

## Spring Latches

**Stainless Steel, with Chamfered Pin, with Flange for Surface Mounting**

### SPECIFICATION

#### Types

- Type **L**: Left indexing cam
- Type **R**: Right indexing cam

#### Identification no. chamfered pin

- No. **1**: Chamfer, top
- No. **2**: Chamfer, bottom
- No. **3**: Chamfer, right
- No. **4**: Chamfer, left

#### Identification no. catch

- No. **1**: Without catch
- No. **2**: With catch

#### Guide / Catch

- Stainless steel precision casting AISI CF-8 **NI**

#### Latch arm

- Stainless steel precision casting AISI CF-8 for **NI**

#### Plunger pin

- Stainless steel AISI 431, hardened for **NI**

#### Compression spring

Stainless steel AISI 316Ti



The notch at the upper end of the curve causes the latch to be held in place if the plunger pin needs to be kept temporarily from protruding.

The dimensional tolerances between the pin and the guide have been chosen to ensure functional reliability even in roughly dimensioned applications or in the event of soiling. The latching mechanism is pre-lubricated and can be re-lubricated if necessary.

For fastening, slotted or hex mounting holes allow the use of socket cap screws ISO 4762 and hex head screws or nuts according to DIN 931 or DIN 934.

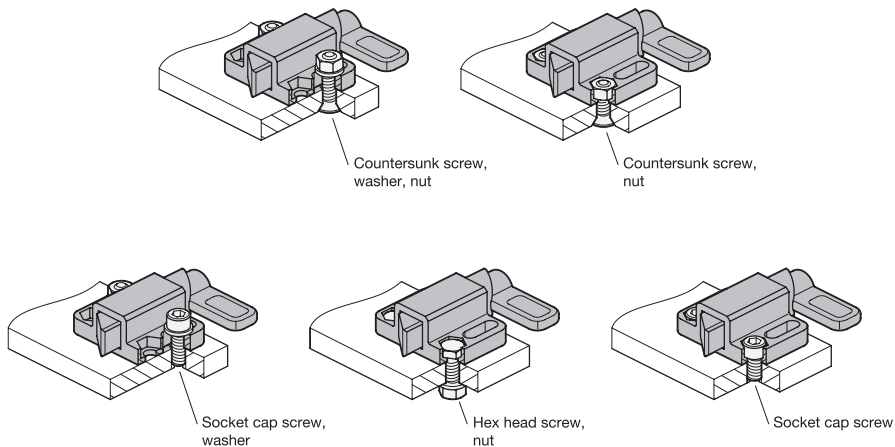
### TECHNICAL INFORMATION

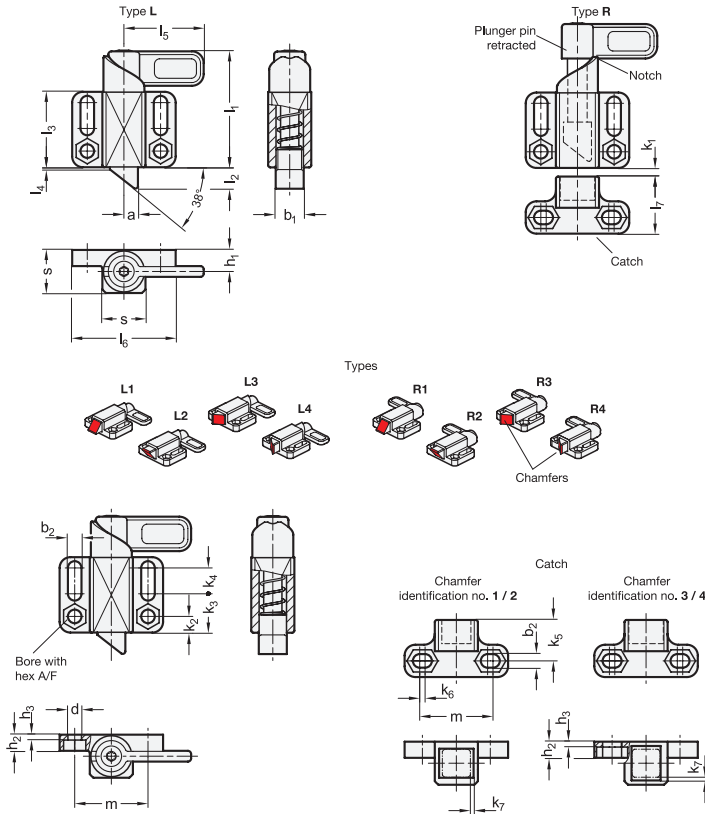
- Application Example (see page )
- Range of Cam Action Indexing Plungers (see page 816)
- Stainless Steel Characteristics (see page A26)

### INFORMATION

Spring latches GN 724.3 have a plunger pin with square cross-section, a latching surface on one side and a chamfer on the other. When moving in the direction of the chamfered pin, the plunger pin passes over grooves and edges, as the chamfered pin moves the plunger pin into the guide. The plunger pin automatically latches into place when moved toward the latching surface. The latching can be released by pulling the latch arm.

### Assembly Examples





GN 724.3-NI-L1

STAINLESS STEEL

Description	b <sub>1</sub>	s	a	h <sub>1</sub>	k <sub>1</sub> min.	l <sub>1</sub> ≈	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	l <sub>6</sub>	l <sub>7</sub>	Spring load	Spring load	b <sub>2</sub>	d	h <sub>2</sub>	h <sub>3</sub>	k <sub>2</sub>	k <sub>3</sub>	k <sub>4</sub>	k <sub>5</sub>	k <sub>6</sub>	k <sub>7</sub>	m	A/F	⚖
													in N ≈ Initial	in N ≈ End													
GN 724.3-13-20-L1-NI-1	13	20	6.5	10	-	54	10	35	1	37	48	-	14	35	6.1	6.1	7.5	1.5	7.5	18	12	-	-	-	34	10	178
GN 724.3-13-20-L1-NI-2	13	20	6.5	10	1.5	54	10	35	1	37	48	26.5	14	35	6.1	6.1	7.5	1.5	7.5	18	12	19	2.5	1.5	34	10	230
GN 724.3-20-30-L1-NI-1	20	30	10	15	-	84	15	54	1.5	55	80	-	22	70	10.1	10.1	14	5	14	34	10	-	-	55	17	717	
GN 724.3-20-30-L1-NI-2	20	30	10	15	2	84	15	54	1.5	55	80	40	22	70	10.1	10.1	14	5	14	34	10	27.5	3	2	55	17	954

GN 724.3-NI-L2

STAINLESS STEEL

Description	b <sub>1</sub>	s	a	h <sub>1</sub>	k <sub>1</sub> min.	l <sub>1</sub> ≈	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	l <sub>6</sub>	l <sub>7</sub>	Spring load	Spring load	b <sub>2</sub>	d	h <sub>2</sub>	h <sub>3</sub>	k <sub>2</sub>	k <sub>3</sub>	k <sub>4</sub>	k <sub>5</sub>	k <sub>6</sub>	k <sub>7</sub>	m	A/F	⚖
													in N ≈ Initial	in N ≈ End													
GN 724.3-13-20-L2-NI-1	13	20	6.5	10	-	54	10	35	1	37	48	-	14	35	6.1	6.1	7.5	1.5	7.5	18	12	-	-	34	10	178	
GN 724.3-13-20-L2-NI-2	13	20	6.5	10	1.5	54	10	35	1	37	48	26.5	14	35	6.1	6.1	7.5	1.5	7.5	18	12	19	2.5	1.5	34	10	230
GN 724.3-20-30-L2-NI-1	20	30	10	15	-	84	15	54	1.5	55	80	-	22	70	10.1	10.1	14	5	14	34	10	-	-	55	17	717	
GN 724.3-20-30-L2-NI-2	20	30	10	15	2	84	15	54	1.5	55	80	40	22	70	10.1	10.1	14	5	14	34	10	27.5	3	2	55	17	954

GN 724.3-NI-L3

STAINLESS STEEL

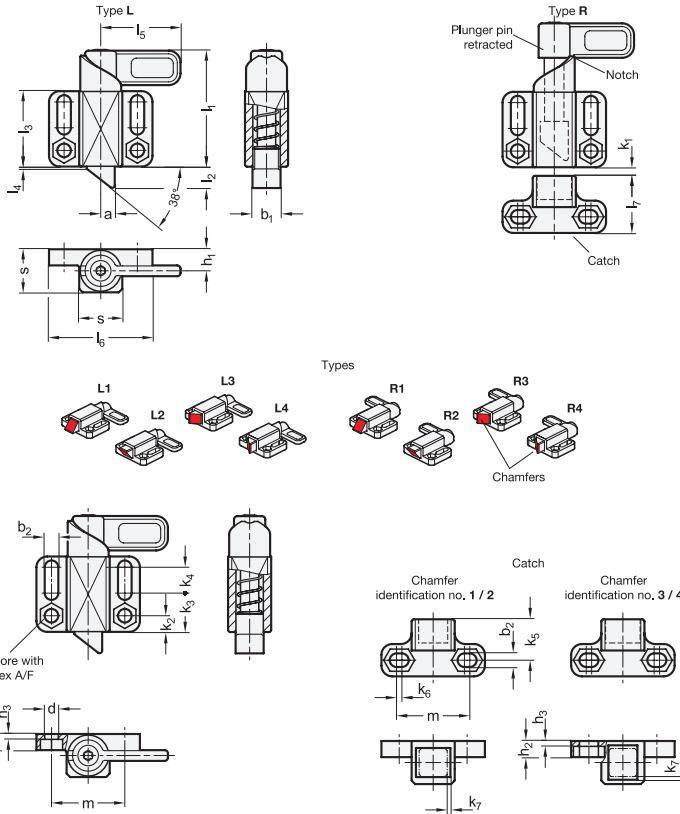
Description	b <sub>1</sub>	s	a	h <sub>1</sub>	k <sub>1</sub> min.	l <sub>1</sub> ≈	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	l <sub>6</sub>	l <sub>7</sub>	Spring load	Spring load	b <sub>2</sub>	d	h <sub>2</sub>	h <sub>3</sub>	k <sub>2</sub>	k <sub>3</sub>	k <sub>4</sub>	k <sub>5</sub>	k <sub>6</sub>	k <sub>7</sub>	m	A/F	⚖
													in N ≈ Initial	in N ≈ End													
GN 724.3-13-20-L3-NI-1	13	20	6.5	10	-	54	10	35	1	37	48	-	14	35	6.1	6.1	7.5	1.5	7.5	18	12	-	-	34	10	178	
GN 724.3-13-20-L3-NI-2	13	20	6.5	10	1.5	54	10	35	1	37	48	26.5	14	35	6.1	6.1	7.5	1.5	7.5	18	12	19	2.5	1.5	34	10	230
GN 724.3-20-30-L3-NI-1	20	30	10	15	-	84	15	54	1.5	55	80	-	22	70	10.1	10.1	14	5	14	34	10	-	-	55	17	717	
GN 724.3-20-30-L3-NI-2	20	30	10	15	2	84	15	54	1.5	55	80	40	22	70	10.1	10.1	14	5	14	34	10	27.5	3	2	55	17	954

GN 724.3-NI-L4

STAINLESS STEEL

Description	b <sub>1</sub>	s	a	h <sub>1</sub>	k <sub>1</sub> min.	l <sub>1</sub> ≈	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	l <sub>6</sub>	l <sub>7</sub>	Spring load	Spring load	b <sub>2</sub>	d	h <sub>2</sub>	h <sub>3</sub>	k <sub>2</sub>	k <sub>3</sub>	k <sub>4</sub>	k <sub>5</sub>	k <sub>6</sub>	k <sub>7</sub>	m	A/F	⚖
													in N ≈ Initial	in N ≈ End													
GN 724.3-13-20-L4-NI-1	13	20	6.5	10	-	54	10	35	1	37	48	-	14	35	6.1	6.1	7.5	1.5	7.5	18	12	-	-	34	10	178	
GN 724.3-13-20-L4-NI-2	13	20	6.5	10	1.5	54	10	35	1	37	48	26.5	14	35	6.1	6.1	7.5	1.5	7.5	18	12	19	2.5	1.5	34	10	230
GN 724.3-20-30-L4-NI-1	20	30	10	15	-	84	15	54	1.5	55	80	-	22	70	10.1	10.1	14	5	14	34	10	-	-	55	17	717	
GN 724.3-20-30-L4-NI-2	20	30	10	15	2	84	15	54	1.5	55	80	40	22	70	10.1	10.1	14	5	14	34	10	27.5	3	2	55	17	954





## GN 724.3-NI-R1

STAINLESS STEEL

Description	b1	s	a	h1	k1 min.	l1 ≈	l2	l3	l4	l5	l6	l7	Spring load	Spring load	b2	d	h2	h3	k2	k3	k4	k5	k6	k7	m	A/F	⚖
													in N ≈ Initial	in N ≈ End													
GN 724.3-13-20-R1-NI-1	13	20	6.5	10	-	54	10	35	1	37	48	-	14	35	6.1	6.1	7.5	1.5	7.5	18	12	-	-	-	34	10	178
GN 724.3-13-20-R1-NI-2	13	20	6.5	10	1.5	54	10	35	1	37	48	26.5	14	35	6.1	6.1	7.5	1.5	7.5	18	12	19	2.5	1.5	34	10	230
GN 724.3-20-30-R1-NI-1	20	30	10	15	-	84	15	54	1.5	55	80	-	22	70	10.1	10.1	14	5	14	34	10	-	-	55	17	492	
GN 724.3-20-30-R1-NI-2	20	30	10	15	2	84	15	54	1.5	55	80	40	22	70	10.1	10.1	14	5	14	34	10	27.5	3	2	55	17	954

## GN 724.3-NI-R2

STAINLESS STEEL

Description	b1	s	a	h1	k1 min.	l1 ≈	l2	l3	l4	l5	l6	l7	Spring load	Spring load	b2	d	h2	h3	k2	k3	k4	k5	k6	k7	m	A/F	⚖
													in N ≈ Initial	in N ≈ End													
GN 724.3-13-20-R2-NI-1	13	20	6.5	10	-	54	10	35	1	37	48	-	14	35	6.1	6.1	7.5	1.5	7.5	18	12	-	-	-	34	10	178
GN 724.3-13-20-R2-NI-2	13	20	6.5	10	1.5	54	10	35	1	37	48	26.5	14	35	6.1	6.1	7.5	1.5	7.5	18	12	19	2.5	1.5	34	10	230
GN 724.3-20-30-R2-NI-1	20	30	10	15	-	84	15	54	1.5	55	80	-	22	70	10.1	10.1	14	5	14	34	10	-	-	55	17	492	
GN 724.3-20-30-R2-NI-2	20	30	10	15	2	84	15	54	1.5	55	80	40	22	70	10.1	10.1	14	5	14	34	10	27.5	3	2	55	17	954

## GN 724.3-NI-R3

STAINLESS STEEL

Description	b1	s	a	h1	k1 min.	l1 ≈	l2	l3	l4	l5	l6	l7	Spring load	Spring load	b2	d	h2	h3	k2	k3	k4	k5	k6	k7	m	A/F	⚖
													in N ≈ Initial	in N ≈ End													
GN 724.3-13-20-R3-NI-1	13	20	6.5	10	-	54	10	35	1	37	48	-	14	35	6.1	6.1	7.5	1.5	7.5	18	12	-	-	-	34	10	178
GN 724.3-13-20-R3-NI-2	13	20	6.5	10	1.5	54	10	35	1	37	48	26.5	14	35	6.1	6.1	7.5	1.5	7.5	18	12	19	2.5	1.5	34	10	230
GN 724.3-20-30-R3-NI-1	20	30	10	15	-	84	15	54	1.5	55	80	-	22	70	10.1	10.1	14	5	14	34	10	-	-	55	17	492	
GN 724.3-20-30-R3-NI-2	20	30	10	15	2	84	15	54	1.5	55	80	40	22	70	10.1	10.1	14	5	14	34	10	27.5	3	2	55	17	954

## GN 724.3-NI-R4

STAINLESS STEEL

Description	b1	s	a	h1	k1 min.	l1 ≈	l2	l3	l4	l5	l6	l7	Spring load	Spring load	b2	d	h2	h3	k2	k3	k4	k5	k6	k7	m	A/F	⚖
													in N ≈ Initial	in N ≈ End													
GN 724.3-13-20-R4-NI-1	13	20	6.5	10	-	54	10	35	1	37	48	-	14	35	6.1	6.1	7.5	1.5	7.5	18	12	-	-	-	34	10	178
GN 724.3-13-20-R4-NI-2	13	20	6.5	10	1.5	54	10	35	1	37	48	26.5	14	35	6.1	6.1	7.5	1.5	7.5	18	12	19	2.5	1.5	34	10	230
GN 724.3-20-30-R4-NI-1	20	30	10	15	-	84	15	54	1.5	55	80	-	22	70	10.1	10.1	14	5	14	34	10	-	-	55	17	492	
GN 724.3-20-30-R4-NI-2	20	30	10	15	2	84	15	54	1.5	55	80	40	22	70	10.1	10.1	14	5	14	34	10	27.5	3	2	55	17	954



Indexing elements