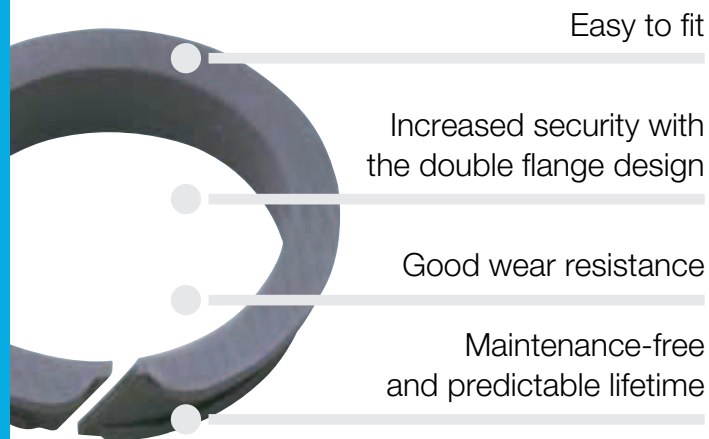


iglidur® Clip Bearings

iglidur® clip bearings are designed specifically for putting shafts through sheet metal. For this reason, the bearings have flanges located on both ends. The bearings are secured in the sheet metal plate on both sides after fitting.



When to use it?

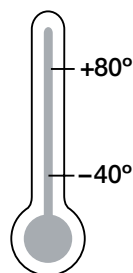
- When a sheet metal bearing is required
- When the bearing should be fitted into a drilled or punched hole with a wide tolerance
- For rotating, linear and pivoting movements
- When a quick-fitting bearing solution is sought



When not to use it?

- When continuous temperatures of above +80 °C occur
 - ▶ iglidur® G, page 61
- When a high-precision bearing is needed
 - ▶ iglidur® J, page 89
- When the sheet metal is more than 4 mm thick
 - ▶ iglidur® Clips2, page 509
 - ▶ iglidur® MKM, page 513
- When extremely high surface pressures occur
 - ▶ iglidur® G, page 61

Temperature



Product range

1 style
 Ø 3–12 mm
 more dimensions
 on request



iglidur® Clip Bearings | Technical Data

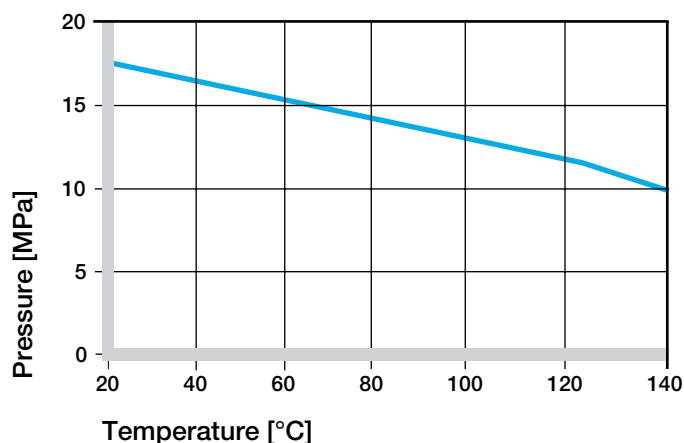
Main Criteria

iglidur® clip bearings are designed specifically for putting shafts through sheet metal. For this reason, the bearings have flanges located on both ends. The bearings are secured in the sheet metal plate on both sides after fitting. The clip bearings have an angled slot which allows the bearings to be fitted from one side. After fitting, the bearing expands and forms a lining for the bore in the metal plate. The shaft prevents the clip bearing from falling out the housing. Even during linear movement, the bearing cannot slide out of the housing. In addition, the lateral slot can compensate for bearing expansions due to temperature or moisture. During expansion, the slot width decreases, and changes to the bearing clearance are minimized. The flange diameter on the smaller side is made in such a way that housings with larger tolerances still provide sufficient security. iglidur® clip bearings are made of a plain bearing materials which gives strong wear resistance at average loads. The bearings are selflubricating and are designed to be used dry. If required, the bearings can be lubricated, as iglidur® M250 is resistant to all common lubricants.

Mechanical Properties

The permissible static pressure of iglidur® clip bearings at room temperature is 20 MPa. Due to the possibility of high tolerances in the housing bore, the clip bearing has a high compressive strength even for punched holes. For bearing surfaces that are very small, the vibration dampening properties and the resistance to edge loads are especially important.

► iglidur® M250, page 107



Graph 02: Recommended maximum surface pressure as a function of temperature (20 MPa at +20 °C)

Permissible Surface Speeds

Clip bearings are extremely wear resistant in slow rotating, oscillating, and linear movements. The maximum surface speeds for the different movements are the same as for the material iglidur® M250 (Table 02).

With lubrication the permissible speeds can be increased.

► Surface Speed, page 45

m/s	Rotating	Oscillating	Linear
Continuous	0.8	0.8	2.5
Short term	2	2	5

Table 02: Maximum running speed

Temperatures

For operating temperatures up to +80 °C iglidur® clip bearings display high wear resistance. Even in the cold, the plain bearings remain elastic and resistant to wear.

► Application Temperatures, page 46

iglidur® M250	Application temperature
Minimum	-40 °C
Max. long term	+80 °C
Max. short term	+170 °C

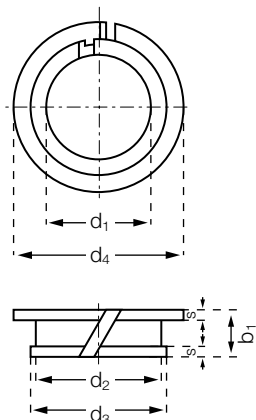
Table 03: Temperature limits

Installation

For installation, the plain bearings are pressed together on the side with the large flange. The angled slot makes the bearing spiral shaped so that it can be placed easily into the metal plate. The slot also compensates for expansions of the circumference. In this way, a tight clearance is possible with the clip bearings.

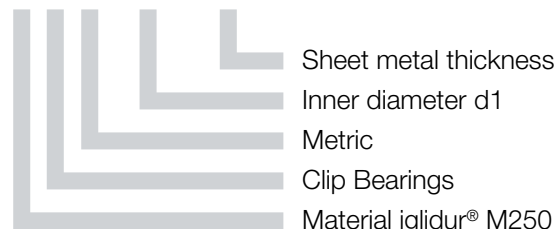
The recommended clearance allows a nominal size shaft to turn easily. The clip bearings should be fitted into a housing with a "H" class tolerance, up to H13. The clip bearing can also rotate within the housing bore.

Clip Bearings



Order key

MCM-06-015



Material:

iglidur® M250 ► page 107

Dimensions [mm]

Part number	d1	d2	d3	d4	s	b1
	D11*				-0.10	+0.20
MCM-06-015	6	7.2	7.8	11	0.6	3.2
MCM-03-02	3	4.2	4.8	6	0.6	3.2
MCM-04-02	4	5.2	5.9	7	0.6	3.2
MCM-05-02	5	6.2	6.8	8	0.6	3.2
MCM-06-02	6	7.2	7.8	11	0.6	3.2
MCM-08-02	8	9.6	10.4	13	0.8	3.6
MCM-09-02	9	10.6	11.4	14	0.8	3.6
MCM-10-02	10	11.6	12.4	15	0.8	3.6
MCM-10-025	10	11.6	12.4	15	0.8	4.1
MCM-12-02	12	13.6	14.4	17	0.8	3.6
MCM-16-02	16	17.6	18.4	21	0.8	3.6
MCM-03-03	3	4.2	4.8	6	0.6	4.2
MCM-04-03	4	5.2	5.9	7	0.6	4.2
MCM-05-03	5	6.2	6.8	8	0.6	4.2

Part number	d1	d2	d3	d4	s	b1
	D11*				-0.10	+0.20
MCM-06-03	6	7.2	7.8	11	0.6	4.2
MCM-07-03	7	9	9.8	13	0.8	4.6
MCM-08-03	8	9.6	10.4	13	0.8	4.6
MCM-10-03	10	11.6	12.4	15	0.8	4.6
MCM-12-03	12	13.6	14.4	17	0.8	4.6
MCM-14-03	14	15.6	16.4	19	0.8	4.6
MCM-16-03	16	17.6	18.4	21	0.8	4.6
MCM-18-03	18	20	21	23	1.0	5.0
MCM-20-03	20	22	23	25	1.0	5.0
MCM-25-03	25	27	28	30	1.0	5.0
MCM-12-035	12	13.6	14.4	17	0.8	5.1
MCM-06-04	6	7.2	7.8	11	0.6	5.2
MCM-12-04	12	13.6	14.4	17	0.8	5.6
MCM-10-08	10	11.6	12.4	15	0.8	9.6

* d1 measurement is measured with a plug gauge after fitting into a reference housing d2 (+0.005)



delivery available
time from stock



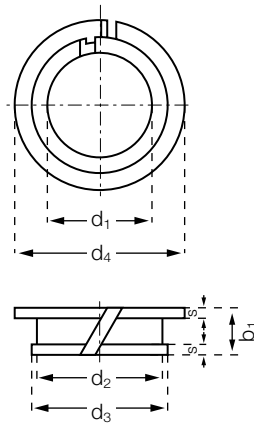
prices price list online
www.igus.eu/eu/clips



order part number
example MCM-06-015

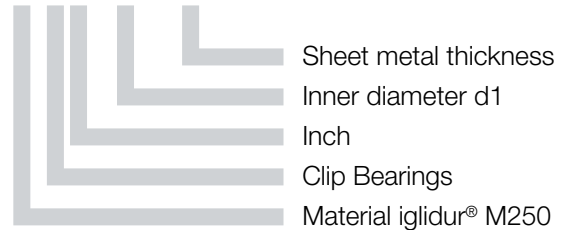
iglidur® Clip Bearings | Product Range | Inch

Clip Bearings



Order key

MCI-03-01



Material:

iglidur® M250 ► page 107

Dimensions [Inch]

Part number	d1 D11*	d2	d3	d4	s -0.10	b1 + 0.20
MCI-03-01	3/16	0.2343	1/4	5/16	0.032	0.1380
MCI-04-01	1/4	0.3125	11/32	7/16	0.032	0.1380
MCI-05-01	5/16	0.3750	13/32	1/2	0.032	0.1380
MCI-06-01	3/8	0.4375	15/32	9/16	0.032	0.1380
MCI-07-01	7/16	0.5000	17/32	5/8	0.032	0.1380
MCI-08-01	1/2	0.5625	19/32	11/16	0.032	0.1380
MCI-03-02	3/16	0.2343	1/4	5/16	0.032	0.2000
MCI-04-02	1/4	0.3125	11/32	7/16	0.032	0.2000
MCI-05-02	5/16	0.3750	13/32	1/2	0.032	0.2000
MCI-06-02	3/8	0.4375	15/32	9/16	0.032	0.2000
MCI-07-02	7/16	0.5000	17/32	5/8	0.032	0.2000
MCI-08-02	1/2	0.5625	19/32	11/16	0.032	0.2000

* d1 measurement is measured with a plug gauge after fitting into a reference housing d2 (+0.005)



delivery available
time from stock



prices price list online
www.igus.eu/eu/clips



order part number
example MCI-03-01

My Sketches

