

- 3 Type**
  - A With threaded stud
  - I With internal thread
- 4 Coding**
  - F Fixed bearing
  - L Floating bearing

Nominal size	d <sub>2</sub>	d <sub>1</sub>	d <sub>3</sub> Bore ±0,03	Studs GN 1050.1 ±0,03	d <sub>4</sub> H7	l <sub>1</sub>	l <sub>2</sub>	m	t <sub>1</sub> Min.	t <sub>2</sub>	x +0,05 Radial offset Coding L	z ±0,1 Axial offset Coding L
2N	M 10	53	18,5	18,25	6	70,1	15	40	18	10	0,75	0,4
2N	M 12	53	18,5	18,25	6	70,1	20	40	18	10	0,75	0,4

**Specification**

- Housing
  - Aluminum
  - Black anodized
- Closure mechanism
  - Steel, tempered
  - Zinc plated, blue passivated
- Fastening bushing (type I)
  - Stainless steel AISI 431
  - Tempered
- Mounting screw (type A)
  - Socket cap screw DIN 7984
  - Property class 8.8
- Other screws
  - Steel, zinc plated, blue passivated
- Other parts
  - Stainless steel
- Operating temperature -30 °C to 120 °C
- Stainless Steel Characteristics → Page QVX
- RoHS

**Accessory**

- Studs GN 1050.1 → Page QVX
- Flanges GN 1050.2 → Page QVX

**On request**

- Other colors (anodized) or platin

**Information**

Quick release couplings GN 1050 position and connect components without tools using studs GN 1050.1 for a tight and repeatable fit. For repeated machine set ups or assemblies that require the inconvenient use of a screwdriver, quick release couplings can be used on fixtures or production lines to efficiently mount guide rails, covers or additional devices.

A safety locking button protects against accidental opening of the coupling. When pressing the button, the sleeve can be moved axially to unlock a stud inserted into the notch on the inside. At the same time, a red ring becomes visible on the outside to indicate the unlocked state.

The couplings do not transmit any torque. If multiple couplings are used on the same unit, coding L can be used to compensate for a radial and axial offset. The bores d<sub>4</sub> can hold cylinder or cam point pins to position the coupling, if needed. For coding L, the pin holes on the application must be proportionally larger to allow for radial adjustments.

Flanges GN 1050.2 are available as an accessory for the assembly of couplings and studs, and provide additional attachment options.

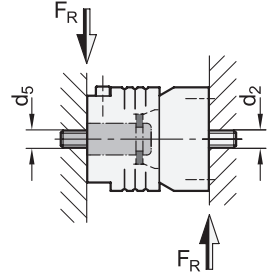
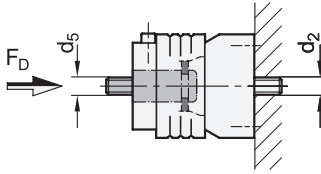
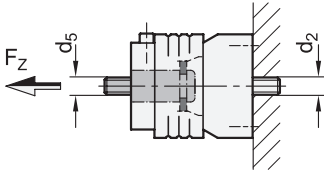
**How to order**

1	Nominal size
2	d <sub>2</sub>
3	Type
4	Coding
5	Finish

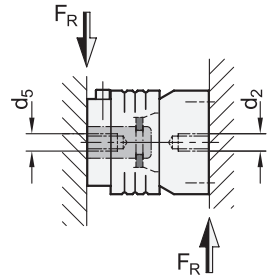
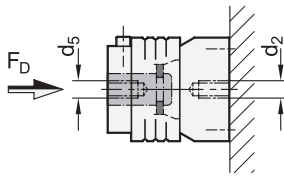
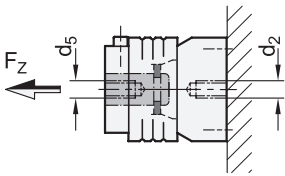
GN 1050-2N-M10-I-L-ASS

**Mounting and load information**

GN 1050 (Type A) with GN 1050.1 (Type A)



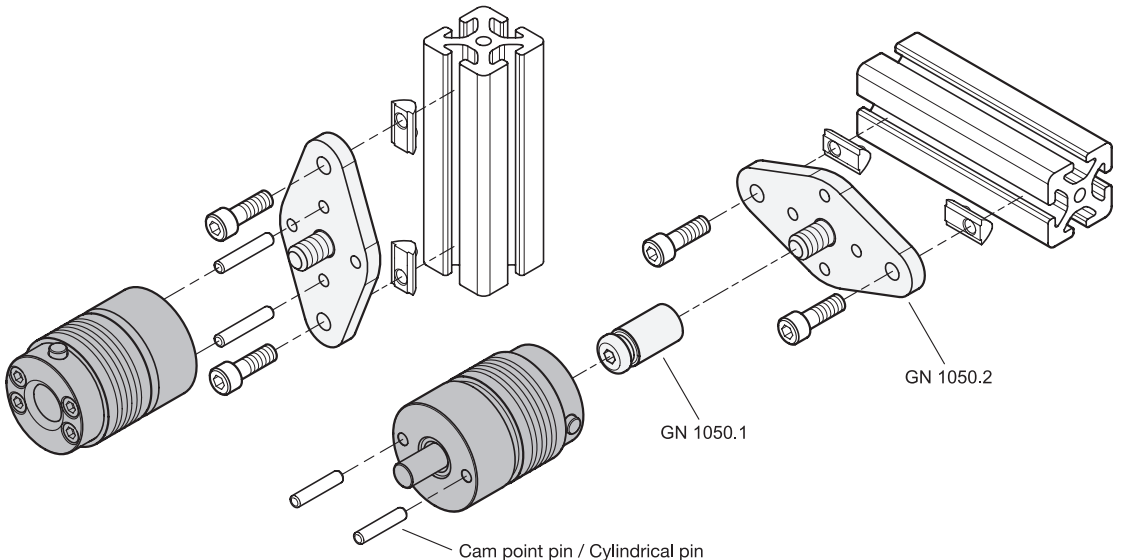
GN 1050 (Type I) with GN 1050.1 (Type I)



Nominal size	d <sub>2</sub> Mounting thread Quick release couplings	d <sub>5</sub> Mounting thread Studs GN 1050.1	F <sub>Z</sub> Max. tensile load in kN	F <sub>D</sub> Max. compressive load in kN	F <sub>R</sub> Max. shear load in kN
2N	M 10	M 10	25	25	19
2N	M 10	M 12	25	25	19
2N	M 12	M 10	25	25	19
2N	M 12	M 12	35	35	28

**Safety instructions:** The load capacities can only be achieved if the surrounding structure is capable of supporting these loads. Any threaded holes on the application or inserted nuts and screws require at least property class 8. Depending on the application, additional safety factors should be added.

**Application example for profile systems**



3.1  
3.2  
3.3  
3.4  
3.5  
3.6  
3.7  
3.8  
3.9

