

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

**Metric table**

Nominal size	d <sub>2</sub> Thread	d <sub>1</sub>	d <sub>3</sub> Bore ±0.03	Inserts 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	Axial offset Coding L
2N	M 10	53 2.09	18.5 0.728	18.25 0.719	6 0.236	70.1 2.76	15 0.59	40 1.57	18 0.71	10 0.39	0.75 0.030	0.4 0.016
2N	M 12	53 2.09	18.5 0.728	18.25 0.719	6 0.236	70.1 2.76	20 0.79	40 1.57	18 0.71	10 0.39	0.75 0.030	0.4 0.016

**Specification**

- Housing  
Aluminum  
Black anodized finish **ASS**
- Closure mechanism  
Steel, tempered  
Zinc plated, blue passivated finish
- Tapped insert (Type I)  
Stainless steel AISI 431  
Tempered
- Threaded stud insert (Type A)  
Socket cap screw DIN 7984  
Property class 8.8
- Other screws  
Steel, zinc plated, blue passivated finish
- Other parts  
Stainless steel
- Operating temperature -22 °F to 248 °F  
(-30 °C to 120 °C)
- Strength Values of Screws → page QVX
- Stainless Steel Characteristics → page QVX
- RoHS compliant

**Accessory**

- Inserts GN 1050.1
- Flanges GN 1050.2

**On request**

- Other colors (anodized finish) or plain finish

**Information**

GN 1050 quick release couplings, 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.

see also...

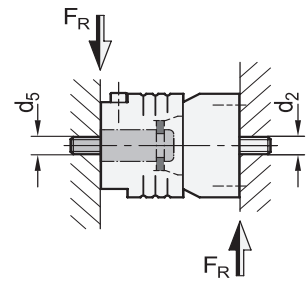
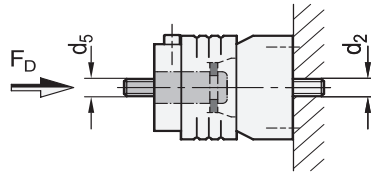
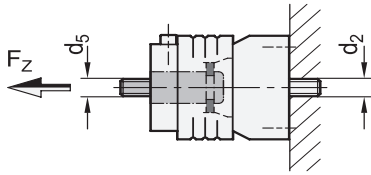
- Inserts GN 1050.1 → page QVX
- Flanges GN 1050.2 → page QVX

How to order	
1	Nominal size
2	Thread d <sub>2</sub>
3	Type
4	Coding
5	Finish

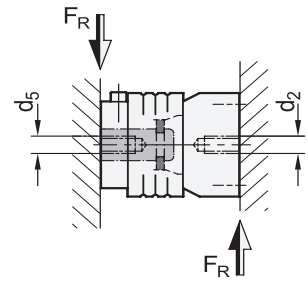
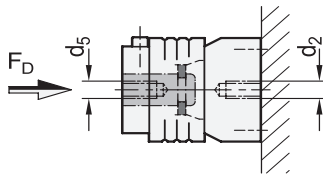
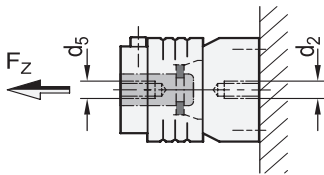
**GN 1050-2N-M10- I -L-ASS**

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 inserts GN 1050.1	F <sub>Z</sub> Max. tensile load	F <sub>D</sub> Max. compressive load	F <sub>R</sub> Max. shear load
2N	M 10	M 10	25 kN 5620 lbf	25 kN 5620 lbf	19 kN 4271 lbf
2N	M 10	M 12	25 kN 5620 lbf	25 kN 5620 lbf	19 kN 4271 lbf
2N	M 12	M 10	25 kN 5620 lbf	25 kN 5620 lbf	19 kN 4271 lbf
2N	M 12	M 12	35 kN 7868 lbf	35 kN 7868 lbf	28 kN 6295 lbf

**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

