

igus[®]



iglide[®] R



iglide® Plain Bearings R - Technical Data

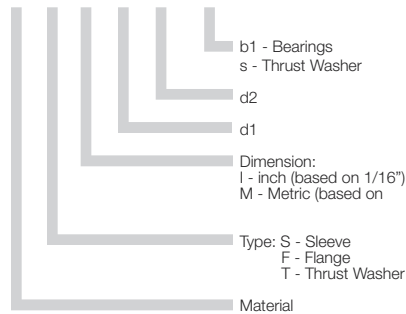
Product Range

- Standard Styles:
Sleeve, Flange and Thrust Washer
- Custom shapes and sizes available
- Inner diameters:
Inch Sizes from 3/16 - 2 in.
Metric sizes from 6 - 20 mm

Part Number Structure

Part Number Structure

R S I - 02 03-03



Permissible Surface Speeds

	Continuous fpm	Short Term fpm
Rotating	157	236
Oscillating	118	196
Linear	689	984

Usage Guidelines



- If high wear resistance at low load is required
- If low friction at dry operation is needed
- If a highly cost-effective bearing is desired
- If edge loads occur
- If you are looking for low water absorption
- If PTFE and silicone are prohibited in the application



- When high pressure loads occur
➤ iglide® G300
- When temperatures occur that are constantly greater than 194°F
➤ iglide® G300
➤ iglide® P
- When best wear resistance is required
➤ iglide® J



Visit www.igus.com
to use our online
expert system

Material Table

General Properties	Unit	iglide® R	Testing Method
Density	g/cm ³	1.39	
Color		Dark Red	
Max. moisture absorption at 73°F / 50% r.h.	% weight	0.2	DIN 53495
Max. moisture absorption	% weight	1.1	
Coefficient of friction, dynamic against steel	μ	0.08 - 0.26	
p x v value, max. (dry)	psi x fpm	8,700	

Mechanical Properties

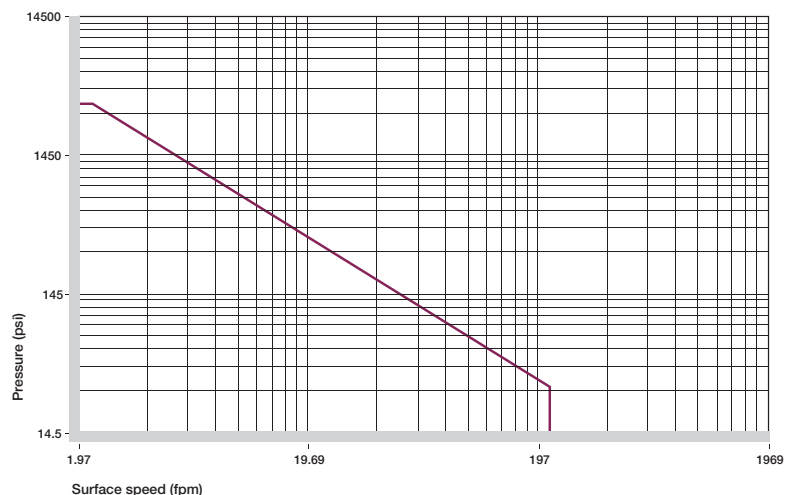
Modulus of elasticity	psi	282,800	DIN 53457
Tensile strength at 68°F	psi	10,150	DIN 53452
Compressive strength	psi	9,863	
Permissible static surface pressure (68°F)	psi	3,336	
Shore D-hardness		77	DIN 53505

Physical and Thermal Properties

Max. long-term application temperature	°F	194	
Max. application temperature, short-term	°F	230	
Min. application temperature	°F	-58	
Thermal conductivity	W/m x K	.25	ASTM C 177
Coefficient of thermal expansion	K ⁻¹ x 10 ⁻⁵	11	DIN 53752

Electrical Properties

Specific volume resistance	Ωcm	> 10 ¹²	DIN IEC 93
Surface resistance	Ω	> 10 ¹²	DIN 53482



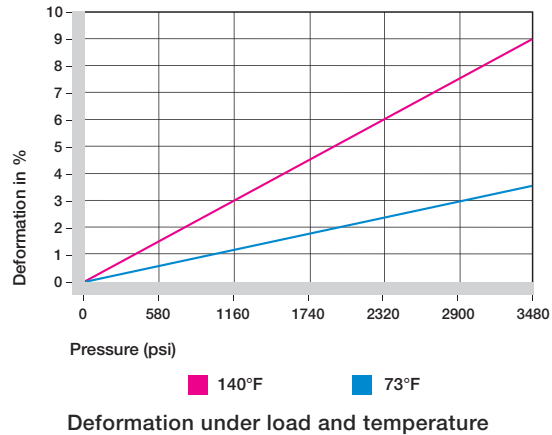
Permissible p x v value for iglide® R running dry against a steel shaft, at 68°F

In the development of iglide® R as a bearing material, high performance and a very low price were the top requirements. In particular, low coefficients of friction were needed at high speeds in the dry run. Plain bearings made of iglide® R are designed with support from a combination of solid lubricants. The iglide® R material achieves excellent low coefficients of friction while running dry, and it runs for the most part stick-slip free.

Compressive Strength

iglide® R plain bearings were developed mainly for low to average radial loads. The graph shows the elastic deformation of iglide® R for radial loads. At the maximum permissible load of 3335 psi, the deformation is approximately 3%. Plastic deformation is not detectable up to this value. However, it is also a result of the cycle time.

➤ Compressive Strength, Page 1.3



Permissible Surface Speeds

iglide® R plain bearings are used at high surface speeds. For linear movements, short-term speeds up to 32.8 ft/s are permissible. Please note that the given maximum values can only be achieved at the lowest pressure loads. These values show the speed at which friction causes a temperature increase to the continued use temperature limit.

➤ Surface Speed, Page 1.5
➤ p x v value, Page 1.6

	Continuous fpm	Short Term fpm
Rotating	157	236
Oscillating	118	196
Linear	689	984

Maximum surface speeds

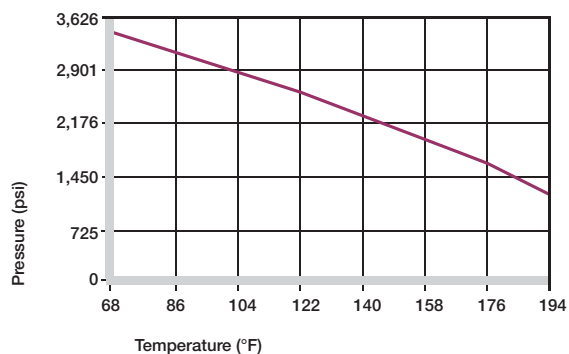
Temperatures

The maximum permissible short-term temperature is 230°F, and the long-term application temperature is 194°F. With increasing temperatures, the compression resistance of iglide® R plain bearings decreases. The ambient temperatures prevalent in the bearing system also have an effect on the bearing wear. With increasing temperatures, the wear increases.

➤ Application Temperatures, Page 1.7

iglide® R	Application Temperature
Minimum	- 58°F
Max. long-term	+ 194°F
Max. short-term	+ 230°F
Additional axial securing	+122°F

Temperature limits for iglide® R



Recommended maximum permissible static surface pressure of iglide® R as a result of the temperature



iglide® Plain Bearings R - Technical Data

iglide® R

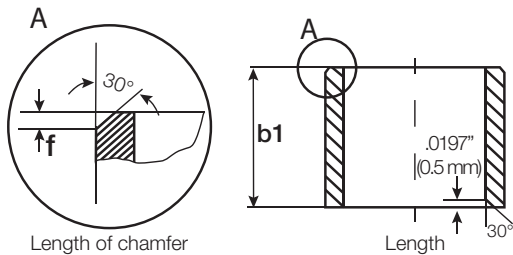
Telephone 1-800-521-2747
Fax 1-401-438-7270

Internet: <http://www.igus.com>
email: sales@igus.com
QuickSpec: <http://www.igus.com/iglide-quickspec>

Installation Tolerances

iglide® R plain bearings are oversized before being pressfit. After proper installation into a recommended housing bore, the inner diameter adjusts to meet our specified tolerances. Please adhere to the catalog specifications for housing bore and recommended shaft sizes. This will help to ensure optimal performance of iglide® plain bearings.

- See Tolerance Table, Page 1.14
- Testing Methods, Page 1.15



For Inch Size Bearings

Length Tolerance (b1)		Length of Chamfer (f)
Length (inches)	Tolerance (h13) (inches)	Based on d1
0.1181 to 0.2362	-0.0000 / -0.0071	f = .012 → d ₁ .040" - .236"
0.2362 to 0.3937	-0.0000 / -0.0087	f = .019 → d ₁ > .236" - .472"
0.3937 to 0.7086	-0.0000 / -0.0106	f = .031 → d ₁ > .472" - 1.18"
0.7086 to 1.1811	-0.0000 / -0.0130	f = .047 → d ₁ > 1.18"
1.1811 to 1.9685	-0.0000 / -0.0154	
1.9685 to 3.1496	-0.0000 / -0.0181	

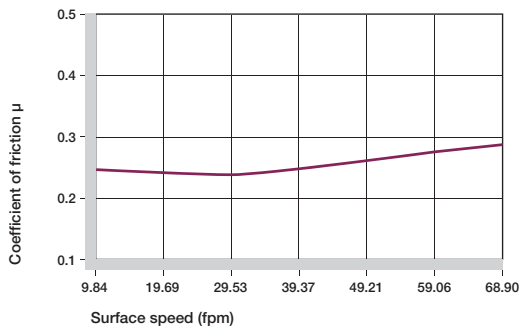
For Metric Size Bearings

Length Tolerance (b1)		Length of Chamfer (f)
Length (mm)	Tolerance (h13) (μm)	Based on d1
1 to 3	-0 / -140	f = 0.3 → d ₁ 1 - 6 mm
> 3 to 6	-0 / -180	f = 0.5 → d ₁ > 6 - 12 mm
> 6 to 10	-0 / -220	f = 0.8 → d ₁ > 12 - 30 mm
> 10 to 18	-0 / -270	f = 1.2 → d ₁ > 30 mm
> 18 to 30	-0 / -330	
> 30 to 50	-0 / -390	
> 50 to 80	-0 / -460	

Friction and Wear

Similar to wear resistance, the coefficient of friction decreases with increasing load. In contrast, higher speeds have little effect on the coefficient of friction of iglide® R plain bearings. iglide® R is especially suited for applications in which high p x v values are predominantly caused by the high speed, and not as much by the surface pressure. The coefficient of friction of iglide® R plain bearings depends greatly on the shaft roughness. In the roughness range between 16-24 rms, the coefficient of friction reaches its optimal value. For values above and below this range, the friction of the bearing system increases quickly. Other shaft materials can be used without a large loss. Even with non metallic shafts, good results were obtained in tests. Ceramic and plastic shafts can also be used.

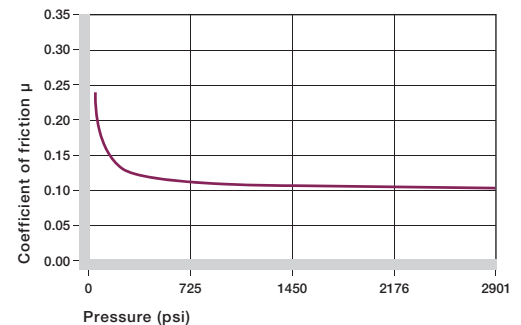
- Coefficients of Friction and Surfaces, Page 1.8
- Wear Resistance, Page 1.9



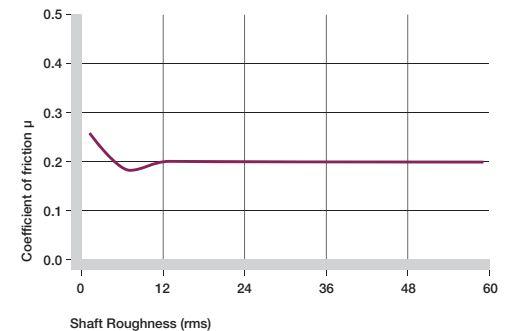
Coefficient of friction of iglide® R as a result of the surface speed; p = 108 psi

iglide® R	Coefficient of Friction
Dry	0.06 - 0.25
Grease	0.09
Oil	0.04
Water	0.04

Coefficients of friction iglide® R against steel (Shaft finish = 40 rms, 50 HRC)



Coefficient of friction of iglide® R as a result of the load, v = 1.97 fpm



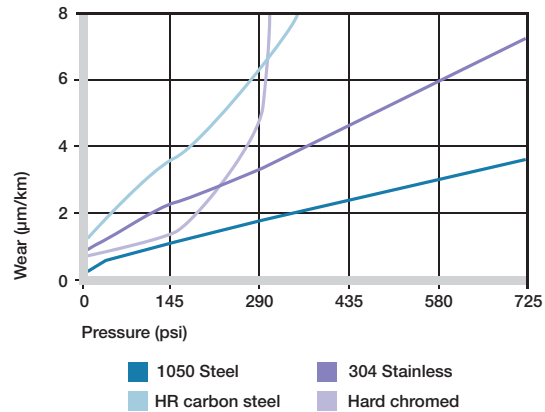
Coefficient of friction for iglide® R as a result of the shaft surface (shaft Cold Rolled Steel)

Shaft Materials

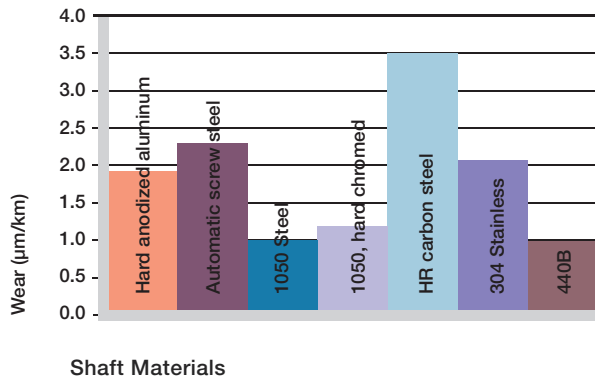
The graphs show results of testing different shaft materials with plain bearings made of iglide® R.

In the low load range, the 440B, hard anodized aluminum, 1050 case hardened steel, free cutting and hard chromed shafts are the most suitable shafting partners for iglide® R plain bearings. At higher loads, the hardened shafts such as 440B and 1050 case hardened steel are recommended.

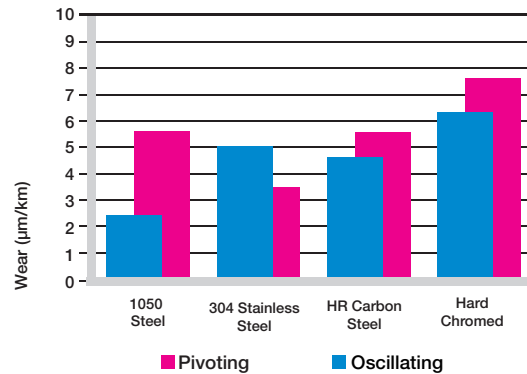
➤ Shaft Materials, Page 1.11



Wear of iglide® R with different shaft materials in rotational operation



Wear for iglide® R, rotating with different shaft materials, p = 108 psi, v = 98 fpm



Wear for oscillating and rotating applications with different shaft materials at p = 290 psi

Chemical & Moisture Resistance

iglide® R plain bearings are resistant to very weak acids, diluted lyes, fuels and all types of lubricants.

The moisture absorption of iglide® R plain bearings is approximately 0.2% in standard atmosphere. The saturation limit in water is 1%. This low moisture absorption allows for design in wet environments.

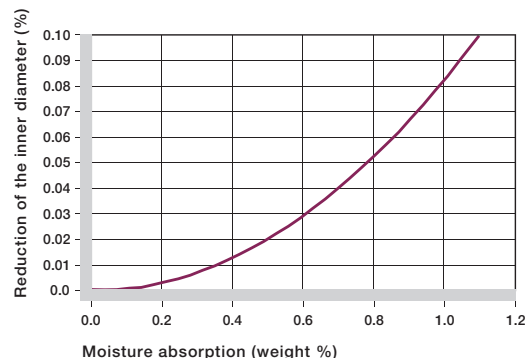
➤ Chemical Table, Page 1.16

Medium	Resistance
Alcohol	+ to 0
Hydrocarbon, chlorinated	+
Greases, oils without additives	+
Fuels	+
Weak acids	0 to -
Strong acids	-
Weak alkaline	+
Strong alkaline	+ to 0

+ resistant, 0 conditionally resistant, - not resistant

Chemical resistance of iglide® R

All data given concerns the chemical resistance at room temperature (68°F). For a complete list, see page 1.16



Effect of moisture absorption on iglide® R plain bearings



iglide® Plain Bearings R - Technical Data

iglide® R

Telephone 1-800-521-2747
Fax 1-401-438-7270

Internet: <http://www.igus.com>
email: sales@igus.com
QuickSpec: <http://www.igus.com/iglide-quickspec>

3.6

Radiation Resistance

Plain bearings made from iglide® R are resistant to radiation up to an intensity of 3×10^2 Gy.

UV Resistance

iglide® R plain bearings are resistant to UV radiation, but the tribological properties are lessened with permanent exposure.

Vacuum

In a vacuum environment, iglide® R plain bearings release gases. It is only possible to use iglide® R in vacuum to a limited extent.

Electrical Properties

iglide® R plain bearings are electrically insulating

iglide® R

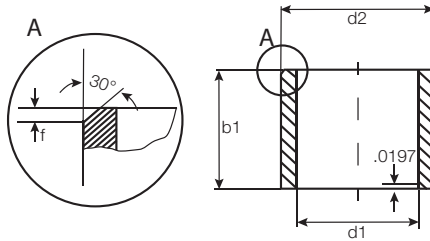
Specific volume resistance	$> 10^{12} \Omega\text{cm}$
----------------------------	-----------------------------

Surface resistance	$> 10^{12} \Omega$
--------------------	--------------------

Electrical properties of iglide® R

iglide® Plain Bearings R - Sleeve Bearing, Inch

iglus®



For tolerance values
please refer to page 3.4

Part Number	d1	d2	b1	I.D. After Pressfit		Housing Bore		Shaft Size	
				Max.	Min.	Max.	Min.	Max.	Min.
RSI-0305-03	3/16	5/16	3/16	.1915	.1886	.3128	.3122	.1874	.1862
RSI-0305-04	3/16	5/16	1/4	.1915	.1886	.3128	.3122	.1874	.1862
RSI-0305-06	3/16	5/16	3/8	.1915	.1886	.3128	.3122	.1874	.1862
RSI-0305-08	3/16	5/16	1/2	.1915	.1886	.3128	.3122	.1874	.1862
RSI-0406-04	1/4	3/8	1/4	.2551	.2516	.3766	.3760	.2500	.2486
RSI-0406-05	1/4	3/8	5/16	.2551	.2516	.3766	.3760	.2500	.2486
RSI-0406-06	1/4	3/8	3/8	.2551	.2516	.3766	.3760	.2500	.2486
RSI-0406-10	1/4	3/8	5/8	.2551	.2516	.3766	.3760	.2500	.2486
RSI-0406-12	1/4	3/8	3/4	.2551	.2516	.3766	.3760	.2500	.2486
RSI-0507-04	5/16	7/16	1/4	.3177	.3142	.4393	.4386	.3126	.3112
RSI-0507-05	5/16	7/16	5/16	.3177	.3142	.4393	.4386	.3126	.3112
RSI-0507-06	5/16	7/16	3/8	.3177	.3142	.4393	.4386	.3126	.3112
RSI-0507-08	5/16	7/16	1/2	.3177	.3142	.4393	.4386	.3126	.3112
RSI-0507-10	5/16	7/16	5/8	.3177	.3142	.4393	.4386	.3126	.3112
RSI-0507-12	5/16	7/16	3/4	.3177	.3142	.4393	.4386	.3126	.3112
RSI-0608-04	3/8	1/2	1/4	.3799	.3764	.5017	.5010	.3748	.3734
RSI-0608-06	3/8	1/2	3/8	.3799	.3764	.5017	.5010	.3748	.3734
RSI-0608-08	3/8	1/2	1/2	.3799	.3764	.5017	.5010	.3748	.3734
RSI-0608-10	3/8	1/2	5/8	.3799	.3764	.5017	.5010	.3748	.3734
RSI-0608-12	3/8	1/2	3/4	.3799	.3764	.5017	.5010	.3748	.3734
RSI-0608-16	3/8	1/2	1	.3799	.3764	.5017	.5010	.3748	.3734
RSI-0810-06	1/2	5/8	3/8	.5063	.5020	.6257	.6250	.5000	.4983
RSI-0810-08	1/2	5/8	1/2	.5063	.5020	.6257	.6250	.5000	.4983
RSI-0810-10	1/2	5/8	5/8	.5063	.5020	.6257	.6250	.5000	.4983
RSI-0810-12	1/2	5/8	3/4	.5063	.5020	.6257	.6250	.5000	.4983
RSI-0810-16	1/2	5/8	1	.5063	.5020	.6257	.6250	.5000	.4983
RSI-1012-06	5/8	3/4	3/8	.6311	.6268	.7508	.7500	.6248	.6231
RSI-1012-08	5/8	3/4	1/2	.6311	.6268	.7508	.7500	.6248	.6231
RSI-1012-10	5/8	3/4	5/8	.6311	.6268	.7508	.7500	.6248	.6231
RSI-1012-12	5/8	3/4	3/4	.6311	.6268	.7508	.7500	.6248	.6231
RSI-1012-16	5/8	3/4	1	.6311	.6268	.7508	.7500	.6248	.6231
RSI-1214-06	3/4	7/8	3/8	.7577	.7526	.8756	.8748	.7500	.7480
RLCSI-1214-16	3/4	7/8	1	.7549	.7516	.8756	.8748	.7500	.7480
RSI-1216-12	3/4	1	3/4	.7577	.7526	1.0008	1.0000	.7500	.7480
RSI-1216-16	3/4	1	1	.7577	.7526	1.0008	1.0000	.7500	.7480
RSI-1216-20	3/4	1	1 1/4	.7577	.7526	1.0008	1.0000	.7500	.7480
RSI-1216-24	3/4	1	1 1/2	.7577	.7526	1.0008	1.0000	.7500	.7480
RSI-1416-12	7/8	1	3/4	.8799	.8766	1.0008	1.0000	.8750	.8730
RSI-1416-16	7/8	1	1	.8799	.8766	1.0008	1.0000	.8750	.8730
RSI-1416-24	7/8	1	1 1/2	.8799	.8766	1.0008	1.0000	.8750	.8730

PDF: www.igus.com/iglide-pdfs
CAD: www.igus.com/iglide-CAD
RoHS info: www.igus.com/RoHS



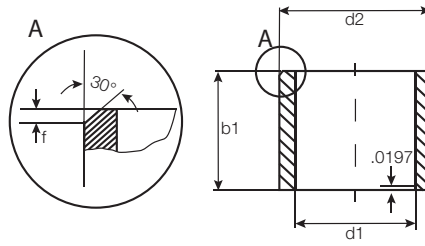


iglide® Plain Bearings R - Sleeve Bearing, Inch

iglide® R
Sleeve - Inch

Telephone 1-800-521-2747
Fax 1-401-438-7270

Internet: <http://www.igus.com>
email: sales@igus.com
QuickSpec: <http://www.igus.com/iglide-quickspec>



For tolerance values
please refer to page 3.4

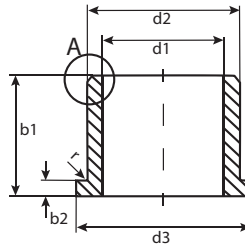
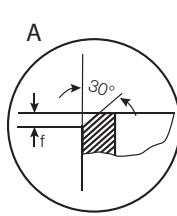
Part Number	d1	d2	b1	I.D. After Pressfit		Housing Bore		Shaft Size	
				Max.	Min.	Max.	Min.	Max.	Min.
RSI-1418-10	7/8	1 1/8	5/8	.8825	.8774	1.1295	1.1287	.8748	.8728
RSI-1418-12	7/8	1 1/8	3/4	.8825	.8774	1.1295	1.1287	.8748	.8728
RSI-1418-16	7/8	1 1/8	1	.8825	.8774	1.1295	1.1287	.8748	.8728
RSI-1418-24	7/8	1 1/8	1 1/2	.8825	.8774	1.1295	1.1287	.8748	.8728
RSI-1618-12	1	1 1/8	3/4	1.0077	1.0026	1.1295	1.1287	1.0000	.9980
RSI-1618-22	1	1 1/8	1 3/8	1.0077	1.0026	1.1295	1.1287	1.0000	.9980
RSI-1620-10	1	1 1/4	5/8	1.0077	1.0026	1.2510	1.2500	1.0000	.9980
RSI-1620-12	1	1 1/4	3/4	1.0077	1.0026	1.2510	1.2500	1.0000	.9980
RSI-1620-16	1	1 1/4	1	1.0077	1.0026	1.2510	1.2500	1.0000	.9980
RSI-1620-20	1	1 1/4	1 1/4	1.0077	1.0026	1.2510	1.2500	1.0000	.9980
RSI-1620-24	1	1 1/4	1 1/2	1.0077	1.0026	1.2510	1.2500	1.0000	.9980
RSI-2024-16	1 1/4	1 1/2	1	1.2594	1.2531	1.5010	1.5000	1.2500	1.2476
RSI-3236-16	2	2 1/4	1	2.0114	2.0039	2.2512	2.2500	2.0000	1.9971
RSI-3236-32	2	2 1/4	2	2.0114	2.0039	2.2512	2.2500	2.0000	1.9971

Part number RLCSI indicates a low clearance bearing

iglide® Plain Bearings

R - Flange Bearing, Inch

iglus®



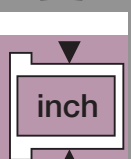
For tolerance values
please refer to page 3.4

$r = \max. .0197$

iglide® R
Flange - Inch

Part Number	d1	d2	b1	d3	b2	I.D. After Pressfit		Housing Bore		Shaft Size	
						Max.	Min.	Max.	Min.	Max.	Min.
RFI-0305-03	3/16	5/16	3/16	.370	.047	.1915	.1886	.3131	.3125	.1874	.1862
RFI-0305-04	3/16	5/16	1/4	.370	.047	.1915	.1886	.3131	.3125	.1874	.1862
RFI-0305-06	3/16	5/16	3/8	.370	.047	.1915	.1886	.3131	.3125	.1874	.1862
RFI-0305-08	3/16	5/16	1/2	.370	.047	.1915	.1886	.3131	.3125	.1874	.1862
RFI-0406-04	1/4	3/8	1/4	.560	.047	.2551	.2516	.3756	.3750	.2500	.2486
RFI-0406-05	1/4	3/8	5/16	.560	.047	.2551	.2516	.3756	.3750	.2500	.2486
RFI-0406-06	1/4	3/8	3/8	.560	.047	.2551	.2516	.3756	.3750	.2500	.2486
RFI-0406-08	1/4	3/8	1/2	.560	.047	.2551	.2516	.3756	.3750	.2500	.2486
RFI-0406-10	1/4	3/8	5/8	.560	.047	.2551	.2516	.3756	.3750	.2500	.2486
RFI-0406-12	1/4	3/8	3/4	.560	.047	.2551	.2516	.3756	.3750	.2500	.2486
RFI-0507-04	5/16	7/16	1/4	.560	.062	.3177	.3142	.4381	.4374	.3126	.3112
RFI-0507-05	5/16	7/16	5/16	.560	.062	.3177	.3142	.4381	.4374	.3126	.3112
RFI-0507-06	5/16	7/16	3/8	.560	.062	.3177	.3142	.4381	.4374	.3126	.3112
RFI-0507-08	5/16	7/16	1/2	.560	.062	.3177	.3142	.4381	.4374	.3126	.3112
RFI-0507-10	5/16	7/16	5/8	.560	.062	.3177	.3142	.4381	.4374	.3126	.3112
RFI-0507-12	5/16	7/16	3/4	.560	.062	.3177	.3142	.4381	.4374	.3126	.3112
RFI-0607-04	3/8	15/32	1/4	.687	.046	.3801	.3766	.4694	.4687	.3750	.3736
RFI-0608-04	3/8	1/2	1/4	.625	.062	.3801	.3766	.5017	.5010	.3750	.3736
RFI-0608-06	3/8	1/2	3/8	.625	.062	.3801	.3766	.5017	.5010	.3750	.3736
RFI-0608-08	3/8	1/2	1/2	.625	.062	.3801	.3766	.5017	.5010	.3750	.3736
RFI-0608-10	3/8	1/2	5/8	.625	.062	.3801	.3766	.5017	.5010	.3750	.3736
RFI-0608-12	3/8	1/2	3/4	.625	.062	.3801	.3766	.5017	.5010	.3750	.3736
RFI-0608-16	3/8	1/2	1	.625	.062	.3801	.3766	.5017	.5010	.3750	.3736
RFI-0708-04	7/16	17/32	1/4	.750	.046	.4429	.4386	.5316	.5309	.4366	.4349
RFI-0708-08	7/16	17/32	1/2	.750	.046	.4429	.4386	.5316	.5309	.4366	.4349
RFI-0809-03	1/2	19/32	3/16	.875	.046	.5063	.5020	.5944	.5937	.4990	.4980
RFI-0809-04	1/2	19/32	1/4	.875	.046	.5063	.5020	.5944	.5937	.4990	.4980
RFI-0809-08	1/2	19/32	1/2	.875	.046	.5063	.5020	.5944	.5937	.4990	.4980
RFI-0810-04	1/2	5/8	1/4	.875	.062	.5063	.5020	.6257	.6250	.5000	.4983
RFI-0810-06	1/2	5/8	3/8	.875	.062	.5063	.5020	.6257	.6250	.5000	.4983
RFI-0810-08	1/2	5/8	1/2	.875	.062	.5063	.5020	.6257	.6250	.5000	.4983
RFI-0810-10	1/2	5/8	5/8	.875	.062	.5063	.5020	.6257	.6250	.5000	.4983
RFI-0810-12	1/2	5/8	3/4	.875	.062	.5063	.5020	.6257	.6250	.5000	.4983
RFI-0810-16	1/2	5/8	1	.875	.062	.5063	.5020	.6257	.6250	.5000	.4983
RFI-0812-0210	1/2	3/4	7/32	1.000	.125	.5047	.5020	.7508	.7500	.5000	.4983
RFI-0812-08	1/2	3/4	1/2	1.000	.125	.5047	.5020	.7508	.7500	.5000	.4983
RFI-0812-12	1/2	3/4	3/4	1.000	.125	.5047	.5020	.7508	.7500	.5000	.4983
RFI-0812-16	1/2	3/4	1	1.000	.125	.5047	.5020	.7508	.7500	.5000	.4983

PDF: www.igus.com/iglide-pdfs
CAD: www.igus.com/iglide-CAD
RoHS info: www.igus.com/RoHS



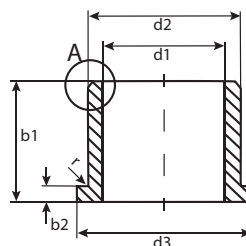
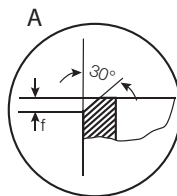


iglide® Plain Bearings R - Flange Bearing, Inch

iglide® R
Flange - Inch

Telephone 1-800-521-2747
Fax 1-401-438-7270

Internet: <http://www.igus.com>
email: sales@igus.com
QuickSpec: <http://www.igus.com/iglide-quickspec>



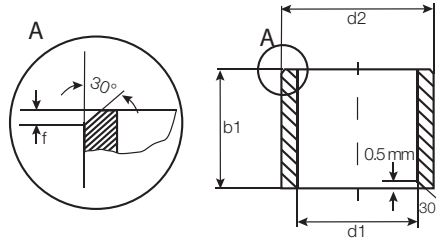
For tolerance values
please refer to page 3.4

r = max. .0197

Part Number	d1	d2	b1	d3	b2	I.D. After Pressfit		Housing Bore		Shaft Size	
						Max.	Min.	Max.	Min.	Max.	Min.
RFI-1012-06	5/8	3/4	3/8	1.000	.062	.6313	.6270	.7508	.7500	.6250	.6233
RFI-1012-08	5/8	3/4	1/2	1.000	.062	.6313	.6270	.7508	.7500	.6250	.6233
RFI-1012-10	5/8	3/4	5/8	1.000	.062	.6313	.6270	.7508	.7500	.6250	.6233
RFI-1012-12	5/8	3/4	3/4	1.000	.062	.6313	.6270	.7508	.7500	.6250	.6233
RFI-1012-16	5/8	3/4	1	1.000	.062	.6313	.6270	.7508	.7500	.6250	.6233
RLCFI-1214-07	3/4	7/8	7/16	1.125	.062	.7549	.7516	.8756	.8748	.7500	.7480
RLCFI-1214-08	3/4	7/8	7/16	1.125	.062	.7549	.7516	.8756	.8748	.7500	.7480
RLCFI-1214-12	3/4	7/8	7/16	1.125	.062	.7549	.7516	.8756	.8748	.7500	.7480
RLCFI-1214-16	3/4	7/8	7/16	1.125	.062	.7549	.7516	.8756	.8748	.7500	.7480
RFI-1216-08	3/4	1	1/2	1.250	.156	.7577	.7526	1.0008	1.0000	.7500	.7480
RFI-1216-12	3/4	1	3/4	1.250	.156	.7577	.7526	1.0008	1.0000	.7500	.7480
RFI-1216-16	3/4	1	1	1.250	.156	.7577	.7526	1.0008	1.0000	.7500	.7480
RFI-1216-20	3/4	1	1 1/4	1.250	.156	.7577	.7526	1.0008	1.0000	.7500	.7480
RFI-1216-24	3/4	1	1 1/2	1.250	.156	.7577	.7526	1.0008	1.0000	.7500	.7480
RLCFI-1416-07	7/8	1	7/16	1.250	.062	.8789	.8756	1.0005	.9997	.8740	.8720
RLCFI-1416-12	7/8	1	7/16	1.250	.062	.8789	.8756	1.0005	.9997	.8740	.8720
RLCFI-1416-20	7/8	1	7/16	1.250	.062	.8789	.8756	1.0005	.9997	.8740	.8720
RFI-1418-10	7/8	1 1/8	5/8	1.375	.156	.8825	.8774	1.1258	1.1250	.8748	.8728
RFI-1418-12	7/8	1 1/8	3/4	1.375	.156	.8825	.8774	1.1258	1.1250	.8748	.8728
RFI-1418-16	7/8	1 1/8	1	1.375	.156	.8825	.8774	1.1258	1.1250	.8748	.8728
RFI-1418-24	7/8	1 1/8	1 1/2	1.375	.156	.8825	.8774	1.1258	1.1250	.8748	.8728
RFI-1618-08	1	1 1/8	1/2	1.375	.062	1.0077	1.0026	1.1258	1.1250	1.0000	.9980
RFI-1618-12	1	1 1/8	3/4	1.375	.062	1.0077	1.0026	1.1258	1.1250	1.0000	.9980
RFI-1618-20	1	1 1/8	1 1/4	1.375	.062	1.0077	1.0026	1.1258	1.1250	1.0000	.9980
RFI-1620-10	1	1 1/4	5/8	1.500	.188	1.0077	1.0026	1.2510	1.2500	1.0000	.9980
RFI-1620-12	1	1 1/4	3/4	1.500	.188	1.0077	1.0026	1.2510	1.2500	1.0000	.9980
RFI-1620-16	1	1 1/4	1	1.500	.188	1.0077	1.0026	1.2510	1.2500	1.0000	.9980
RFI-1620-20	1	1 1/4	1 1/4	1.500	.188	1.0077	1.0026	1.2510	1.2500	1.0000	.9980
RFI-1620-24	1	1 1/4	1 1/2	1.500	.188	1.0077	1.0026	1.2510	1.2500	1.0000	.9980
RLCFI-2022-09	1 1/4	1 13/32	9/16	1.687	.078	1.2547	1.2508	1.4108	1.4098	1.2488	1.2464
RFI-2024-16	1 1/4	1 1/2	1	1.750	.200	1.2594	1.2531	1.5049	1.5039	1.2500	1.2476
RFI-2428-12	1 1/2	1 3/4	3/4	2.000	.125	1.5094	1.5031	1.7585	1.7575	1.5000	1.4976
RFI-3236-12	2	2 1/4	3/4	2.500	.125	2.0114	2.0039	2.2591	2.2579	2.0000	1.9971
RFI-3236-24	2	2 1/4	1 1/2	2.500	.125	2.0114	2.0039	2.2591	2.2579	2.0000	1.9971
RFI-3236-32	2	2 1/4	2	2.500	.125	2.0114	2.0039	2.2591	2.2579	2.0000	1.9971

Part number RLCFI indicates a low clearance bearing

iglide® Plain Bearings R - Sleeve Bearing, Inch

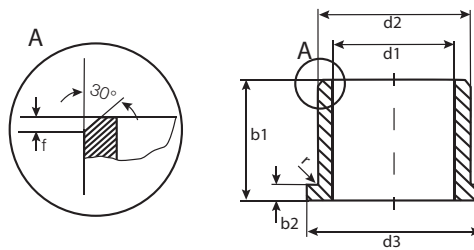


For tolerance values
please refer to page 3.4

Dimensions according to ISO 3547-1 and special dimensions

Part Number	d1		d2	b1	I.D. After Pressfit		Housing Bore		Shaft Size	
	After Pressfit in Ø H7				Max.	Min.	Max.	Min.	Max.	Min.
RSM-0506-05	5.0	+0.020 +0.068	6.0	5.0	5.068	5.020	6.012	6.000	5.000	4.970
RSM-0506-07	5.0	+0.020 +0.068	6.0	7.0	5.068	5.020	6.012	6.000	5.000	4.970
RSM-0608-06	6.0	+0.020 +0.068	8.0	6.0	6.068	6.020	8.015	8.000	6.000	5.970
RSM-0610-08	6.0	+0.020 +0.068	10.0	8.0	6.068	6.020	10.015	10.000	6.000	5.970
RSM-0810-10	8.0	+0.025 +0.083	10.0	10.0	8.083	8.025	10.015	10.000	8.000	7.964
RSM-1012-05	10.0	+0.025 +0.083	12.0	5.0	10.083	10.025	12.018	12.000	10.000	9.964
RSM-1012-10	10.0	+0.025 +0.083	12.0	10.0	10.083	10.025	12.018	12.000	10.000	9.964
RSM-1012-15	10.0	+0.025 +0.083	12.0	15.0	10.083	10.025	12.018	12.000	10.000	9.964
RSM-1214-12	12.0	+0.032 +0.102	14.0	12.0	12.102	12.032	14.018	14.000	12.000	11.957
RSM-1416-10	14.0	+0.032 +0.102	16.0	10.0	14.102	14.032	16.018	16.000	14.000	13.957
RSM-1416-15	14.0	+0.032 +0.102	16.0	15.0	14.102	14.032	16.018	16.000	14.000	13.957
RSM-1618-15	16.0	+0.032 +0.102	18.0	15.0	16.102	16.032	18.018	18.000	16.000	15.957
RSM-1820-25	18.0	+0.032 +0.102	20.0	25.0	18.102	18.032	20.021	20.000	18.000	17.957
RSM-2023-15	20.0	+0.040 +0.124	23.0	15.0	20.124	20.040	23.021	23.000	20.000	19.948
RSM-2023-20	20.0	+0.040 +0.124	23.0	20.0	20.124	20.040	23.021	23.000	20.000	19.948
RSM-3034-25	30.0	+0.040 +0.124	34.0	25.0	30.124	30.040	34.025	34.000	30.000	29.948

iglide® Plain Bearings R - Flange Bearing, MM



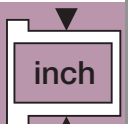
For tolerance values
please refer to page 3.4

r = max. 0.5

Dimensions according to ISO 3547-1 and special dimensions

Part Number	d1 ¹⁾		d2	b1	d3	b2	I.D. After Pressfit		Housing Bore		Shaft Size	
	After Pressfit in Ø H7						Max.	Min.	Max.	Min.	Max.	Min.
RFM-0608-06	6.0	+0.020 +0.068	8.0	6.0	12.0	1.0	6.068	6.020	8.015	8.000	6.000	5.970
RFM-0810-05	8.0	+0.025 +0.083	10.0	5.0	15.0	1.0	8.083	8.025	10.015	10.000	8.000	7.964
RFM-0810-10	8.0	+0.025 +0.083	10.0	10.0	15.0	1.0	8.083	8.025	10.015	10.000	8.000	7.964
RFM-1012-09	10.0	+0.025 +0.083	12.0	9.0	18.0	1.0	10.083	10.025	12.018	12.000	10.000	9.964
RFM-1012-10	10.0	+0.025 +0.083	12.0	10.0	18.0	1.0	10.083	10.025	12.018	12.000	10.000	9.964
RFM-1012-18	10.0	+0.025 +0.083	12.0	18.0	18.0	1.0	10.083	10.025	12.018	12.000	10.000	9.964
RFM-1214-12	12.0	+0.032 +0.102	14.0	12.0	20.0	1.0	12.102	12.032	14.018	14.000	12.000	11.957
RFM-1416-17	14.0	+0.032 +0.102	16.0	17.0	22.0	1.0	14.102	14.032	16.018	16.000	14.000	13.957
RFM-1618-17	16.0	+0.032 +0.102	18.0	17.0	24.0	1.0	16.102	16.032	18.018	18.000	16.000	15.957
RFM-1622-12	16.0	+0.032 +0.102	22.0	12.0	24.0	3.0	16.102	16.032	22.021	22.000	16.000	15.957
RFM-2023-21	20.0	+0.040 +0.124	23.0	21.0	30.0	1.5	20.124	20.040	23.021	23.000	20.000	19.948

PDF: www.igus.com/iglide-pdfs
CAD: www.igus.com/iglide-CAD
RoHS info: www.igus.com/RoHS





iglide® Plain Bearings R - Notes

iglide® R

Telephone 1-800-521-2747
Fax 1-401-438-7270

Internet: <http://www.igus.com>
email: sales@igus.com
QuickSpec: <http://www.igus.com/iglide-quickspec>