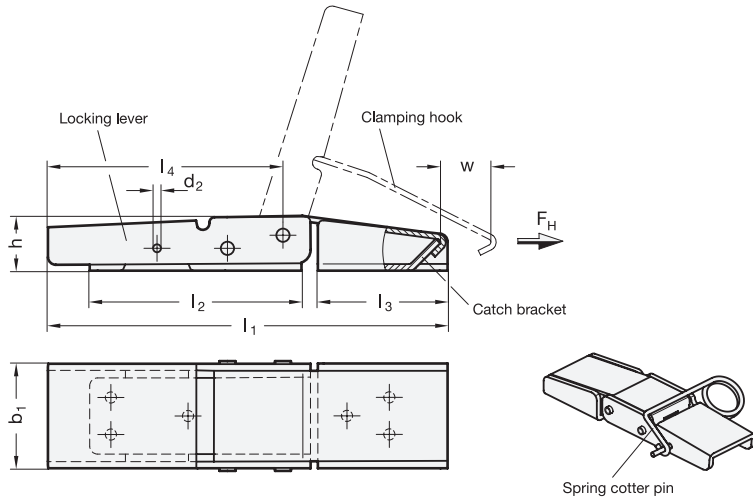
Lifting the clamping lever will swivel the clamping hook into the level of the catch bracket.



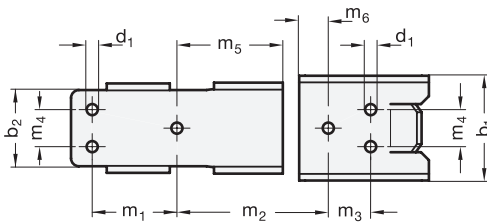
For the clamping action, the clamping hook is pressed into the catch bracket and the locking lever is at the same time turned into the starting (retaining) position.



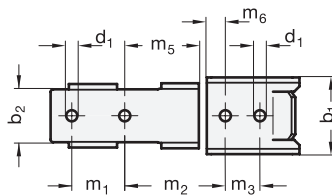
To release, simply lift the locking lever.



Hole pattern for $b_1 = 40$



Hole pattern for $b_1 = 15 / 20 / 29$



GN 8330

| Description | b1 | FH in N | b2 | d1 | d2 | h | l1 ≈ | l2 | l3 | l4 | m1 | m2 | m3 | m4 | m5 | m6 | w ≈ | ⚖ |
|-----------------|----|---------|-----|-----|-----|----|------|----|----|------|-----|------|-----|----|-----|----|-----|-----|
| GN 8330-15-ST-A | 15 | 100 | 9.5 | 3.4 | 1.4 | 8 | 53 | 25 | 17 | 31.5 | 9.5 | 13.5 | 6.2 | - | 8.5 | 3 | 11 | 16 |
| GN 8330-20-ST-A | 20 | 300 | 13 | 3.4 | 1.8 | 10 | 76 | 34 | 25 | 44 | 8 | 29 | 8 | - | 22 | 4 | 9 | 35 |
| GN 8330-29-ST-A | 29 | 600 | 20 | 4.2 | 2.5 | 15 | 111 | 56 | 35 | 67 | 20 | 38.8 | 13 | - | 28 | 7 | 11 | 123 |
| GN 8330-40-ST-A | 40 | 1200 | 29 | 4.2 | 3 | 20 | 152 | 80 | 49 | 89 | 32 | 57.3 | 16 | 14 | 40 | 11 | 19 | 289 |
| GN 8330-15-ST-B | 15 | 100 | 9.5 | 3.4 | 1.4 | 8 | 53 | 25 | 17 | 31.5 | 9.5 | 13.5 | 6.2 | - | 8.5 | 3 | 11 | 17 |
| GN 8330-20-ST-B | 20 | 300 | 13 | 3.4 | 1.8 | 10 | 76 | 34 | 25 | 44 | 8 | 29 | 8 | - | 22 | 4 | 9 | 36 |
| GN 8330-29-ST-B | 29 | 600 | 20 | 4.2 | 2.5 | 15 | 111 | 56 | 35 | 67 | 20 | 38.8 | 13 | - | 28 | 7 | 11 | 128 |
| GN 8330-40-ST-B | 40 | 1200 | 29 | 4.2 | 3 | 20 | 152 | 80 | 49 | 89 | 32 | 57.3 | 16 | 14 | 40 | 11 | 19 | 294 |

GN 8330-NI

STAINLESS STEEL

| Description | b1 | FH in N | b2 | d1 | d2 | h | l1 ≈ | l2 | l3 | l4 | m1 | m2 | m3 | m4 | m5 | m6 | w ≈ | ⚖ |
|-----------------|----|---------|-----|-----|-----|----|------|----|----|------|-----|------|-----|----|-----|----|-----|-----|
| GN 8330-15-NI-A | 15 | 100 | 9.5 | 3.4 | 1.4 | 8 | 53 | 25 | 17 | 31.5 | 9.5 | 13.5 | 6.2 | - | 8.5 | 3 | 11 | 15 |
| GN 8330-20-NI-A | 20 | 300 | 13 | 3.4 | 1.8 | 10 | 76 | 34 | 25 | 44 | 8 | 29 | 8 | - | 22 | 4 | 9 | 37 |
| GN 8330-29-NI-A | 29 | 600 | 20 | 4.2 | 2.5 | 15 | 111 | 56 | 35 | 67 | 20 | 38.8 | 13 | - | 28 | 7 | 11 | 117 |
| GN 8330-40-NI-A | 40 | 1200 | 29 | 4.2 | 3 | 20 | 152 | 80 | 49 | 89 | 32 | 57.3 | 16 | 14 | 40 | 11 | 19 | 281 |
| GN 8330-15-NI-B | 15 | 100 | 9.5 | 3.4 | 1.4 | 8 | 53 | 25 | 17 | 31.5 | 9.5 | 13.5 | 6.2 | - | 8.5 | 3 | 11 | 17 |
| GN 8330-20-NI-B | 20 | 300 | 13 | 3.4 | 1.8 | 10 | 76 | 34 | 25 | 44 | 8 | 29 | 8 | - | 22 | 4 | 9 | 38 |
| GN 8330-29-NI-B | 29 | 600 | 20 | 4.2 | 2.5 | 15 | 111 | 56 | 35 | 67 | 20 | 38.8 | 13 | - | 28 | 7 | 11 | 122 |
| GN 8330-40-NI-B | 40 | 1200 | 29 | 4.2 | 3 | 20 | 152 | 80 | 49 | 89 | 32 | 57.3 | 16 | 14 | 40 | 11 | 19 | 286 |

