

igidur® JVSM/JVFM – No Clearance and Pre-Tensioned Bearings



Clearance-free preloaded bearing

Fully clearance-free, even in unloaded state

Material: iglidur® J

Maintenance-free and predictable service life

igidur® JVSM/JVFM

Phone +49 - 22 03 - 96 49-145
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mm

Inch



iglidur® JVSM and JVFM bearings are free from clearance in unloaded state because of the pretension at the ends. The material iglidur® J is designed for the lowest coefficient of friction while running dry and for its low stick slip tendency.

iglidur® JVSM/JVFM

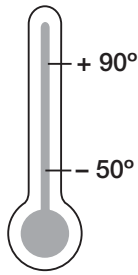
2 styles
> 10 dimensions
Ø 8–20 mm



Special properties:

- Clearance-free preloaded bearing
- Fully clearance-free, even in unloaded state
- Material: iglidur® J
- Maintenance-free and predictable service life

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Material Table

General properties	Unit	iglidur® J	Testing method
Density	g/cm ³	1,49	
Colour		Yellow	
Max. moisture absorption at 23 °C/50% r.F.	% weight	0,3	DIN 53495
Max. moisture absorption	% weight	1,3	
Coefficient of sliding friction, dynamic against steel	μ		0,08 - 0,18
p x v value, max. (dry)	MPa x m/s	0,34	
Mechanical properties			
Modulus of elasticity	MPa	2.400	DIN 53457
Tensile strength at 20 °C	MPa	73	DIN 53452
Compressive strength	MPa	60	
Max. recommended surface pressure (20°C)	MPa	35	
Shore D hardness		74	DIN 53505
Physical and thermal properties			
Max. long term operation temperature	°C	90	
Max. short term operation temperature	°C	120	
Min. operation temperature	°C	-50	
Thermal conductivity	W/m x K	0,25	ASTM C 177
Coefficient of thermal expansion (at 23 °C)	K ⁻¹ x 10 ⁻⁵	10	DIN 53752
Electrical properties			
Specific volume resistance	Ωcm	> 10 ¹³	DIN IEC 93
Surface resistance	Ω	> 10 ¹²	DIN 53482

iglus® GmbH
51147 Cologne



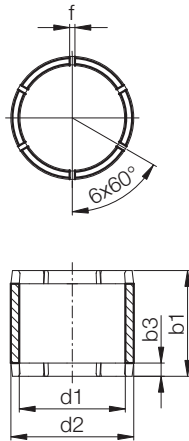
Material:
iglidur® J
▶ chapter 3



We welcome your request for a pre-tensioned bearing customised for your application.

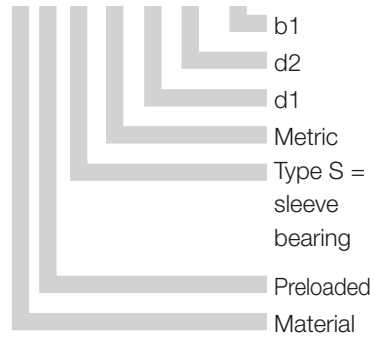
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Internet www.igus.de
E-mail info@igus.de



Data in mm

Structure – part no.
J V S M-0810-08

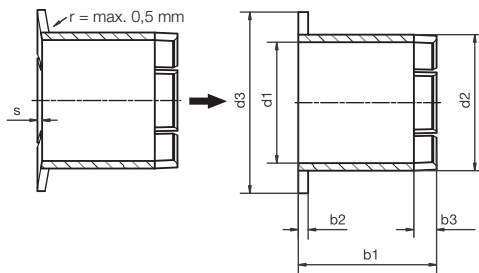


Dimensions [mm]

iglidur® JVSM

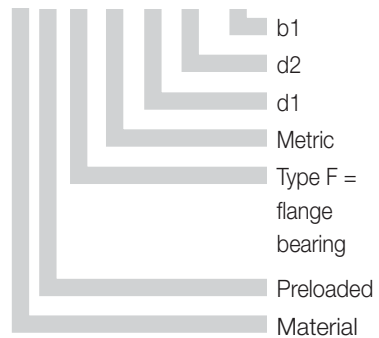
Part No.	d1	d1 Tolerance E10	d2	b1 h13	b3	f
JVSM-0608-06	6	+0,083 / +0,025	8	6	2,0	1
JVSM-0810-08	8	+0,083 / +0,025	10	8	2,0	1
JVSM-1012-10	10	+0,083 / +0,025	12	10	2,0	1
JVSM-1214-12	12	+0,102 / +0,032	14	12	2,0	1
JVSM-1416-14	14	+0,102 / +0,032	16	14	2,0	1
JVSM-1517-15	15	+0,102 / +0,032	17	15	2,5	1
JVSM-1820-18	18	+0,102 / +0,032	20	18	2,5	1
JVSM-2023-20	20	+0,124 / +0,040	23	20	2,5	1

d1 – Measured after pressfit in housing bore. d2 – Nominal dimension of H7 within the measurement plane



Data in mm

Structure – part no.
J V F M-0810-10



Dimensions [mm]

iglidur® JVFM

Part No.	d1	d1-Tolerance E10	d2	d3	b1 h13	b2	b3	s
JVFM-0810-10	8	+0,083 / +0,025	10	15	10	1	2,0	0,44
JVFM-1012-10	10	+0,083 / +0,025	12	18	10	1	2,0	0,53
JVFM-1214-12	12	+0,102 / +0,032	14	20	12	1	2,0	0,53
JVFM-1416-12	14	+0,102 / +0,032	16	22	12	1	2,0	0,53
JVFM-1517-15	15	+0,102 / +0,032	17	23	15	1	2,5	0,53
JVFM-1820-18	18	+0,102 / +0,032	20	26	18	1	2,5	0,53
JVFM-2023-20	20	+0,124 / +0,040	23	30	20	1,5	2,5	0,62

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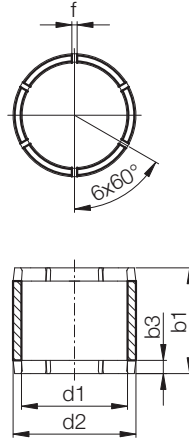
iglidur® JVSI

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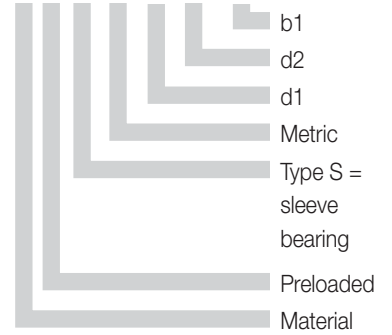
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33.4



Data in inches

Structure - part no.
J V S I-0810-08



Dimensions [inch]

iglidur® JVSI

Part No.	d1	d1-Tolerance		d2 h13	b1	b1 Tolerance
		Max.	Min.			
JVSI-0608-06	3/8	0,3773	0,3750	1/2	3/8	0,075
JVSI-0810-08	1/2	0,5040	0,5013	5/8	1/2	0,075
JVSI-1012-10	5/8	0,6297	0,6270	3/4	5/8	0,075
JVSI-1214-12	3/4	0,7541	0,7505	1 1/8	3/4	0,075
JVSI-1618-16	1	1,0041	1,0007	28,58	1	0,100

d1 - Measured after pressfit in housing bore. d2 - Nominal dimension of H7 within the measurement plane

Order example

Our price breaks are defined by the order quantity.

1- 9	25-49	100-199	500- 999	2500-4999
10-24	50-99	200-499	1000-2499	

For the current prices please visit the iglus®-Homepage www.igus.de/en

No minimum order quantities, no surcharges.



Type S



Type F