

## Double Loop Couplings MDSK

### Material:

Hubs from zinc-plated steel, loops from polyurethane.

Hubs from stainless steel 1.4305 (V2A), loops from polyurethane.

Hubs from stainless steel 1.4404 (V4A), loops from FDA-compliant plastic.

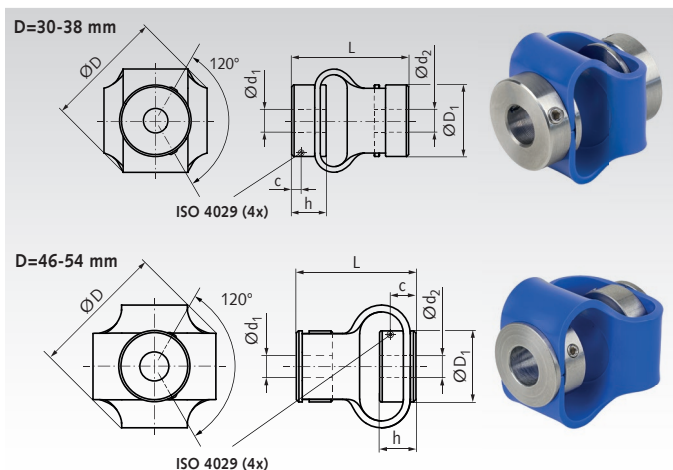


These torsionally rigid couplings consist of a single-piece, flexible plastic body with a double-loop geometry. They enable reliable compensation for radial, axial, and angular misalignments while providing effective shock and vibration damping.

The selection of different material combinations makes them suitable for a wide range of industrial applications, including environments with high hygiene requirements.

Temperature range: -30°C to +80°C.

Max. speed 3,000 min<sup>-1</sup>.



Ordering Details: e.g.: Product No. 60320121, Double loop Coupling MDSK,  
Steel zinc-plated, D = 30mm, bore 4mm

| Product No.<br>Steel<br>zinc-plated | Product No.<br>Stainless Steel<br>1.4305 (V2A) | Product No.<br>Stainless Steel<br>1.4404, FDA | D<br>mm | Bore <sup>1)</sup><br>d <sub>1</sub> ; d <sub>2</sub> <sup>H8</sup><br>mm | Bore <sup>2)</sup><br>min.<br>mm | max.<br>mm | D <sub>1</sub><br>mm | h<br>mm | L<br>mm | c<br>mm | Set Screws<br>ISO 4029<br>(DIN 916) | T <sub>A</sub><br>Nm | Weight<br>g |
|-------------------------------------|------------------------------------------------|-----------------------------------------------|---------|---------------------------------------------------------------------------|----------------------------------|------------|----------------------|---------|---------|---------|-------------------------------------|----------------------|-------------|
| 603 201 21                          | -                                              | -                                             | 30±1,5  | 4                                                                         | 4                                | 10         | 19                   | 9       | 29±1,5  | 2,5     | M3 x 4                              | 1/0,7                | 35          |
| 603 201 22                          | -                                              | -                                             | 30±1,5  | 5                                                                         | 4                                | 10         | 19                   | 9       | 29±1,5  | 2,5     | M3 x 4                              | 1/0,7                | 35          |
| 603 201 23                          | 603 992 23                                     | 603 992 63                                    | 30±1,5  | 6                                                                         | 4                                | 10         | 19                   | 9       | 29±1,5  | 2,5     | M3 x 4                              | 1/0,7                | 35          |
| 603 201 24                          | 603 992 24                                     | 603 992 64                                    | 30±1,5  | 8                                                                         | 4                                | 10         | 19                   | 9       | 29±1,5  | 2,5     | M3 x 4                              | 1/0,7                | 35          |
| 603 201 25                          | 603 992 25                                     | 603 992 65                                    | 30±1,5  | 10                                                                        | 4                                | 10         | 19                   | 9       | 29±1,5  | 2,5     | M3 x 4                              | 1/0,7                | 35          |
| 603 201 26                          | 603 992 26                                     | -                                             | 38±1,5  | 6                                                                         | 6                                | 12         | 23                   | 10      | 36±1,5  | 2,75    | M4 x 6                              | 2/1,4                | 48          |
| 603 201 27                          | 603 992 27                                     | -                                             | 38±1,5  | 8                                                                         | 6                                | 12         | 23                   | 10      | 36±1,5  | 2,75    | M4 x 6                              | 2/1,4                | 48          |
| 603 201 28                          | 603 992 28                                     | -                                             | 38±1,5  | 10                                                                        | 6                                | 12         | 23                   | 10      | 36±1,5  | 2,75    | M4 x 6                              | 2/1,4                | 48          |
| 603 201 29                          | 603 992 29                                     | -                                             | 38±1,5  | 12                                                                        | 6                                | 12         | 23                   | 10      | 36±1,5  | 2,75    | M4 x 6                              | 2/1,4                | 48          |
| 603 201 30                          | 603 992 30                                     | 603 992 70                                    | 46±2    | 10                                                                        | 10                               | 14         | 26                   | 13      | 46±2    | 9       | M4 x 6                              | 2/1,4                | 90          |
| 603 201 31                          | 603 992 31                                     | 603 992 71                                    | 46±2    | 12                                                                        | 10                               | 14         | 26                   | 13      | 46±2    | 9       | M4 x 6                              | 2/1,4                | 90          |
| 603 201 32                          | -                                              | 603 992 72                                    | 46±2    | 14                                                                        | 10                               | 14         | 26                   | 13      | 46±2    | 9       | M4 x 6                              | 2/1,4                | 90          |
| 603 201 33                          | 603 992 33                                     | -                                             | 54±3    | 14                                                                        | 12                               | 16         | 30                   | 16      | 52±3    | 11      | M5 x 6                              | 3/2,1                | 140         |
| 603 201 34                          | 603 992 34                                     | -                                             | 54±3    | 16                                                                        | 12                               | 16         | 30                   | 16      | 52±3    | 11      | M5 x 6                              | 3/2,1                | 140         |

<sup>1)</sup> Standard bore.

<sup>2)</sup> Other bore sizes on request. Different bores on both sides between min. and max. are possible.

<sup>3)</sup> Fastening torque for screws from steel / stainless steel.

### Performance Data

| D<br>mm | Torque<br>max. <sup>1)</sup><br>Nm | max. Misalignment<br>Angular<br>Grad | Radial<br>mm | Axial<br>mm | Torsional<br>stiffness<br>m/rad | Radial<br>stiffness<br>N/mm | Moment of<br>inertia<br>10 <sup>-6</sup> kg m <sup>2</sup> |
|---------|------------------------------------|--------------------------------------|--------------|-------------|---------------------------------|-----------------------------|------------------------------------------------------------|
| 30      | 0,5                                | ±10                                  | ±2           | ±2          | 13                              | 13                          | 4,1                                                        |
| 38      | 1,5                                | ±10                                  | ±2,5         | ±3          | 25                              | 15                          | 10,4                                                       |
| 46      | 2                                  | ±12                                  | ±3           | ±4          | 28                              | 7                           | 10,6                                                       |
| 54      | 5                                  | ±15                                  | ±5           | ±5          | 43                              | 9                           | 22,0                                                       |

<sup>1)</sup> Max. torque at max. shaft displacement.