

## JUBOFLEX® elastic coupling

### Description

JUBOFLEX® couplings are made of:

- one elastic element made of pre-compressed, natural rubber, reinforced with steel to be fitted with fixing screws and a metallic band (to be removed after mounting);
- two metallic hubs made of forged steel (size 120 produced in cast iron).

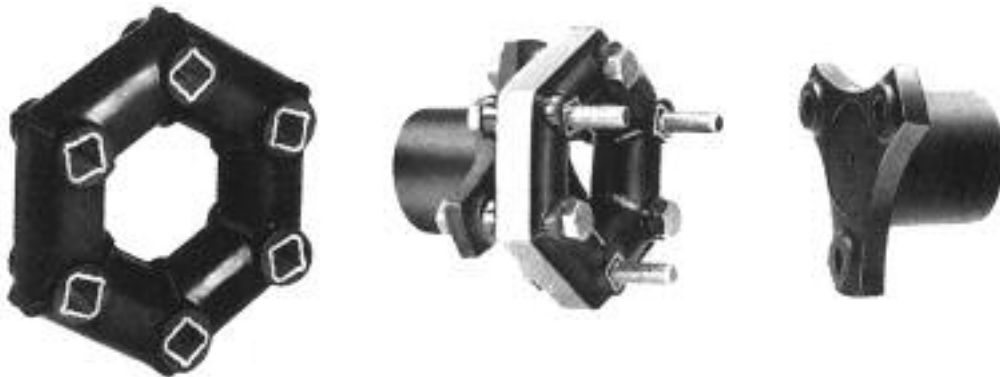
They are produced:

- for mounting with SER-SIT® taper bushing from size 4 to 25;
- solid hub from size 35 to 120.

### GJB4 - GJB25



### GJ4 - GJ120



### Features

JUBOFLEX® coupling has exceptional elastic properties. In fact, it allows for:

- an excellent dampening effect of the load peaks;
- high safety factor and a very high resistance to alternating deformation, thanks to pre-compression;
- possibility of bearing misalignment values rarely possible with other couplings.

In this way it avoids the need of a precise alignment of the machines to be coupled. It is recommended to remove the metallic band of the elastic element after the coupling is mounted; pre compression will be assured by the fixing screws.

### Coding

Codification of the JUBOFLEX® couplings is:

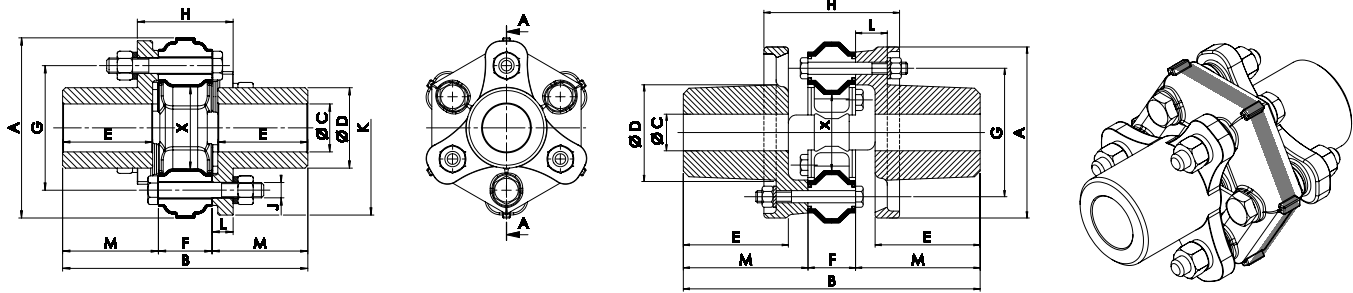
- GJ complete coupling solid hub;
- GJM hub;
- AJ elastic element.

To identify the desired size use the nominal torque of the coupling.

E.G.: GJ4 = complete coupling (2 hubs + 1 elastic element) with nominal torque of 40 Nm.



## JUBOFLEX® elastic coupling - solid hub



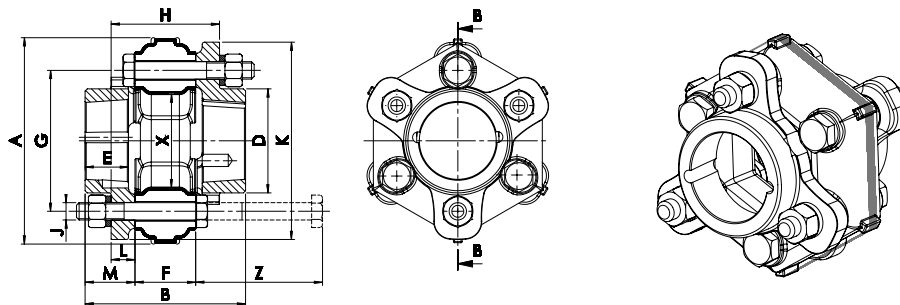
GJ4 - GJ70

GJ120

| Size   | C         |           | A [mm] | B [mm] | D [mm] | E [mm] | F [mm] | G [mm] | H [mm] | J [mm] | K [mm] | L [mm] | M [mm] | X [mm] | W [kg] |
|--------|-----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|        | min. [mm] | max. [mm] |        |        |        |        |        |        |        |        |        |        |        |        |        |
| GJ4    | -         | 30        | 91     | 128    | 42     | 47     | 28     | 65     | 50     | 8      | 87     | 11     | 50     | 23     | 2      |
| GJ9    | -         | 40        | 117    | 172    | 56     | 66     | 32     | 85     | 60     | 10     | 113    | 14     | 70     | 35     | 3      |
| GJ16   | -         | 48        | 142    | 196    | 68     | 70     | 46     | 100    | 80     | 12     | 135    | 17     | 75     | 40     | 5      |
| GJ25   | -         | 60        | 181    | 247    | 90     | 93     | 51     | 132    | 93     | 14     | 172    | 21     | 98     | 63     | 12     |
| GJ35   | -         | 70        | 202    | 284    | 105    | 109    | 54     | 150    | 96     | 18     | 196    | 21     | 115    | 68     | 18     |
| GJ50   | -         | 75        | 232    | 322    | 115    | 124    | 62     | 170    | 108    | 20     | 225    | 23     | 130    | 75     | 25     |
| GJ70   | -         | 80        | 263    | 346    | 122    | 133    | 68     | 190    | 116    | 20     | 246    | 24     | 139    | 82     | 32     |
| GJ120* | 60        | 100       | 280    | 486    | 156    | 172    | 78     | 210    | 222    | 20     | -      | 52     | 204    | 110    | 57     |

\*= 8 lobes execution

## JUBOFLEX® elastic coupling for mounting SERSIT® taper bushing



| Size  | SER-SIT® taper bushing | A [mm] | B [mm] | D [mm] | E [mm] | F [mm] | G [mm] | H [mm] | J [mm] | K [mm] | L [mm] | M [mm] | X [mm] | W [mm] | Z [mm] |
|-------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| GJB4  | 1108                   | 91     | 74     | 48     | 20     | 28     | 65     | 54     | 8      | 91     | 11     | 23     | 23     | 0,8    | 65     |
| GJB9  | 1210                   | 117    | 90     | 60     | 25     | 32     | 85     | 65     | 10     | 121    | 14     | 29     | 35     | 1,6    | 75     |
| GJB16 | 1610                   | 142    | 106    | 70     | 25     | 46     | 100    | 81     | 12     | 140    | 17     | 30     | 40     | 2,7    | 90     |
| GJB25 | 2012                   | 181    | 121    | 95     | 30     | 51     | 132    | 91     | 14     | 177    | 21     | 35     | 63     | 5      | 100    |

## SERSIT® taper bushing

| Type                | Diameter of the bore (H7)<br>Keyway according to DIN 6885 sheet 1 - JS9                  | Length [mm] | Diam. max. | Screws |           |             |                         | Ms [Nm] |
|---------------------|--|-------------|------------|--------|-----------|-------------|-------------------------|---------|
|                     |  |             |            | No.    | withworth | Length [mm] | Sets screws wrench type |         |
| <b>1108 (28.20)</b> | [mm] 9 10 11 12 14 15 16 18 19 20 22 24 25 <b>26 27 28</b>                               | 22,3        | 38         | 2      | 1/4       | 13          | M3                      | 5,5     |
|                     | [inches] 3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1 - 1 1/8   |             |            |        |           |             |                         |         |
| <b>1210 (30.25)</b> | [mm] 11 12 14 15 16 18 19 20 22 24 25 26 28 <b>30 32</b>                                 | 25,4        | 47         | 2      | 3/8       | 16          | M5                      | 20      |
|                     | [inches] 1/2 - 5/8 - 3/4 - 7/8 - 1 - 1 1/8 - 1 1/4                                       |             |            |        |           |             |                         |         |
| <b>1610 (40.25)</b> | [mm] 12 14 15 16 18 19 20 22 24 25 26 28 30 32 35 38 <b>40 42</b>                        | 25,4        | 57         | 2      | 3/8       | 16          | M5                      | 20      |
|                     | [inches] 3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1 - 1 1/8 - 1 1/4 - 1 3/8 - 1 1/2 - 1 5/8         |             |            |        |           |             |                         |         |
| <b>2012 (50.30)</b> | [mm] 14 15 16 18 19 20 22 24 25 26 28 30 32 35 38 40 42 45 48 <b>50</b>                  | 31,8        | 70         | 2      | 7/16      | 22          | M5                      | 20      |
|                     | [inches] 5/8 - 3/4 - 7/8 - 1 - 1 1/8 - 1 1/4 - 1 3/8 - 1 1/2 - 1 5/8 - 1 3/4 - 1 7/8 - 2 |             |            |        |           |             |                         |         |

Bore diameters in bold type are made in steel instead of cast iron.

**Technical Data**

| Size  | T <sub>KN</sub> [Nm] | T <sub>Kmax</sub> [Nm] | φ [°] | n <sub>max</sub> [min <sup>-1</sup> ] | Nr | Screws/ Type |
|-------|----------------------|------------------------|-------|---------------------------------------|----|--------------|
| GJ4   | 40                   | 120                    | 8     | 6.000                                 | 6  | M8 x 50      |
| GJ9   | 90                   | 270                    | 8     | 5.000                                 | 6  | M10 x 65     |
| GJ16  | 160                  | 480                    | 8     | 4.500                                 | 6  | M12 x 80     |
| GJ25  | 250                  | 750                    | 7     | 3.500                                 | 6  | M14 x 90     |
| GJ35  | 350                  | 1050                   | 7     | 3.000                                 | 6  | M18 x 100    |
| GJ50  | 500                  | 1500                   | 7     | 2.800                                 | 6  | M20 x 115    |
| GJ70  | 700                  | 2100                   | 8     | 2.400                                 | 6  | M20 x 115    |
| GJ120 | 1200                 | 3600                   | 6,5   | 2.400                                 | 8  | M20 x 150    |

|                   |                         |                   |
|-------------------|-------------------------|-------------------|
| T <sub>KN</sub>   | Coupling nominal torque | Nm                |
| T <sub>Kmax</sub> | Coupling maximum torque | Nm                |
| φ                 | Torsion angle           | °                 |
| n <sub>max</sub>  | Maximum rpm             | min <sup>-1</sup> |
| Nr                | Number of screws        |                   |

**Order form**

Hub **GJM 16**

GJM: JUBOFLEX® solid hub  
 GJMB: JUBOFLEX® for mounting SER-SIT® taper bushing

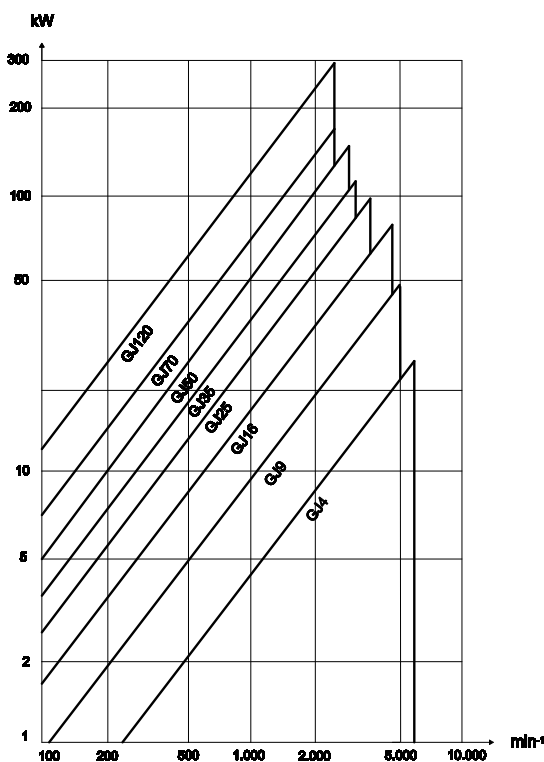
Size

Elastic element **AJ 16**

AJ: elastic element

Size

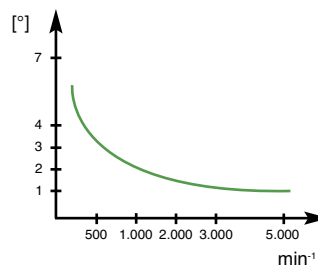
**Power Rating**



**Radial Misalignment**

| Nominal torque [Nm] | Radial misalignment 1.500 rpm [mm] |
|---------------------|------------------------------------|
| 40                  | 0,7                                |
| 90                  | 0,9                                |
| 160                 | 1,4                                |
| 250                 | 1,5                                |
| 350                 | 1,8                                |
| 500                 | 2                                  |
| 700                 | 2,1                                |
| 1200                | 2,4                                |

**Angular Misalignment**



**Mounting**

The precompression, for the initial mounting, is achieved by securing the metallic band around the elastic element (all elements are supplied with metallic band of precompression).

To mount the coupling, tighten the three screws not adjacent to the bores of the elastic element to the three arms of one hub and the three remaining bores of the elastic element to the other hub.

Tighten the screws with the torques indicated in the table. Cut the metallic band when coupling is mounted.

| Size  | Ms [Nm] |
|-------|---------|
| GJ4   | 21      |
| GJ9   | 41      |
| GJ16  | 72      |
| GJ25  | 113     |
| GJ35  | 240     |
| GJ50  | 350     |
| GJ70  | 350     |
| GJ120 | 350     |