

Axial Ball Joints

Steel / Stainless Steel, with Threaded Stud

SPECIFICATION

Type

- Type **C**: With threaded stud

Ball socket / Ball shank

• Steel **ST**

- Property class 4.6
- Zinc plated, colorless passivated
- Ball shank hardened

• Stainless steel **AISI 304 NI**

- Plain finish
- Ball seat greased

Hex nut **DIN 934**

- Steel, zinc plated, colorless passivated for ST
- Stainless steel for NI



INFORMATION

Axial ball joints GN 71802.1 are used in linear drives and lifting systems, for example, to transmit compressive forces in the axial direction, thereby compensating for angular offsets. They consist of a ball shank DIN 71803 and an axial ball socket.

A snap ring holds the axial ball joint together under tension up to the specified minimum pull-off force. This force must be overcome for assembly and disassembly.

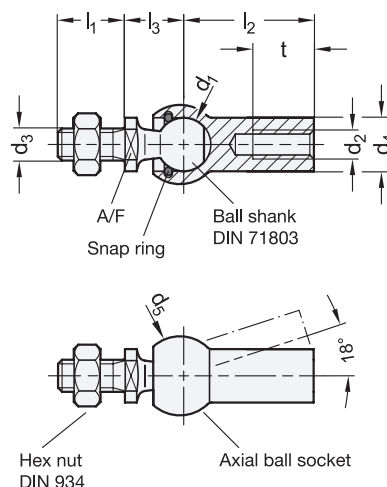
To protect the axial ball joints from dirt and to keep lubricating grease in the joint, dust caps GN 710 (see page 1158) as an accessory. The hex nut is included in the scope of delivery.

ACCESSORY

- GN 710 Dust Caps (see page 1158)

TECHNICAL INFORMATION

- ISO-Fundamental Tolerances (see page A21)
- Stainless Steel Characteristics (see page A26)



GN 71802.1-ST

Description	d ₁ H9/h9	d ₂	d ₃	d ₄	d ₅	l ₁ ±0.3	l ₂ ±0.3	l ₃ ±0.3	t min.	A/F	Min. pull-off force in N	
GN 71802.1-8-M5-C-ST	8	M 5	M 5	8	12.8	10.2	22	9	10	7	30	16
GN 71802.1-10-M6-C-ST	10	M 6	M 6	10	14.8	12.5	25	11	11	8	40	26
GN 71802.1-13-M8-C-ST	13	M 8	M 8	13	19.3	16.5	30	13	14	11	60	53
GN 71802.1-16-M10-C-ST	16	M 10	M 10	16	24	20	35	16	15	13	80	104
GN 71802.1-19-M14F-C-ST	19	M 14F = M 14 x 1.5	M 14F = M 14 x 1.5	22	30	28	45	20	21	16	100	221

GN 71802.1-NI

STAINLESS STEEL

Description	d ₁ H9/h9	d ₂	d ₃	d ₄	d ₅	l ₁ ±0.3	l ₂ ±0.3	l ₃ ±0.3	t min.	A/F	Min. pull-off force in N	
GN 71802.1-8-M5-C-NI	8	M 5	M 5	8	12.8	10.2	22	9	10	7	30	16
GN 71802.1-10-M6-C-NI	10	M 6	M 6	10	14.8	12.5	25	11	11	8	40	26
GN 71802.1-13-M8-C-NI	13	M 8	M 8	13	19.3	16.5	30	13	14	11	60	53
GN 71802.1-16-M10-C-NI	16	M 10	M 10	16	24	20	35	16	15	13	80	104
GN 71802.1-19-M14F-C-NI	19	M 14F = M 14 x 1.5	M 14F = M 14 x 1.5	22	30	28	45	20	21	16	100	221