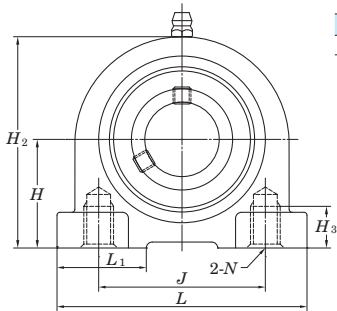
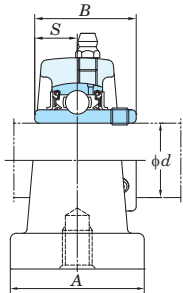


UCPA
Cylindrical bore (with set screws)
d 12 ~ 50 mm



Variations of tolerance of distance from mounting bottom to center of spherical bore (ΔH_2) and variations of tolerance of distance between centers of bolt holes (ΔJ_2)

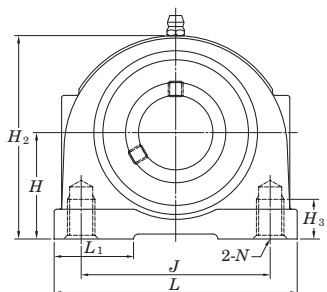
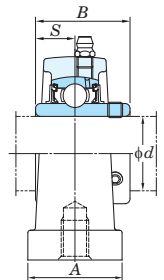
Housing No.	ΔH_2	ΔJ_2
PA204~PA210	± 0.15	± 0.5

Unit: mm

Shaft Dia. mm inch		Dimensions inch mm										Unit No.	Housing No.	Bearing No.	Mass
d		H	L	A	J	N	H ₂	H ₃	L ₁	B	S				kg
12	1/2											UCPA201		UC201	0.64
15	5/8	1 3/16	3	1 9/16	2 3/64	M10×1.5	2 3/8	1/2	1 1/16	1.220	0.500	UCPA201-8		UC201-8	
17	3/4	30.2	76	40	52		60	13	27	31	12.7	UCPA202	PA204	UC202	0.62
20												UCPA202-10		UC202-10	
												UCPA203		UC203	0.61
												UCPA204-12		UC204-12	
												UCPA204		UC204	0.59
25	7/8	1 7/16	3 5/16	1 25/32	2 13/64	M10×1.5	2 25/32	1/2	1 3/16	1.343	0.563	UCPA205-14		UC205-14	
	15/16	36.5	84	45	56		71	13	30	34.1	14.3	UCPA205-15	PA205	UC205-15	0.83
	1											UCPA205		UC205	
												UCPA205-16		UC205-16	
30	1 1/8	1 11/16	3 11/16	1 31/32	2 19/32	M14×2	3 5/16	23/32	1 13/32	1.500	0.626	UCPA206-18		UC206-18	
	1 3/16	42.9	94	50	66		84	18	36	38.1	15.9	UCPA206	PA206	UC206	1.2
	1 1/4											UCPA206-19		UC206-19	
												UCPA206-20		UC206-20	
35	1 1/4	1 7/8	4 11/32	2 5/32	3 5/32	M14×2	3 21/32	25/32	1 5/8	1.689	0.689	UCPA207-20		UC207-20	
	1 5/16	47.6	110	55	80		93	20	41	42.9	17.5	UCPA207-21	PA207	UC207-21	1.7
	1 3/8											UCPA207-22		UC207-22	
	1 7/16											UCPA207		UC207	
												UCPA207-23		UC207-23	
40	1 1/2	1 15/16	4 9/16	2 9/32	3 5/16	M14×2	3 27/32	25/32	1 5/8	1.937	0.748	UCPA208-24		UC208-24	
	1 9/16	49.2	116	58	84		98	20	41	49.2	19	UCPA208-25	PA208	UC208-25	2.0
												UCPA208		UC208	
45	1 5/8	2 9/64	4 23/32	2 3/8	3 35/64	M14×2	4 3/16	31/32	1 21/32	1.937	0.748	UCPA209-26		UC209-26	
	1 11/16	54.2	120	60	90		106	25	42	49.2	19	UCPA209-27	PA209	UC209-27	2.2
	1 3/4											UCPA209-28		UC209-28	
												UCPA209		UC209	
50	1 7/8	2 1/4	5 1/8	2 17/32	3 45/64	M16×2	4 7/16	31/32	1 27/32	2.031	0.748	UCPA210-30		UC210-30	
	1 15/16	57.2	130	64	94		113	25	47	51.6	19	UCPA210-31	PA210	UC210-31	2.8
	2											UCPA210		UC210	
												UCPA210-32		UC210-32	

- Remarks
1. In Part No. of unit, fitting codes follow bore diameter codes. (See **Table 10.5** in P.62.)
 2. Part No. of the applicable grease fitting is A-1/4-28UNF.
 3. As for the triple seal type product (from 201 to 205 are the double seal type products), suffix code L3 (or L2) follows Part No. of unit or bearing. (Example of Part No.: UCPA206JL3, UC206L3)
 4. As for the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.
 5. Tapered bore (with adapter) type products are also available. (Example of Part No.: UKPA205J + H2305X, UK205 + H2305X)
 6. Housings of nodular graphite cast iron are also available.

UCPAN
Cylindrical bore (with set screws)
d 20 ~ 35 mm



Variations of tolerance of distance from mounting bottom to center of spherical bore (ΔH_2) and variations of tolerance of distance between centers of bolt holes (ΔJ_2)

Housing No.	ΔH_2	ΔJ_2
PAN204~PAN207	± 0.15	± 0.5

Unit: mm

Shaft Dia. mm inch		Dimensions inch mm										Unit No.	Housing No.	Bearing No.	Mass
d		H	L	A	J	N	H ₂	H ₃	L ₁	B	S				kg
20	3/4	1 5/16	2 9/16	1 1/4	2	3/8-16UNC	2 17/32	1/2	7/8	1.220	0.500	UCPAN204-12	PAN204	UC204-12	0.55
		33.3	65	32	50.8		64	12.7	22	31	12.7	UCPAN204		UC204	
25	7/8	1 7/16	2 3/4	1 13/32	2	3/8-16UNC	2 3/4	1/2	29/32	1.343	0.563	UCPAN205-14		UC205-14	
	15/16	36.5	70	36	50.8		70	13	23	34.1	14.3	UCPAN205-15	PAN205	UC205-15	0.65
												UCPAN205		UC205	
												UCPAN205-16		UC205-16	
30	1	1 11/16	3 27/32	1 1/2	3	7/16-14UNC	3 7/32	5/8	1 1/4	1.500	0.626	UCPAN206-18		UC206-18	
	1 3/16	42.9	98	38	76.2		82	16	32	38.1	15.9	UCPAN206	PA206	UC206	1.3
	1 1/4											UCPAN206-19		UC206-19	
												UCPAN206-20		UC206-20	
35	1 1/4	1 7/8	4 11/32	1 7/8	3 1/4	1/2-13UNC	3 21/32	3/4	1 5/8	1.689	0.689	UCPAN207-20		UC207-20	
	1 5/16	47.6	110	48	82.6		93	19	41	42.9	17.5	UCPAN207-21	PAN207	UC207-21	1.8
	1 3/8											UCPAN207-22		UC207-22	
	1 7/16											UCPAN207		UC207	
												UCPAN207-23		UC207-23	

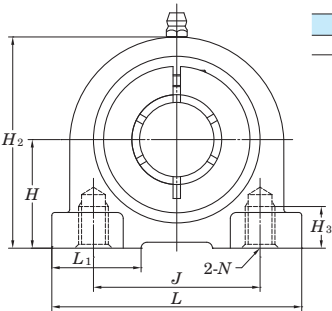
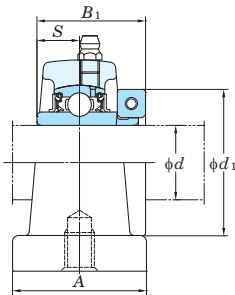
- Remarks
1. In Part No. of unit, fitting codes follow bore diameter codes. (See **Table 10.5** in P.62.)
 2. Part No. of the applicable grease fitting is A-1/4-28UNF.
 3. As for the triple seal type product (from 201 to 205 are the double seal type products), suffix code L3 (or L2) follows Part No. of unit or bearing. (Example of Part No.: UCPAN206JL3, UC206L3)
 4. As for the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.
 5. Tapered bore (with adapter) type products are also available. (Example of Part No.: UKPAN205J + H2305X, UK205 + H2305X)
 6. Housings of nodular graphite cast iron are also available.

NCPA
Cylindrical bore
(with concentric locking collar)
d 20 ~ 50 mm

Variations of tolerance of distance from mounting bottom to center of spherical bore (ΔH_2) and variations of tolerance of distance between centers of bolt holes (ΔJ_2)

Housing No.	ΔH_2	ΔJ_2
PA204~PA210	± 0.15	± 0.5

Unit: mm



Shaft Dia. mm inch		Dimensions inch mm											Unit No.	Housing No.	Bearing No.	Mass
<i>d</i>		<i>H</i>	<i>L</i>	<i>A</i>	<i>J</i>	<i>N</i>	<i>H</i> ₂	<i>H</i> ₃	<i>L</i> ₁	<i>B</i> ₁	<i>S</i>	<i>d</i> ₁				kg
20	3/4	1 3/16	3	1 9/16	2 3/64		2 3/8	1/2	1 1/16	1 9/32	0.500	1 3/4	NCPA204-12 NCPA204	PA204	NC204-12 NC204	0.73
		30.2	76	40	52	M10×1.5	60	13	27	32.5	12.7	44.5				
25	7/8												NCPA205-14 NCPA205-15 NCPA205 NCPA205-16 NCPA206-18 NCPA206 NCPA206-19 NCPA206-20	PA205	NC205-14 NC205-15 NC205 NC205-16 NC206-18 NC206 NC206-19 NC206-20	1.0
	15/16	1 7/16	3 5/16	1 25/32	2 13/64		2 25/32	1/2	1 3/16	1 7/16	0.563	1 15/16				
		36.5	84	45	56	M10×1.5	71	13	30	36.5	14.3	49.2				
30	1												NCPA206-18 NCPA206 NCPA206-19 NCPA206-20	PA206	NC206-18 NC206 NC206-19 NC206-20	1.4
	1 1/8	1 11/16	3 11/16	1 31/32	2 19/32		3 5/16	23/32	1 13/32	1 19/32	0.626	2 3/16				
	1 3/16	42.9	94	50	66	M14×2	84	18	36	40.1	15.9	55.6				
	1 1/4															
35	1 1/4	1 7/8	4 11/32	2 5/32	3 5/32		3 21/32	25/32	1 5/8	1 3/4	0.689	2 7/16	NCPA207-20 NCPA207-22 NCPA207 NCPA207-23 NCPA208-24 NCPA208 NCPA209-26 NCPA209-27 NCPA209-28 NCPA209 NCPA210-31 NCPA210 NCPA210-32	PA207	NC207-20 NC207-22 NC207 NC207-23 NC208-24 NC208 NC209-26 NC209-27 NC209-28 NC209 NC210-31 NC210 NC210-32	2.0
		47.6	110	55	80	M14×2	93	20	41	44.5	17.5	61.9				
	1 3/8	1 7/8	4 11/32	2 5/32	3 5/32		3 21/32	25/32	1 5/8	1 3/4	0.689	2 9/16				
40	1 3/8	47.6	110	55	80	M14×2	93	20	41	44.5	17.5	65.1				
	1 7/16															
40	1 1/2	1 15/16	4 9/16	2 9/32	3 5/16		3 27/32	25/32	1 5/8	2	0.748	2 11/16	NCPA208-24 NCPA208 NCPA209-26 NCPA209-27 NCPA209-28 NCPA209 NCPA210-31 NCPA210 NCPA210-32	PA208	NC208-24 NC208 NC209-26 NC209-27 NC209-28 NC209 NC210-31 NC210 NC210-32	2.4
		49.2	116	58	84	M14×2	98	20	41	50.8	19	68.3				
45	1 5/8	2 9/64	4 23/32	2 3/8	3 35/64		4 3/16	31/32	1 21/32	2	0.748	2 13/16	NCPA209-26 NCPA209-27 NCPA209-28 NCPA209 NCPA210-31 NCPA210 NCPA210-32	PA209	NC209-26 NC209-27 NC209-28 NC209 NC210-31 NC210 NC210-32	2.6
		54.2	120	60	90	M14×2	106	25	42	50.8	19	71.4				
	1 11/16	2 9/64	4 23/32	2 3/8	3 35/64		4 3/16	31/32	1 21/32	2	0.748	2 15/16				
50	1 3/4	54.2	120	60	90	M14×2	106	25	42	50.8	19	74.6				
50	1 15/16	2 1/4	5 1/8	2 17/32	3 45/64		4 7/16	31/32	1 27/32	2 3/32	0.748	3 3/8	NCPA210-31 NCPA210 NCPA210-32	PA210	NC210-31 NC210 NC210-32	3.4
	2	57.2	130	64	94	M16×2	113	25	47	53.1	19	85.7				

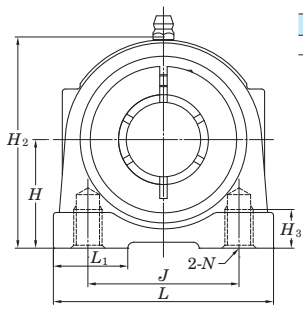
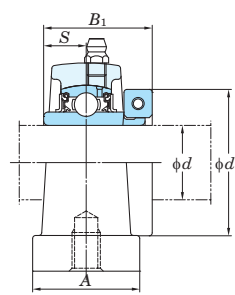
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2. Part No. of the applicable grease fitting is A-1/4-28UNF.
3. As for the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.

NCPAN
Cylindrical bore
(with concentric locking collar)
d 20 ~ 35 mm

Variations of tolerance of distance from mounting bottom to center of spherical bore (ΔH_2) and variations of tolerance of distance between centers of bolt holes (ΔJ_2)

Housing No.	ΔH_2	ΔJ_2
PAN204~PAN207	± 0.15	± 0.5

Unit: mm



Shaft Dia. mm inch		Dimensions inch mm											Unit No.	Housing No.	Bearing No.	Mass
<i>d</i>		<i>H</i>	<i>L</i>	<i>A</i>	<i>J</i>	<i>N</i>	<i>H</i> ₂	<i>H</i> ₃	<i>L</i> ₁	<i>B</i> ₁	<i>S</i>	<i>d</i> ₁				kg
20	3/4	1 5/16	2 9/16	1 1/4	2	3/8-16UNC	2 17/32	1/2	7/8	1 9/32	0.500	1 3/4	NCPAN204-12 NCPAN204	PAN204	NC204-12 NC204	0.7
		33.3	65	32	50.8		64	12.7	22	32.5	12.7	44.5				
25	7/8												NCPAN205-14 NCPAN205-15 NCPAN205 NCPAN205-16 NCPAN206-18 NCPAN206 NCPAN206-19 NCPAN206-20	PAN205	NC205-14 NC205-15 NC205 NC205-16 NC206-18 NC206 NC206-19 NC206-20	0.85
	15/16	1 7/16	2 3/4	1 13/32	2	3/8-16UNC	2 3/4	1/2	29/32	1 7/16	0.563	1 15/16				
		36.5	70	36	50.8		70	13	23	36.5	14.3	49.2				
30	1												NCPAN206-18 NCPAN206 NCPAN206-19 NCPAN206-20	PAN206	NC206-18 NC206 NC206-19 NC206-20	1.5
	1 1/8	1 11/16	3 27/32	1 1/2	3	7/16-14UNC	3 7/32	5/8	1 1/4	1 19/32	0.626	2 3/16				
	1 3/16	42.9	98	38	76.2		82	16	32	40.1	15.9	55.6				
	1 1/4															
35	1 1/4	1 7/8	4 11/32	1 7/8	3 1/4	1/2-13UNC	3 21/32	3/4	1 5/8	1 3/4	0.689	2 7/16	NCPAN207-20 NCPAN207-22 NCPAN207 NCPAN207-23	PAN207	NC207-20 NC207-22 NC207 NC207-23	2.1
		47.6	110	48	82.6		93	19	41	44.5	17.5	61.9				
	1 3/8	1 7/8	4 11/32	1 7/8	3 1/4	1/2-13UNC	3 21/32	3/4	1 5/8	1 3/4	0.689	2 9/16				
40	1 3/8	47.6	110	48	82.6		93	19	41	44.5	17.5	65.1				
	1 7/16															

Remarks 1. In Part No. of unit, fitting codes follow bore diameter codes. (See **Table 10.5** in P.62.)
2. Part No. of the applicable grease fitting is A-1/4-28UNF.
3. As for the dimensions and forms of applicable bearings, see the dimensional tables of ball bearing for unit.