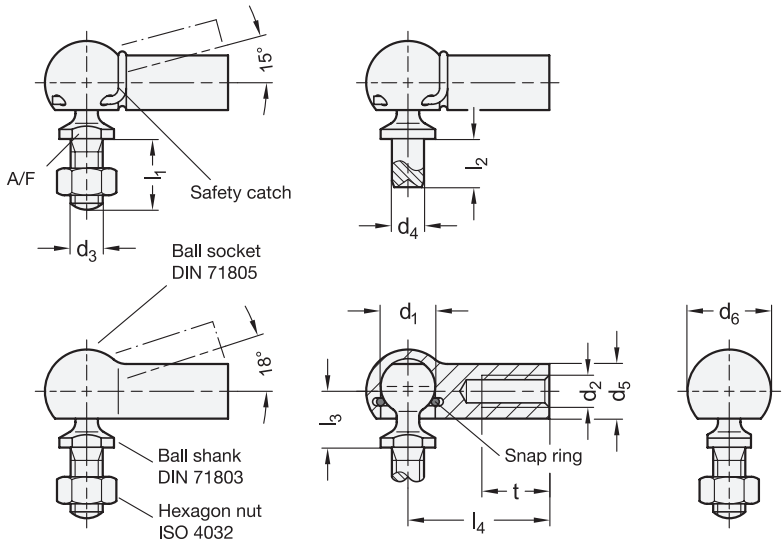
Angled Ball Joints

Steel, Zinc Plated with Rivet Ball Shank



4 Form

CS With threaded ball shank without safety catch
C With threaded ball shank with safety catch
BS With rivet ball shank, without safety catch
B With rivet ball shank, with safety catch

1 d_1 H9/h9	2 d_2	d_2 Left hand thread	3 l_2		d_3	d_4 h11	d_5	d_6	l_1	l_3	l_4	t min.	A/F	Min. pull-off force in N
8	M 5	M 5L	4	7,5	M 5	5	8	12,8	10	8,5	22	10,5	7	30
10	M 6	M 6L	4,5	8	M 6	6	10	14,8	12,5	10,5	25	11,5	8	40
13	M 8	M 8L	5	10	M 8	8	13	19,3	16,5	12	30	14	11	60
16	M 10	M 10L	6	13	M 10	10	16	24	20	15	35	15,5	13	80
16	M 12	M 12L	6	13	M 12	10	16	24	20	15	35	15,5	13	80
19	M 14F (≙M 14 x 1,5)	M 14FL (≙M 14 x 1,5L)	12	18	M 14F (≙M 14 x 1,5)	14	22	30	28	19,5	45	21,5	16	100

Specification

Steel

- Property class 5
- Zinc plated, colorless passivated
- Ball
  Steel Hardened
- Ball seat lubricated

RoHS

On request

- Smooth specification
  (Ball seat with play)
- Ball studs DIN 71803
- Ball sockets DIN 71805

Technical Information

ISO Fundamental Tolerances	QVX
Strength Values of Screws	QVX

Accessory

GN 710 Dust Caps	QVX

Angled ball joints DIN 71802 consist of a ball socket DIN 71805 and a ball shank DIN 71803.
The angle of rotation for the type with safety catch (Type CS, BS) is 15°, without safety catch (Type C, B) is 18°.
For assembly the ball ist pushed through the circlip which acts as a retainer. Should the retaining force (see pull-off force in the table above) between ball and socket not be sufficient, this can be increased by adding a safety catch, which can easily be fitted.
To protect the angled ball point, a dust cap GN 710 can be added.
The hexagon nut is part of the angled ball joints with threaded stud.

see also...	Page
DIN 71802 Stainless Steel Angled Ball Joints (Stainless Steel, with Threaded Stud)	QVX
GN 71802.1 Axial Ball Joints	QVX

How to order (With threaded ball shank)

1 2 4

DIN 71802-19-M14FL-CS

1	d_1
2	d_2
4	Type

How to order (With rivet ball shank)

1 2 3 4

DIN 71802-13-M8-10-B

1	d_1
2	d_2
3	l_2
4	Type