

- 3 Type**
- A** Ball with internal thread
 - B** Ball with external thread
- 4 Identification no.**
- 1** Clamping with adjustable lever
 - 2** Clamping with set screw with hex socket

Specification

- Housing
Aluminum
Anodized finish, black **ELS**
- Base plate and ball
Aluminum
Plain finish
- Adjustable lever (Identification no. 1)
- Zinc die-cast
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 2143
- **RoHS compliant**

Accessory

- Mounting flanges GN 784.1
→ www.jwwinco.com

On request

- Clamping with hand knob DIN 6335

Information

GN 784 swivel ball joints 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 forces on the ball. This force is easily applied with the adjustable lever (Identification no.1).

The ball joint can be mounted from below with the d₅ 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 torques increases the stop torque, but may result in increased wear of the clamping mechanism.

| | |
|--|---|
| How to order (With internal thread) | |
| 1 | Diameter d ₁ |
| 2 | Thread d ₃ (d ₂) |
| 3 | Type |
| 4 | Identification no. |
| 5 | Finish |
| | |

| | |
|--|-------------------------|
| How to order (With external thread) | |
| 1 | Diameter d ₁ |
| 2 | Thread d ₄ |
| 3 | Type |
| 4 | Identification no. |
| 5 | Finish |
| | |

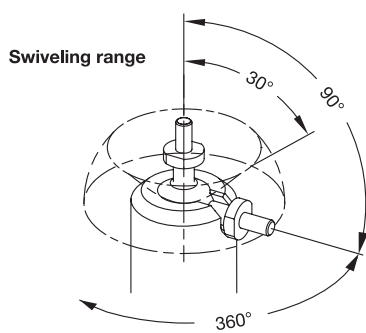
Metric table

Dimensions in: millimeters - inches

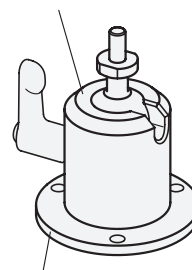
| d ₁ | d ₂ * Type A Metric thread | r ₁ | d ₃ ** Type A | | r ₂ | d ₄ Type B | | r ₁ | l ₁ |
|----------------|---|----------------|-----------------------------|----------------|----------------|--------------------------|----------------|----------------|----------------|
| | | | Metric thread | Inch thread | | Metric thread | Inch thread | | |
| 23 0.91 | M 4 | 17.3 0.68 | M 5 | - | 24.8 0.98 | M 5 | - | 17.3 0.68 | 8 0.31 |
| 23 0.91 | - | - | - | 1/4 (≅ 1/4x20) | 24.8 0.98 | M 6 | 1/4 (≅ 1/4x20) | 17.3 0.68 | 10 0.39 |
| 31 1.22 | M 5 | 21.5 0.85 | M 6 | 1/4 (≅ 1/4x20) | 32.5 1.28 | M 6 | 1/4 (≅ 1/4x20) | 21.5 0.85 | 10 0.39 |
| 31 1.22 | - | - | - | - | 32.5 1.28 | M 8 | - | 21.5 0.85 | 12 0.47 |
| 39 1.54 | M 5 | 25.5 1.00 | M 6 | - | 36.2 1.43 | M 6 | - | 25.5 1.00 | 10 0.39 |
| 39 1.54 | - | - | M 8 | 3/8 (≅ 3/8x16) | 40.5 1.59 | M 8 | 3/8 (≅ 3/8x16) | 25.5 1.00 | 12 0.47 |
| 49 1.93 | M 8 | 30.8 1.21 | - | 3/8 (≅ 3/8x16) | 44.8 1.76 | M 8 | 3/8 (≅ 3/8x16) | 30.8 1.21 | 12 0.47 |
| 49 1.93 | - | - | M 10 | - | 51.8 2.04 | M 10 | - | 30.8 1.21 | 15 0.59 |

| d ₁ | d ₅ *** | d ₆ | d ₇ | d ₈ | h ₁ | h ₂ | h ₃ | k | l ₂ | m | A/F ₁ | A/F ₂ | Recommended tightening torque of the clamping (Identification no.) in Nm ≈ | Resulting stop torque on the ball in Nm ≈ |
|----------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|------------|----------------|------------|------------------|------------------|--|---|
| 23 0.91 | M 5 | 14 0.55 | 11 0.43 | 2.5 0.10 | 26.6 1.05 | 21.7 0.85 | 10.6 0.42 | 32 1.26 | 22 0.87 | 7 0.28 | 9 0.35 | 2.5 0.10 | 1.5 | 4.5 |
| 23 0.91 | M 5 | 14 0.55 | 11 0.43 | 2.5 0.10 | 26.6 1.05 | 21.7 0.85 | 10.6 0.42 | 32 1.26 | 22 0.87 | 7 0.28 | 9 0.35 | 2.5 0.10 | 1.5 | 4.5 |
| 31 1.22 | M 6 | 18 0.71 | 14 0.55 | 3.5 0.14 | 35.5 1.40 | 29.6 1.17 | 14.9 0.59 | 36 1.42 | 22 0.87 | 9 0.35 | 12 0.47 | 3 0.12 | 2.5 | 6.5 |
| 31 1.22 | M 6 | 18 0.71 | 14 0.55 | 3.5 0.14 | 35.5 1.40 | 29.6 1.17 | 14.9 0.59 | 36 1.42 | 22 0.87 | 9 0.35 | 12 0.47 | 3 0.12 | 2.5 | 6.5 |
| 39 1.54 | M 8 | 24 0.94 | 15 0.59 | 4.5 0.18 | 45 1.77 | 37.2 1.46 | 18.9 0.74 | 44 1.73 | 30 1.18 | 12 0.47 | 13 0.51 | 4 0.16 | 4 | 16 |
| 39 1.54 | M 8 | 24 0.94 | 15 0.59 | 4.5 0.18 | 45 1.77 | 37.2 1.46 | 18.9 0.74 | 44 1.73 | 30 1.18 | 12 0.47 | 13 0.51 | 4 0.16 | 4 | 16 |
| 49 1.93 | M 8 | 28 1.10 | 19.5 0.77 | 4.5 0.18 | 56 2.20 | 46.1 1.81 | 24 0.94 | 49 1.93 | 30 1.18 | 16 0.63 | 17 0.67 | 4 0.16 | 4 | 20 |
| 49 1.93 | M 8 | 28 1.10 | 19.5 0.77 | 4.5 0.18 | 56 2.20 | 46.1 1.81 | 24 0.94 | 49 1.93 | 30 1.18 | 16 0.63 | 17 0.67 | 4 0.16 | 4 | 20 |

* Usable thread depth min. 1.5 x d₂ ** Usable thread depth min. 1.5 x d₃ *** Usable thread depth min. 1.5 x d₅



Swivel ball joint GN 784



Flange 784.1