

ASAHI

PLASTIC SERIES

BEARING UNITS



JP-1973

ISO 9002
JQA-1973

**STAINLESS STEEL BEARING MOUNTED IN
THERMOPLASTIC HOUSINGS!**

NEW



- *Anti-corrosive, Water / Chemical resistant*
- *Light-weight housings*
- *Interchangeable with normal type*
- *For Food-processing / Packaging / Textile machineries, Chemical apparatus, etc*

ASAHI SEIKO CO., LTD.

PLASTIC SERIES BEARING UNITS

1. INTRODUCTION

Plastic housings are made of high-grade glass-filled thermoplastic polyester and mounted with stainless steel ball bearing inserts.

Hygienic construction: Solid housing base prevents from breeding of various germs. Plastic covers are also available to cover the shaft and bearing for the better protection against contaminants and safety.

2. MATERIAL

Table 1

Parts		Materials	
Bearing	Inner & outer rings	Stainless steel	SUS440C (EQ.)
	Balls		SUS440C
	Retainers		SUS304
	Slingers		
	Set-screws		
Rubber seals	Nitril rubber	—	
Housing		Thermoplastic	—
	Bolt hole bushings	Stainless steel	SUS304
	Grease nipple receiver		SUS303
	Grease nipple		COPPER ALLOY

3. ANTI-CORROSION FEATURES

Table 2

Environment	Materials				
	Stainless Steel SUS440C (EQ.)	Stainless Steel SUS304	Thermoplastic —	Bearing Steel SUJ2	Grey cast iron FC200
Dry	○	◎	◎	—	×
Mist	—	◎	◎	×	××
Fresh water	—	◎	◎	×	××
Salt water	×	◎	◎	××	××
Nitric acid	×	◎	×	××	××
Sulfuric acid	××	○	○	××	××
Hydrochloric acid	××	—	○	××	××

◎ : pretty good ○ : good — : not good × : bad ×× : very bad

4. ACCURACY

Table 3

No. MUC	Bearing inner ring			Housing		
	Δd_{mp} max. min.	V _{dp}	ΔB_s max. min.	K _{ia} max.	No. PPL	ΔH_s
204~206	+18 0	12	0 -120	18	204~208	±300
207~208	+21 0	14	0 -120	20		

Δd_{mp} : Deviation of single-plane mean bore diameter

V_{dp} : Bore diameter variation in a single radial plane

ΔB_s : Deviation of a single inner ring width

K_{ia} : Radial runout (of assembled bearing inner ring)

ΔH_s : Deviation of distance between mounting base and spherical-seat center for pillow block

5. TIGHTENING TORQUE

Table 4

Bearing			Housing		
No. MUC	Hexagonal socket screw key No.	Tightening torque (N · m)	No. PPL, FPL, NFL	Fixing bolt	Tightening torque (N · m)
204	3	3.9	204	M10	17.7
205	3	3.9	205	M10	24.5
206	3	3.9	206	M10 / M12	29.4
207	4	8.3	207	M12	35.3
208	4	8.3	208	M12	45.1

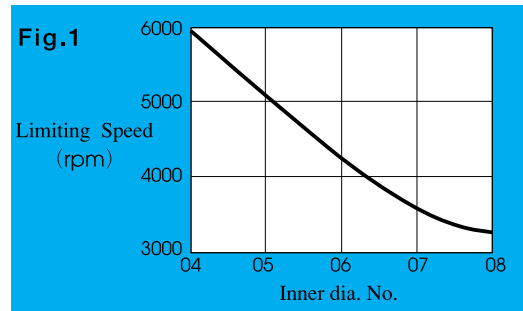
6. STATIC BREAKING STRENGTH OF HOUSING

Table 5

Unit : kN

No. PPL, FPL,NFL						
	W _u	W _s	W _t	W _d	W _t	W _d
204	7.7	8.8	5	15.9	3.6	8.5
205	10	13.7	8.1	13	3.3	11.1
206	10.6	12.6	5.7	18	3.3	14.2
207	10.8	12.7	7.5	18.5	3.5	14.9
208	11.1	13.1	8.5	19.1	3.8	15.1

7. LIMITING SPEED



8. RANGE OF OPERATING

TEMPERATURE : -20 ~ +80°C

PILLOW BLOCKS MUCA200SB

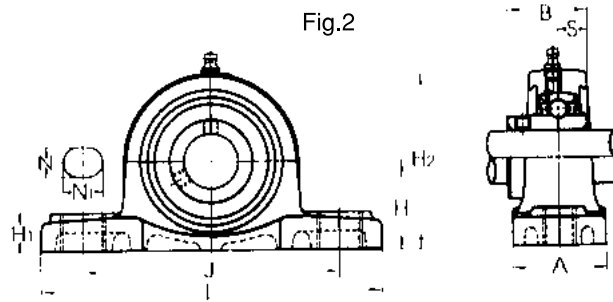


Table 7

Shaft dia. (mm)	Unit No.	Dimensions (mm)										Bolt Size	Bearing		Housing No.	Weight (kg)	
		H	L	A	J	N	N ₁	H ₁	H ₂	B	S		Bearing No.	Basic load rating (kN) Cr Cor			
20	MUCA 204SB	33.3	127	38	95	11	14	14.2	65	31	12.7	M10	MUC204	10.9	5.3	PPL204SB	0.28
25	MUCA 205SB	36.5	140	38	105	11	14	14.5	71	34.1	14.3	M10	MUC205	11.9	6.3	PPL205SB	0.33
30	MUCA 206SB	42.9	162	46	119	14	18	17.8	83	38.1	15.9	M12	MUC206	16.7	9	PPL206SB	0.52
35	MUCA 207SB	47.6	167	48	127	14	18	18	94	42.9	17.5	M12	MUC207	22	12.3	PPL207SB	1.73
40	MUCA 208SB	49.2	184	54	137	14	18	19.5	98	49.2	19	M12	MUC208	24.9	14.3	PPL208SB	1.95

SQUARE FLANGE UNITS MUCB200SB

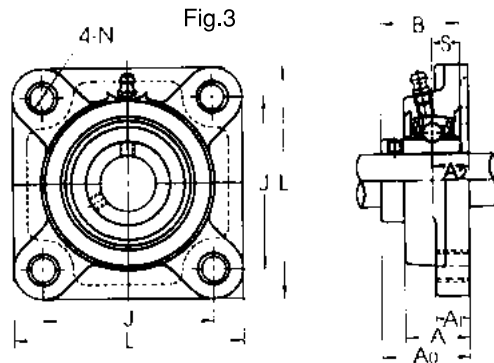


Table 9

Shaft dia. (mm)	Unit No.	Dimensions (mm)									Bolt Size	Bearing		Housing No.	Weight (kg)	
		L	A	J	N	A ₁	A ₂	A ₀	B	S		Bearing No.	Basic load rating (kN) Cr Cor			
20	MUCB 204SB	86	27.8	63.5	11	13.4	18	36.3	31	12.7	M10	MUC204	10.9	5.3	FPL204SB	0.28
25	MUCB 205SB	94.5	27.9	70	11	14.3	17	36.8	34.1	14.3	M10	MUC205	11.9	6.3	FPL205SB	0.33
30	MUCB 206SB	107	31.5	83	11	14.3	19.2	41.4	38.1	15.9	M10	MUC206	16.7	9	FPL206SB	0.52
35	MUCB 207SB	118	34.8	92	13	15.5	21.5	46.9	42.9	17.5	M12	MUC207	22	12.3	FPL207SB	1.73
40	MUCB 208SB	130	37.5	102	14	17	23	53.2	49.2	19	M12	MUC208	24.9	14.3	FPL208SB	1.95

TWO-BOLT FLANGE UNITS MUCD200SB

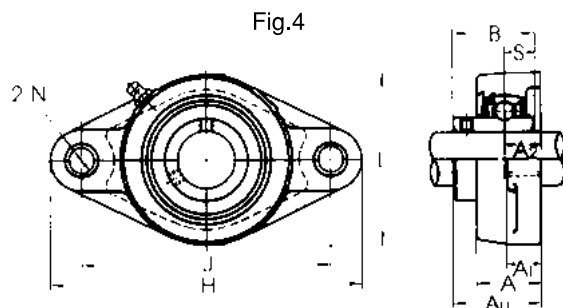


Table 11

Shaft dia. (mm)	Unit No.	Dimensions (mm)										Bolt Size	Bearing		Housing No.	Weight (kg)	
		H	L	A	J	N	A ₁	A ₂	A ₀	B	S		Bearing No.	Basic load rating (kN) Cr Cor			
20	MUCD 204SB	113	64	26.5	90	11	11.4	15.4	33.7	31	12.7	M10	MUC204	10.9	5.3	NFL204SB	0.23
25	MUCD 205SB	130	69.5	29.1	99	11	13.5	17	36.8	34.1	14.3	M10	MUC205	11.9	6.3	NFL205SB	0.3
30	MUCD 206SB	148	80	30.5	117	11	13.3	19	41.2	38.1	15.9	M10	MUC206	16.7	9	NFL206SB	0.44
35	MUCD 207SB	163	90	32.8	130	13	16.1	18	43.4	42.9	17.5	M12	MUC207	22	12.3	NFL207SB	0.65
40	MUCD 208SB	175	100	37.5	144	14	20	21.5	51.7	49.2	19	M12	MUC208	24.9	14.3	NFL208SB	0.87

THERMOPLASTIC COVER

Fig.5

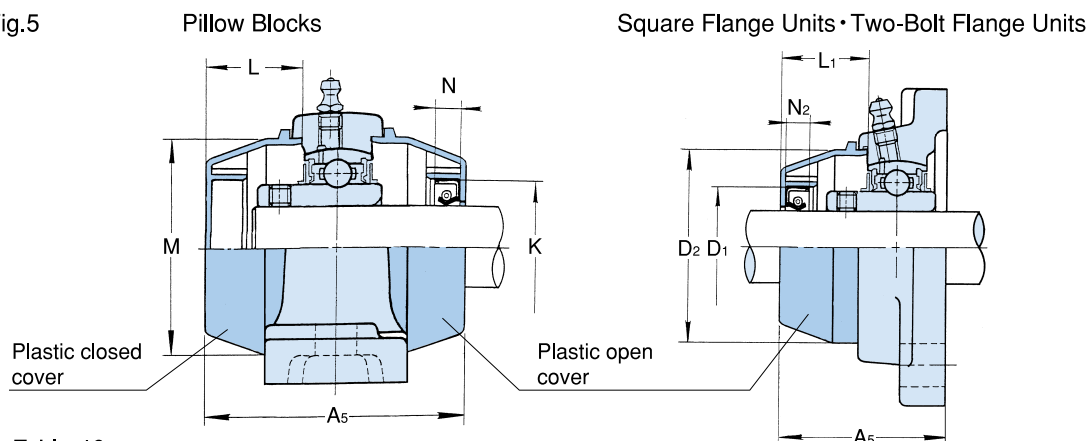


Table 12

Shaft dia. (mm)	Open Cover No.	Closed Cover No.	Dimensions (mm)						
			L	N	K	M	Pillow P	Flange F FL	
							A5		
20	RMO-204	RMC-204	23	7	32	50	65	49.5	46.5
25	RMO-205	RMC-205	25	7	37	55	71	50.5	50.5
30	RMO-206	RMC-206	30	7	42	64	89	58.5	58.5
35	RMO-207	RMC-207	32	7	47	74	91	63.5	60
40	RMO-208	RMC-208	37	7	52	84	103	71	69

Remark : When ordering these covers, please consult us.

Back seal is available to flange type housings, FPL and NFL in combination with MB series bearing insert to be mounted. Please consult us if necessary.

○Remarks

- Bolt Size of thermoplastic housings may differ from those of JIS-type ball bearing units for some sizes.
- Thermoplastic housings may be damaged when heavy shock is applied.
- This unit should not be used where static electricity may be generated. When used, it shall be earthed properly.
- Breaking strength of the housings (Table 5) shows the average value under the normal operating temperature. Safety factor should be taken into account depending upon the operating temperature, carrying load and its direction and nature.
- In order to prevent from inner ring's crack due to over tightening set-screws or set-screws' loosening due to vibration while operating, the set-screws shall be properly and evenly tightened.
- Specifications are subject to change without prior notice.

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