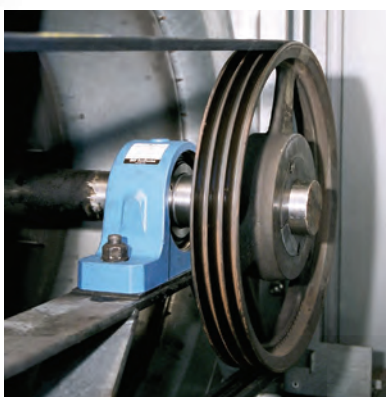
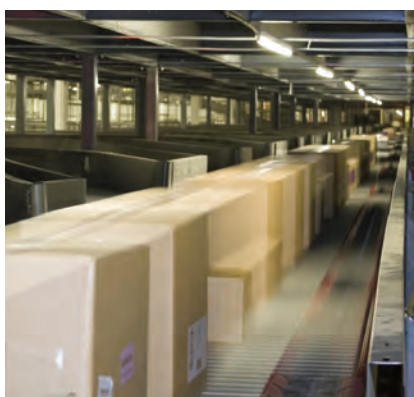
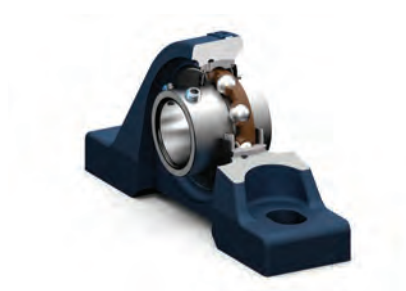


SKF Mounted ball bearing units and Insert bearings UC Range

Japanese Industrial Standards compliant ball bearing units





Pillow block unit (UCP)

Pillow block housings, the most popular housing design for mounted bearings, are available in several series. All are designed to support loads primarily directed through the base.



Four-bolt flange units Square (UCF) or Round (UCFC)

Four-bolt cast iron flange units are designed to support shafts through walls, bulkheads and other flat surfaces. The housing mounts flush to the surface and the load is carried by the four mounting bolts.



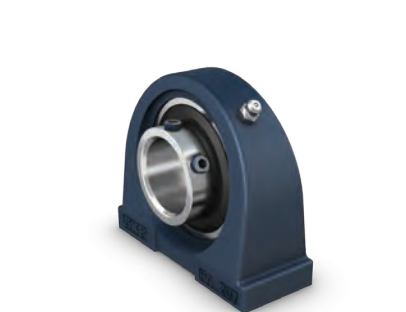
Three-bolt flange unit (UCFB)

Similarly, three-bolt cast iron flange units are designed to support shafts through walls, bulkheads and other flat surfaces, specifically for applications where three-bolt mounting arrangement is required.



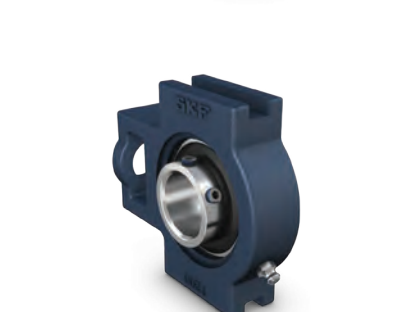
Two-bolt flange unit (UCFL)

Two-bolt cast iron flange units support shafts through walls, bulkheads and other flat surfaces, but have a more compact two-bolt design.



Tapped base unit (UCPA)

Tapped base housings are a variation of pillow block housings. Their design is optimised for radial loads acting in the direction of the base or the support surface. Tapped base units have a narrow width for tight areas and the non-tensioning end of conveyors.



Take-up unit (UCT)

These take-up units are typically used in conjunction with a customer supplied frame for belt or shaft tensioning in conveyor, elevator and power transmission applications. A wide slot for the frame guide is standard.

SKF UC range, quality products that meet your market reality

You need a robust and reliable insert bearing unit solution, one that's easy to install, simple to order and improves productivity? SKF now offers a product that matches your operational and application requirements.

At SKF, we have developed a range of insert bearing units, called "UC range", designed to be interchangeable with JIS* equipment. These SKF UC bearing units are designed with a set screw locking feature, to operate in environments where systemic vibrations are typical in the application.

Easy to order, easy to replace

You want a solution that makes your life easy; a solution with the same boundary dimensions, housing configurations and easily identifiable part numbers?

The SKF insert bearing units - UC range achieves this and more.

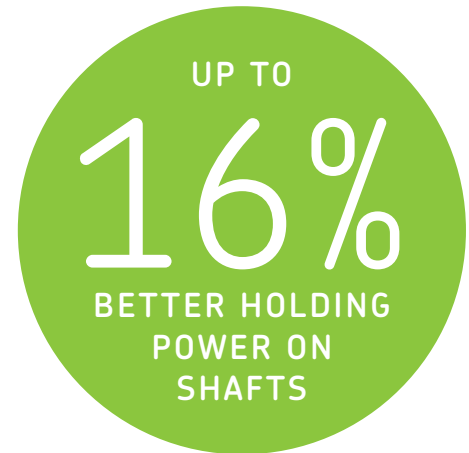
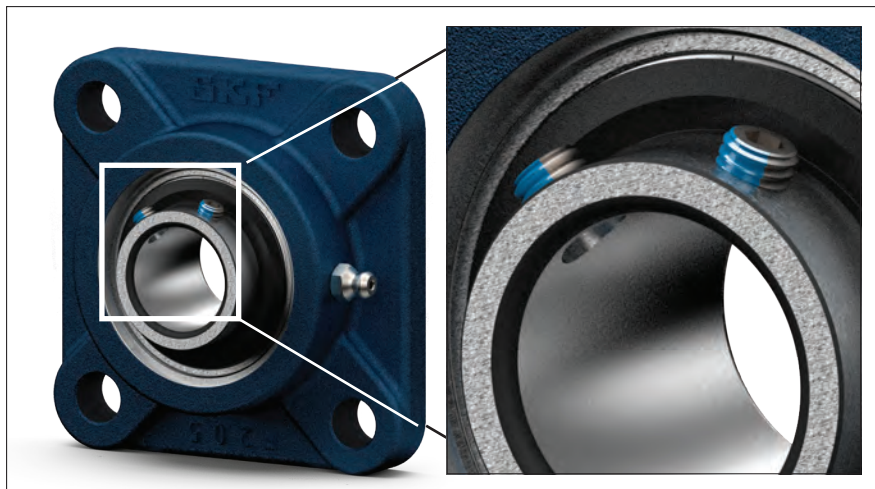
For convenience, no modification of your machine is needed. The dimensions meet most of the current UC designated bearing unit fitting requirements, enhancing interchangeability. And whatever product you need, with SKF you know it will be easy to obtain and straightforward to install.

* JIS: Japanese Industrial Standards



Applications include

- Material handling conveyors
- Packaging equipment
- HVAC equipment
- Agricultural machinery
- Food process machinery
- Parcel and baggage handling conveyors
- Construction machinery
- Textile machinery
- Fitness equipment
- Escalators
- Metals industry



Combining JIS* compatibility with SKF reliability

With over 100 years of experience, SKF understands machine and plant productivity and the need to deliver high rotating equipment performance.

The SKF UC range has been designed to provide reliable performance as well and reduce machine downtime. It includes specific features that can make the difference in your equipment.

An enhanced set screw locking system

One of the reasons for failure in low speed, highly loaded conveyor applications is machine vibration loosening the locking systems.

SKF has overcome this problem by using an enhanced set screw locking design. At its heart is a nylon patch that creates extra resistance to screw loosening. A simple solution which eliminates the labour associated with the use of messy liquid locking compounds that have no removal or reinstallation options.

The locking device on the SKF UC range increases the axial holding power by up to 16% (→ **Diagram 1**), so there is greater grip between the shaft and bearing. This is a big advantage for units operating in systemic vibrating applications, such as conveyors.

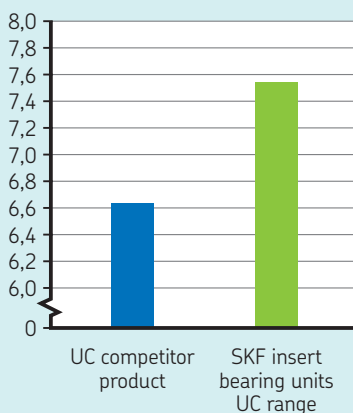
A solid base and solid feet for increased cleanliness and better bearing unit support

The solid base design of SKF mounted units – UC range provides a cleaner surface with less potential ingress for contaminants and for improved bearing unit support, especially in the often heavily contaminated conveyor operating environment.

A solid base design is now standard on our two bolt flanged housings and the pillow block housings (→ **fig. 1**). This limits the opportunity for dirt to collect underneath the housing support – another step forward for better bearing unit hygiene.

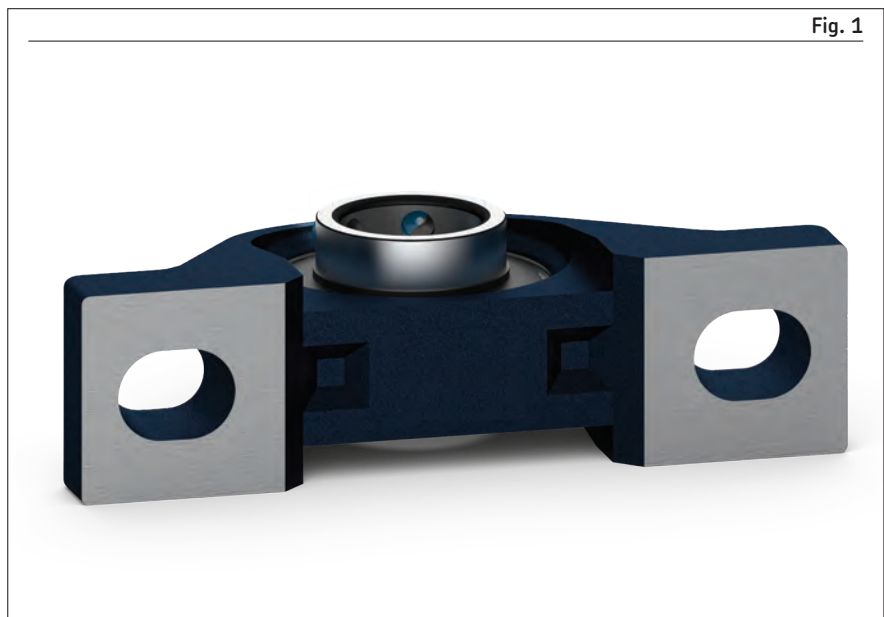
Diagram 1

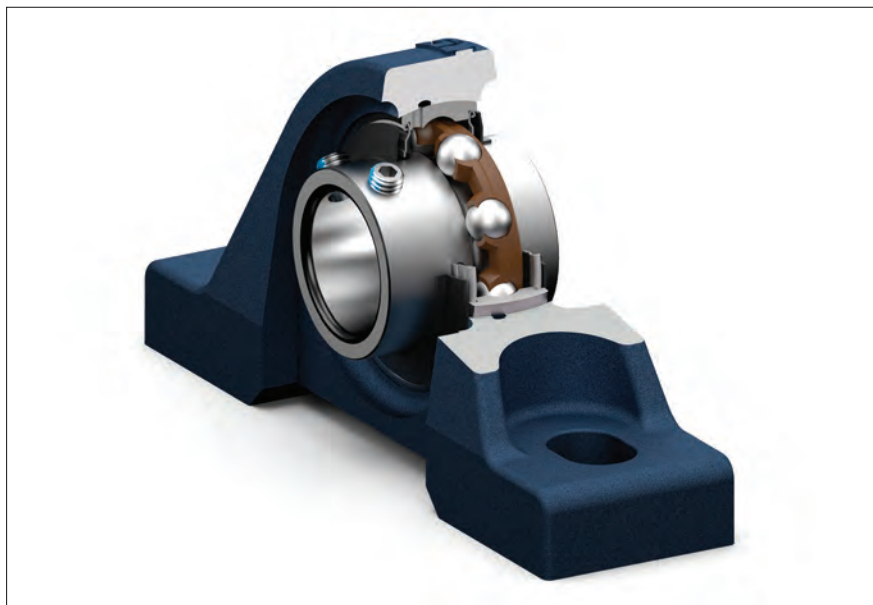
Shaft holding power [kN]



Note: testing results based on two 1/4 inch shaft set screws, individual results may vary depending on shaft material, hardness and other factors.

Fig. 1





The advantages for you at a glance

- Interchangeable with JIS* housings
- A more secure locking system in applications where systemic vibrations occur
- Widely available throughout SKF's global distribution network resulting in shorter lead times
- Insert bearings (metric / imperial) and housing units (metric / imperial) are sold separately

* JIS: Japanese Industrial Standards

Sealing system

The standard seal for SKF insert bearing units – UC range is the rugged integral seal protected with an additional flinger to help exclude contaminants.

The integral seal consists of a pressed sheet steel washer with a sealing lip made of NBR bonded to its inner surface. The coated non-contact sheet steel washer forms a narrow gap with the cylindrical surface of the inner ring protecting the land-riding seal against contaminants. Enhancing the seal's effectiveness are externally applied coated flingers.

Other sealing solutions are available for extremely contaminated operating environments. Please contact the SKF application engineering service for more information.

SKF high-quality grease

Poor lubrication accounts for over 36% of premature bearing failures. In fact, most low speed applications fail due to lubrication related issues, not necessarily due to bearing fatigue.

Provided recommended maintenance intervals are followed, SKF high-quality grease helps bearings achieve expected service life as the SKF range of lubricants are designed to perform under real conditions (→ **Table 1**).

Benefit from SKF's global distribution network

Finding replacement parts can sometimes be a challenge. SKF is well positioned to bring you the right support and the right parts, no matter where your application is based.

Optional end covers for flanged and take-up housings

To comply with health and safety regulations, SKF UC bearing units with flanged and take up housings (F, FC, FL, FB, T) are available with polypropylene end covers as an optional extra.

Please note, standard UC Pillow block (P) and Tapped base plummer block (PA) housings do not have a groove for mounting an end cover. If you require an end cover on these units, you can request a special groove to be machined using Suffix VZ811.

Table 1

Lubricating greases

Technical specification	Grease fills in standard insert bearings standard insert bearing units
Thickener	Lithium-calcium soap
Base oil	Mineral oil
Colour	Yellowish brown
Temperature range [°C] (continuous operation)	–30 to +120 ¹
Kinematic viscosity [mm ² /s]	190/15
Consistency (to NLGI scale)	2
Other	Long life grease

¹⁾ The temperature range for reliable operation in accordance with the SKF traffic light concept is between 10 and 120 °C.



Polypropylene end cover

The complete designation for the SKF insert bearing units – UC range consists of:

- Prefixes, identifying insert bearing or housing series
- Figures, identifying the size
- Suffixes, identifying design and variants

Designation system

Examples: UCP 205
UCF 205-15
UCFL 204B
T 215
UC 212

UC	P	2	05	
UC	F	2	05-15	
UC	FL	2	04	VZ811
	T	2	15	
UC		2	12	

Bearing series

UC Insert bearing, cylindrical bore with set screws

Housing type

P	Pillow block unit
F	Flanged unit, square 4-bolt flange
FL	Flanged unit, oval 2-bolt flange
FC	Flanged unit, round 4-bolt flange
T	Take-up unit for linear motion ¹⁾
FB	Flanged unit, 3-bolt flange ¹⁾
PA	Tapped base pillow block unit ¹⁾

Dimension series

2 Normal series

Bore diameter

	For metric shaft
04	20 mm
15	75 mm

For inch shaft
Two-digit number follows the basic metric bearing size
and is separated from this by a hyphen; it is the number of
sixteenths ($1/16$) of an inch
 $15/16$ in = 23.813 mm

Suffixes

Z Use this suffix if you require inch threaded attaching holes for the insert bearing
Standard insert bearings come with metric threaded attaching holes

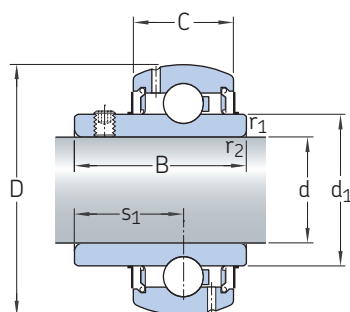
J Use this suffix if Pressed steel cage is required for Insert bearings range 204 - 210
Standard Insert bearings range 204 - 210 come with Polymer cage.

VZ811 With additional groove for mounting End Cover for Pillow block (P) and Tapped base plummer block (PA) housings only.

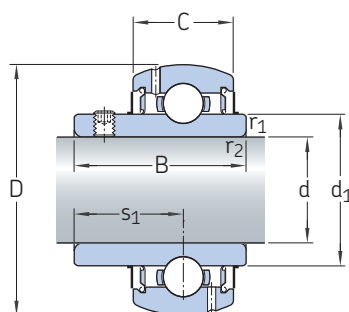
Note: standard flanged and take-up housing are designed to accommodate end covers as an option.

Insert bearings with set screws,

for metric shafts (d: 20 - 90 mm) and inch shafts (d: 3/4 - 2 1/2)



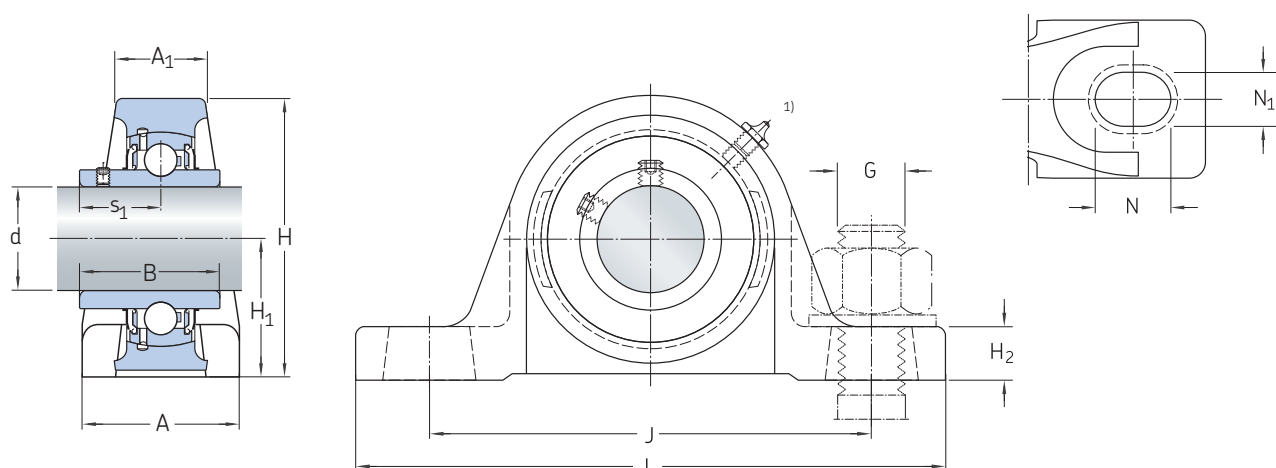
Polymer cage for size 204 to 210



Pressed steel cage for size 211 and above

Shaft Dia. d		Designation	Dimensions					Basic load ratings		Fatigue load limit P_u	Limiting speed with shaft tolerance h6	Mass
			D	B	C	d_1	s_1	$r_{1,2}$	C_0			
mm	in		mm					min.	kN	kN	r/min	kg
20	3/4	UC 204 UC 204-12	47	31	15	28,7	18,3	1	12,7	6,7	0,3	0,15 0,16
25	7/8 15/16 1	UC 205 UC 205-14 UC 205-15 UC 205-16	52	34	15	33,7	19,7	1	14	7,8	0,3	0,19 0,21 0,20 0,18
30	1 1/8 1 3/16	UC 206 UC 206-18 UC 206-19	62	38,1	18	39,8	22,2	1	19,5	11,4	0,5	0,30 0,32 0,30
35	1 1/4 1 3/8 1 7/16	UC 207 UC 207-20 UC 207-22 UC 207-23	72	42,9	19	46,8	25,4	1,1	25,5	15,3	0,7	0,46 0,52 0,47 0,43
40	1 1/2	UC 208 UC 208-24	80	49,2	22	52,5	30,2	1,1	32,5	20	0,9	0,61 0,65
45	1 3/4	UC 209 UC 209-28	85	49,2	22	57,3	30,2	1,1	32,5	20,4	0,9	0,67 0,69
50		UC 210	90	51,6	22	62,1	32,6	1,1	35,1	23,2	1,0	0,74
55	2	UC 211 UC 211-32	100	55,6	25	70	33,4	1,5	43,6	29	1,3	1,07 1,22
60	2 1/4	UC 212 UC 212-36	110	65,1	27	77	39,7	1,5	52,7	36	1,5	1,50 1,37
65	2 1/2	UC 213 UC 213-40	120	65,1	27	82,1	39,7	1,5	57,2	40	1,7	1,81 1,73
70		UC 214	125	74,6	29	87	44,4	1,5	62,4	44	1,9	2,01
75		UC 215	130	77,8	30	91,5	44,5	1,5	66,3	49	2	2,20
80		UC 216	140	82,6	32	98,5	49,3	2	71,5	54	2,2	2,79
85		UC 217	150	85,7	34	105	51,6	2	83,2	64	2,5	3,38
90		UC 218	160	96	36	111,5	56,3	2	95,6	72	2,7	4,23

Insert bearing pillow block unit with set screws,
for metric shafts (d 20 - 90 mm) and inch shafts (d 3/4 - 2 1/2)

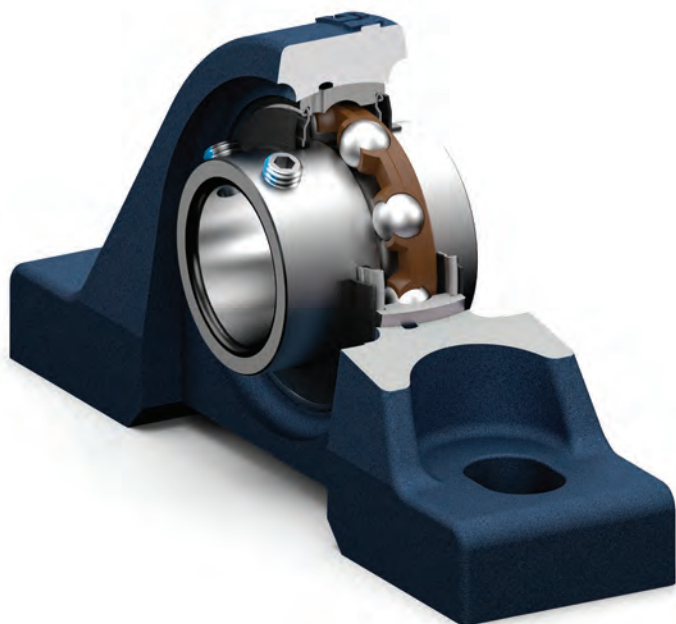


Dimensions

Shaft Dia.		Unit	Dimensions										
d			A	A ₁	B	H	H ₁	H ₂	J	L	N	N ₁	G
mm	in		mm										mm
20	3/4	UCP 204 UCP 204-12	34	20,8	31	64,3	33,3	13,5	95	127	18	13	M10
25	7/8 15/16 1	UCP 205 UCP 205-14 UCP 205-15 UCP 205-16	38,1	21,3	34	70,6	36,5	15,9	105	139,7	18	13	M10
30	1 1/8 1 3/16	UCP 206 UCP 206-18 UCP 206-19	44,6	23,6	38,1	83,3	42,9	16,7	121	165,1	21	17	M14
35	1 1/4 1 3/8 1 7/16	UCP 207 UCP 207-20 UCP 207-22 UCP 207-23	45,8	26,7	42,9	93,7	47,6	18,3	127	166,7	21	17	M14
40	1 1/2	UCP 208 UCP 208-24	48,8	29	49,2	101	49,2	20,6	137	184,2	21	17	M14
45	1 3/4	UCP 209 UCP 209-28	51,2	29,3	49,2	108	54	19,1	146	189,7	21	17	M14
50		UCP 210	55,6	30,7	51,6	115,9	57,2	19,1	159	206,4	22	20	M16
55	2	UCP 211 UCP 211-32	58,9	34,6	55,6	126,2	63,5	22,2	171	219,1	22	20	M16
60	2 1/4	UCP 212 UCP 212-36	61,6	34,3	65,1	141,3	69,8	22,2	184	239,8	25	20	M16
65	2 1/2	UCP 213 UCP 213-40	71,9	34,9	65,1	153,6	76,2	25,4	203	265,1	30	25	M20
70		UCP 214	72,1	40,5	74,6	159,5	79,4	28,2	210	265,9	30	25	M20
75		UCP 215	73	42	77,8	166	82,6	25,4	217	271,5	30	25	M20
80		UCP 216	77,8	45,2	82,6	176,2	88,9	34	232	292,1	35	25	M20
85		UCP 217	83,2	47,6	85,7	188,9	95,2	36	247	310,4	35	25	M20
90		UCP 218	88	50,8	96	202,4	101,6	38	262	327,0	40	27	M22

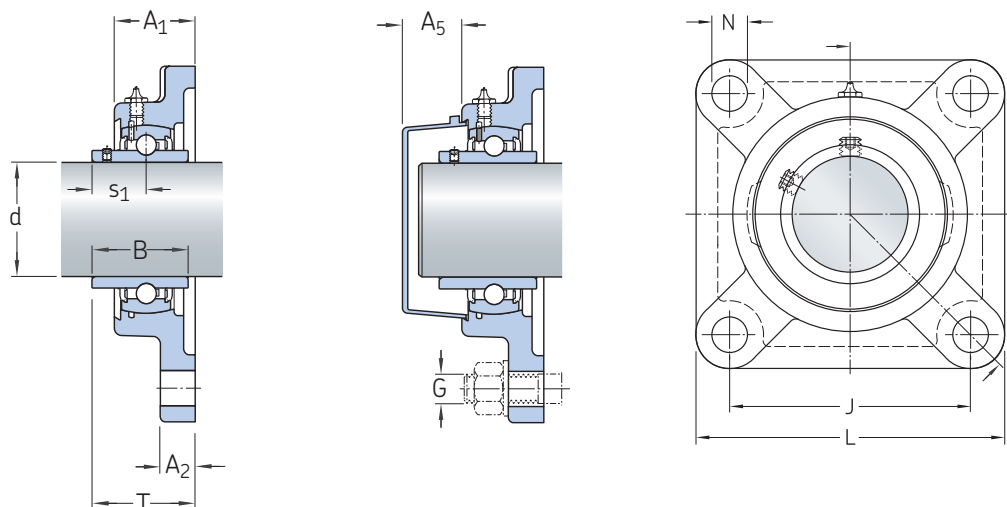
¹⁾ The grease nipple is centered on the housing for size 210 and above.

²⁾ To order end cover for P type housing, use Suffix VZ811 together with the end cover designation eg. P204



Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance	Mass	Designations	Bearing	Appropriate end cover ²⁾
dynamic	static				Housing		
C	C ₀	P _u	h6				
kN		kN	r/min	kg	–		
12,7	6,7	0,3	6 500	0,66 0,67	P204	UC 204 UC 204-12	ECY 204
14	7,8	0,3	5 850	0,86 0,88 0,87 0,85	P 205	UC 205 UC 205-14 UC 205-15 UC 205-16	ECY 205
19,5	11,4	0,5	5 000	1,34 1,36 1,34	P 206	UC 206 UC 206-18 UC 206-19	ECY 206
25,5	15,3	0,7	4 300	1,62 1,68 1,63 1,59	P 207	UC 207 UC 207-20 UC 207-22 UC 207-23	ECY 207
32,5	20	0,9	3 750	2,17 2,21	P 208	UC 208 UC 208-24	ECY 208
32,5	20,4	0,9	3 400	2,40 2,42	P 209	UC 209 UC 209-28	ECY 209
35,1	23,2	1,0	3 300	2,88	P 210	UC 210	ECY 210
43,6	29	1,3	3 000	3,95 4,43	P 211	UC 211 UC 211-32	ECY 211
52,7	36	1,5	2 700	5,05 4,92	P 212	UC 212 UC 212-36	ECY 212
57,2	40	1,7	2 350	6,63 6,55	P 213	UC 213 UC 213-40	ECY 213
62,4	44	1,9	2 250	7,17	P 214	UC 214	ECY 214
66,3	49	2,0	2 100	8,17	P 215	UC 215	ECY 215
71,5	54	2,2	1 900	9,30	P 216	UC 216	ECY 216
83,2	64	2,5	1 800	12,9	P 217	UC 217	ECY 217
95,6	72	2,7	1 600	14,5	P 218	UC 218	ECY 218

Insert bearing flanged units with square 4-bolt flange housing, with set screws,
for metric shafts (d 20 - 90 mm) and inch shafts (d 3/4 - 2 1/2)



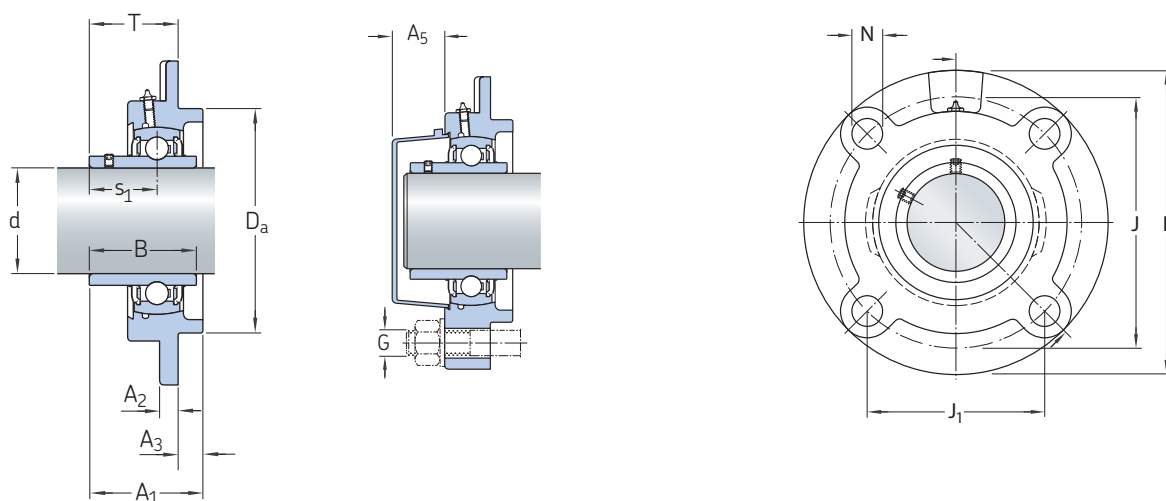
Dimensions

Shaft Dia.		Unit	Dimensions									
d			A ₁	A ₂	B	J	L	N	G	s ₁	T	A ₅
mm	in		mm						—	mm		
20	3/4	UCF 204 UCF 204-12	25,4	11,1	31	64	85,7	12	M10	18,3	33,3	18,5
25	7/8	UCF 205 UCF 205-14 UCF 205-15 UCF 205-16	26,9	12,7	34	70	95,3	12	M10	19,7	35,7	18
30	1 1/8 1 3/16	UCF 206 UCF 206-18 UCF 206-19	30	14,3	38,1	83	108	12	M10	22,2	40,2	20
35	1 1/4 1 3/8 1 7/16	UCF 207 UCF 207-20 UCF 207-22 UCF 207-23	32	15,1	42,9	92	117,5	14	M12	25,4	44,4	22
40	1 1/2	UCF 208 UCF 208-24	35,7	15,1	49,2	102	130,2	16	M14	30,2	51,2	23,5
45	1 3/4	UCF 209 UCF 209-28	38,1	15,9	49,2	105	136,5	16	M14	30,2	52,2	23
50		UCF 210	39,7	15,9	51,6	111	142,9	16	M14	32,6	54,6	29,5
55	2	UCF 211 UCF 211-32	42,9	18,3	55,6	130	161,9	19	M16	33,4	58,4	34
60	2 1/4	UCF 212 UCF 212-36	47,6	18,3	65,1	143	174,6	19	M16	39,7	68,7	35,5
65	2 1/2	UCF 213 UCF 213-40	50	22,2	65,1	149	187,3	19	M16	39,7	69,7	35,5
70		UCF 214	53,9	22,2	74,6	152	192,9	19	M16	44,4	75,4	38,5
75		UCF 215	56,4	22,2	77,8	159	200	19	M16	44,5	78,5	38,5
80		UCF 216	57,9	22,2	82,6	165	207,9	23	M20	49,3	83,3	41,5
85		UCF 217	62,7	23,8	85,7	175	219,9	23	M20	51,6	87,6	43,2
90		UCF 218	68,3	25,4	96	187	234,9	23	M20	56,3	96,3	45,3



Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance	Mass	Designations Housing	Bearing	Appropriate end cover
dynamic	static						
C	C ₀	P _u	h6				
kN		kN	r/min	kg	–		
12,7	6,7	0,3	6 500	0,49 0,50	F 204	UC 204 UC 204-12	ECY 204
14,0	7,8	0,3	5 850	0,63 0,65 0,64 0,62	F 205	UC 205 UC 205-14 UC 205-15 UC 205-16	ECY 205
19,5	11,4	0,5	5 000	0,89 0,91 0,89	F 206	UC 206 UC 206-18 UC 206-19	ECY 206
25,5	15,3	0,7	4 300	1,25 1,31 1,26 1,22	F 207	UC 207 UC 207-20 UC 207-22 UC 207-23	ECY 207
32,5	20	0,9	3 750	1,69 1,73	F 208	UC 208 UC 208-24	ECY 208
32,5	20,4	0,9	3 400	1,96 1,98	F 209	UC 209 UC 209-28	ECY 209
35,1	23,2	1,0	3 300	2,23	F 210	UC 210	ECY 210
43,6	29	1,3	3 000	3,60 4,08	F 211	UC 211 UC 211-32	ECY 211
52,7	36	1,5	2 700	3,97 3,84	F 212	UC 212 UC 212-36	ECY 212
57,2	40	1,7	2 350	5,08 5,00	F 213	UC 213 UC 213-40	ECY 213
62,4	44	1,9	2 250	5,34	F 214	UC 214	ECY 214
66,3	49	2,0	2 100	5,86	F 215	UC 215	ECY 215
71,5	54	2,2	1 900	7,02	F 216	UC 216	ECY 216
83,2	64	2,5	1 800	8,91	F 217	UC 217	ECY 217
95,6	72	2,7	1 600	11,38	F 218	UC 218	ECY 218

Insert bearing flanged unit with round 4-bolt flange housing, with set screws,
for metric shafts (d 20 - 90 mm) and inch shafts (d 3/4 - 2 1/2)



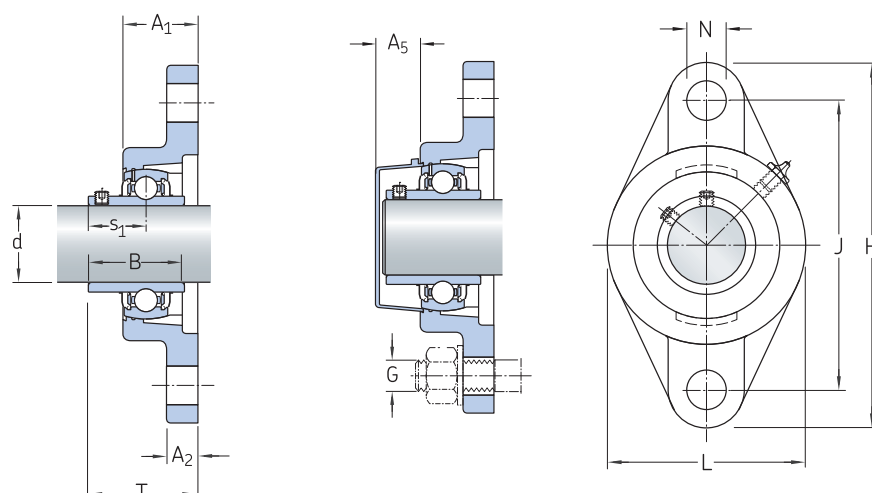
Dimensions

Shaft Dia.		Unit	A ₁	A ₂	A ₃	B	D _a	J	J ₁	L	N	G	s ₁	T	A ₅
d	in		mm												
20	3/4	UCFC 204 UCFC 204-12	26	10	5	31	62	78	55,1	100	12	M10	18,3	28,3	18,5
25	7/8 15/16 1	UCFC 205 UCFC 205-14 UCFC 205-15 UCFC 205-16	27,3	10	6	34	70	90	63,6	115,1	12	M10	19,7	29,7	18
30	1 1/8 1 3/16	UCFC 206 UCFC 206-18 UCFC 206-19	30	10	8	38,1	80	100	70,7	124,6	12	M10	22,2	32,2	20
35	1 1/4 1 3/8 1 7/16	UCFC 207 UCFC 207-20 UCFC 207-22 UCFC 207-23	32	11	8	42,9	90	110	77,8	134,9	14	M12	25,4	36,4	22
40	1 1/2	UCFC 208 UCFC 208-24	35,7	11	10	49,2	100	120	84,8	145,3	14	M12	30,2	41,2	23,5
45	1 3/4	UCFC 209 UCFC 209-28	37,6	10	12	49,2	105	132	93,3	160,3	16	M14	30,2	40,2	23
50		UCFC 210	38,8	10	12	51,6	110	138	97,6	165,1	16	M14	32,6	42,6	29,5
55	2	UCFC 211 UCFC 211-32	43	13	12	55,6	125	150	106,1	184,9	19	M16	33,4	46,4	34
60	2 1/4	UCFC 212 UCFC 212-36	47,6	17	12	65,1	135	160	113,1	195,3	19	M16	39,7	56,7	35,5
65	2 1/2	UCFC 213 UCFC 213-40	50	16	14	65,1	145	170	120,2	204,8	19	M16	39,7	55,7	35,5
70		UCFC 214	53,9	17	14	74,6	150	177	125,1	215,1	19	M16	44,4	61,4	38,5
75		UCFC 215	55,9	18	16	77,8	160	184	130,1	220	19	M16	44,5	62,5	38,5
80		UCFC 216	57,9	18	16	82,6	170	200	141,1	239,7	23	M20	49,3	67,3	41,5
85		UCFC 217	62,7	18	18	85,7	180	208	147,1	250	23	M20	51,6	69,6	43,2
90		UCFC 218	68,3	22	18	96	190	220	155,5	265,1	23	M20	56,3	78,3	45,3



Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance	Mass	Designations Housing	Bearing	Appropriate end cover
dynamic	static						
C	C ₀	P _u	h6				
kN		kN	r/min	kg	–		
12,7	6,7	0,3	6 500	0,72 0,73	FC 204	UC 204 UC 204-12	ECY 204
14,0	7,8	0,3	5 850	1,01 1,03 1,02 1,00	FC 205	UC 205 UC 205-14 UC 205-15 UC 205-16	ECY 205
19,5	11,4	0,5	5 000	1,29 1,31 1,29	FC 206	UC 206 UC 206-18 UC 206-19	ECY 206
25,5	15,3	0,7	4 300	1,61 1,67 1,62 1,58	FC 207	UC 207 UC 207-20 UC 207-22 UC 207-23	ECY 207
32,5	20	0,9	3 750	2,02 2,06	FC 208	UC 208 UC 208-24	ECY 208
32,5	20,4	0,9	3 400	2,45 2,47	FC 209	UC 209 UC 209-28	ECY 209
35,1	23,2	1,0	3 300	2,95	FC 210	UC 210	ECY 210
43,6	29	1,3	3 000	4,26 4,74	FC 211	UC 211 UC 211-32	ECY 211
52,7	36	1,5	2 700	5,10 4,97	FC 212	UC 212 UC 212-36	ECY 212
57,2	40	1,7	2 350	5,70 5,62	FC 213	UC 213 UC 213-40	ECY 213
62,4	44	1,9	2 250	6,87	FC 214	UC 214	ECY 214
66,3	49	2,0	2 100	7,86	FC 215	UC 215	ECY 215
71,5	54	2,2	1 900	9,12	FC 216	UC 216	ECY 216
83,2	64	2,5	1 800	10,3	FC 217	UC 217	ECY 217
95,6	72	2,7	1 600	11,9	FC 218	UC 218	ECY 218

Insert bearing flanged unit with round 2-bolt flange housing, with set screws,
for metric shafts (d 20 - 90 mm) and inch shafts (d 3/4 - 2 1/2)



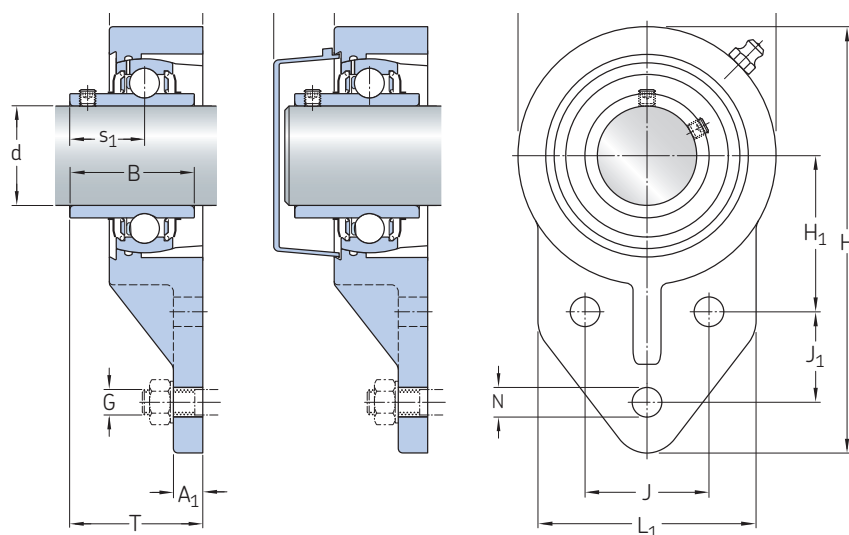
Dimensions

Shaft Dia.		Unit	A ₁	A ₂	B	H	J	L	N	G	s ₁	T	A ₅
d													
mm	in		mm							—	mm		
20	3/4	UCFL 204	25,5	11,1	31	113	90	60,3	12	M10	18,3	33,3	18,5
		UCFL 204-12											
25	7/8 15/16 1	UCFL 205	27	12,7	34	130,2	99	68,3	16	M14	19,7	35,7	18
		UCFL 205-14											
		UCFL 205-15											
		UCFL 205-16											
30	1 1/8 1 3/16	UCFL 206	30	12,7	38,1	147,6	117	80,2	16	M14	22,2	40,2	20
		UCFL 206-18											
		UCFL 206-19											
35	1 1/4 1 3/8 1 7/16	UCFL 207	32	14,3	42,9	161,1	130	89,7	16	M14	25,4	44,4	22
		UCFL 207-20											
		UCFL 207-22											
		UCFL 207-23											
40	1 1/2	UCFL 208	34	14,3	49,2	174,6	144	100	16	M14	30,2	51,2	23,5
		UCFL 208-24											
45	1 3/4	UCFL 209	35	15,1	49,2	188,1	148	108	19	M16	30,2	52,2	23
		UCFL 209-28											
50		UCFL 210	39	15,1	51,6	196,9	157	115,1	19	M16	32,6	54,6	29,5
55	2	UCFL 211	41,4	18,3	55,6	223,8	184	130,2	19	M16	33,4	58,4	34
		UCFL 211-32											
60	2 1/4	UCFL 212	45	18,3	65,1	250	202	139,7	23	M20	39,7	68,7	35,5
		UCFL 212-36											
65	2 1/2	UCFL 213	47	19,8	65,1	258	210	154,8	23	M20	39,7	69,7	35,5
		UCFL 213-40											
70		UCFL 214	50	19,8	74,6	265,1	216	160,3	23	M20	44,4	75,4	38,5
75		UCFL 215	54	20	77,8	275	225	164	23	M20	44,5	78,5	38,5
80		UCFL 216	56	20	82,6	290	233	180	25	M22	49,3	83,3	41,5
85		UCFL 217	60	22	85,7	305	248	190	25	M22	51,6	87,6	43,2
90		UCFL 218	68	23	96	320	265	205	25	M22	56,3	96,3	45,3



Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance	Mass	Designations		Appropriate end cover
dynamic	static				Housing	Bearing	
C	C ₀	P _u	h6				
kN		kN	r/min	kg	–		
12,7	6,7	0,3	6 500	0,44 0,45	FL 204	UC 204 UC 204-12	ECY 204
14	7,8	0,3	5 850	0,62 0,64 0,63 0,61	FL 205	UC 205 UC 205-14 UC 205-15 UC 205-16	ECY 205
19,5	11,4	0,5	5 000	0,90 0,92 0,90	FL 206	UC 206 UC 206-18 UC 206-19	ECY 206
25,5	15,3	0,7	4 300	1,19 1,25 1,20 1,16	FL 207	UC 207 UC 207-20 UC 207-22 UC 207-23	ECY 207
32,5	20	0,9	3 750	1,53 1,57	FL 208	UC 208 UC 208-24	ECY 208
32,5	20,4	0,9	3 400	1,84 1,86	FL 209	UC 209 UC 209-28	ECY 209
35,1	23,2	1,0	3 300	2,17	FL 210	UC 210	ECY 210
43,6	29	1,3	3 000	3,12 3,60	FL 211	UC 211 UC 211-32	ECY 211
52,7	36	1,5	2 700	3,99 3,86	FL 212	UC 212 UC 212-36	ECY 212
57,2	40	1,7	2 350	4,93 4,85	FL 213	UC 213 UC 213-40	ECY 213
62,4	44	1,9	2 250	5,46	FL 214	UC 214	ECY 214
66,3	49	2,0	2 100	5,99	FL 215	UC 215	ECY 215
71,5	54	2,2	1 900	7,52	FL 216	UC 216	ECY 216
83,2	64	2,5	1 800	8,83	FL 217	UC 217	ECY 217
95,6	72	2,7	1 600	10,70	FL 218	UC 218	ECY 218

3-bolt bracket flanged ball bearing units, set screws,
for metric shafts (d 30 - 45 mm) and inch shafts (d 1 1/8 - 1 3/4)



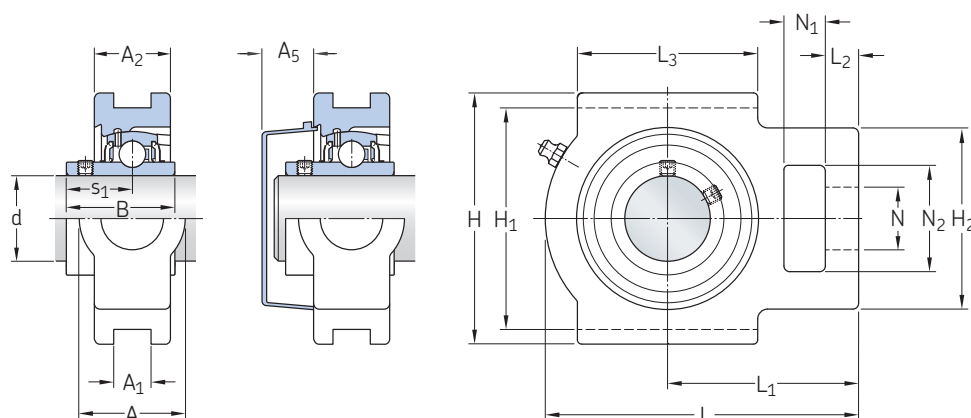
Dimensions

Shaft Dia.		Unit	Dimensions													
d			H	L	A	J	J ₁	N	H ₁	L ₁	A ₁	A ₅	T	B	S ₁	G
mm	in		mm													
30		UCFB 206	136,5	82,6	30	40	29	9,5	50	69,9	9,5	22,5	40,9	38,1	15,9	M8
	1 1/8	UCFB 206-18														
	1 3/16	UCFB 206-19														
35		UCFB 207	144	90	33,5	46	32	9,5	55	82,6	12,7	24,5	44,4	42,9	17,5	M8
	1 1/4	UCFB 207-20														
	1 3/8	UCFB 207-22														
	1 7/16	UCFB 207-23														
40		UCFB 208	164,3	100	35,7	50	41	11	60	77,8	15,9	26	51,2	49,2	19	M10
	1 1/2	UCFB 208-24														
45		UCFB 209	175,5	106,4	36,8	54	43	11	65	80,2	18,3	26,5	50,2	49,2	19	M10
	1 3/4	UCFB 209-28														



Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance	Mass	Designations Housing	Bearing	Appropriate end cover
dynamic	static						
C	C ₀	P _u	h6				
kN		kN	r/min	kg	–		
19,5	11,4	0,5	5 000	0,98 1 0,98	FB 206	UC 206 UC 206-18 UC 206-19	ECY 206
25,5	15,3	0,7	4 300	1,29 1,35 1,3 1,26	FB 207	UC 207 UC 207-20 UC 207-22 UC 207-23	ECY 207
32,5	20,0	0,9	3 750	1,70 1,74	FB 208	UC 208 UC 208-24	ECY 208
32,5	20,4	0,9	3 400	1,99 2,01	FB 209	UC 209 UC 209-28	ECY 209

Take-up ball bearing units, set crews,
for metric shafts (d 20 - 85 mm) and inch shafts (d 3/4 - 2 1/2)



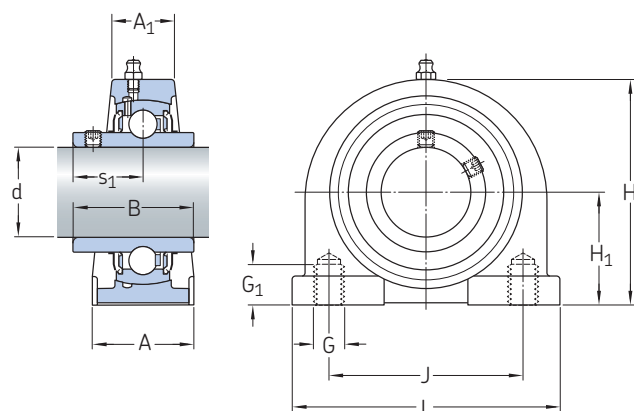
Dimensions

Shaft Dia.		Unit	Dimensions															
d			A	A ₁	A ₂	A ₅	H	H ₁	H ₂	L	L ₁	L ₂	L ₃	N	N ₁	N ₂	B	S ₁
mm	in		mm															
20	3/4	UCT 204 UCT 204-12	31,8	12	20,6	20,5	88,9	76	50,8	96	61,1	10,3	50,8	19	15,9	31,8	31	18,3
25	7/8 15/16 1	UCT 205 UCT 205-14 UCT 205-15 UCT 205-16	31,8	12	23,8	20,5	88,9	76	80,8	99	61,9	10,3	50,8	19	15,9	31,8	34	19,7
30	1 1/8 1 3/16	UCT 206 UCT 206-18 UCT 206-19	37,3	12	27,8	22,5	102,4	89	56,4	115	69,9	10,3	57,2	22	15,9	37,3	38,1	22,2
35	1 1/4 1 3/8 1 7/16	UCT 207 UCT 207-20 UCT 207-22 UCT 207-23	37,3	12	30,2	24,5	102,4	89	64,3	131	77,8	12,7	64,3	22	15,9	37,3	42,9	25,4
40	1 1/2	UCT 208 UCT 208-24	49,2	16	33,3	26	114,3	102	83,3	146	88,1	15,9	83,3	29	19,1	49,2	49,2	30,2
45	1 3/4	UCT 209 UCT 209-28	49,2	16	34,9	26,5	116,7	102	83,3	146	87,3	15,9	83,3	29	21,1	51,2	49,2	30,2
50		UCT 210	49,2	16	37,3	33	116,7	102	83,3	151	89,7	15,9	85,7	29	19,1	49,2	51,6	32,6
55	2	UCT 211 UCT 211-32	64,3	22	38,1	37,5	146,1	130	102,4	173	106,4	19,1	95,3	35	25,4	64,3	55,6	33,4
60	2 1/4	UCT 212 UCT 212-36	64,3	22	42,1	39	146,1	130	102,4	196	119,1	19,1	102,4	35	31,8	64,3	65,1	39,4
65	2 1/2	UCT 213 UCT 213-40	69,9	26	43,7	39	166,7	151	111,1	226	137,3	20,6	120,7	41	31,8	69,9	65,1	39,4
70		UCT 214	69,9	26	46	41,5	166,7	151	111,1	226	137,3	20,6	120,7	41	31,8	69,9	74,6	44,4
75		UCT 215	69,9	26	47,6	41,5	166,7	151	111,1	234	139,7	20,6	120,7	41	31,8	69,9	77,8	44,5
80		UCT 216	69,9	26	50,8	41,5	184,2	165	111,1	237	139,7	20,6	120,7	41	31,8	69,9	82,6	49,3
85		UCT 217	73	30	54	43	198	173	124	263	162	29	157	48	38	73	85,7	51,6



Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance	Mass	Designations Housing	Bearing	Appropriate end cover
dynamic	static						
C	C ₀	P _u	h6				
kN		kN	r/min	kg	–		
12,7	6,7	0,3	6 500	0,70 0,71	T 204	UCT 204 UCT 204-12	ECY 204
14	7,8	0,3	5 850	0,78 0,80 0,79 0,77	T 205	UCT 205 UCT 205-14 UCT 205-15 UCT 205-16	ECY 205
19,5	11,4	0,5	5 000	1,22 1,24 1,22	T 206	UCT 206 UCT 206-18 UCT 206-19	ECY 206
25,5	15,3	0,7	4 300	1,62 1,68 1,63 1,59	T 207	UCT 207 UCT 207-20 UCT 207-22 UCT 207-23	ECY 207
32,5	20	0,9	3 750	2,37 2,41	T 208	UCT 208 UCT 208-24	ECY 208
32,5	20	0,9	3 400	2,33 2,35	T 209	UCT 209 UCT 209-28	ECY 209
35,1	23,2	1	3 300	2,50	T 210	UCT 210	ECY 210
43,6	29	1,3	3 000	3,92 4,07	T 211	UCT 211 UCT 211-32	ECY 211
52,7	36	1,5	2 700	4,81 4,68	T 212	UCT 212 UCT 212-36	ECY 212
57,2	40	1,7	2 350	6,78 6,7	T 213	UCT 213 UCT 213-40	ECY 213
62,4	44	1,9	2 250	6,93	T 214	UCT 214	ECY 214
66,3	49	2	2 100	7,75	T 215	UCT 215	ECY 215
71,5	54	2,2	1 900	8,18	T 216	UCT 216	ECY 216
83,2	64	2,5	1 800	10,88	T 217	UCT 217	ECY 217

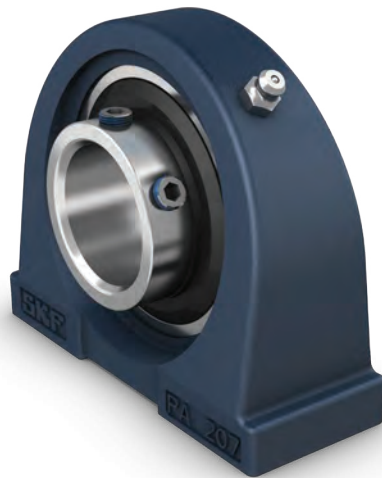
Tapped base Plummer block ball bearing units, set screws,
for metric shafts (d 20 - 85 mm) and inch shafts (d 3/4 - 1 3/4)



Dimensions

Shaft Dia.		Unit									
d			H ₁	L	A	J	G	H	G ₁	B	S ₁
mm	in		mm								
20	3/4	UCPA 204 UCPA 204-12	30,2	76,2	34	52	M10X1,5	60	13	31	12,7
25	7/8 15/16 1	UCPA 205 UCPA 205-14 UCPA 205-15 UCPA 205-16	36,5	84,1	39,5	56	M10X1,5	71	13	34	14,3
30	1 1/8 1 3/16	UCPA 206 UCPA 206-18 UCPA 206-19	42,9	93,7	38,9	66	M14X2	84	18	38,1	15,9
35	1 1/4 1 3/8 1 7/16	UCPA 207 UCPA 207-20 UCPA 207-22 UCPA 207-23	47,6	110,3	42,1	80	M14X2	93	20	42,9	17,5
40	1 1/2	UCPA 208 UCPA 208-24	49,2	115,9	44,5	84	M14X2	98	20	49,2	19
45	1 3/4	UCPA 209 UCPA 209-28	54,2	119,8	45	90	M14X2	106	25	49,2	19
50		UCPA 210	57,2	130,2	50,5	94	M16X2	113	25	51,6	19

¹⁾ To order end cover for PA type housing, use suffix VZ811 eg. PA 204 VZ811



Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance	Mass	Designations Housing	Bearing	Appropriate end cover ¹⁾
dynamic	static						
C	C ₀	P _u	h6				
kN		kN	r/min	kg	–		
12,7	6,7	0,3	6 500	0,54 0,55	PA 204	UC 204 UC 204-12	ECY 204
14	7,8	0,3	5 850	0,77 0,79 0,78 0,76	PA 205	UC 205 UC 205-14 UC 205-15 UC 205-16	ECY 205
19,5	11,4	0,5	5 000	1,02 1,04 1,02	PA 206	UC 206 UC 206-18 UC 206-19	ECY 206
25,5	15,3	0,7	4 300	1,46 1,52 1,47 1,43	PA 207	UC 207 UC 207-20 UC 207-22 UC 207-23	ECY 207
32,5	20	0,9	3 750	1,67 1,71	PA 208	UC 208 UC 208-24	ECY 208
32,5	20,4	0,9	3 400	1,86 1,88	PA 209	UC 209 UC 209-28	ECY 209
35,1	23,2	1	3 300	2,25	PA 210	UC 210	ECY 210

Notes

A large rectangular area filled with a light gray grid pattern, resembling graph paper. The grid consists of small squares, with slightly thicker lines forming a larger grid structure. This area is intended for taking notes or drawing.

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