

Nominal size	d ₂	d ₁	d ₃ Bore ±0,03	Studs GN 1050.1 ±0,03	d ₄ H7	l ₁	l ₂	m	t ₁ min.	t ₂	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	5
Housing Aluminum Anodized, black	ASS
Closure mechanism Steel • Tempered • Zinc plated, blue passivated	
Fastening bushing for type I Stainless steel AISI 431 Tempered	
Mounting screw for type A Socket cap screw DIN 7984 Steel Property class 8.8	
Other screws Steel, zinc plated, blue passivated	
Other parts Stainless steel	
Operating temperature -30 °C to 120 °C	
RoHS	
On request • Other colors (anodized) or plain finish	
Accessory	
GN 1050.1 Studs	QVX
GN 1050.2 Flanges	QVX

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 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.

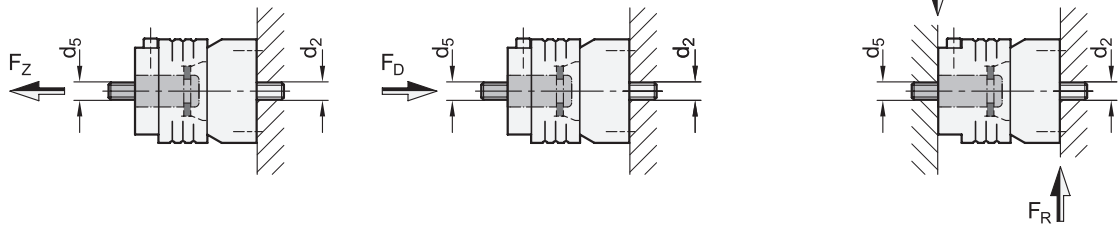
Flanges GN 1050.2 are available as an accessory for the assembly of couplings and studs, and provide additional attachment options.

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

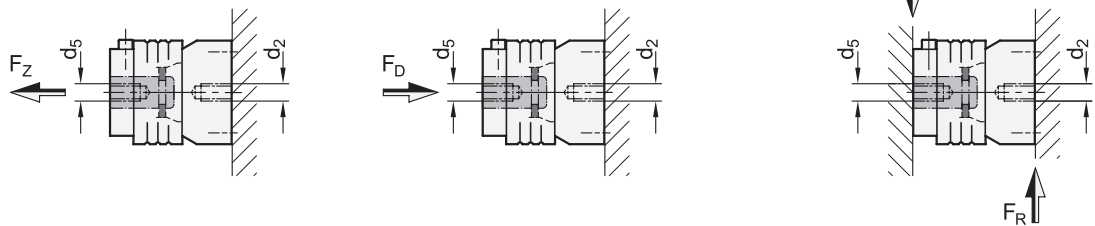
How to order	1 Nominal size
	2 d ₂
	3 Type
	4 Coding
	5 Finish
GN 1050-2N-M10-I-L-ASS	

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 Studs GN 1050.1	F _Z Max. tensile load in kN	F _D Max. compressive load in kN	F _R 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

