

**VERSIONS**

- Type **A**: ball with internal thread
- Type **B**: ball with external thread

IDENTIFICATION NO.

- **1**: clamping with adjustable hand lever
- **2**: clamping with set screw

Housing

Aluminum

Anodized, black **ELS****Base plate, ball**

Aluminum, plain finish

Adjustable hand lever (identification no. 1)

- Die-cast zinc alloy

Epoxy resin coating

Silver, RAL 9006, textured finish

- Threaded stud and retaining screw

AISI 303 stainless steel

Set screw (Identification no. 2)

Stainless Steel AISI 304

INFORMATION

Swivel ball joints GN 784 allow precise and stepless adjustment of the ball pivot within the swivelling range. This is a particular advantage when adjusting scanners, cameras, lighting, monitors, etc.

Thanks to the efficient clamping mechanism, only small amounts of torque on the clamping screw result in comparatively strong clamping pressure on the ball. This force is easily applied by the clamping lever (Identification no. 1).

The ball joint can be mounted from below with the d5 internal thread or together with the GN 784.1 (see page -) flange, available as an accessory, using three through-holes from above.

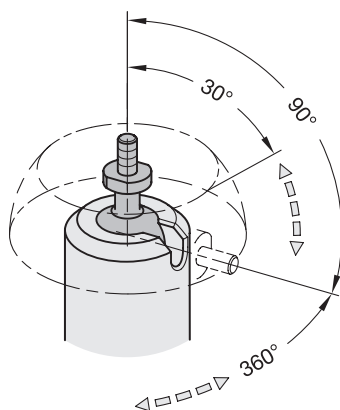
For a permanent high stop torque, the contact surfaces of the balls must be kept free of grease. Exceeding the recommended tightening torque increases the securing of the ball joint in its end position, but may result in increased wear and potential failure of the clamping mechanism.

ACCESSORY

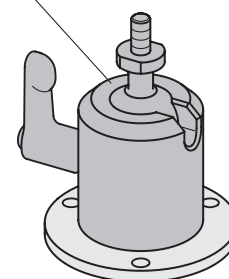
- Flanges GN 784.1 (see page -).

ON REQUEST

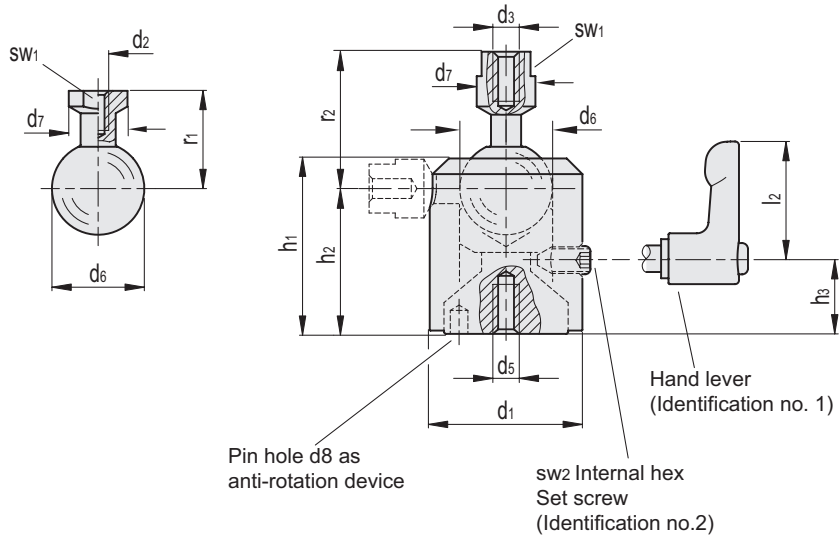
- Clamping with star knob DIN 6335 (see page -).



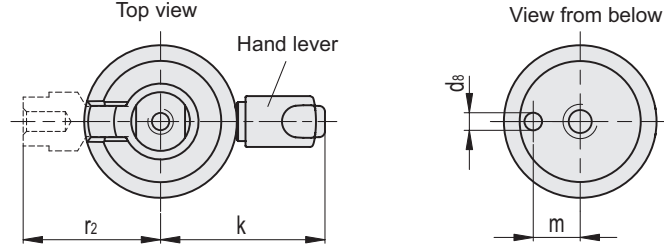
GN 784



GN 784.1



Conversion Table	
1 mm = 0.039 inch	
d1	
mm	inch
23	0.90
31	1.21
39	1.52
49	1.91



GN 784-A-1

METRIC

Code	Description	d1	d2*	d3*	d5*	d6	d7	d8	h1	h2	h3	m	k	l2	r1	r2	sw1	C# [Nm]	C## [Nm]	
GN.79275	GN 784-23-M4-A-1-ELS	23	M 4	-	M 5	14	11	2.5	26.6	21.7	10.6	7	32	22	17.3	-	9	1.5	4.5	44
GN.79277	GN 784-23-M5-A-1-ELS	23	-	M 5	M 5	14	11	2.5	26.6	21.7	10.6	7	32	22	-	24.8	9	1.5	4.5	44
GN.79295	GN 784-31-M5-A-1-ELS	31	M 5	-	M 6	18	14	3.5	35.5	29.6	14.9	9	36	22	21.5	-	12	2.5	6.5	87
GN.79297	GN 784-31-M6-A-1-ELS	31	-	M 6	M 6	18	14	3.5	35.5	29.6	14.9	9	36	22	-	32.5	12	2.5	6.5	88
GN.79315	GN 784-39-M5-A-1-ELS	39	M 5	-	M 8	24	15	4.5	45	37.2	18.9	12	44	30	25.5	-	13	4	16	159
GN.79317	GN 784-39-M6-A-1-ELS	39	-	M 6	M 8	24	15	4.5	45	37.2	18.9	12	44	30	-	36.2	13	4	16	164
GN.79321	GN 784-39-M8-A-1-ELS	39	-	M 8	M 8	24	15	4.5	45	37.2	18.9	12	44	30	-	40.5	13	4	16	165
GN.79339	GN 784-49-M8-A-1-ELS	49	M 8	-	M 8	28	19.5	4.5	56	46.1	24	16	49	30	30.8	-	17	4	20	286
GN.79335	GN 784-49-M10-A-1-ELS	49	-	M 10	M 8	28	19.5	4.5	56	46.1	24	16	49	30	-	51.8	17	4	20	301
GN.79271	GN 784-23-1/4-A-1-ELS	23	-	1/4	M 5	14	11	2.5	26.6	21.7	10.6	7	32	22	-	24.8	9	1.5	4.5	47
GN.79291	GN 784-31-1/4-A-1-ELS	31	-	1/4	M 6	18	14	3.5	35.5	29.6	14.9	9	36	22	-	32.5	12	2.5	6.5	82
GN.79311	GN 784-39-3/8-A-1-ELS	39	-	3/8	M 8	24	15	4.5	45	37.2	18.9	12	44	30	-	40.5	13	4	16	162
GN.79331	GN 784-49-3/8-A-1-ELS	49	-	3/8	M 8	28	19.5	4.5	56	46.1	24	16	49	30	-	44.8	17	4	20	300

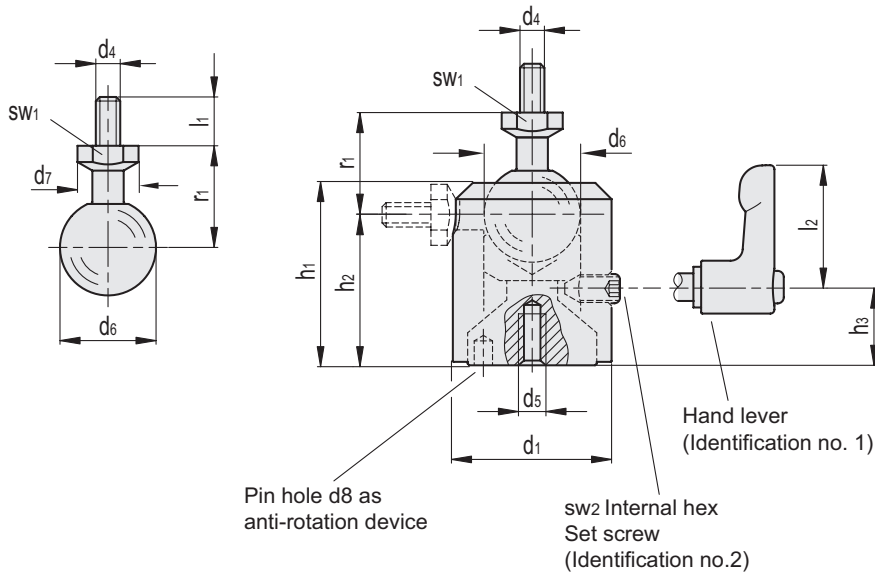
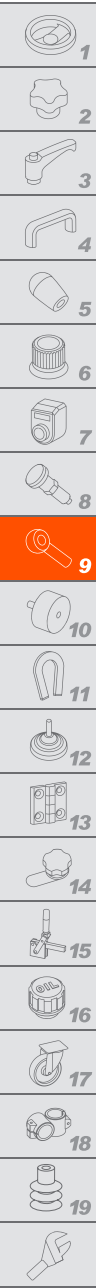
GN 784-A-2

Code	Description	d1	d2*	d3*	d5*	d6	d7	d8	h1	h2	h3	m	r1	r2	sw1	sw2	C# [Nm]	C## [Nm]	
GN.79276	GN 784-23-M4-A-2-ELS	23	M 4	-	M 5	14	11	2.5	26.6	21.7	10.6	7	17.3	-	9	2.5	1.5	4.5	30
GN.79278	GN 784-23-M5-A-2-ELS	23	-	M 5	M 5	14	11	2.5	26.6	21.7	10.6	7	-	24.8	9	2.5	1.5	4.5	35
GN.79296	GN 784-31-M5-A-2-ELS	31	M 5	-	M 6	18	14	3.5	35.5	29.6	14.9	9	21.5	-	12	3	2.5	6.5	70
GN.79298	GN 784-31-M6-A-2-ELS	31	-	M 6	M 6	18	14	3.5	35.5	29.6	14.9	9	-	32.5	12	3	2.5	6.5	70
GN.79316	GN 784-39-M5-A-2-ELS	39	M 5	-	M 8	24	15	4.5	45	37.2	18.9	12	25.5	-	13	4	4	16	136
GN.79318	GN 784-39-M6-A-2-ELS	39	-	M 6	M 8	24	15	4.5	45	37.2	18.9	12	-	36.2	13	4	4	16	139
GN.79322	GN 784-39-M8-A-2-ELS	39	-	M 8	M 8	24	15	4.5	45	37.2	18.9	12	-	40.5	13	4	4	16	130
GN.79340	GN 784-49-M8-A-2-ELS	49	M 8	-	M 8	28	19.5	4.5	56	46.1	24	16	30.8	-	17	4	4	20	261
GN.79336	GN 784-49-M10-A-2-ELS	49	-	M 10	M 8	28	19.5	4.5	56	46.1	24	16	-	51.8	17	4	4	20	280
GN.79272	GN 784-23-1/4-A-2-ELS	23	-	1/4	M 5	14	11	2.5	26.6	21.7	10.6	7	-	24.8	9	2.5	1.5	4.5	30
GN.79292	GN 784-31-1/4-A-2-ELS	31	-	1/4	M 6	18	14	3.5	35.5	29.6	14.9	9	-	32.5	12	3	2.5	6.5	73
GN.79312	GN 784-39-3/8-A-2-ELS	39	-	3/8	M 8	24	15	4.5	45	37.2	18.9	12	-	40.5	13	4	4	16	134
GN.79332	GN 784-49-3/8-A-2-ELS	49	-	3/8	M 8	28	19.5	4.5	56	46.1	24	16	-	44.8	17	4	4	20	275

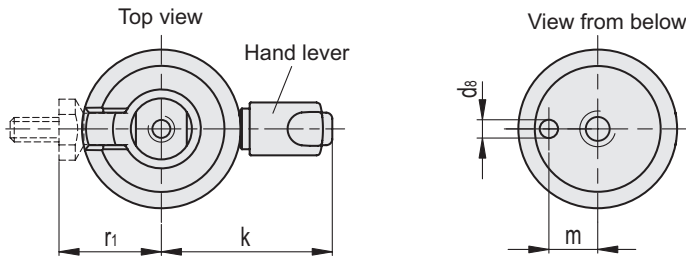
* The usable thread depth for d2, d3, d5 is 1,5x the thread diameter for metric threads and 1,2x the thread diameter for inch-based threads.

Recommended tightening torque of the clamping (identification no.)

Resulting stop torque on the ball



Conversion Table	
1 mm = 0.039 inch	
d1	
mm	inch
23	0.90
31	1.21
39	1.52
49	1.91



METRIC

GN 784-B-1

Code	Description	d1	d4	d5*	d6	d7	d8	h1	h2	h3	m	k	l1	l2	r1	sw1	C# [Nm]	C## [Nm]	△
GN.79279	GN 784-23-M5-B-1-ELS	23	M 5	M 5	14	11	2.5	26.6	21.7	10.6	7	32	8	22	17.3	9	1.5	4.5	70
GN.79281	GN 784-23-M6-B-1-ELS	23	M 6	M 5	14	11	2.5	26.6	21.7	10.6	7	32	10	22	17.3	9	1.5	4.5	43
GN.79299	GN 784-31-M6-B-1-ELS	31	M 6	M 6	18	14	3.5	35.5	29.6	14.9	9	36	10	22	21.5	12	2.5	6.5	83
GN.79301	GN 784-31-M8-B-1-ELS	31	M 8	M 6	18	14	3.5	35.5	29.6	14.9	9	36	12	22	21.5	12	2.5	6.5	84
GN.79319	GN 784-39-M6-B-1-ELS	39	M 6	M 8	24	15	4.5	45	37.2	18.9	12	44	10	30	25.5	13	4	16	160
GN.79323	GN 784-39-M8-B-1-ELS	39	M 8	M 8	24	15	4.5	45	37.2	18.9	12	44	12	30	25.5	13	4	16	159
GN.79341	GN 784-49-M8-B-1-ELS	49	M 8	M 8	28	19.5	4.5	56	46.1	24	16	49	12	30	30.8	17	4	20	289
GN.79337	GN 784-49-M10-B-1-ELS	49	M 10	M 8	28	19.5	4.5	56	46.1	24	16	49	15	30	30.8	17	4	20	294
GN.79273	GN 784-23-1/4-B-1-ELS	23	1/4	M 5	14	11	2.5	26.6	21.7	10.6	7	32	10	22	17.3	9	1.5	4.5	43
GN.79293	GN 784-31-1/4-B-1-ELS	31	1/4	M 6	18	14	3.5	35.5	29.6	14.9	9	36	10	22	21.5	12	2.5	6.5	84
GN.79313	GN 784-39-3/8-B-1-ELS	39	3/8	M 8	24	15	4.5	45	37.2	18.9	12	44	12	30	25.5	13	4	16	165
GN.79333	GN 784-49-3/8-B-1-ELS	49	3/8	M 8	28	19.5	4.5	56	46.1	24	16	49	12	30	30.8	17	4	20	292

GN 784-B-2

Code	Description	d1	d4	d5*	d6	d7	d8	h1	h2	h3	m	l1	r1	sw1	sw2	C# [Nm]	C## [Nm]	△
GN.79280	GN 784-23-M5-B-2-ELS	23	M 5	M 5	14	11	2.5	26.6	21.7	10.6	7	8	17.3	9	2.5	1.5	4.5	33
GN.79282	GN 784-23-M6-B-2-ELS	23	M 6	M 5	14	11	2.5	26.6	21.7	10.6	7	10	17.3	9	2.5	1.5	4.5	40
GN.79300	GN 784-31-M6-B-2-ELS	31	M 6	M 6	18	14	3.5	35.5	29.6	14.9	9	10	21.5	12	3	2.5	6.5	70
GN.79302	GN 784-31-M8-B-2-ELS	31	M 8	M 6	18	14	3.5	35.5	29.6	14.9	9	12	21.5	12	3	2.5	6.5	80
GN.79320	GN 784-39-M6-B-2-ELS	39	M 6	M 8	24	15	4.5	45	37.2	18.9	12	10	25.5	13	4	4	16	130
GN.79324	GN 784-39-M8-B-2-ELS	39	M 8	M 8	24	15	4.5	45	37.2	18.9	12	12	25.5	13	4	4	16	139
GN.79342	GN 784-49-M8-B-2-ELS	49	M 8	M 8	28	19.5	4.5	56	46.1	24	16	12	30.8	17	4	4	20	263
GN.79338	GN 784-49-M10-B-2-ELS	49	M 10	M 8	28	19.5	4.5	56	46.1	24	16	15	30.8	17	4	4	20	265
GN.79274	GN 784-23-1/4-B-2-ELS	23	1/4	M 5	14	11	2.5	26.6	21.7	10.6	7	10	17.3	9	2.5	1.5	4.5	30
GN.79294	GN 784-31-1/4-B-2-ELS	31	1/4	M 6	18	14	3.5	35.5	29.6	14.9	9	10	21.5	12	3	2.5	6.5	70
GN.79314	GN 784-39-3/8-B-2-ELS	39	3/8	M 8	24	15	4.5	45	37.2	18.9	12	12	25.5	13	4	4	16	165
GN.79334	GN 784-49-3/8-B-2-ELS	49	3/8	M 8	28	19.5	4.5	56	46.1	24	16	12	30.8	17	4	4	20	268

* The usable thread depth for d2, d3, d5 is 1,5x the thread diameter for metric threads and 1,2x the thread diameter for inch-based threads.

Recommended tightening torque of the clamping (identification no.)

Resulting stop torque on the ball