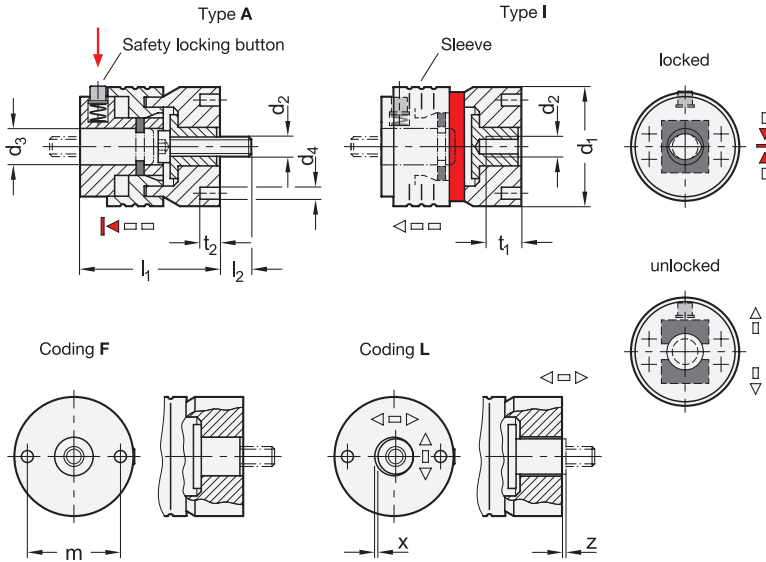


3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
3.10



Metric



3 Type

- A** With threaded stud insert
- I** With tapped insert

4 Coding

- F** Fixed bearing
- L** Floating bearing

Metric table

Nominal size	d ₂	d ₁	d ₃		d ₄ H7	l ₁	l ₂	m	t ₁ min.	t ₂	Radial offset Coding L		Axial offset Coding L	
			Bore ±0.03	Inserts GN 1050.1 ±0.03							x +0.05	z ±0.1		
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		

Dimensions in: millimeters / inches

Specification

Housing

Aluminum
Anodized finish, black

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
Steel
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)

RoHS

On request

Other colors (anodized finish) or plain finish

Accessory

GN 1050.1 Inserts QVX
GN 1050.2 Flanges QVX

Quick release couplings GN 1050, position and connect components without tools using inserts 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 d₄ 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.

Technical Information

	Page
Strength Values of Screws	QVX
Stainless Steel Characteristics	QVX
Application Examples	QVX

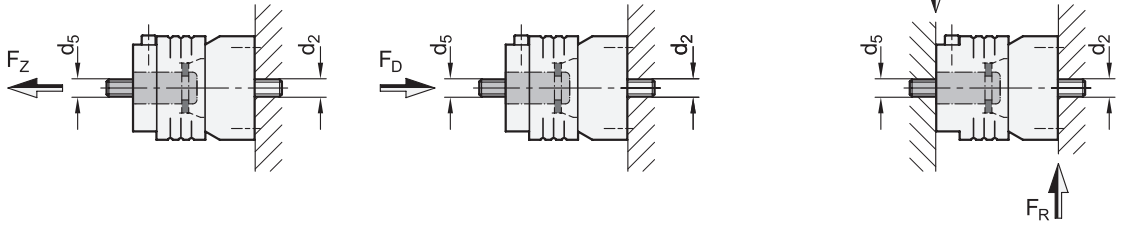
How to order

1	Nominal size
2	Thread d ₂
3	Type
4	Coding
5	Finish

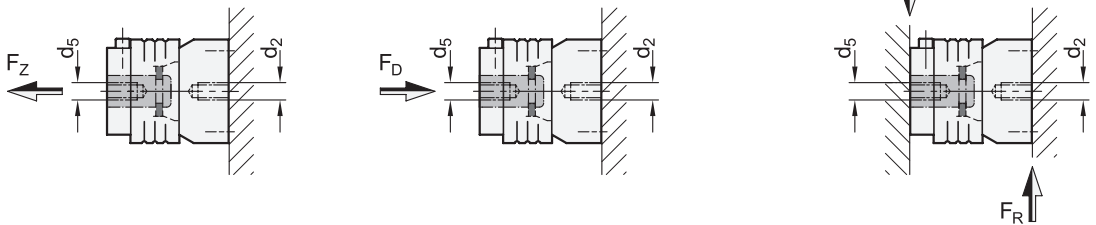
GN 1050-2N-M10- I -L-ASS

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 ₂ Mounting thread Quick release couplings	d ₅ Mounting thread Inserts GN 1050.1	F _Z Max. tensile load	F _D Max. compressive load	F _R 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

