

## Curved-Tooth Gear Couplings BW, Polyamide 6.6

Bore tolerance + 0.05/-0.10 mm  
with feather keyways according to DIN  
6885/1 ±0.08 mm.

Grub Screws, Stainless steel V4A.

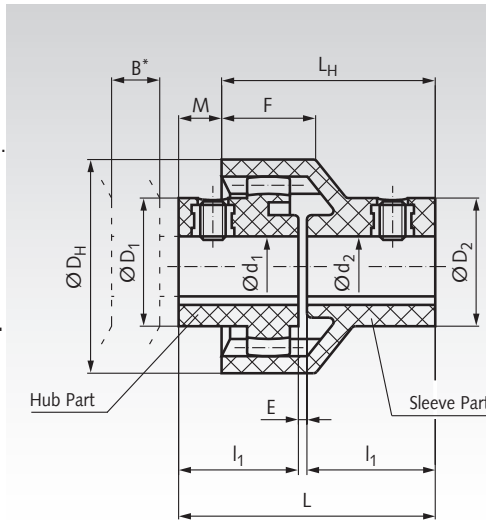
Largest axial displacement = max. ±1 mm.

Largest angular displacement = max. ±1°.

**No radial displacement.** The permissible displacement values are dependent on power and speed.

Max. speed: 6000 min<sup>-1</sup>

**Both parts have to be ordered separately.**



Ordering Details: e.g.:

1 Item Coupling BW, Bore  $d_1 = 6$ ,  $d_2 = 10$  mm:

1 Item Product No. 607 006 00 Hub Part

1 Item Product No. 606 110 00 Sleeve Part

| Product No. Hub | Size | $d_1$ mm | $D_1$ mm | Product No. Sleeve | $d_2$ mm | $D_2$ mm | Torque normal Nm | Torque peak Nm | $D_H$ mm | $B^*$ mm | $L_1$ mm | E mm | L mm | $L_H$ mm | M mm | F mm | Weight Hub g | Weight Sleeve g |
|-----------------|------|----------|----------|--------------------|----------|----------|------------------|----------------|----------|----------|----------|------|------|----------|------|------|--------------|-----------------|
| 607 006 00      | 14   | 6        | 22       | -                  | -        | -        | 5                | 10             | 40       | 15       | 23       | 2    | 48   | 40       | 8    | 18,5 | 13,5         | -               |
| 607 007 00      | 14   | 7        | 22       | -                  | -        | -        | 5                | 10             | 40       | 15       | 23       | 2    | 48   | 40       | 8    | 18,5 | 13,5         | -               |
| 607 008 00      | 14   | 8        | 22       | -                  | -        | -        | 5                | 10             | 40       | 15       | 23       | 2    | 48   | 40       | 8    | 18,5 | 13,5         | -               |
| 607 009 00      | 14   | 9        | 22       | -                  | -        | -        | 5                | 10             | 40       | 15       | 23       | 2    | 48   | 40       | 8    | 18,5 | 13,5         | -               |
| 607 010 00      | 14   | 10       | 23       | 606 110 00         | 10       | 25       | 5                | 10             | 40       | 15       | 23       | 2    | 48   | 40       | 8    | 18,5 | 13,5         | 28              |
| 607 011 00      | 14   | 11       | 23       | 606 111 00         | 11       | 25       | 5                | 10             | 40       | 15       | 23       | 2    | 48   | 40       | 8    | 18,5 | 13,5         | 28              |
| 607 012 00      | 14   | 12       | 26       | 606 112 00         | 12       | 26       | 5                | 10             | 40       | 15       | 23       | 2    | 48   | 40       | 8    | 18,5 | 13,5         | 28              |
| 607 014 00      | 14   | 14       | 26       | 606 114 00         | 14       | 26       | 5                | 10             | 40       | 15       | 23       | 2    | 48   | 40       | 8    | 18,5 | 13,5         | 28              |
| 607 212 00      | 19   | 12       | 27       | -                  | -        | -        | 8                | 16             | 47       | 16       | 25       | 2    | 52   | 42       | 10   | 19,0 | 15,5         | -               |
| 607 214 00      | 19   | 14       | 27       | 606 314 00         | 14       | 29       | 8                | 16             | 47       | 16       | 25       | 2    | 52   | 42       | 10   | 19,0 | 15,5         | 32              |
| 607 216 00      | 19   | 16       | 30       | 606 315 00         | 15       | 29       | 8                | 16             | 47       | 16       | 25       | 2    | 52   | 42       | 10   | 19,0 | 15,5         | 32              |
| 607 219 00      | 19   | 19       | 32       | 606 319 00         | 19       | 35       | 8                | 16             | 47       | 16       | 25       | 2    | 52   | 42       | 10   | 19,0 | 15,5         | 32              |
| 607 410 00      | 24   | 10       | 26       | -                  | -        | -        | 12               | 24             | 53       | 17       | 26       | 2    | 54   | 45       | 9    | 21,5 | 25           | -               |
| 607 411 00      | 24   | 11       | 26       | -                  | -        | -        | 12               | 24             | 53       | 17       | 26       | 2    | 54   | 45       | 9    | 21,5 | 25           | -               |
| 607 412 00      | 24   | 12       | 26       | -                  | -        | -        | 12               | 24             | 53       | 17       | 26       | 2    | 54   | 45       | 9    | 21,5 | 25           | -               |
| 607 414 00      | 24   | 14       | 32       | 606 514 00         | 14       | 32       | 12               | 24             | 53       | 17       | 26       | 2    | 54   | 45       | 9    | 21,5 | 25           | 45              |
| 607 415 00      | 24   | 15       | 32       | -                  | -        | -        | 12               | 24             | 53       | 17       | 26       | 2    | 54   | 45       | 9    | 21,5 | 25           | -               |
| 607 416 00      | 24   | 16       | 32       | -                  | -        | -        | 12               | 24             | 53       | 17       | 26       | 2    | 54   | 45       | 9    | 21,5 | 25           | -               |
| 607 418 00      | 24   | 18       | 36       | -                  | -        | -        | 12               | 24             | 53       | 17       | 26       | 2    | 54   | 45       | 9    | 21,5 | 25           | -               |
| 607 419 00      | 24   | 19       | 36       | 606 519 00         | 19       | 36       | 12               | 24             | 53       | 17       | 26       | 2    | 54   | 45       | 9    | 21,5 | 25           | 45              |
| 607 420 00      | 24   | 20       | 36       | 606 520 00         | 20       | 36       | 12               | 24             | 53       | 17       | 26       | 2    | 54   | 45       | 9    | 21,5 | 25           | 45              |
| 607 424 00      | 24   | 24       | 38       | 606 524 00         | 24       | 40       | 12               | 24             | 53       | 17       | 26       | 2    | 54   | 45       | 9    | 21,5 | 25           | 45              |

\* B is the minimum dimension by which a machine part has to be moved in order to demount one of the coupled units in vertical direction.

### General

All parts of the couplings are made from plastic (polyamide). This means large wear resistance and excellent resistance to oils, fats, grease, fuels, alcohols, esters, ketones, and grachatic hydrocarbons. But concentrated mineral acids, formic acid, kresol, glycol and benzyl alcohol can - especially at higher temperatures - dissolve polyamide 6.6. The plastics are resistant to condensation and splash water. Operating temperature -25°C to +100°C.

The torque of the couplings is transmitted from the first hub with the toothing via the sleeve part with straight inner toothing onto the second hub. Horizontal as well as vertical shaft connection is possible. The curved-tooth gear couplings BW compensate angular and axial misalignment of the shafts.

When running the coupling in, the outer layer of the plastic teeth is worn away. The resulting flocculent abrasion is not to be interpreted as wear. Simple mounting - no maintenance - low weight - long service life.

### Mounting

Align shafts, put feather keys into the keyways, push hub and sleeve part onto the shaft. The set screws can be entered. Now the hub part is pushed that far into the sleeve part, that a gap of 2mm remains between the shaft ends. Then the set screws have to be tightened firmly.