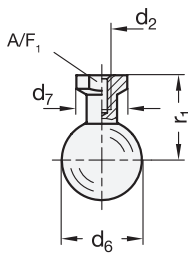
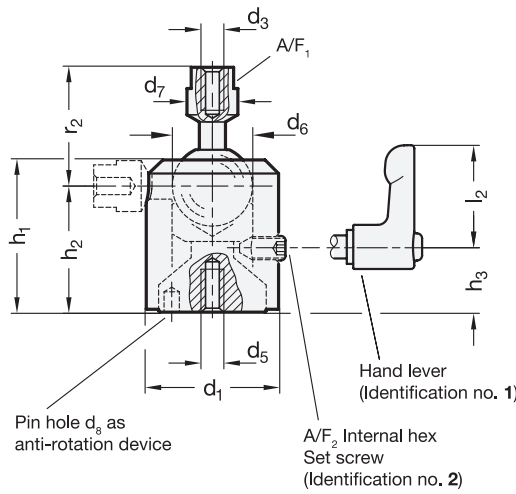
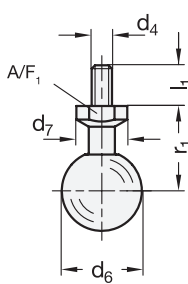


Type A



Type B



3 Type

- A** Ball with internal thread
B Ball with external thread

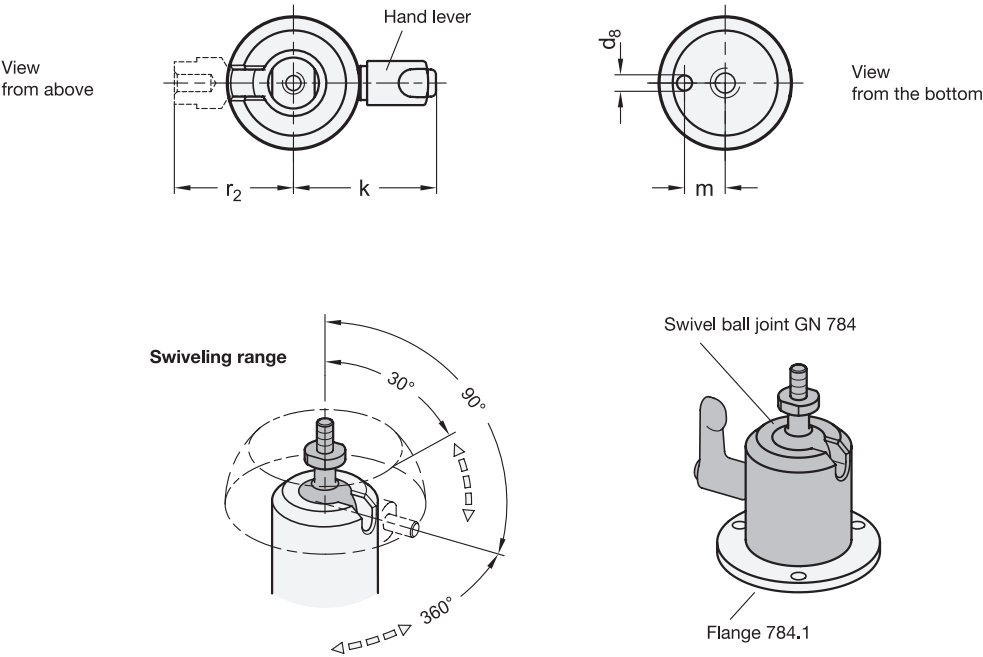
4 Identification no.

- 1** Clamping with adjustable hand lever
2 Clamping with set screw

d₁	d₂*	r₁	d₃*	r₂	d₄	r₁	l₁
	Type A	Type A	Type A Type A Inch thread			Type B	Type B
23	M 4	17,3	M 5	-	24,8	M 5	8
23	-	-	-	1/4 (≅ 1/4-20)	24,8	M 6	10
31	M 5	21,5	M 6	1/4 (≅ 1/4-20)	32,5	M 6	10
31	-	-	-	-	32,5	M 8	12
39	M 5	25,5	M 6	-	36,2	M 6	10
39	-	-	M 8	3/8 (≅ 3/8-16)	40,5	M 8	12
49	M 8	30,8	-	3/8 (≅ 3/8-16)	44,8	M 8	12
49	-	-	M 10	-	51,8	M 10	15

d₁	d₅*	d₆	d₇	d₈	h₁	h₂	h₃	k	l₂	m	A/F₁	A/F₂	Recommended tightening torque of the clamping (Identification no.) in Nm ≈	Resulting stop torque on the ball in Nm ≈
23	M 5	14	11	2,5	26,6	21,7	10,6	32	22	7	9	2,5	1,5	4,5
31	M 6	18	14	3,5	35,5	29,6	14,9	36	22	9	12	3	2,5	6,5
39	M 8	24	15	4,5	45	37,2	18,9	44	30	12	13	4	4	16
49	M 8	28	19,5	4,5	56	46,1	24	49	30	16	17	4	4	20

* 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.



Specification

- Housing
Aluminum
Anodized, black
- Base plate, ball
Aluminum, plain finish
- Adjustable hand lever (Identification no. 1)
 - Zinc die casting
 - Powder coated
 - Silver, RAL 9006, textured finish
 - Threaded stud and retaining screw
 - Stainless steel AISI 303
- Set screw (Identification no. 2)
Stainless steel AISI 304
- *Stainless Steel Characteristics* → Page 2166
- RoHS

Accessory

- Flanges GN 784.1 → Page 1822

On request

- Clamping with star knob DIN 6335

Information

Swivel ball joints GN 784 allow precise and stepless adjustment of the ball pivot within the swiveling 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 d_5 internal thread or together with the GN 784.1 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.

How to order (With internal thread)		1	d_1
		2	d_3 (d_2)
		3	Type
		4	Identification no.
		5	Finish
GN 784-39-3/8-A-1-ELS			

How to order (With external thread)		1	d_1
		2	d_4
		3	Type
		4	Identification no.
		5	Finish
GN 784-49-M8-B-2-ELS			