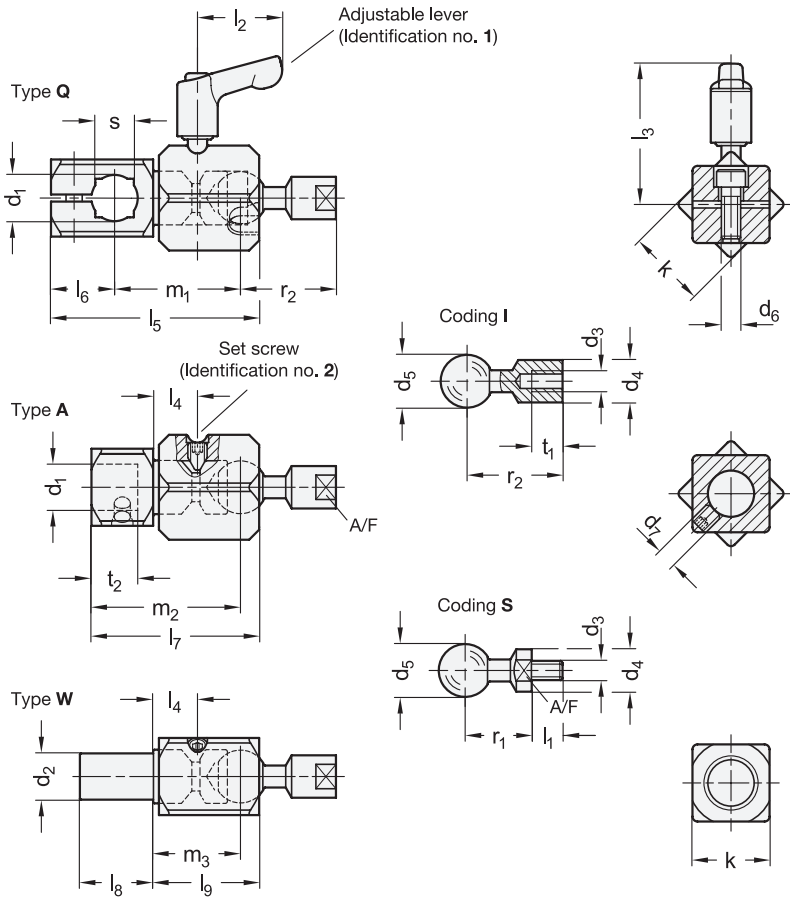




- 2 Type
- Q With cross bore
A With axial bore
W With bolt
- 4 Coding
- I Ball element with internal thread
S Ball element with external thread
- 5 Identification no.
- 1 Clamping with adjustable lever
2 Clamping with set screw

Specification	6
• Body / clamping element Aluminum	
- Anodized finish, natural color	● EL
- Anodized finish, black	● ES
• Ball element Aluminum, plain finish	
• Adjustable lever (Identification no. 1)	
- Zinc die-cast	
Powder coated	
Silver RAL 9006, textured finish	
- Threaded stud / retaining screw	
Stainless steel AISI 303	
• Set screw (Identification no. 2)	
Stainless steel AISI 304	
• Socket cap screw DIN 912 (Type Q)	
Stainless steel AISI 304	
• Set screw DIN 913 (Type A)	
Stainless steel AISI 304	
• <i>Stainless Steel Characteristics</i> → page QVX	
• RoHS	

On request
• Ball elements with other thread sizes and inch thread (as for swivel ball joints GN 784)

Information
Swivel ball joint mounting clamps GN 487 allow precise and stepless adjustment of the ball pivot within the swivel range. This makes it easy to position and adjust components such as scanners, cameras and lighting.
Thanks to the efficient clamping mechanism, even small amounts of tightening torque result in comparatively strong clamping forces on the ball. To readjust the joint, the clamping must be completely released. The adjustable lever (identification no. 1) can be used to easily operate the clamping mechanism without tools.
For a permanent high stop torque, the contact surfaces of the balls must be kept free of grease. Exceeding the recommended tightening torques increases the stop torque but may result in increased wear of the clamping mechanism.
see also...
• <i>Swivel Ball Joint GN 784</i> → page QVX
• <i>Twistable Two-Way Mounting Clamps GN 475</i> → page QVX
• <i>T-Mounting Clamps GN 476</i> → page QVX

How to order (Type Q / Type A)	
1 Bore d ₁	
2 Type	
3 Thread d ₃	
4 Coding	
5 Identification no.	
6 Finish	
1 2 3 4 5 6 GN 487-B20-Q-M8-I-1-ES	
How to order (Type W)	
1 Shaft d ₂	
2 Type	
3 Thread d ₃	
4 Coding	
5 Identification no.	
6 Finish	
1 2 3 4 5 6 GN 487-12-W-M5-S-2-EL	

Metric table

Dimensions in: millimeters - inches																	
1 1 3 d₁ Type A Type Q	d₂ Type W	d₃ Thread	d₄	d₅	d₆ Thread	d₇ Thread	k	l₁	l₂	l₃	l₄	l₅	l₆	l₇	l₈	l₉	
B 10	10 0.39	M 5	11 0.43	14 0.55	M 5	M 5	20 0.79	8 0.31	22 0.87	37 1.46	11.5 0.45	53 2.09	15.5 0.61	42.5 1.67	17 0.67	27.5 1.08	
B 12	12 0.47	M 5	11 0.43	14 0.55	M 5	M 5	20 0.79	8 0.31	22 0.87	37 1.46	11.5 0.45	54 2.13	16.5 0.65	43.5 1.71	19 0.75	27.5 1.08	
B 15	15 0.59	M 6	14 0.55	18 0.71	M 6	M 6	25 0.98	10 0.39	22 0.87	41 1.61	14.5 0.57	67.6 2.66	20 0.79	55.1 2.17	21 0.83	35.1 1.38	
B 16	16 0.63	M 6	14 0.55	18 0.71	M 6	M 6	25 0.98	10 0.39	22 0.87	41 1.61	14.5 0.57	67.6 2.66	20 0.79	55.6 2.19	24 0.94	35.1 1.38	
B 20	20 0.79	M 8	15 0.59	24 0.94	M 6	M 6	30 1.18	12 0.47	30 1.18	50 1.97	18.6 0.73	81 3.19	22 0.87	67 2.64	26 1.02	44 1.73	

d₁ Type A Type Q	d₂ Type W	m₁	m₂	m₃	r₁	r₂	s	A/F	t₁ min.	t₂	Recommended tightening torque of the clamping (identification no.) in Nm ≈	Resulting stop torque on the ball in Nm ≈
B 10	10 0.39	32.7 1.29	37.7 1.48	22.7 0.89	17.3 0.68	24.8 0.98	8 0.31	9 0.35	8 0.31	10 0.39	1.5	4.5
B 12	12 0.47	32.7 1.29	38.7 1.52	22.7 0.89	17.3 0.68	24.8 0.98	10 0.39	9 0.35	8 0.31	12 0.47	1.5	4.5
B 15	15 0.59	41.8 1.65	49.3 1.94	29.3 1.15	21.5 0.85	32.5 1.28	12 0.47	12 0.47	10 0.39	15 0.59	2.5	6.5
B 16	16 0.63	41.8 1.65	49.8 1.96	29.3 1.15	21.5 0.85	32.5 1.28	-	12 0.47	10 0.39	16 0.63	2.5	6.5
B 20	20 0.79	51.3 2.02	59.3 2.33	36.3 1.43	30.8 1.21	36.5 1.44	16 0.63	13 0.51	12 0.47	16 0.63	2.5	10

