



Radial Insert Ball Bearings Housed Bearing Units

Technical Product Information TPI 110



This technical publication has been produced with a great deal of care and attention and all data have been checked for their accuracy. However, no liability can be assumed for any incorrect or incomplete data.



Product pictures are for illustrative purposes only and must not be used for design work.

Designs must only be prepared in accordance with the technical information, dimension tables and dimension drawings in this edition. In case of doubt, please consult the INA engineering service.

Due to constant development of the product range, we reserve the right to make modifications.

The sales and delivery conditions in force are those which form the basis of the invoices and contracts.

Produced by:

INA Bearing Company Ltd
Forge Lane, Minworth
Sutton Coldfield
West Midlands · B76 1AP

www.ina.co.uk

© by INA · 2003, October

All rights reserved.

Reproduction in whole or in part
without our authorization is prohibited.

Printed in Germany by:

Frankendruck GmbH, 90025 Nürnberg

Introduction

To the consumer of bearings the name INA has always been closely linked with quality, innovation, and the development of new bearing products. In keeping with this trend INA Canada has for several years been producing cast iron bearing housings with superior surface coating and greater strength than those previously available.

The housings are manufactured at INA's Oakville, Ontario facility.

This brochure provides information on INA's most popular sizes and styles of mounted unit bearings.

In addition to these products INA manufactures an extensive range of housings and ball bearings. Examples of these items are shown on page 24–26 of this brochure. Specifications for these products are provided by the *INA catalogue 520*.

Due to continuous bearing developments, INA reserves the right to introduce design changes and improvements at any time.

All pages of this catalogue have been carefully checked, however, INA will not assume responsibility for possible errors.

INA Bearing Company Ltd
Forge Lane, Minworth
Sutton Coldfield
West Midlands · B76 1AP

Technical Data

This brochure provides basic dimensional and technical data pertaining to INA's housing and insert bearings.

If detailed information is required for unique applications, it can be obtained from the *INA catalogue 520* or by contacting the INA Engineering Service.

Product Description

- Cast iron housing with ball bearing.
- Spherical interface between bearing and housing accommodates static misalignment.
- Relubricable through housing.

Housing Features

- Standard material is grey cast iron as per ASTM A48 class 30 or equivalent (ductile iron available on request subject to minimum quantity).
- The housings for the bearing units shown in this brochure are made in Canada. Additional sizes to follow. These housings have a durable powder coat finish. Green is the standard colour.

Bearing Features

- Nominal inch and metric shaft sizes.
- Fastened to shaft by eccentric locking collar or set screw, other locking devices subject to availability, see INA catalogue 520.
- C3 clearance.
- Supplied with initial grease filling, lithium base type.
- Plastic cage, steel on request for high temperature applications.
- Variety of seal types to suit application. All types are typically of a three piece construction with a rubber sealing lip sandwiched between two pieces of zinc plated steel. The steel components protect the rubber against abrasive media and insure that the seal assembly is positively locked into the outer ring.

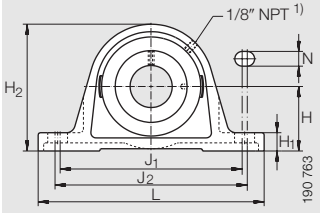
Shaft Fits/Limiting Speeds

For speeds up to the values listed in the dimension tables, the shaft should correspond to ISO tolerance limit h9. For higher speeds, shaft tolerance h5 is recommended and the INA Engineering Service should be contacted.

Shaft size mm	10 Including 18	18 Including 30	30 Including 18	50 Including 80
Tolerance h9	0 -43	0 -52	0 -62	0 -74
Tolerance h5	0 -8	0 -9	0 -11	0 -13

Values in μm ($1\ \mu\text{m} = 0.001\ \text{mm}$).

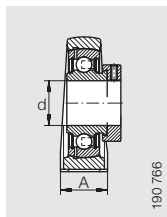
Pillow Block Housings Standard Height (ASE)



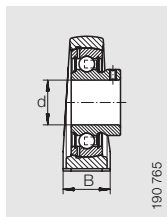
ASE Housing

Dimension table · Dimensions in mm/inch						
Shaft Diameter d		Unit Part Number				Housing Part Number
mm	inch					Mass ≈kg
12	–	PASE 12	PASEY 12	–	RASEY 12	GG ASE 03
–	1/2	PASE 1/2	PASEY 1/2	RASE 1/2	RASEY 1/2	
15	–	PASE 15	PASEY 15	–	RASEY 15	
–	5/8	PASE 5/8	PASEY 5/8	RASE 5/8	RASEY 5/8	
16	–	–	–	–	RASEY 16	
17	–	PASE 17	PASEY 17	RASE 17	RASEY 17	GG ASE 04
–	3/4	PASE 3/4	PASEY 3/4	RASE 3/4	RASEY 3/4	
20	–	PASE 20	PASEY 20	RASE 20	RASEY 20	GG ASE 05
–	7/8	PASE 7/8	–	RASE 7/8	RASEY 7/8	
–	15/16	–	–	RASE 15/16	RASEY 15/16	
25	–	PASE 25	PASEY 25	RASE 25	RASEY 25	
–	1	PASE 1	PASEY 1	RASE 1	RASEY 1	
–	1 1/16	PASE 1 1/16	–	–	–	GG ASE 06
–	1 1/8	PASE 1 1/8	–	RASE 1 1/8	RASEY 1 1/8	
30	–	PASE 30	PASEY 30	RASE 30	RASEY 30	
–	1 3/16	PASE 1 3/16	PASEY 1 3/16	RASE 1 3/16	RASEY 1 3/16	
–	1 1/4	PASE 1 1/4-206	–	RASE 1 1/4-206	RASEY 1 1/4-206	
–	1 1/4	PASE 1 1/4	PASEY 1 1/4	RASE 1 1/4	RASEY 1 1/4	GG ASE 07
–	1 3/8	PASE 1 3/8	–	RASE 1 3/8	RASEY 1 3/8	
35	–	PASE 35	PASEY 35	RASE 35	RASEY 35	
–	1 7/16	PASE 1 7/16	PASEY 1 7/16	RASE 1 7/16	RASEY 1 7/16	
–	1 7/16	PASE 1 7/16-208	–	–	–	
–	1 1/2	PASE 1 1/2	PASEY 1 1/2	RASE 1 1/2	RASEY 1 1/2	GG ASE 08 AK 08
–	1 9/16	–	–	RASE 1 9/16	–	
40	–	PASE 40	PASEY 40	RASE 40	RASEY 40	GG ASE 09
–	1 1/2	–	–	–	RASEY 1 1/2-209	
–	1 5/8	–	–	RASE 1 5/8	RASEY 1 5/8	
–	1 11/16	–	–	RASE 1 11/16	RASEY 1 11/16	
–	1 3/4	PASE 1 3/4	PASEY 1 3/4	RASE 1 3/4	RASEY 1 3/4	
45	–	PASE 45	PASEY 45	RASE 45	RASEY 45	

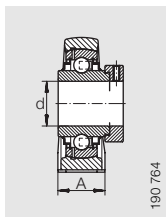
1) Sizes ASE 03/ASE 04: 1/4-28 UNF.
2) Limiting Speed – see page 3.
3) Pounds = kN (kilonewtons)×1000 ÷4.45.



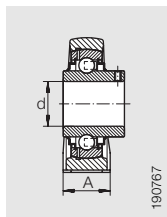
PASE



PASEY



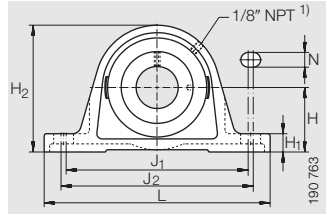
RASE



RASEY

Millimeters (nominal)/Inch (rounded to nearest fraction)								Speed ²⁾ RPM	Capacity ³⁾		Shaft Diameter d	
A	B	C	H	K	M	M ₁	W		dyn. kN	stat. kN	mm	inch
30.2 <i>1³/₁₆</i>	32 <i>1¹/₄</i>	14 <i>9</i> / ₁₆	58 <i>2⁹/₃₂</i>	11 <i>7</i> / ₁₆	81 <i>3³/₁₆</i>	103 <i>4¹/₁₆</i>	125 <i>4¹⁵/₁₆</i>	2350 –	9.6	4.75	12	–
											–	<i>1</i> / ₂
											15	–
											–	<i>5</i> / ₈
											16	–
33.3 <i>1⁵/₁₆</i>	32 <i>1¹/₄</i>	14.5 <i>9</i> / ₁₆	64.3 <i>2¹⁷/₃₂</i>	11 <i>7</i> / ₁₆	87 <i>3⁷/₁₆</i>	105 <i>4¹/₈</i>	130 <i>5¹/₈</i>	2000 –	12.6	6.6	–	<i>3</i> / ₄
											20	–
											–	<i>7</i> / ₈
											–	<i>15</i> / ₁₆
											25	–
36.5 <i>1⁷/₁₆</i>	37 <i>1¹⁵/₃₂</i>	15.5 <i>5</i> / ₈	71.4 <i>2¹³/₁₆</i>	12 <i>15</i> / ₃₂	95.3 <i>3³/₄</i>	114.3 <i>4¹/₂</i>	139.7 <i>5¹/₂</i>	1600 –	14	7.8	–	<i>1</i>
											–	<i>15</i> / ₁₆
											25	–
											–	<i>1</i>
											–	<i>1</i>
42.9 <i>1¹¹/₁₆</i>	42.5 <i>1¹¹/₁₆</i>	18 <i>23</i> / ₃₂	83.4 <i>3⁹/₃₂</i>	15 <i>19</i> / ₃₂	108 <i>4¹/₄</i>	127 5	157.2 <i>6³/₁₆</i>	1330 –	19.5	11.3	–	<i>1¹/₁₆</i>
											–	<i>1¹/₈</i>
											30	–
											–	<i>1³/₁₆</i>
											–	<i>1¹/₄</i>
47.6 <i>1⁷/₈</i>	46.5 <i>1²⁷/₃₂</i>	19 <i>3</i> / ₄	93.7 <i>3¹¹/₁₆</i>	15 <i>19</i> / ₃₂	122.1 <i>4¹³/₁₆</i>	137.9 <i>5⁷/₁₆</i>	172 <i>6²⁵/₃₂</i>	1140 –	25.5	15.3	–	<i>1¹/₄</i>
											–	<i>1³/₈</i>
											35	–
											–	<i>1⁷/₁₆</i>
											–	<i>1⁷/₁₆</i>
49.2 <i>1¹⁵/₁₆</i>	50 <i>1³¹/₃₂</i>	20 <i>25</i> / ₃₂	100 <i>3¹⁵/₁₆</i>	15 <i>19</i> / ₃₂	125 <i>4¹⁵/₁₆</i>	147 <i>5²⁵/₃₂</i>	181.5 <i>7⁵/₃₂</i>	1000 –	32.5	19.6	–	<i>1¹/₂</i>
											–	<i>1⁹/₁₆</i>
											–	<i>1⁹/₁₆</i>
											40	–
											–	<i>1¹/₂</i>
54 <i>2¹/₈</i>	51.5 <i>2¹/₃₂</i>	22 <i>7</i> / ₈	107 <i>4⁷/₃₂</i>	14.3 <i>9</i> / ₁₆	136.5 <i>5³/₈</i>	160.5 <i>6⁵/₁₆</i>	195 <i>7¹¹/₁₆</i>	890 –	32.5	20.4	–	<i>1⁵/₈</i>
											–	<i>1¹¹/₁₆</i>
											–	<i>1³/₄</i>
											–	<i>1³/₄</i>
											45	–

Pillow Block Housings Standard Height (ASE)



ASE Housing

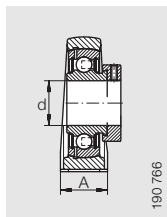
Dimension table (continued) · Dimensions in mm/inch							
Shaft Diameter d		Unit Part Number				Housing Part Number	Mass
mm	inch						≈kg
–	1 ¹⁵ / ₁₆	PASE 1 ¹⁵ / ₁₆	PASEY 1 ¹⁵ / ₁₆	RASE 1 ¹⁵ / ₁₆	RASEY 1 ¹⁵ / ₁₆	GG ASE 10	3.2 –
50	–	PASE 50	PASEY 50	RASE 50	RASEY 50		
–	2	–	PASEY 2-210	–	–		
–	2	PASE 2	–	RASE 2	RASEY 2	GG ASE 11	4 –
55	–	PASE 55	–	RASE 55	RASEY 55		
–	2 ³ / ₁₆	PASE 2 ³ / ₁₆	–	RASE 2 ³ / ₁₆	RASEY 2 ³ / ₁₆		
–	2 ¹ / ₄	–	–	–	RASEY 2 ¹ / ₄	GG ASE 12	5.6 –
60	–	PASE 60	PASEY 60	RASE 60	RASEY 60		
–	2 ⁷ / ₁₆	PASE 2 ⁷ / ₁₆	–	RASE 2 ⁷ / ₁₆	RASEY 2 ⁷ / ₁₆		
–	2 ¹ / ₂	–	–	–	RASEY 2 ¹ / ₂ -213	GG ASE 13	5.7 –
65	–	–	–	–	RASEY 65-213		
–	2 ¹ / ₂	–	–	–	RASEY 2 ¹ / ₂	GG ASE 14	6.4 –
65	–	–	–	RASE 65	RASEY 65		
–	2 ¹¹ / ₁₆	–	–	RASE 2 ¹¹ / ₁₆	–		
70	–	–	–	RASE 70	RASEY 70	GG ASE 15	8 –
–	2 ³ / ₄	–	–	–	RASEY 2 ³ / ₄		
–	2 ¹⁵ / ₁₆	–	–	RASE 2 ¹⁵ / ₁₆	RASEY 2 ¹⁵ / ₁₆		
75	–	–	–	RASE 75	RASEY 75	GG ASE 16	8.7 –
–	3	–	–	–	RASEY 3		
80	–	–	–	RASE 80	RASEY 80		

Larger Sizes: See catalogue 520.

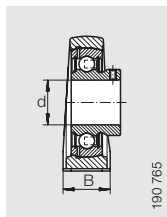
¹⁾ Sizes ASE 03/ASE 04: ¼-28 UNF.

²⁾ Limiting Speed – see page 3.

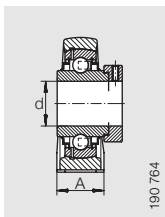
³⁾ Pounds = kN (kilonewtons) × 1 000 ÷ 4.45.



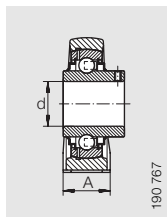
PASE



PASEY



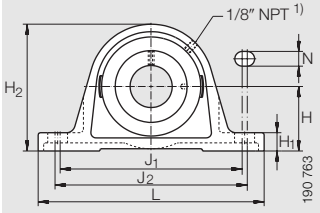
RASE



RASEY

Millimeters (nominal)/Inch (rounded to nearest fraction)									Speed ²⁾ RPM	Capacity ³⁾		Shaft Diameter d	
A	B	C	H	K	M	M ₁	W	dyn. kN		stat. kN	mm	inch	
57.2 2 ¹ / ₄	57 2 ¹ / ₄	22 7 ⁷ / ₈	117 4 ¹⁹ / ₃₂	18 23 ³ / ₃₂	151.5 5 ³¹ / ₃₂	163.5 6 ⁷ / ₁₆	202.5 7 ³¹ / ₃₂	800 –	35	23.2	–	1 ¹⁵ / ₁₆	
											50	–	
											–	2	
63.5 2 ¹ / ₂	62.5 2 ¹⁵ / ₃₂	25 1	126.5 4 ³¹ / ₃₂	18 23 ³ / ₃₂	164.5 6 ¹⁵ / ₃₂	187 7 ³ / ₈	225 8 ⁷ / ₈	730 –	43.5	29	–	2	
											55	–	
											–	2 ³ / ₁₆	
	69.9 2 ³ / ₄	65 2 ⁹ / ₁₆	28 1 ³ / ₃₂	140 5 ¹ / ₂	18 23 ³ / ₃₂	177 6 ³¹ / ₃₂	201.5 7 ¹⁵ / ₁₆	245 9 ²¹ / ₃₂	670 –	52	36	–	2 ¹ / ₄
												60	–
												–	2 ⁷ / ₁₆
76.2 3	64 2 ¹⁷ / ₃₂	27 1 ¹ / ₁₆	150 5 ²⁹ / ₃₂	25 1	190 7 ¹⁵ / ₃₂	210 8 ¹ / ₄	257 10 ¹ / ₈	620 –	57	40	–	2 ¹ / ₂	
											65	–	
79.4 3 ¹ / ₈	65 2 ⁹ / ₁₆	27.5 1 ³ / ₃₂	156 6 ⁵ / ₃₂	22 7 ⁷ / ₈	196.5 7 ³ / ₄	208.5 8 ⁷ / ₃₂	260 10 ¹ / ₄	570 –	62	44	–	2 ¹ / ₂	
											65	–	
											–	2 ¹¹ / ₁₆	
											70	–	
82.5 3 ¹ / ₄	70 2 ³ / ₄	29 1 ⁵ / ₃₂	164 6 ⁷ / ₁₆	24 1 ⁵ / ₁₆	204 8 ¹ / ₃₂	218 8 ¹⁹ / ₃₂	273 10 ³ / ₄	530 –	62	44.5	–	2 ³ / ₄	
											–	2 ¹⁵ / ₁₆	
											75	–	
89 3 ¹ / ₂	78 3 ¹ / ₁₆	30 1 ³ / ₁₆	175 6 ⁷ / ₈	26 1 ¹ / ₃₂	224 8 ¹³ / ₁₆	240 9 ⁷ / ₁₆	290 11 ¹³ / ₃₂	500 –	72	54	–	3	
											80	–	

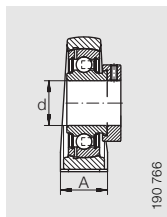
Pillow Block Housings Low Height (AK)



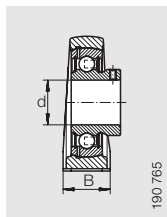
AK Housing

Dimension table · Dimensions in mm/inch							
Shaft Diameter d		Unit Part Number				Housing Part Number	Mass
mm	inch						≈kg
12	–	PAK 12	PAKY 12	–	RAKY 12	GG AK 03	0.55 –
–	1/2	PAK 1/2	PAKY 1/2	RAK 1/2	RAKY 1/2		
15	–	PAK 15	PAKY 15	–	RAKY 15		
–	5/8	PAK 5/8	PAKY 5/8	RAK 5/8	RAKY 5/8		
16	–	–	–	–	RAKY 16		
17	–	PAK 17	PAKY 17	RAK 17	RAKY 17	GG AK 04	0.6 –
–	3/4	PAK 3/4	PAKY 3/4	RAK 3/4	RAKY 3/4		
20	–	PAK 20	PAKY 20	RAK 20	RAKY 20	GG AK 05	0.9 –
–	7/8	PAK 7/8	–	RAK 7/8	RAKY 7/8		
–	15/16	–	–	RAK 15/16	RAKY 15/16		
25	–	PAK 25	PAKY 25	RAK 25	RAKY 25		
–	1	PAK 1	PAKY 1	RAK 1	RAKY 1		
–	1 1/16	PAK 1 1/16	–	–	–	GG AK 06	1.3 –
–	1 1/8	PAK 1 1/8	–	RAK 1 1/8	RAKY 1 1/8		
30	–	PAK 30	PAKY 30	RAK 30	RAKY 30		
–	1 3/16	PAK 1 3/16	PAKY 1 3/16	RAK 1 3/16	RAKY 1 3/16		
–	1 1/4	PAK 1 1/4-206	–	RAK 1 1/4-206	RAKY 1 1/4-206		
–	1 1/4	PAK 1 1/4	PAKY 1 1/4	RAK 1 1/4	RAKY 1 1/4	GG AK 07	1.7 –
–	1 3/8	PAK 1 3/8	–	RAK 1 3/8	RAKY 1 3/8		
35	–	PAK 35	PAKY 35	RAK 35	RAKY 35		
–	1 7/16	PAK 1 7/16	PAKY 1 7/16	RAK 1 7/16	RAKY 1 7/16		
–	1 7/16	PAK 1 7/16-208	–	–	–		
–	1 1/2	PAK 1 1/2	PAKY 1 1/2	RAK 1 1/2	RAKY 1 1/2	GG ASE 08 GG AK 08	2.1 –
–	1 9/16	–	–	RAK 1 9/16	–		
40	–	PAK 40	PAKY 40	RAK 40	RAKY 40	GG AK 09	2.4 –
–	1 1/2	–	–	–	RAKY 1 1/2-209		
–	1 5/8	–	–	RAK 1 5/8	RAKY 1 5/8		
–	1 11/16	–	–	RAK 1 11/16	RAKY 1 11/16		
–	1 3/4	PAK 1 3/4	PAKY 1 3/4	RAK 1 3/4	RAKY 1 3/4		
45	–	PAK 45	PAKY 45	RAK 45	RAKY 45		

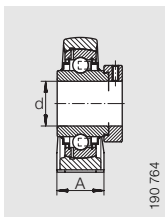
1) Sizes AK 03/AK 04: 1/4-28 UNF.
2) Limiting Speed – see page 3.
3) Pounds = kN (kilonewtons)×1000 ÷4.45.



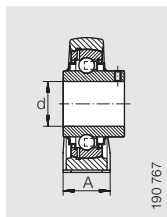
PAK



PAKY



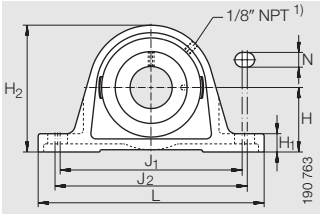
RAK



RAKY

Millimeters (nominal)/Inch (rounded to nearest fraction)								Speed ²⁾ RPM	Capacity ³⁾		Shaft Diameter d	
A	B	C	H	K	M	M ₁	W		dyn. kN	stat. kN	mm	inch
27 1 ¹ / ₁₆	32 1 ¹ / ₄	10.8 7 ⁷ / ₁₆	54.8 2 ⁵ / ₃₂	11 7 ⁷ / ₁₆	81 3 ³ / ₁₆	103 4 ¹ / ₁₆	125 4 ¹⁵ / ₁₆	2350 –	9.6	4.75	12	–
											–	1 ¹ / ₂
											15	–
											–	5 ⁵ / ₈
											16	–
31.8 1 ¹ / ₄	32 1 ¹ / ₄	13 1 ¹ / ₂	62.8 2 ¹⁵ / ₃₂	11 7 ⁷ / ₁₆	87 3 ⁷ / ₁₆	105 4 ¹ / ₈	130 5 ¹ / ₈	2000 –	12.8	6.6	17	–
											–	3 ³ / ₄
											20	–
											–	7 ⁷ / ₈
											–	1 ⁵ / ₁₆
33.3 1 ⁵ / ₁₆	37 1 ¹⁵ / ₃₂	14.3 9 ⁹ / ₁₆	68.3 2 ¹¹ / ₁₆	12 1 ⁵ / ₃₂	94.5 3 ²³ / ₃₂	113 4 ⁷ / ₁₆	139.7 5 ¹ / ₂	1600 –	14	7.8	25	–
											–	1
											–	1 ¹ / ₁₆
											–	1 ¹ / ₈
											30	–
39.7 1 ⁹ / ₁₆	41.5 1 ⁵ / ₈	17 2 ¹ / ₃₂	80.5 3 ⁵ / ₃₂	15 1 ⁹ / ₃₂	108.8 4 ⁹ / ₃₂	125.7 4 ¹⁵ / ₁₆	157.2 6 ³ / ₁₆	1330 –	19.5	11.3	–	1 ³ / ₁₆
											–	1 ¹ / ₄
											–	1 ¹ / ₄
											–	1 ³ / ₈
											35	–
46 1 ¹³ / ₁₆	46.5 1 ²⁷ / ₃₂	17.4 1 ¹ / ₁₆	92.1 3 ⁵ / ₈	15 1 ⁹ / ₃₂	122.1 4 ¹³ / ₁₆	137.9 5 ⁷ / ₁₆	172 6 ²⁵ / ₃₂	1140 –	25.5	15.3	–	1 ⁷ / ₁₆
											–	1 ⁷ / ₁₆
											–	1 ¹ / ₂
											–	1 ⁹ / ₁₆
											40	–
49.2 1 ¹⁵ / ₁₆	50 1 ³¹ / ₃₂	20 2 ⁵ / ₃₂	100 3 ¹⁵ / ₁₆	15 1 ⁹ / ₃₂	125 4 ¹⁵ / ₁₆	147 5 ²⁵ / ₃₂	181.5 7 ⁵ / ₃₂	1000 –	32.5	19.8	–	1 ¹ / ₂
											–	1 ⁹ / ₁₆
											–	1 ¹ / ₂
											–	1 ⁵ / ₈
											–	1 ¹¹ / ₁₆
52.4 2 ¹ / ₁₆	51.5 2 ¹ / ₃₂	20.4 1 ³ / ₁₆	105.4 4 ⁵ / ₃₂	14.3 9 ⁹ / ₁₆	136.5 5 ³ / ₈	160.5 6 ⁵ / ₁₆	195 7 ¹¹ / ₁₆	890 –	32.5	20.4	–	1 ³ / ₄
											–	1 ³ / ₄
											–	1 ³ / ₄
											–	1 ³ / ₄
											45	–

Pillow Block Housings Low Height (AK)

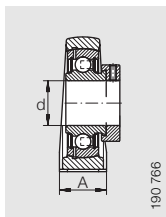


AK Housing

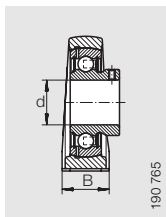
Dimension table (continued) · Dimensions in mm/inch

Shaft Diameter d		Unit Part Number				Housing Part Number	Mass ≈kg
mm	inch						
–	1 ¹⁵ / ₁₆	PAK 1 ¹⁵ / ₁₆	PAKY 1 ¹⁵ / ₁₆	RAK 1 ¹⁵ / ₁₆	RAKY 1 ¹⁵ / ₁₆	GG AK 10	3.2 –
50	–	PAK 50	PAKY 50	RAK 50	RAKY 50		
–	2	–	PAKY 2-210	–	–		
–	2	PAK 2	–	RAK 2	RAKY 2	GG AK 11	4 –
55	–	PAK 55	–	RAK 55	RAKY 55		
–	2 ³ / ₁₆	PAK 2 ³ / ₁₆	–	RAK 2 ³ / ₁₆	RAKY 2 ³ / ₁₆		
–	2 ¹ / ₄	–	–	–	RAKY 2 ¹ / ₄	GG AK 12	5.6 –
60	–	PAK 60	PAKY 60	RAK 60	RAKY 60		
–	2 ⁷ / ₁₆	PAK 2 ⁷ / ₁₆	–	RAK 2 ⁷ / ₁₆	RAKY 2 ⁷ / ₁₆		
–	2 ³ / ₄	–	–	–	RAKY 2 ³ / ₄	GG AK 15	8 –
–	2 ¹⁵ / ₁₆	–	–	RAK 2 ¹⁵ / ₁₆	RAKY 2 ¹⁵ / ₁₆		
75	–	–	–	RAK 75	RAKY 75		

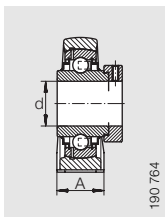
Larger Sizes: See catalogue 520.
 1) Sizes AK 03/AK 04: ¼-28 UNF.
 2) Limiting Speed – see page 3.
 3) Pounds = kN (kilonewtons)×1 000 ÷ 4.45.



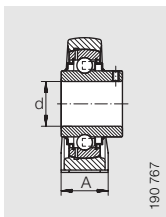
PAK



PAKY



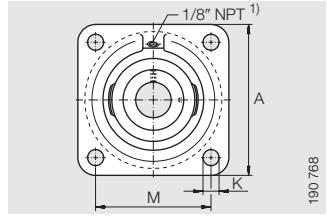
RAK



RAKY

Millimeters (nominal)/Inch (rounded to nearest fraction)								Speed ²⁾	Capacity ³⁾		Shaft Diameter d	
A	B	C	H	K	M	M ₁	W	RPM	dyn. kN	stat. kN	mm	inch
55.6 <i>2³/₁₆</i>	57 <i>2¹/₄</i>	20.4 <i>1³/₁₆</i>	115.4 <i>4¹⁷/₃₂</i>	18 <i>2³/₃₂</i>	15.5 <i>5³¹/₃₂</i>	163.5 <i>6⁷/₁₆</i>	202.5 <i>7³¹/₃₂</i>	800 –	35	23.2	–	<i>1¹⁵/₁₆</i>
											50	–
											–	2
61.9 <i>2⁷/₁₆</i>	62.5 <i>2¹⁵/₃₂</i>	23.4 <i>1⁵/₁₆</i>	124.9 <i>4²⁹/₃₂</i>	18 <i>2³/₃₂</i>	164.5 <i>6¹⁵/₃₂</i>	187 <i>7³/₈</i>	225 <i>8⁷/₈</i>	730 –	43.5	29	–	2
											55	–
											–	<i>2³/₁₆</i>
68.3 <i>2¹¹/₁₆</i>	65 <i>2⁹/₁₆</i>	26.4 <i>1¹/₃₂</i>	138.4 <i>5⁷/₁₆</i>	18 <i>2³/₃₂</i>	177 <i>6³¹/₃₂</i>	201.5 <i>7¹⁵/₁₆</i>	245 <i>9²¹/₃₂</i>	670 –	52	53.6	–	<i>2¹/₄</i>
											60	–
											–	<i>2⁷/₁₆</i>
84.1 <i>3⁵/₁₆</i>	70 <i>2³/₄</i>	30.6 <i>1⁷/₃₂</i>	165.6 <i>6¹⁷/₃₂</i>	24 <i>1⁵/₁₆</i>	204 <i>8¹/₃₂</i>	218 <i>8¹⁹/₃₂</i>	273 <i>10³/₄</i>	530 –	62	44.5	–	<i>2³/₄</i>
											–	<i>2¹⁵/₁₆</i>
											75	–

Square Four-Bolt Flange Housings (CJ)

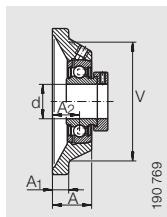


CJ Housing

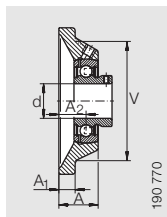
190 768

Dimension table · Dimensions in mm/inch						
Shaft Diameter d		Unit Part Number				Housing Part Number
mm	inch					Mass ≈kg
12	–	PCJ 12	PCJY 12	–	RCJY 12	GG CJ 03
–	$\frac{1}{2}$	PCJ $\frac{1}{2}$	PCJY $\frac{1}{2}$	RCJ $\frac{1}{2}$	RCJY $\frac{1}{2}$	
15	–	PCJ 15	PCJY 15	–	RCJY 15	
–	$\frac{5}{8}$	PCJ $\frac{5}{8}$	PCJY $\frac{5}{8}$	RCJ $\frac{5}{8}$	RCJY $\frac{5}{8}$	
16	–	–	–	–	RCJY 16	
17	–	PCJ 17	PCJY 17	RCJ 17	RCJY 17	GG CJ 04
–	$\frac{3}{4}$	PCJ $\frac{3}{4}$	PCJY $\frac{3}{4}$	RCJ $\frac{3}{4}$	RCJY $\frac{3}{4}$	
20	–	PCJ 20	PCJY 20	RCJ 20	RCJY 20	GG CJ 05
–	$\frac{7}{8}$	PCJ $\frac{7}{8}$	–	RCJ $\frac{7}{8}$	RCJY $\frac{7}{8}$	
–	$\frac{15}{16}$	–	–	RCJ $\frac{15}{16}$	RCJY $\frac{15}{16}$	
25	–	PCJ 25	PCJY 25	RCJ 25	RCJY 25	
–	1	PCJ 1	PCJY 1	RCJ 1	RCJY 1	
–	$\frac{1^1}{16}$	PCJ $\frac{1^1}{16}$	–	–	–	GG CJ 06
–	$\frac{1^1}{8}$	PCJ $\frac{1^1}{8}$	–	RCJ $\frac{1^1}{8}$	RCJY $\frac{1^1}{8}$	
30	–	PCJ 30	PCJY 30	RCJ 30	RCJY 30	
–	$\frac{1^3}{16}$	PCJ $\frac{1^3}{16}$	PCJY $\frac{1^3}{16}$	RCJ $\frac{1^3}{16}$	RCJY $\frac{1^3}{16}$	
–	$\frac{1^1}{4}$	PCJ $\frac{1^1}{4}$ -206	–	RCJ $\frac{1^1}{4}$ -206	RCJY $\frac{1^1}{4}$ -206	
–	$\frac{1^1}{4}$	PCJ $\frac{1^1}{4}$	PCJY $\frac{1^1}{4}$	RCJ $\frac{1^1}{4}$	RCJY $\frac{1^1}{4}$	GG CJ 07
–	$\frac{1^3}{8}$	PCJ $\frac{1^3}{8}$	–	RCJ $\frac{1^3}{8}$	RCJY $\frac{1^3}{8}$	
35	–	PCJ 35	PCJY 35	RCJ 35	RCJY 35	
–	$\frac{1^7}{16}$	PCJ $\frac{1^7}{16}$	PCJY $\frac{1^7}{16}$	RCJ $\frac{1^7}{16}$	RCJY $\frac{1^7}{16}$	GG CJ 08
–	$\frac{1^7}{16}$	PCJ $\frac{1^7}{16}$ -208	–	–	–	
–	$\frac{1^1}{2}$	PCJ $\frac{1^1}{2}$	PCJY $\frac{1^1}{2}$	RCJ $\frac{1^1}{2}$	RCJY $\frac{1^1}{2}$	
–	$\frac{1^9}{16}$	–	–	RCJ $\frac{1^9}{16}$	–	GG CJ 09
40	–	PCJ 40	PCJY 40	RCJ 40	RCJY 40	
–	$\frac{1^1}{2}$	–	–	–	RCJY $\frac{1^1}{2}$ -209	
–	$\frac{1^5}{8}$	–	–	RCJ $\frac{1^5}{8}$	RCJY $\frac{1^5}{8}$	
–	$\frac{1^{11}}{16}$	–	–	RCJ $\frac{1^{11}}{16}$	RCJY $\frac{1^{11}}{16}$	
–	$\frac{1^3}{4}$	PCJ $\frac{1^3}{4}$	PCJY $\frac{1^3}{4}$	RCJ $\frac{1^3}{4}$	RCJY $\frac{1^3}{4}$	GG CJ 09
45	–	PCJ 45	PCJY 45	RCJ 45	RCJY 45	

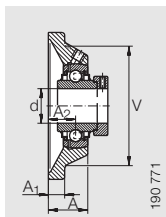
1) Sizes CJ 03/CJ 04: $\frac{1}{4}$ -28 UNF.
2) Limiting Speed – see page 3.
3) Pounds = kN (kilonewtons) $\times 1000 \div 4.45$.



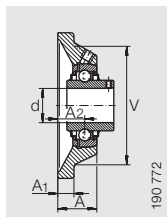
PCJ



PCJY



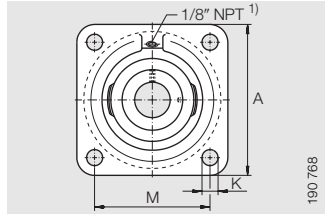
RCJ



RCJY

Millimeters (nominal)/Inch (rounded to nearest fraction)							Speed ²⁾ RPM	Capacity ³⁾		Shaft Diameter d	
A	C	K	M	P	T	V		dyn. kN	stat. kN	mm	inch
76 3	10 $\frac{13}{32}$	11.5 $\frac{7}{16}$	54 $2\frac{1}{8}$	17 $2\frac{1}{32}$	24 $\frac{15}{16}$	52 $2\frac{1}{16}$	2350 –	9.6	4.75	12	–
										–	$\frac{1}{2}$
										15	–
										–	$\frac{5}{8}$
										16	–
86 $3\frac{3}{8}$	11.5 $\frac{7}{16}$	11.5 $\frac{7}{16}$	63.5 $2\frac{1}{2}$	19 $\frac{3}{4}$	29 $\frac{15}{32}$	58 $2\frac{9}{32}$	2000 –	12.8	6.6	17	–
										–	$\frac{3}{4}$
										20	–
										–	$\frac{7}{8}$
										–	$\frac{15}{16}$
95.5 $3\frac{3}{4}$	13 $\frac{1}{2}$	11.5 $\frac{7}{16}$	70 $2\frac{3}{4}$	19 $\frac{3}{4}$	30.5 $\frac{13}{16}$	62 $2\frac{7}{16}$	1600 –	14	7.8	25	–
										–	1
										–	$\frac{1^1}{16}$
										–	$\frac{1^1}{8}$
										30	–
108.5 $4\frac{9}{32}$	13 $\frac{1}{2}$	11.5 $\frac{7}{16}$	82.5 $3\frac{1}{4}$	20 $\frac{25}{32}$	32 $\frac{1}{4}$	72 $2\frac{27}{32}$	1330 –	19.5	11.3	–	$\frac{1^3}{16}$
										–	$\frac{1^1}{4}$
										–	$\frac{1^1}{8}$
										–	$\frac{1^3}{8}$
										35	–
118.5 $4\frac{21}{32}$	13.5 $\frac{17}{32}$	14 $\frac{9}{16}$	92 $3\frac{5}{8}$	21 $\frac{13}{16}$	34.5 $\frac{1^11}{32}$	85 $3\frac{11}{32}$	1140 –	25.5	15.3	–	$\frac{1^7}{16}$
										–	$\frac{1^7}{16}$
										–	$\frac{1^1}{2}$
										–	$\frac{1^9}{16}$
										40	–
130 $5\frac{1}{8}$	14.5 $\frac{9}{16}$	14 $\frac{9}{16}$	101.5 4	24 $\frac{15}{16}$	38 $\frac{1}{2}$	95 $3\frac{3}{4}$	1000 –	32.5	19.8	–	$\frac{1^1}{2}$
										–	$\frac{1^9}{16}$
										–	$\frac{1^1}{2}$
										–	$\frac{1^5}{8}$
										–	$\frac{1^11}{16}$
137.5 $5\frac{13}{32}$	14.5 $\frac{9}{16}$	14 $\frac{9}{16}$	105 $4\frac{1}{8}$	24 $\frac{15}{16}$	38 $\frac{1}{2}$	100 $3\frac{15}{16}$	890 –	32.5	20.4	–	$\frac{1^3}{4}$
										–	$\frac{1^3}{4}$
										–	$\frac{1^5}{8}$
										–	$\frac{1^11}{16}$
										45	–

Square Four-Bolt Flange Housings (CJ)



CJ Housing

190 768

Dimension table (continued) · Dimensions in mm/inch

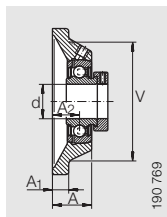
Shaft Diameter d		Unit Part Number				Housing Part Number	Mass
mm	inch						≈kg
–	$1^{15}/_{16}$	PCJ $1^{15}/_{16}$	PCJY $1^{15}/_{16}$	RCJ $1^{15}/_{16}$	RCJY $1^{15}/_{16}$	GG CJ 10	2.9 –
50	–	PCJ 50	PCJY 50	RCJ 50	RCJY 50		–
–	2	–	PCJY 2-210	–	–		–
–	2	PCJ 2	–	RCJ 2	RCJY 2	GG CJ 11	4.1 –
55	–	PCJ 55	–	RCJ 55	RCJY 55		–
–	$2^3/_{16}$	PCJ $2^3/_{16}$	–	RCJ $2^3/_{16}$	RCJY $2^3/_{16}$		–
–	$2^1/_4$	–	–	–	RCJY $2^1/_4$	GG CJ 12	5 –
60	–	PCJ 60	PCJY 60	RCJ 60	RCJY 60		–
–	$2^7/_{16}$	PCJ $2^7/_{16}$	–	RCJ $2^7/_{16}$	RCJY $2^7/_{16}$		–
–	$2^1/_2$	–	–	–	RCJY $2^1/_2$-213	GG CJ 13	5.4 –
65	–	–	–	–	RCJY 65-213		–
–	$2^1/_2$	–	–	–	RCJY $2^1/_2$	GG CJ 14	6.1 –
65	–	–	–	RCJ 65	RCJY 65		–
–	$2^{11}/_{16}$	–	–	RCJ $2^{11}/_{16}$	–		–
70	–	–	–	RCJ 70	RCJY 70	GG CJ 15	6.5 –
–	$2^3/_4$	–	–	–	RCJY $2^3/_4$		–
–	$2^{15}/_{16}$	–	–	RCJ $2^{15}/_{16}$	RCJY $2^{15}/_{16}$		–
75	–	–	–	RCJ 75	RCJY 75	GG CJ 16	6.9 –
–	3	–	–	–	RCJY 3		–
80	–	–	–	RCJ 80	RCJY 80		–

Larger Sizes: See *catalogue 520*.

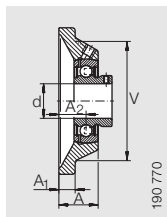
¹⁾ Sizes CJ 03/CJ 04: ¼-28 UNF.

²⁾ Limiting Speed – see page 3.

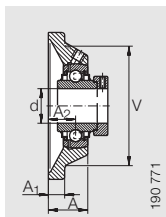
³⁾ Pounds = kN (kilonewtons) × 1 000 ÷ 4.45.



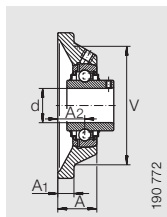
PCJ



PCJY



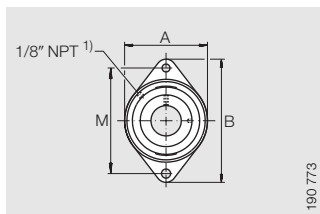
RCJ



RCJY

Millimeters (nominal)/Inch (rounded to nearest fraction)							Speed ²⁾ RPM	Capacity ³⁾		Shaft Diameter d	
A	C	K	M	P	T	V		dyn. kN	stat. kN	mm	inch
143 5 ⁵ / ₈	15 19 ¹ / ₃₂	17 21 ¹ / ₃₂	111 4 ³ / ₈	28 1 ³ / ₃₂	42 1 ²¹ / ₃₂	106 4 ³ / ₁₆	800 –	35	23.2	–	1 ¹⁵ / ₁₆
										50	–
										–	2
162.5 6 ¹³ / ₃₂	17 21 ¹ / ₃₂	17 21 ¹ / ₃₂	130 5 ¹ / ₈	31 1 ⁷ / ₃₂	47 1 ²⁷ / ₃₂	112 4 ¹³ / ₃₂	730 –	43.5	29	–	2
										55	–
										–	2 ³ / ₁₆
175.5 6 ²⁹ / ₃₂	17.5 1 ¹¹ / ₁₆	18 23 ¹ / ₃₂	143 5 ⁵ / ₈	34 1 ¹¹ / ₃₂	49 1 ¹⁵ / ₁₆	122.5 4 ²⁷ / ₃₂	670 –	52	36	–	2 ¹ / ₄
										60	–
										–	2 ⁷ / ₁₆
187 7 ³ / ₈	22 7 ¹ / ₈	19 3 ³ / ₄	149 5 ⁷ / ₈	30 1 ³ / ₁₆	41.5 1 ⁵ / ₈	150 5 ²⁹ / ₃₂	620 –	57	40	–	2 ¹ / ₂
										65	–
188 7 ¹³ / ₃₂	18 23 ¹ / ₃₂	18 23 ¹ / ₃₂	150 5 ²⁹ / ₃₂	38 1 ¹ / ₂	52 2 ¹ / ₁₆	165 6 ¹ / ₂	570 –	62	44	–	2 ¹ / ₂
										65	–
										–	2 ¹¹ / ₁₆
										70	–
197 7 ³ / ₄	20 25 ¹ / ₃₂	23 29 ¹ / ₃₂	153 6 ¹ / ₃₂	41.3 1 ⁵ / ₈	55.8 2 ³ / ₁₆	170 6 ¹¹ / ₁₆	530 –	62	44.5	–	2 ³ / ₄
										–	2 ¹⁵ / ₁₆
										75	–
197 7 ³ / ₄	20 25 ¹ / ₃₂	23 29 ¹ / ₃₂	153 6 ¹ / ₃₂	41.3 1 ⁵ / ₈	55.8 2 ³ / ₁₆	180 7 ³ / ₃₂	500 –	72	54	–	3
										80	–

Two-Bolt Flange Housings (CJT)



CJT Housing

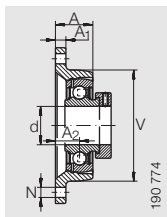
190 773

Dimension table · Dimensions in mm/inch							
Shaft Diameter d		Unit Part Number				Housing Part Number	Mass
mm	inch						≈kg
12	–	PCJT 12	PCJTY 12	–	RCJTY 12	GG CJT 03	0.4 –
–	¹ / ₂	PCJT ¹ / ₂	PCJTY ¹ / ₂	RCJT ¹ / ₂	RCJTY ¹ / ₂		
15	–	PCJT 15	PCJTY 15	–	RCJTY 15		
–	⁵ / ₈	PCJT ⁵ / ₈	PCJTY ⁵ / ₈	RCJT ⁵ / ₈	RCJTY ⁵ / ₈		
16	–	–	–	–	RCJTY 16		
17	–	PCJT 17	PCJTY 17	RCJT 17	RCJTY 17	GG CJT 04	0.5 –
–	³ / ₄	PCJT ³ / ₄	PCJTY ³ / ₄	RCJT ³ / ₄	RCJTY ³ / ₄		
20	–	PCJT 20	PCJTY 20	RCJT 20	RCJTY 20		
–	⁷ / ₈	PCJT ⁷ / ₈	–	RCJT ⁷ / ₈	RCJTY ⁷ / ₈	GG CJT 05	0.7 –
–	¹⁵ / ₁₆	–	–	RCJT ¹⁵ / ₁₆	RCJTY ¹⁵ / ₁₆		
25	–	PCJT 25	PCJTY 25	RCJT 25	RCJTY 25		
–	1	PCJT 1	PCJTY 1	RCJT 1	RCJTY 1		
–	¹ / ₁₆	PCJT ¹ / ₁₆	–	–	–		
–	¹ / ₈	PCJT ¹ / ₈	–	RCJT ¹ / ₈	RCJTY ¹ / ₈	GG CJT 06	1 –
30	–	PCJT 30	PCJTY 30	RCJT 30	RCJTY 30		
–	¹³ / ₁₆	PCJT ¹³ / ₁₆	PCJTY ¹³ / ₁₆	RCJT ¹³ / ₁₆	RCJTY ¹³ / ₁₆		
–	¹ / ₄	PCJT ¹ / ₄ -206	–	RCJT ¹ / ₄ -206	RCJTY ¹ / ₄ -206		
–	¹ / ₄	PCJT ¹ / ₄	PCJTY ¹ / ₄	RCJT ¹ / ₄	RCJTY ¹ / ₄		
–	¹³ / ₈	PCJT ¹³ / ₈	–	RCJT ¹³ / ₈	RCJTY ¹³ / ₈	GG CJT 07	1.3 –
35	–	PCJT 35	PCJTY 35	RCJT 35	RCJTY 35		
–	¹⁷ / ₁₆	PCJT ¹⁷ / ₁₆	PCJTY ¹⁷ / ₁₆	RCJT ¹⁷ / ₁₆	RCJTY ¹⁷ / ₁₆		
–	¹⁷ / ₁₆	PCJT ¹⁷ / ₁₆ -208	–	–	–	GG CJT 08	1.8 –
–	¹ / ₂	PCJT ¹ / ₂	PCJTY ¹ / ₂	RCJT ¹ / ₂	RCJTY ¹ / ₂		
–	¹⁹ / ₁₆	–	–	RCJT ¹⁹ / ₁₆	–		
40	–	PCJT 40	PCJTY 40	RCJT 40	RCJTY 40		
–	¹ / ₂	–	–	–	RCJTY ¹ / ₂ -209	GG CJT 09	2.1 –
–	¹⁵ / ₈	–	–	RCJT ¹⁵ / ₈	RCJTY ¹⁵ / ₈		
–	¹¹ / ₁₆	–	–	RCJT ¹¹ / ₁₆	RCJTY ¹¹ / ₁₆		
–	¹³ / ₄	PCJT ¹³ / ₄	PCJTY ¹³ / ₄	RCJT ¹³ / ₄	RCJTY ¹³ / ₄		
45	–	PCJT 45	PCJTY 45	RCJT 45	RCJTY 45		

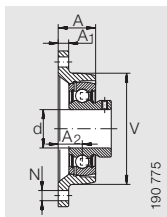
1) Sizes CJT 03/CJT 04: 1/4-28 UNF.

2) Limiting Speed – see page 3.

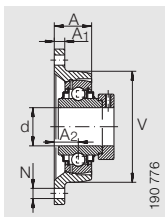
3) Pounds = kN (kilonewtons) × 1000 ÷ 4.45.



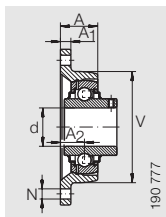
PCJT



PCJTY



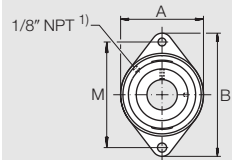
RCJT



RCJTY

Millimeters (nominal)/Inch (rounded to nearest fraction)							Speed ²⁾ RPM	Capacity ³⁾		Shaft Diameter d	
A, V	B	C	K	M	P	T		dyn. kN	stat. kN	mm	inch
57 2 ¹ / ₄	99 3 ²⁹ / ₃₂	10 1 ³ / ₃₂	11.5 7 ¹ / ₁₆	76.5 3	17 2 ¹ / ₃₂	24 1 ⁵ / ₁₆	2350 –	9.6	4.75	12	–
										–	1 ¹ / ₂
										15	–
										–	5 ⁵ / ₈
										16	–
62 2 ⁷ / ₁₆	112 4 ¹³ / ₃₂	11 7 ¹ / ₁₆	11.5 7 ¹ / ₁₆	90 3 ¹⁷ / ₃₂	19 3 ³ / ₄	29.5 1 ⁵ / ₃₂	2000 –	12.8	6.6	17	–
										–	3 ³ / ₄
										20	–
										–	7 ⁷ / ₈
										–	1 ⁵ / ₁₆
71 2 ¹³ / ₁₆	125 4 ¹⁵ / ₁₆	12 1 ⁵ / ₃₂	11.5 7 ¹ / ₁₆	99 3 ²⁹ / ₃₂	19 3 ³ / ₄	30 1 ³ / ₁₆	1600 –	14	7.6	25	–
										–	1
										–	1 ¹ / ₁₆
										–	1 ¹ / ₈
										30	–
80.5 3 ⁵ / ₃₂	142 5 ¹⁹ / ₃₂	13 1 ¹ / ₂	11.5 7 ¹ / ₁₆	116.5 4 ¹⁹ / ₃₂	20 2 ⁵ / ₃₂	32.5 1 ⁹ / ₃₂	1330 –	19.5	11.3	–	1 ³ / ₁₆
										–	1 ¹ / ₄
										–	1 ¹ / ₄
										–	1 ³ / ₈
										35	–
92.5 3 ²¹ / ₃₂	156 6 ¹ / ₈	14 9 ⁹ / ₁₆	14 9 ⁹ / ₁₆	130 5 ¹ / ₈	21 1 ³ / ₁₆	34.5 1 ¹¹ / ₃₂	1140 –	25.5	15.3	–	1 ⁷ / ₁₆
										–	1 ⁷ / ₁₆
										–	1 ¹ / ₂
										–	1 ⁹ / ₁₆
										40	–
105.5 4 ⁵ / ₃₂	173 6 ¹³ / ₁₆	15 9 ⁹ / ₃₂	14 9 ⁹ / ₁₆	143.5 5 ²⁷ / ₃₂	24 1 ⁵ / ₁₆	38 1 ¹ / ₂	1000 –	32.5	19.6	–	1 ¹ / ₂
										–	1 ⁵ / ₈
										–	1 ¹¹ / ₁₆
										–	1 ³ / ₄
										45	–
112 4 ¹³ / ₃₂	180.5 7 ¹ / ₈	15 1 ⁹ / ₃₂	14 9 ⁹ / ₁₆	148.5 5 ²⁷ / ₃₂	24 1 ⁵ / ₁₆	38.5 1 ¹ / ₂	890 –	32.5	20.4	–	1 ¹ / ₂
										–	1 ⁵ / ₈
										–	1 ¹¹ / ₁₆
										–	1 ³ / ₄
										–	1 ³ / ₄

Two-Bolt Flange Housings (CJT)

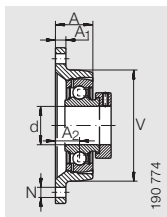


190 773

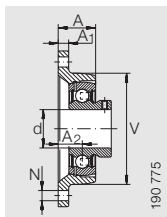
CJT Housing

Dimension table (continued) · Dimensions in mm/inch							
Shaft Diameter d		Unit Part Number				Housing Part Number	Mass
mm	inch						≈kg
–	1 ¹⁵ / ₁₆	PCJT 1 ¹⁵ / ₁₆	PCJTY 1 ¹⁵ / ₁₆	RCJT 1 ¹⁵ / ₁₆	RCJTY 1 ¹⁵ / ₁₆	GG CJT 10	2.5 –
50	–	PCJT 50	PCJT 50	RCJT 50	RCJTY 50		
–	2	–	PCJT 2-210	–	–		
–	2	PCJT 2	–	RCJT 2	RCJTY 2	GG CJT 11	3.9 –
55	–	PCJT 55	–	RCJT 55	RCJTY 55		
–	2 ³ / ₁₆	PCJT 2 ³ / ₁₆	–	RCJT 2 ³ / ₁₆	RCJTY 2 ³ / ₁₆		
–	2 ¹ / ₄	–	–	–	RCJTY 2 ¹ / ₄	GG CJT 12	4.3 –
60	–	PCJT 60	PCJTY 60	RCJT 60	RCJTY 60		
–	2 ⁷ / ₁₆	PCJT 2 ⁷ / ₁₆	–	RCJT 2 ⁷ / ₁₆	RCJTY 2 ⁷ / ₁₆		
–	2 ¹ / ₂	–	–	–	RCJTY 2 ¹ / ₂	GG CJT 13 GG CJT 14	6.2 –
65	–	–	–	RCJT 65	RCJTY 65		
–	2 ¹¹ / ₁₆	–	–	RCJT 2 ¹¹ / ₁₆	–		
70	–	–	–	RCJT 70	RCJTY 70	GG CJT 15	6.2 –
–	2 ³ / ₄	–	–	–	RCJTY 2 ³ / ₄		
–	2 ¹⁵ / ₁₆	–	–	RCJT 2 ¹⁵ / ₁₆	RCJTY 2 ¹⁵ / ₁₆		
75	–	–	–	RCJT 75	RCJTY 75		

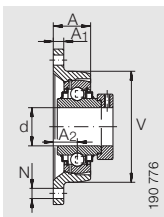
1) Sizes CJT 03/CJT 04: ¼-28 UNF.
 2) Limiting Speed – see page 3.
 3) Pounds = kN (kilonewtons) × 1 000 ÷ 4.45.



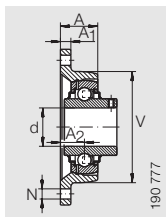
PCJT



PCJTY



RCJT



RCJTY

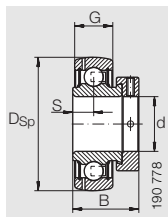
Millimeters (nominal)/Inch (rounded to nearest fraction)							Speed ²⁾ RPM	Capacity ³⁾		Shaft Diameter d	
A, V	B	C	K	M	P	T		dyn. kN	stat. kN	mm	inch
116.5 $4^{19}/_{32}$	191 $7^{17}/_{32}$	16 $5/8$	17 $2^{1}/_{32}$	157 $6^{3}/_{16}$	28 $7^{3}/_{32}$	43 $1^{11}/_{16}$	800 –	35	23.2	–	$1^{15}/_{16}$
										50	–
										–	2
134.5 $5^{9}/_{32}$	226 $8^{29}/_{32}$	17 $2^{1}/_{32}$	17 $2^{1}/_{32}$	184 $7^{1}/_{4}$	31 $1^{7}/_{32}$	46 $1^{13}/_{16}$	730 –	43.5	29	–	2
										55	–
										–	$2^{3}/_{16}$
140 $5^{1}/_{2}$	239 $9^{13}/_{32}$	18 $2^{3}/_{32}$	18 $2^{3}/_{32}$	202 $7^{31}/_{32}$	34 $1^{11}/_{32}$	49.5 $1^{15}/_{16}$	670 –	52	36	–	$2^{1}/_{4}$
										60	–
										–	$2^{7}/_{16}$
160 $6^{5}/_{16}$	258 $10^{5}/_{32}$	18 $2^{3}/_{32}$	21 $2^{3}/_{32}$	216 $8^{1}/_{2}$	38 $1^{1}/_{2}$	57 $2^{1}/_{4}$	570 –	62	44	–	$2^{1}/_{2}$
										65	–
										–	$2^{11}/_{16}$
160 $6^{5}/_{16}$	258 $10^{5}/_{32}$	18 $2^{3}/_{32}$	21 $2^{3}/_{32}$	216 $8^{1}/_{2}$	38 $1^{1}/_{2}$	57 $2^{1}/_{4}$	530 –	62	44.5	70	–
										–	$2^{3}/_{4}$
										–	$2^{15}/_{16}$
160 $6^{5}/_{16}$	258 $10^{5}/_{32}$	18 $2^{3}/_{32}$	21 $2^{3}/_{32}$	216 $8^{1}/_{2}$	38 $1^{1}/_{2}$	57 $2^{1}/_{4}$	530 –	62	44.5	75	–
										–	$2^{15}/_{16}$
										–	–

Radial Insert Ball Bearings Spherical O.D.

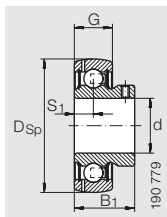
Dimension table · Dimensions in mm/inch					
Shaft Diameter d		Bearing Part Number ¹⁾			
mm	inch				
12	–	GRAE 12 NPPB	GAY 12 NPPB	–	GYE 12 KRRB
–	$\frac{1}{2}$	GRA 008 NPPB	GAY 008 NPPB	G 1008 KRRB	GY 1008 KRRB
15	–	GRAE 15 NPPB	GAY 15 NPPB	–	GYE 15 KRRB
–	$\frac{5}{8}$	GRA 010 NPPB	GAY 010 NPPB	G 1010 KRRB	GY 1010 KRRB
16	–	–	–	–	GYE 16 KRRB
17	–	GRAE 17 NPPB	GAY 17 NPPB	GE 17 KRRB	GYE 17 KRRB
–	$\frac{3}{4}$	GRA 012 NPPB	GAY 012 NPPB	G 1012 KRRB	GY 1012 KRRB
20	–	GRAE 20 NPPB	GAY 20 NPPB	GE 20 KRRB	GYE 20 KRRB
–	$\frac{7}{8}$	GRA 014 NPPB	–	G 1014 KRRB	GY 1014 KRRB
–	$\frac{15}{16}$	–	–	G 1015 KRRB	GY 1015 KRRB
25	–	GRAE 25 NPPB	GAY 25 NPPB	GE 25 KRRB	GYE 25 KRRB
–	1	GRA 100 NPPB	GAY 100 NPPB	G 1100 KRRB	GY 1100 KRRB
–	$\frac{1\frac{1}{16}}$	GRA 101 NPPB	–	–	–
–	$\frac{1\frac{1}{8}}$	GRA 102 NPPB	–	G 1102 KRRB	GY 1102 KRRB
30	–	GRAE 30 NPPB	GAY 30 NPPB	GE 30 KRRB	GYE 30 KRRB
–	$\frac{1\frac{3}{16}}$	GRAE 103 NPPB	GAY 103 NPPB	G 1103 KRRB	GY 1103 KRRB
–	$\frac{1\frac{1}{4}}$	GRA 104 NPPB-206	–	G 1104 KRRB-206	GY 1104 206-KRRB
–	$\frac{1\frac{1}{4}}$	GRA 104 NPPB	GAY 104 NPPB	G 1104 KRRB	GY 1104 KRRB
–	$\frac{1\frac{3}{8}}$	GRA 106 NPPB	–	G 1106 KRRB	GY 1106 KRRB
35	–	GRAE 35 NPPB	GAY 35 NPPB	GE 35 KRRB	GYE 35 KRRB
–	$\frac{1\frac{7}{16}}$	GRA 107 NPPB	GAY 107 NPPB	G 1107 KRRB	GY 1107 KRRB
–	$\frac{1\frac{7}{16}}$	GRA 107 NPPB-208	–	–	–
–	$\frac{1\frac{1}{2}}$	GRA 108 NPPB	GAY 108 NPPB	G 1108 KRRB	GY 1108 KRRB
–	$\frac{1\frac{9}{16}}$	–	–	G 1109 KRRB	–
40	–	GRAE 40 NPPB	GAY 40 NPPB	GE 40 KRRB	GYE 40 KRRB
–	$\frac{1\frac{1}{2}}$	–	–	–	GY 1108 KRRB-209
–	$\frac{1\frac{5}{8}}$	–	–	G 1110 KRRB	GY 1110 KRRB
–	$\frac{1\frac{11}{16}}$	–	–	G 1111 KRRB	GY 1111 KRRB
–	$\frac{1\frac{3}{4}}$	GRA 112 NPPB	GAY 112 NPPB	G 1112 KRRB	GY 1112 KRRB
45	–	GRAE 45 NPPB	GAY 45 NPPB	GE 45 KRRB	GYE 45 KRRB

¹⁾ See catalogue 520 for additional types and sizes.

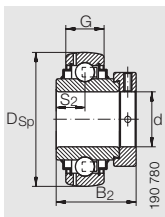
²⁾ Pounds = kN (kilonewtons) × 1 000 ÷ 4.45.



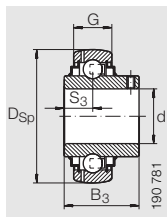
GRA(E)..NPPB



GAY..NPPB



G(E)..KRRB



GY(E)..KRRB

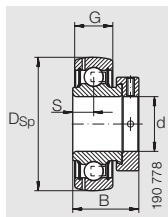
Millimeters (nominal)/Inch (rounded to nearest fraction)										Capacity ²⁾		Shaft Diameter	
D	B	E	E ₁	E ₂	E ₃	L	L ₁	L ₂	L ₃	dyn. kN	stat. kN	d	
												mm	inch
40	12	6.5	6	13.9	11.5	28.6	22	37.3	27.4	9.6	4.75	12	–
												–	1/2
												15	–
												–	5/8
												16	–
47	14	7.5	7	17.1	12.7	31	25	43.7	31	12.6	6.6	17	–
												–	3/4
												20	–
52	15	7.5	7.5	17.5	14.3	31	27	44.4	34.1	14	7.8	–	7/8
												–	15/16
												25	–
62	18	9	9	18.3	15.9	35.7	30	48.4	38.1	19.5	11.3	–	1
												–	1 ¹ /16
												–	1 ¹ /8
												30	–
												–	1 ³ /16
72	19	9.5	9.5	18.8	17.5	38.9	35	51.1	42.9	25.5	15.3	–	1 ¹ /4
												–	1 ³ /8
												35	–
												–	1 ⁷ /16
												–	1 ⁷ /8
80	21	11	10.5	21.4	19	43.7	39.5	56.3	49.2	32.5	19.8	–	1 ⁷ /16
												–	1 ¹ /2
												–	1 ⁹ /16
												40	–
85	22	11	11	21.4	19	43.7	41.5	56.3	49.2	32.5	20.4	–	1 ¹ /2
												–	1 ⁵ /8
												–	1 ¹¹ /16
												–	1 ³ /4
												45	–

Radial Insert Ball Bearings Spherical O.D.

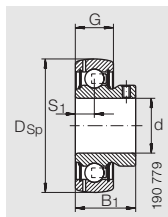
Dimension table · Dimensions in mm/inch					
Shaft Diameter d		Bearing Part Number ¹⁾			
mm	inch				
–	$1^{15}/_{16}$	<i>GRA 115 NPPB</i>	<i>GAY 115 NPPB</i>	<i>G 1115 KRRB</i>	<i>GY 115 KRRB</i>
50	–	<i>GRAE 50 NPPB</i>	<i>GAY 50 NPPB</i>	<i>GE 50 KRRB</i>	<i>GYE 50 KRRB</i>
–	2	–	<i>GAY 200 NPPB-210</i>	–	–
–	2	<i>GRA 200 NPPB</i>	–	<i>G 1200 KRRB</i>	<i>GY 1200 KRRB</i>
55	–	<i>GRAE 55 NPPB</i>	–	<i>GE 55 KRRB</i>	<i>GYE 55 KRRB</i>
–	$2^3/_{16}$	<i>GRA 203 NPPB</i>	–	<i>G 1203 KRRB</i>	<i>GY 1203 KRRB</i>
–	$2^1/_4$	–	–	–	<i>GY 1204 KRRB</i>
60	–	<i>GRAE 60 NPPB</i>	<i>GAY 60 NPPB</i>	<i>GE 60 KRRB</i>	<i>GYE 60 KRRB</i>
–	$2^7/_{16}$	<i>GRA 207 NPPB</i>	–	<i>G 1207 KRRB</i>	<i>GY 1207 KRRB</i>
–	$2^1/_2$	–	–	–	<i>GY 1208 KRRB-213</i>
65	–	–	–	–	<i>GYE 65 KRRB-213</i>
–	$2^1/_2$	–	–	–	<i>GY 1208 KRRB</i>
65	–	–	–	<i>GE 65 KRRB</i>	<i>GYE 65 KRRB</i>
–	$2^{11}/_{16}$	–	–	<i>G 1211 KRRB</i>	–
70	–	–	–	<i>GE 70 KRRB</i>	<i>GYE 70 KRRB</i>
–	$2^3/_4$	–	–	–	<i>GY 1212 KRRB</i>
–	$2^{15}/_{16}$	–	–	<i>G 1215 KRRB</i>	<i>GY 1215 KRRB</i>
75	–	–	–	<i>GE 75 KRRB</i>	<i>GYE 75 KRRB</i>
–	3	–	–	–	<i>GY 1300 KRRB</i>
80	–	–	–	<i>GE 80 KRRB</i>	<i>GYE 80 KRRB</i>

1) See *catalogue 520* for additional types and sizes.

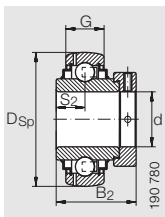
2) Pounds = kN (kilonewtons)×1 000 ÷4.45.



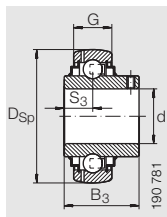
GRA(E)..NPPB



GAY..NPPB



G(E)..KRRB



GY(E)..KRRB

Millimeters (nominal)/Inch (rounded to nearest fraction)										Capacity ²⁾		Shaft Diameter d	
D	B	E	E ₁	E ₂	E ₃	L	L ₁	L ₂	L ₃	dyn. kN	stat. kN	mm	inch
90	22	11	11	24.6	19	43.7	43	62.7	51.6	35	23.2	–	1 ¹⁵ / ₁₆
												50	–
												–	2
100	25	12	–	27.8	22.2	48.4	–	71.4	55.6	43.5	29	–	2
												55	–
												–	2 ³ / ₁₆
110	24	13.5	13	31	25.4	53.1	47	77.8	65.1	52	36	–	2 ¹ / ₄
												60	–
												–	2 ⁷ / ₁₆
120	23	–	–	–	25.4	–	–	–	65.1	57	40	–	2 ¹ / ₂
												65	–
												–	2 ¹ / ₂
125	28	–	–	21.5	30.2	–	–	66.1	74.6	62	44	65	–
												–	2 ¹¹ / ₁₆
												70	–
130	28	–	–	21.5	33.3	–	–	67.1	77.8	62	44.5	–	2 ³ / ₄
												–	2 ¹⁵ / ₁₆
												75	–
140	30	–	–	23.4	33.3	–	–	71	82.6	72	54	–	3
												80	–

Other Products

Bearings

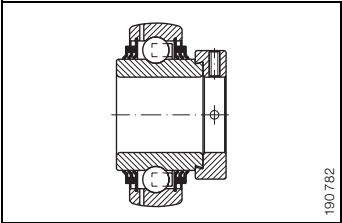


Figure 1 · Triple Lip Seal

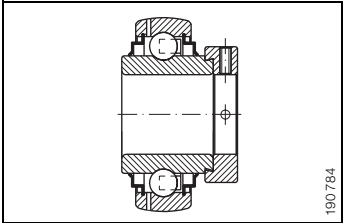


Figure 3 · Labyrinth Seal

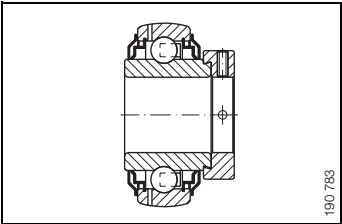


Figure 2 · Anti-Wrap
Flinger Shield

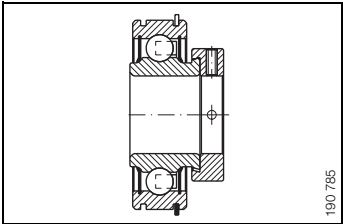


Figure 4 · Cylindrical O.D.

Other Products

Housed bearing units

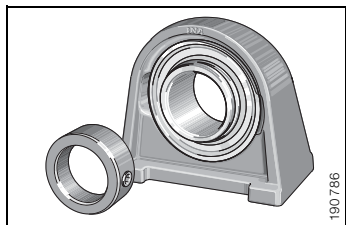


Figure 5 · Tapped Base Pillow Block

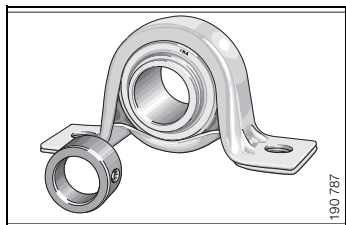


Figure 6 · Stamped Steel Pillow Block

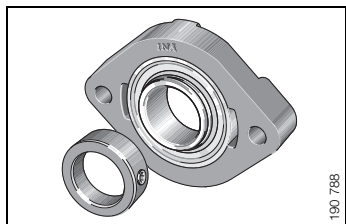


Figure 7 · Flat Two-Bolt Flange

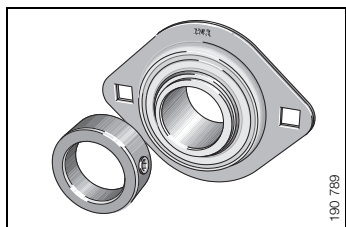


Figure 8 · Stamped Steel Two-Bolt Flange

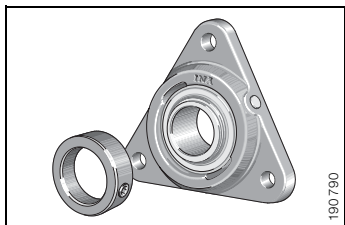


Figure 9 · Three Bolt Flange

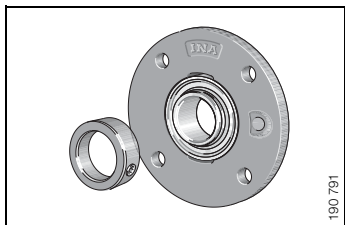


Figure 10 · Round Four-Bolt Flange

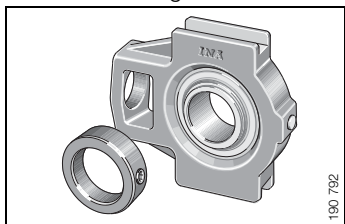


Figure 11 · Take-Up Unit

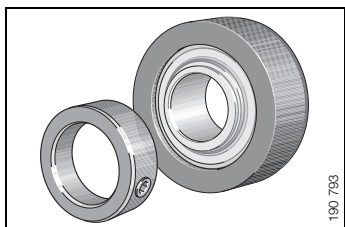


Figure 12 · Rubber O.D. Fan Bearing Unit

Other Products

Miscellaneous



Figure 13 · Square Bore Bearing



Figure 15 · Idler Sprocket



Figure 14 · Hex Bore Bearing

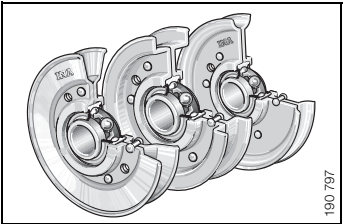


Figure 16 · Idler Pulley

INA Locations

Head Office

Sutton Coldfield

INA Bearing Company Ltd
Forge Lane, Minworth
Sutton Coldfield
West Midlands · B76 1AP
Phone 0121 351 3833
Fax 0121 351 7686
Website www.ina.co.uk
E-mail ina.bearing@uk.ina.com

Manufacturing Plant

Llanelli

INA Bearing Company Ltd
Bynea
Llanelli, Carmarthen
SA14 9TG
Phone 01554 772288
Fax 01554 771201
Website www.ina.co.uk
E-mail ina.bearing@uk.ina.com



INA Bearing Company Ltd

Forge Lane, Minworth · Sutton Coldfield
West Midlands · B76 1AP

Phone 0121 351 3833

Fax 0121 351 7686

Website www.ina.co.uk

E-mail ina.bearing@uk.ina.com