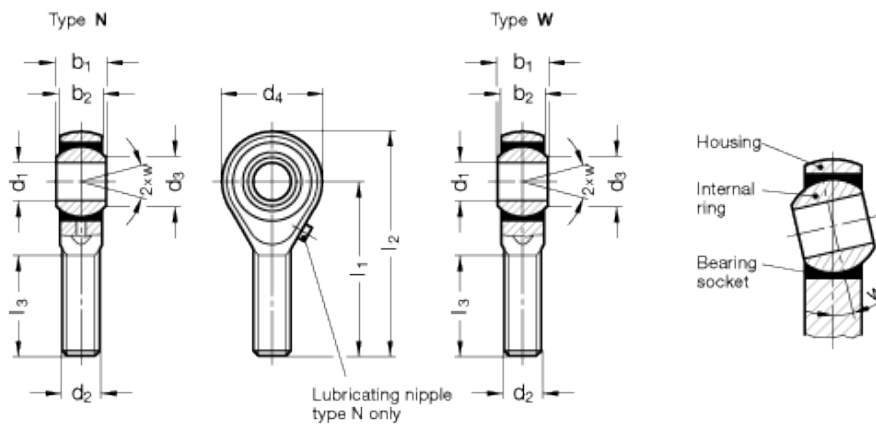


# GN 648.2

Ball joints with threaded stud



technical informations

## Housing

Zinc-plated steel, blue passivated.

## Internal ring

Hardened, ground and polished steel.

## Bearing socket

- Version N (lubrication possible): brass.
- Version W (self lubricated): zinc-plated steel with PTFE-insert.

*Other standard executions available*

Ball joints DIN ISO 12240-0, series E (narrow model) on request.

*Features and applications*

Ball joints GN 648.2 are similar to DIN ISO 12240-4, series K (formerly DIN 648 K).

| Standard Elements      | Main dimensions   |                |                      |                |                |                |                |                |                | Movement Angle | Weight |
|------------------------|-------------------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------|
| Description            | d <sub>1 H7</sub> | d <sub>2</sub> | b <sub>1 -0.12</sub> | b <sub>2</sub> | d <sub>3</sub> | d <sub>4</sub> | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | w              | g      |
| GN 648.2-6-M6-N        | 6                 | M6             | 9                    | 6.75           | 8.9            | 20             | 36             | 46             | 22             | 13             | 15     |
| GN 648.2-6-M6L-N       | 6                 | M6L            | 9                    | 6.75           | 8.9            | 20             | 36             | 48             | 22             | 13             | 20     |
| GN 648.2-8-M8-N        | 8                 | M8             | 12                   | 9              | 10.4           | 24             | 42             | 54             | 25             | 14             | 40     |
| GN 648.2-8-M8L-N       | 8                 | M8L            | 12                   | 9              | 10.4           | 24             | 42             | 54             | 25             | 14             | 40     |
| GN 648.2-10-M10-N      | 10                | M10            | 14                   | 10.5           | 12.9           | 28             | 48             | 62             | 29             | 13             | 60     |
| GN 648.2-10-M10L-N     | 10                | M10L           | 14                   | 10.5           | 12.9           | 28             | 48             | 62             | 29             | 13             | 60     |
| GN 648.2-12-M12-N      | 12                | M12            | 16                   | 12             | 15.4           | 32             | 54             | 70             | 33             | 13             | 95     |
| GN 648.2-12-M12L-N     | 12                | M12L           | 16                   | 12             | 15.4           | 32             | 54             | 70             | 33             | 13             | 95     |
| GN 648.2-14-M14-N      | 14                | M14            | 19                   | 13.5           | 16.8           | 36             | 60             | 78             | 38             | 16             | 140    |
| GN 648.2-14-M14L-N     | 14                | M14L           | 19                   | 13.5           | 16.8           | 36             | 60             | 78             | 38             | 16             | 145    |
| GN 648.2-16-M16-N      | 16                | M16            | 21                   | 15             | 19.3           | 42             | 66             | 87             | 40             | 15             | 205    |
| GN 648.2-16-M16L-N     | 16                | M16L           | 21                   | 15             | 19.3           | 42             | 66             | 87             | 40             | 15             | 205    |
| GN 648.2-18-M18x1.5-N  | 18                | M18x1.5        | 23                   | 16.5           | 21.8           | 46             | 72             | 95             | 44             | 15             | 275    |
| GN 648.2-18-M18x1.5L-N | 18                | M18x1.5L       | 23                   | 16.5           | 21.8           | 46             | 72             | 95             | 44             | 15             | 290    |
| GN 648.2-20-M20x1.5-N  | 20                | M20x1.5        | 25                   | 17             | 24.3           | 50             | 78             | 103            | 47             | 14             | 355    |
| GN 648.2-20-M20x1.5L-N | 20                | M20x1.5        | 25                   | 17             | 24.3           | 50             | 78             | 103            | 47             | 14             | 375    |
| GN 648.2-22-M22x1.5-N  | 22                | M22x1.5        | 28                   | 20             | 25.8           | 54             | 84             | 111            | 51             | 15             | 470    |
| GN 648.2-22-M22x1.5L-N | 22                | M22x1.5L       | 28                   | 20             | 25.8           | 54             | 84             | 111            | 51             | 15             | 475    |
| GN 648.2-25-M24x2-N    | 25                | M24x2          | 31                   | 22             | 29.6           | 60             | 94             | 124            | 38             | 15             | 615    |
| GN 648.2-25-M24x2L-N   | 25                | M24x2L         | 31                   | 22             | 29.6           | 60             | 94             | 124            | 38             | 15             | 620    |
| GN 648.2-5-M5-W*       | 5                 | M5             | 8                    | 6              | 7.7            | 18             | 33             | 42             | 20             | 13             | 14     |
| GN 648.2-5-M5L-W*      | 5                 | M5L            | 8                    | 6              | 7.7            | 18             | 33             | 42             | 20             | 13             | 15     |
| GN 648.2-6-M6-W        | 6                 | M6             | 9                    | 6.75           | 8.9            | 20             | 36             | 46             | 22             | 13             | 20     |
| GN 648.2-6-M6L-W       | 6                 | M6L            | 9                    | 6.75           | 8.9            | 20             | 36             | 46             | 22             | 13             | 20     |
| GN 648.2-8-M8-W        | 8                 | M8             | 12                   | 9              | 10.4           | 24             | 42             | 54             | 25             | 14             | 40     |
| GN 648.2-8-M8L-W       | 8                 | M8L            | 12                   | 9              | 10.4           | 24             | 42             | 54             | 25             | 14             | 35     |
| GN 648.2-10-M10-W      | 10                | M10            | 14                   | 10.5           | 12.9           | 28             | 48             | 62             | 29             | 13             | 60     |
| GN 648.2-10-M10L-W     | 10                | M10L           | 14                   | 10.5           | 12.9           | 28             | 48             | 62             | 29             | 13             | 60     |
| GN 648.2-12-M12-W      | 12                | M12            | 16                   | 12             | 15.4           | 32             | 54             | 70             | 33             | 13             | 90     |
| GN 648.2-12-M12L-W     | 12                | M12L           | 16                   | 12             | 15.4           | 32             | 54             | 70             | 33             | 13             | 90     |
| GN 648.2-14-M14-W      | 14                | M14            | 19                   | 13.5           | 16.8           | 36             | 60             | 78             | 38             | 16             | 130    |
| GN 648.2-14-M14L-W     | 14                | M14L           | 19                   | 13.5           | 16.8           | 36             | 60             | 78             | 38             | 16             | 135    |
| GN 648.2-16-M16-W      | 16                | M16            | 21                   | 15             | 19.3           | 42             | 66             | 87             | 40             | 15             | 200    |
| GN 648.2-16-M16L-W     | 16                | M16L           | 21                   | 15             | 19.3           | 42             | 66             | 87             | 40             | 15             | 205    |

|                        |    |          |    |      |      |    |     |     |    |    |      |
|------------------------|----|----------|----|------|------|----|-----|-----|----|----|------|
| GN 648.2-18-M18x1.5-W  | 18 | M18x1.5  | 23 | 16.5 | 21.8 | 46 | 72  | 95  | 44 | 15 | 270  |
| GN 648.2-18-M18-1.5L-W | 18 | M18x1.5L | 23 | 16.5 | 21.8 | 46 | 72  | 95  | 44 | 15 | 270  |
| GN 648.2-20-M20x1.5-W  | 20 | M20x1.5  | 25 | 18   | 24.3 | 50 | 78  | 103 | 47 | 14 | 355  |
| GN 648.2-20-M20x1.5L-W | 20 | M20x1.5L | 25 | 18   | 24.3 | 50 | 78  | 103 | 47 | 14 | 355  |
| GN 648.2-22-M22x1.5-W  | 22 | M22x1.5  | 28 | 20   | 25.8 | 54 | 84  | 111 | 51 | 15 | 455  |
| GN 648.2-22-M22x1.5L-W | 22 | M22x1.5L | 28 | 20   | 25.8 | 54 | 84  | 111 | 51 | 15 | 460  |
| GN 648.2-25-M24x2-W    | 25 | M24x2    | 31 | 22   | 29.6 | 60 | 94  | 124 | 58 | 15 | 605  |
| GN 648.2-25-M24x2L-W   | 25 | M24x2L   | 31 | 22   | 29.6 | 60 | 94  | 124 | 58 | 15 | 610  |
| GN 648.2-30-M30x2-W    | 30 | M30x2    | 37 | 25   | 34.8 | 70 | 110 | 145 | 71 | 17 | 1020 |
| GN 648.2-30-M30x2L-W   | 30 | M30x2L   | 37 | 25   | 34.8 | 70 | 110 | 145 | 71 | 17 | 1050 |



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