



NEW DEPARTURE DIMENSION DATA

2 C-110
March 15, 1957
Page 1

Supersedes
2 C-110 of Aug. 55

CONTENTS	Basic Group Identification	Page
<hr/>		
"NUMERICAL INDEX"		2
<hr/>		
SINGLE ROW RADIAL		
Inch Series—R, Retainer Type	R-2 to R-24	3
Extra Small—Bores 4 to 9 mm	34 to 39	3
<i>Including Sealed Bearings with Single Row Width</i>	<i>9034 to 9039</i>	
Extra Light—Non-Loading Groove	3L00 to 3L36	4
<i>Including Sealed Bearings with Single Row Width</i>	<i>93L00 to 93L14</i>	
Light, Medium & Heavy—Non-Loading Groove	3200 to 3400	5-6
<i>Including Sealed Bearings with Single Row Width</i>	<i>9500 to 9610</i>	
—With Loading Groove	1200 to 1400	7
Wide Inner Ring	4000	8
<hr/>		
DOUBLE ROW		
Extra Light & Extra Light Flanged	5L00 & N5L00A	8
Light, Medium and Heavy	5000 & 5000W	9-10
<hr/>		
SEALED TYPES		
Fan and Waterpump	885100-885800	10-11
Conveyor Roll	"CB" 88120	11
Rear Wheel & Propeller Shaft	"RW" 88100	12
ND Seal—Light and Medium	8000-C8000	13-14
—Wide Outer Ring	WC-8000-CWC8000	13-14
<i>See Pages 3 to 6 for 9000 & 99000 (Std. Width)</i>		
<hr/>		
SINGLE ROW ANGULAR CONTACT		
Magneto Bearings—Separable	ND5 to ND20	15
Extra Light—Including Flanged	0L00 & N0L00	15
Difrax	0100	16
Flanged—Precision	NM0200B	16
Clutch Throw-Out	"CT"	17
Light, Medium and Heavy	20000 and 30000	18-19
Front Wheel Bearings	909000	19
Steel Balls	6500	20
<hr/>		
ADAPTER BEARINGS		
<hr/>		
AGRICULTURAL EQUIPMENT BEARINGS		
<hr/>		
TEXTILE EQUIPMENT BEARINGS		
<hr/>		
INSTRUMENT BEARINGS		
Miniature Series	M0310 to 77NM1632	27
Metric & Inch Series—Low Torque	34 to 38—R2 to R6	27
Flanged O.R. Tapered O.D.	NR3H to NR5H	28
Coil Spring Separator—Open Wound	SR2G to SR6	28
—Close Wound	CSR3D to CS38F	28
Pivot Bearings	PF4, C270, O104A, O105A	28
Gyro Rotor Bearings & Shaft Assemblies	QR1½B to Q3200B	29
Gyro Rotor Bearing	Q34BA	29
Gimbal Bearings	34G to 34GA	29
<hr/>		
SPECIAL BEARINGS		
<hr/>		
ND PREFIXES AND SUFFIXES		
<hr/>		
ND SPECIFICATIONS & GREASES		

NUMERICAL INDEX

Covers the Series which appear in the TABULATIONS pages 3 to 29 inclusive. For Bearing Numbers which are not within the below series, see SPECIAL BEARING SECTION pages 30 to 42 inclusive—which is arranged by family groups.

Bearing No's.	Page No.	Bearing No's.	Page No.	Bearing No's.	Page No.
1CS1 $\frac{3}{8}$ to 2CS4 $\frac{5}{8}$	11	Z499-3L02 to Z499-3L14.....	4	CSRS77035F to CSRS77038F.....	28
TS1-500 to TS2.....	26	4L24A to 4L24E.....	17	77206 to 77317.....	7
R1 $\frac{1}{2}$ B to R4B.....	29	5L00 to 5L24A.....	8	77500 to 77522.....	5
QR1 $\frac{1}{2}$ B to QR4B.....	29	N5L00 to N5L24A.....	8	77600 to 77710.....	6
QR1 $\frac{1}{2}$ BC to QR4BC.....	29	1206 to 1418.....	7	87006 to 87039.....	13
R2 to RS77R12.....	3, 27	3200 to 3228.....	5	C87006 to C87039.....	13
R2 to 77R22.....	3	3200B to 3200BC.....	29	WC87006 to WC87039.....	13
SR2 to RS77SR6.....	28	Q3200B to Q3200BC.....	29	CWC87006 to CWC87039.....	13
R2BE to R3BEG.....	29	3210B.....	22	87500 to 87513.....	14
QR2BE to QR3BEG.....	29	3300 to 3416.....	6	C87500 to C87513.....	14
SR2G to SR6.....	28	4508A to 4511AD.....	22	WC87500 to WC87508.....	14
CF2-108 to CF3-200.....	24	AS4508A to AS4511AD.....	22	CWC87500 to CWC87508.....	14
PF2-212 to PF3-600.....	24	4510 to 4615.....	8	87504U.....	23
PV2-404.....	24	5200 to 5407.....	9	87504A16.....	23
TC2-504.....	26	5205W to 5313W.....	10	87602 to 87609.....	14
R3BD to R4BD.....	29	5500 to 5613.....	9	C87602 to C87609.....	14
QR3BD to QR4BD.....	29	5506W to 5612W.....	10	88006 to 88039.....	13
R3D to R4D.....	27	6492 to 6536.....	20	C88006 to C88039.....	13
CSR3D to RS77CSR6.....	28	7034 to 7039.....	3	WC88006 to WC88039.....	13
NR3H to RS77NR5H.....	28	RS7035 to RS7038.....	27	CWC88006 to CWC88039.....	13
CB3.....	11	CSRS7035F to CSRS7038F.....	28	88107 to 88128.....	12
PF4.....	28	7206 to 7413.....	7	88120 to 88120A.....	11
ND5 to ND20.....	15	7500 to 7522.....	5	88500 to 88508.....	14
Z99AF008 to Z99AE207.....	21	7600 to 7710.....	6	C88500 to C88508.....	14
Z99AE008C to Z99AE207C.....	21	8006 to 8039.....	13	WC88500 to WC88508.....	14
R10 to 499R12.....	3	C8006 to C8039.....	13	CWC88500 to CWC88508.....	14
R10 to Z499R12.....	3	WC8006 to WC8039.....	13	D88506 to D88611.....	12
TM11-505 to TM15-505.....	25	CWC8006 to CWC8039.....	13	XD88506 to XD88611.....	12
TP15-500 to TP23-500.....	25	8500 to 8514.....	14	88602 to 88609.....	14
CT22 to CT44.....	17	C8500 to C8514.....	14	C88602 to C88609.....	14
TP30.....	26	WC8500 to WC8508.....	14	97035 to 97039.....	3
34 to 39.....	3, 27	CWC8500 to CWC8508.....	14	97500 to 97512.....	5
34B to 38B.....	29	8602 to 8609.....	14	Z97500 to Z97512.....	5
Q34B to Q38B.....	29	C8602 to C8609.....	14	97603 to 97610.....	6
N34B.....	29	9035 to 9039.....	3	Z97603 to Z97610.....	6
QN34B.....	29	9500 to 9512.....	5	99035 to 99039.....	3
Q34BA.....	29	Z9500 to Z9512.....	5	99500 to 99512.....	5
Q34BC to Q38BC.....	29	9603 to 9610.....	6	Z99500 to Z99512.....	5
QN34BC.....	29	Z9603 to Z9610.....	6	Z99502U to Z99503U.....	23
34BD to 38BD.....	29	20200 to 20230.....	18	99603 to 99610.....	6
Q34BD to Q38BD.....	29	Q20200 to Q20230.....	18	Z99603 to Z99610.....	6
34G to 34GA.....	29	N20202 to N20226.....	18	420205 to 420310.....	18
CS35F to CS38F.....	28	QN20202 to QN20226.....	18	455500 to 455610.....	9
FL47 to FL85.....	21	H20300 to H20321.....	18	477206 to 477317.....	7
FL87.....	22	QH20300 to QH20321.....	18	477500 to 477522.....	5
FL90 to FL100.....	21	H20404 to H20418.....	19	477600 to 477710.....	6
0100 to 0114.....	16	QH20404 to QH20418.....	19	487009 to 487026.....	13
0104 to 0105.....	28	26499 to 26518.....	20	C487009 to C487026.....	13
0104A to 0105A.....	28	30203 to 30326.....	18	WC487009 to WC487026.....	13
FL105.....	22	Q30203 to Q30326.....	18	CWC487009 to CWC487026.....	13
NM0202B to NM0222B.....	16	V30203 to V30326.....	18	487500 to 487609.....	14
QN0224B28.....	16	Q30404 to Q30416.....	19	C487500 to C487609.....	14
C270.....	28	36499 to 36518.....	20	WC487500 to WC487513.....	14
M0310 to 77M1632.....	27	41206 to 41412.....	7	CWC487500 to CWC487513.....	14
NM0310 to 77NM1632.....	27	43200 to 43222.....	5	488009 to 488026.....	13
CB504.....	11	43300 to 43416.....	6	C488009 to C488026.....	13
4CB504.....	11	43770D.....	17	WC488009 to WC488026.....	13
RW507 to RW509A.....	12	45200 to 45407.....	9	CWC488009 to CWC488026.....	13
0L00 to 0L36.....	15	45205W to 45313W.....	10	488500 to 488609.....	14
Q0L00 to Q0L36.....	15	45500 to 45613.....	9	C488500 to C488609.....	14
N0L06 to N0L30.....	15	45507W to 45611W.....	10	WC488500 to WC488513.....	14
QN0L06 to QN0L30.....	15	47206 to 47317.....	7	CWC488500 to CWC488513.....	14
Q70L03.....	15	47500 to 47522.....	5	488120A.....	11
3L00 to 3L36.....	4	47600 to 47710.....	6	497500 to 497512.....	5
4-3L00 to 4-3L28.....	4	48009 to 48026.....	13	Z497500 to Z497512.....	5
7-3L00 to 7-3L28.....	4	C48009 to C48026.....	13	497603 to 497610.....	6
9-3L00 to 9-3L14.....	4	WC48009 to WC48026.....	13	Z497603 to Z497610.....	6
Z9-3L00 to Z9-3L14.....	4	CWC48009 to CWC48026.....	13	499500 to 499512.....	5
47-3L00 to 47-3L28.....	4	48500 to 48609.....	14	Z499500 to Z499512.....	5
49-3L00 to 49-3L14.....	4	C48500 to C48609.....	14	499603 to 499610.....	6
Z49-3L00 to Z49-3L14.....	4	WC48500 to WC48508.....	14	Z499603 to Z499610.....	6
77-3L00 to 77-3L24.....	4	CWC48500 to CWC48508.....	14	720203 to 720304.....	18
97-3L00 to 97-3L14.....	4	49500 to 49512.....	5	885100 to 885169.....	11
Z97-3L00 to Z97-3L14.....	4	Z49500 to Z49512.....	5	885800A to 885807A.....	10
99-3L00 to 99-3L14.....	4	49603 to 49610.....	6	900537 to 900539.....	23
Z99-3L00 to Z99-3L14.....	4	Z49603 to Z49610.....	6	904262 to 904278.....	12
477-3L02 to 477-3L24.....	4	55500 to 55613.....	9	909001 to 909762.....	19
497-3L02 to 497-3L14.....	4	55507W to 55610W.....	10	2140122.....	17
Z497-3L02 to Z497-3L14.....	4	77034 to 77039.....	3		
499-3L02 to 499-3L14.....	4	RS77035 to RS77038.....	27		

SINGLE ROW

EXTRA SMALL—SERIES “R” INSTRUMENT BEARINGS

Extra Light “Inch” Type

Bearing Size No.	Bore B		Diam. D		Width W		Bearing Size No.		Width W	
	Fraction	Decimal	Fraction	Decimal	Fraction	Decimal	1 Shield	2 Shields	Fraction	Decimal
R-2	1/8"	.1250	3/8"	.3750	5/32"	.1562	7R-2	77R-2	5/32"	.1562
R-2A	1/8	.1250	1/2	.500	11/64	.1719	7R-2A	77R-2A	11/64	.1719
R-3	3/16	.1875	1/2	.500	3/32	.1562	7R-3	77R-3		.1960
R-4	1/4	.250	5/8	.6250	7/32	.1960	7R-4	77R-4		.1960
R-4A	1/4	.250	3/4	.750	7/32	.2188	7R-4A	77R-4A	9/32	.2812
R-6	3/8	.3750	7/8	.8750		.2188	7R-6	77R-6	9/32	.2812
R-8	1/2	.500	1 1/8	1.1250	1/4	.250	7R-8	77R-8	5/16	.3125
R-10	5/8	.6250	1 3/8	1.3750	3/32	.2812	7R-10	77R-10	3/16	.3438
R-12	3/4	.750	1 5/8	1.6250	1/8	.3125	7R-12	77R-12	1/16	.4375
R-14	7/8	.8750	1 7/8	1.8750	3/8	.3750	7R-14	77R-14	1/2	.500
R-16	1	1.000	2	2.000	3/8	.3750	7R-16	77R-16	1/2	.500
R-18	1 1/8	1.1250	2 1/8	2.1250	3/8	.3750	7R-18	77R-18	1/2	.500
R-20	1 1/4	1.2500	2 1/4	2.2500	3/8	.3750	7R-20	77R-20	1/2	.500
R-22	1 3/8	1.3750	2 1/2	2.5000	7/16	.4375	7R-22	77R-22	9/16	.5625
R-24	1 1/2	1.500	2 5/8	2.6250	7/16	.4375			9/16	.5625

R2-R12 inclusive available with Removable Shields, i.e., RS7R2, RS77R2, etc.

• Available with Removable Senti-Seals. See page 20 for picture.

{ Senti Seal Types R10, R12 available with snap ring, and shield combinations.

EXTRA SMALL—Type 30 & 9030

Single row for light radial or combined load duty required of bearings below 10mm bore

BEARING SIZE NUMBER						Bore B		Diameter D		Width W	
Plain	1 Shield	2 Shields	1 Seal	2 Seals	1 Seal 1 Shield	mm	inch	mm	inch	mm	inch
34	7034	77034				4	.1575	16	.6299	5	.1969
35	7035	77035	9035	99035	97035	5	.1969	19	.7480	6	.2362
36	7036	77036	9036	99036	97036	6	.2362	19	.7480	6	.2362
37	7037	77037	9037	99037	97037	7	.2756	22	.8661	7	.2756
38	7038	77038	9038	99038	97038	8	.3150	22	.8661	7	.2756
39	7039	77039	9039	99039	97039	9	.3543	26	1.0236	8	.3150

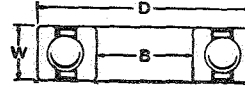
35 thru 38 inclusive available with Removable Shields, i.e. RS7035, RS77035, etc. See page 27.

New Departure
DIMENSION DATA



EXTRA LIGHT—Type 3L00 and 9-3L00
Single Row—Non-Loading Groove

BEARING SIZE NUMBER						Bore B		Diameter D		Width W	
Plain	1 Shield	2 Shields	Sn. Ring	Sn. Ring	Sn. Ring	mm	inch	mm	inch	mm	inch
1 Seal	2 Seals	1 Seal 1 Shld	1 Seal	1 Shield 2 Seals	2 Shields 1 Seal 1 Shld						
3L00	7-3L00	77-3L00				10	.3937	26	1.0236	8	.3150
9-3L00	99-3L00	97-3L00									
3L01	7-3L01	77-3L01				12	.4724	28	1.1024	8	.3150
9-3L01	99-3L01	97-3L01									
3L02	7-3L02	77-3L02	4-3L02	47-3L02	477-3L02	15	.5906	32	1.2598	9	.3543
9-3L02	99-3L02	97-3L02	49-3L02	499-3L02	497-3L02						
3L03	7-3L03	77-3L03	4-3L03	47-3L03	477-3L03	17	.6693	35	1.3780	10	.3937
9-3L03	99-3L03	97-3L03	49-3L03	499-3L03	497-3L03						
3L04	7-3L04	77-3L04	4-3L04	47-3L04	477-3L04	20	.7874	42	1.6535	12	.4724
9-3L04	99-3L04	97-3L04	49-3L04	499-3L04	497-3L04						
3L05	7-3L05	77-3L05	4-3L05	47-3L05	477-3L05	25	.9843	47	1.8504	12	.4724
9-3L05	99-3L05	97-3L05	49-3L05	499-3L05	497-3L05						
3L06	7-3L06	77-3L06	4-3L06	47-3L06	477-3L06	30	1.1811	55	2.1654	13	.5118
9-3L06	99-3L06	97-3L06	49-3L06	499-3L06	497-3L06						
3L07	7-3L07	77-3L07	4-3L07	47-3L07	477-3L07	35	1.3780	62	2.4409	14	.5512
9-3L07	99-3L07	97-3L07	49-3L07	499-3L07	497-3L07						
3L08	7-3L08	77-3L08	4-3L08	47-3L08	477-3L08	40	1.5748	68	2.6772	15	.5906
9-3L08	99-3L08	97-3L08	49-3L08	499-3L08	497-3L08						
3L09	7-3L09	77-3L09	4-3L09	499-3L09	Z497-3L09	45	1.7717	75	2.9528	16	.6299
9-3L09	99-3L09	97-3L09									
3L10	7-3L10	77-3L10	4-3L10	47-3L10	477-3L10	50	1.9685	80	3.1496	16	.6299
9-3L10	99-3L10	97-3L10	49-3L10	499-3L10	497-3L10						
3L11	7-3L11	77-3L11	4-3L11	47-3L11	477-3L11	55	2.1654	90	3.5433	18	.7087
9-3L11	99-3L11	97-3L11	49-3L11	499-3L11	497-3L11						
3L12	7-3L12	77-3L12	4-3L12	47-3L12	477-3L12	60	2.3622	95	3.7402	18	.7087
9-3L12	99-3L12	97-3L12	49-3L12	499-3L12	497-3L12						
3L13	7-3L13	77-3L13	4-3L13	47-3L13	477-3L13	65	2.5591	100	3.9370	18	.7087
Z9-3L13	Z99-3L13	Z97-3L13	Z49-3L13	Z499-3L13	Z497-3L13						
3L14	7-3L14	77-3L14	4-3L14	47-3L14	477-3L14	70	2.7559	110	4.3307	20	.7874
Z9-3L14	Z99-3L14	Z97-3L14	Z49-3L14	Z499-3L14	Z497-3L14						
3L15	7-3L15	77-3L15		47-3L15		75	2.9528	115	4.5276	20	.7874
3L16	7-3L16	77-3L16	4-3L16	47-3L16	477-3L16	80	3.1496	125	4.9213	22	.8661
3L17	7-3L17	77-3L17	4-3L17	47-3L17	477-3L17	85	3.3465	130	5.1181	22	.8661
3L18	7-3L18	77-3L18	4-3L18	47-3L18	477-3L18	90	3.5433	140	5.5118	24	.9449
3L19	7-3L19					95	3.7402	145	5.7087	24	.9449
3L20	7-3L20	77-3L20	4-3L20	47-3L20	477-3L20	100	3.9370	150	5.9055	24	.9449
3L21	7-3L21	77-3L21	4-3L21			105	4.1339	160	6.2992	26	1.0236
3L22	7-3L22	77-3L22	4-3L22	47-3L22	477-3L22	110	4.3307	170	6.6929	28	1.1024
3L24	7-3L24	77-3L24	4-3L24	47-3L24	477-3L24	120	4.7244	180	7.0866	28	1.1024
3L26			4-3L26			130	5.1181	200	7.8740	33	1.2992
3L28	7-3L28		4-3L28	47-3L28		140	5.5118	210	8.2677	33	1.2992
3L30						150	5.9055	225	8.8583	35	1.3780
3L36						180	7.0866	280	11.0236	46	1.8110

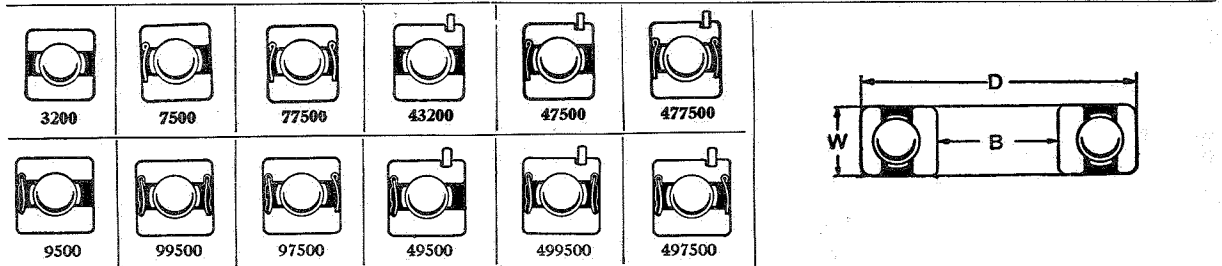


*Available with Removable Senti Seal. Z prefix. See page 20 for picture.

SINGLE ROW—LIGHT SERIES—TYPE 3200 & 9500

Non-Loading Groove

Deep uninterrupted race ways. Contains the maximum number and size of balls that can be introduced by eccentric displacement of rings.



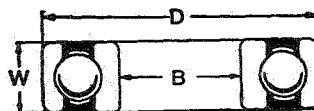
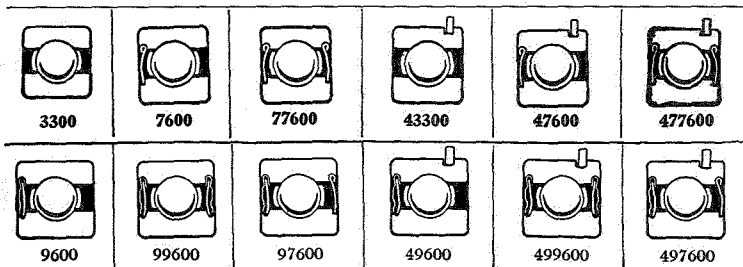
BEARING SIZE NUMBER						Bore B		Diameter D		Width W	
Plain	1 Shield	2 Shields	Sn. Ring	Sn. Ring	Sn. Ring	mm	inch	mm	inch	mm	inch
1 Seal	2 Seals	1 Seal 1 Shld	1 Seal	1 Shield 2 Seals	2 Shields 1 Seal 1 Shld						
3200	7500	77500	43200	47500	477500	10	.3937	30	1.1811	9	.3543
•9500	•99500	•97500	•49500	•499500	•497500						
3201	7501	77501	43201	47501	477501	12	.4724	32	1.2598	10	.3937
•9501	•99501	•97501	•49501	•499501	•497501						
3202	7502	77502	43202	47502	477502	15	.5906	35	1.3780	11	.4331
•9502	•99502	•97502	•49502	•499502	•497502						
3203	7503	77503	43203	47503	477503	17	.6693	40	1.5748	12	.4724
•9503	•99503	•97503	•49503	•499503	•497503						
3204	7504	77504	43204	47504	477504	20	.7874	47	1.8504	14	.5512
•9504	•99504	•97504	•49504	•499504	•497504						
3205	7505	77505	43205	47505	477505	25	.9843	52	2.0472	15	.5906
•9505	•99505	•97505	•49505	•499505	•497505						
3206	7506	77506	43206	47506	477506	30	1.1811	62	2.4409	16	.6299
•9506	•99506	•97506	•49506	•499506	•497506						
3207	7507	77507	43207	47507	477507	35	1.3780	72	2.8346	17	.6693
•9507	•99507	•97507	•49507	•499507	•497507						
3208	7508	77508	43208	47508	477508	40	1.5748	80	3.1496	18	.7087
•9508	•99508	•97508	•49508	•499508	•497508						
3209	7509	77509	43209	47509	477509	45	1.7717	85	3.3465	19	.7480
•9509	•99509	•97509	•49509	•499509	•497509						
3210	7510	77510	43210	47510	477510	50	1.9685	90	3.5433	20	.7874
•9510	•99510	•97510	•49510	•499510	•497510						
3211	7511	77511	43211	47511	477511	55	2.1654	100	3.9370	21	.8268
•9511	•99511	•97511	•49511	•499511	•497511						
3212	7512	77512	43212	47512	477512	60	2.3622	110	4.3307	22	.8661
•9512	•99512	•97512	•49512	•499512	•497512						
3213	7513	77513	43213	47513	477513	65	2.5591	120	4.7244	23	.9055
3214	7514	77514	43214	47514	477514	70	2.7559	125	4.9213	24	.9449
3215	7515	77515	43215	47515	477515	75	2.9528	130	5.1181	25	.9843
3216	7516	77516	43216	47516	477516	80	3.1496	140	5.5118	26	1.0236
3217	7517	77517	43217	47517	477517	85	3.3465	150	5.9055	28	1.1024
3218	7518	77518	43218	47518	477518	90	3.5433	160	6.2992	30	1.1811
3219	7519	77519	43219	47519	477519	95	3.7402	170	6.6929	32	1.2598
3220	7520	77520	43220	47520	477520	100	3.9370	180	7.0866	34	1.3386
Q3221						105	4.1339	190	7.4803	35	1.4173
3222	7522	77522	43222	47522	477522	110	4.3307	200	7.8740	38	1.4961
3224						120	4.7244	215	8.4646	40	1.5748
3226						130	5.1181	230	9.0551	40	1.5748
3228						140	5.5118	250	9.8425	42	1.6535

*Available with Removable Sentri Seal. Z prefix. See page 20 for picture.

New Departure
DIMENSION DATA



SINGLE ROW—MEDIUM SERIES—3300 & 9600



BEARING SIZE NUMBER						Bore B		Diameter D		Width W	
Plain	1 Shield	2 Shields	Sn. Ring	Sn. Ring	Sn. Ring	mm	inch	mm	inch	mm	inch
1 Seal	2 Seals	1 Seal 1 Shld	1 Seal	1 Shield 2 Seals	2 Shields 1 Seal 1 Shld						
3300	7600	77600	43300	47600	477600	10	.3937	35	1.3780	11	.4331
3301	7601	77601				12	.4724	37	1.4567	12	.4724
3302	7602	77602	43302	47602	477602	15	.5906	42	1.6535	13	.5118
3303	7603	77603	43303	47603	477603	17	.6693	47	1.8504	14	.5512
9603	99603	97603	49603	499603	497603						
3304	7604	77604	43304	47604	477604	20	.7874	52	2.0472	15	.5906
9604	99604	97604	49604	499604	497604						
3305	7605	77605	43305	47605	477605	25	.9843	62	2.4409	17	.6693
9605	99605	97605	49605	499605	497605						
3306	7606	77606	43306	47606	477606	30	1.1811	72	2.8346	19	.7480
9606	99606	97606	49606	499606	497606						
3307	7607	77607	43307	47607	477607	35	1.3780	80	3.1496	21	.8268
9607	99607	97607	49607	499607	497607						
3308	7608	77608	43308	47608	477608	40	1.5748	90	3.5433	23	.9055
9608	99608	97608	49608	499608	497608						
3309	7609	77609	43309	47609	477609	45	1.7717	100	3.9370	25	.9843
9609	99609	97609	49609	499609	497609						
3310	7610	77610	43310	47610	477610	50	1.9685	110	4.3307	27	1.0630
9610	99610	97610	49610	499610	497610						
3311	7611	77611	43311	47611	477611	55	2.1654	120	4.7244	29	1.1417
3312	7612	77612	43312	47612	477612	60	2.3622	130	5.1181	31	1.2205
3313	7613	77613	43313	47613	477613	65	2.5591	140	5.5118	33	1.2992
3314	7614	77614	43314	47614	477614	70	2.7559	150	5.9055	35	1.3780
3315	7615	77615	43315	47615	477615	75	2.9528	160	6.2992	37	1.4567
3316		77616	43316			80	3.1496	170	6.6929	39	1.5354
3317	7617	77617	43317	47617	477617	85	3.3465	180	7.0866	41	1.6142
3318	7618	77618				90	3.5433	190	7.4803	43	1.6929
3319			43319			95	3.7402	200	7.8740	45	1.7717
3320		77620				100	3.9370	215	8.4646	47	1.8504
3322						110	4.3307	240	9.4488	50	1.9685

*Available with Removable Senti Seal. Z prefix. See page 20 for picture.

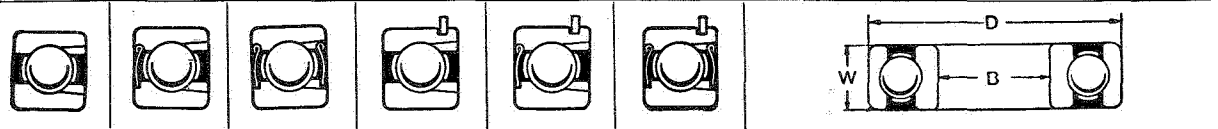
SINGLE ROW—HEAVY SERIES—3400

Sealed Bearings with Single Row Width Currently Not Available

3404			43404			20	.7874	72	2.8346	19	.7480
3405	7705	77705	43405	47705	477705	25	.9843	80	3.1496	21	.8268
3406			43406			30	1.1811	90	3.5433	23	.9055
3407			43407			35	1.3780	100	3.9373	25	.9843
3408	7708	77708	43408	47708	477708	40	1.5748	110	4.3307	27	1.0630
3409	7709	77709	43409	47709	477709	45	1.7717	120	4.7244	29	1.1417
3410	7710	77710	43410	47710	477710	50	1.9685	130	5.1181	31	1.2205
3411			43411			55	2.1654	140	5.5118	33	1.2992
3412			43412			60	2.3622	150	5.9055	35	1.3780
3416			43416			80	3.1496	200	7.8740	48	1.8898

SINGLE ROW—LIGHT SERIES—1200

Contains maximum number and size of balls. Has greatest Radial capacity obtainable in bearing with one row of balls.



BEARING SIZE NUMBER						Bore B		Diameter D		Width W	
Plain	1 Shield	2 Shields	Snap Ring	Sn. Ring 1 Shield	Sn. Ring 2 Shields	mm	inch	mm	inch	mm	inch
1206	7206	77206	41206	47206	477206	30	1.1811	62	2.4409	16	.6299
1207	7207	77207	41207	47207	477207	35	1.3780	72	2.8346	17	.6693
1208	7208	77208	41208	47208	477208	40	1.5748	80	3.1496	18	.7087
1209	7209	77209	41209	47209	477209	45	1.7717	85	3.3465	19	.7480
1210	7210	77210	41210	47210	477210	50	1.9685	90	3.5433	20	.7874
1211	7211	77211	41211	47211	477211	55	2.1654	100	3.9370	21	.8268
1212	7212	77212	41212	47212	477212	60	2.3622	110	4.3307	22	.8661
1213	7213	77213	41213	47213	477213	65	2.5591	120	4.7244	23	.9055
1214	7214	77214	41214	47214	477214	70	2.7559	125	4.9213	24	.9449
1215	7215	77215	41215	47215	477215	75	2.9528	130	5.1181	25	.9843
1216	7216	77216	41216	47216	477216	80	3.1496	140	5.5118	26	1.0236
1217	7217	77217	41217	47217	477217	85	3.3465	150	5.9055	28	1.1024
1218	7218	77218	41218	47218	477218	90	3.5433	160	6.2992	30	1.1811
1219	7219	77219	41219	47219	477219	95	3.7402	170	6.6929	32	1.2598
1220	7220	77220	41220	47220	477220	100	3.9370	180	7.0866	34	1.3386
1221	7221	77221				105	4.1339	190	7.4803	36	1.4173
1222	7222	77222	41222	47222	477222	110	4.3307	200	7.8740	38	1.4961
1224						120	4.7244	215	8.4646	40	1.5748

SINGLE ROW—MEDIUM SERIES—1300

1304	7304	77304	41304	47304	477304	20	.7874	52	2.0472	15	.5906
1305	7305	77305	41305	47305	477305	25	.9843	62	2.4409	17	.6693
1306	7306	77306	41306	47306	477306	30	1.1811	72	2.8346	19	.7480
1307	7307	77307	41307	47307	477307	35	1.3780	80	3.1496	21	.8268
1308	7308	77308	41308	47308	477308	40	1.5748	90	3.5433	23	.9055
1309	7309	77309	41309	47309	477309	45	1.7717	100	3.9370	25	.9843
1310	7310	77310	41310	47310	477310	50	1.9685	110	4.3307	27	1.0630
1311	7311	77311	41311	47311	477311	55	2.1654	120	4.7244	29	1.1417
1312	7312	77312	41312	47312	477312	60	2.3622	130	5.1181	31	1.2205
1313	7313	77313	41313	47313		65	2.5591	140	5.5118	33	1.2992
1314	7314	77314	41314	47314	477314	70	2.7559	150	5.9055	35	1.3780
1315	7315	77315	41315	47315	477315	75	2.9528	160	6.2992	37	1.4576
1316			41316			80	3.1496	170	6.6929	39	1.5354
1317	7317	77317	41317	47317	477317	85	3.3465	180	7.0866	41	1.6142
1318	7318					90	3.5433	190	7.4803	43	1.6929
1319			41319			95	3.7402	200	7.8740	45	1.7717
1320			41320			100	3.9370	215	8.4646	47	1.8504
1321						105	4.1339	225	8.8583	49	1.9291
1322						110	4.3307	240	9.4488	50	1.9685

SINGLE ROW—HEAVY SERIES—1400

See 3400 Series Bearings, foot of page 6, for sizes and types omitted from this series.

1404		(77400 Series)		(47400 Series)	(477400 Series)	20	.7874	72	2.8346	19	.7480
1405	7405					25	.9843	80	3.1496	21	.8268
1406						30	1.1811	90	3.5433	23	.9055
1407						35	1.3780	100	3.9370	25	.9843
1408	7408					40	1.5748	110	4.3307	27	1.0630
1409	7409					45	1.7717	120	4.7244	29	1.1417
1410			41410			50	1.9685	130	5.1181	31	1.2205
1411						55	2.1654	140	5.5118	33	1.2992
1412			41412			60	2.3622	150	5.9055	35	1.3780
1413	7413					65	2.5591	160	6.2992	37	1.4567
1414						70	2.7559	180	7.0866	42	1.6535
1415						75	2.9528	190	7.4803	45	1.7717
V1418						90	3.5433	225	8.8583	54	2.1260

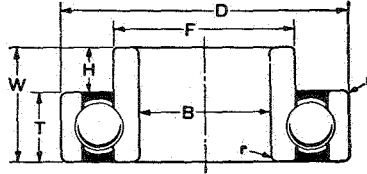
"V" indicates Bronze Separator.

**New Departure
DIMENSION DATA**



SINGLE ROW—WIDE INNER RING—TYPE 4000

Non-Loading Groove—Same as Type 3000 Except Has Wide Inner Ring
Extensively used in commercial electric Motors.



Bearing Size No.	Bore B		Diameter D		W I D T H S			
					Inner Ring W		Outer Ring T	
	mm	inch	mm	inch	mm	inch	mm	inch
4510	50	1.9685	90	3.5433	30.16	1.1875	20	.7874
4603	17	.6693	47	1.8504	22.2	.8750	14	.5512
4604	20	.7874	52	2.0472	22.2	.875	15	.5906
4605	25	.9843	62	2.4409	25.40	1.0000	17	.6693
4606	30	1.1811	72	2.8346	30.16	1.1875	19	.7480
4607	35	1.3780	80	3.1496	34.93	1.3750	21	.8268
4608	40	1.5748	90	3.5433	36.5	1.4375	23	.9055
4609	45	1.7717	100	3.9370	39.69	1.5625	25	.9843
4610	50	1.9685	110	4.3307	44.45	1.7500	27	1.0630
4611	55	2.1654	120	4.7244	49.21	1.9375	29	1.1417
4613	65	2.5591	140	5.5118	58.7	2.3125	33	1.2992
4615	75	2.9528	160	6.2992	68.26	2.6875	37	1.4567

DOUBLE ROW

ANGULAR CONTACT

EXTRA LIGHT—SERIES 5L00

Angular Contact

For combined loads from any direction. One-piece inner and outer rings with two rows of balls permanently pre-loaded for greater rigidity.

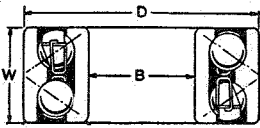
FLANGED—SERIES N5L00A

Angular Contact

Available only to precision specifications.
(For Machine Tool Precision Spindles)

Bearing Size No.	Bore B		Diameter D		Width W		Bearing Size No.	Flange O.D. E		Flange Width T	
	mm	inch	mm	inch	mm	inch		mm	inch	mm	inch
	5L11	55	2.1654	90	3.5433	30		1.1811	N5L11A	95	3.7402
5L12	60	2.3622	95	3.7402	32	1.2598	N5L12A	99.5	3.9173	4.5	.177
5L14	70	2.7559	110	4.3307	36	1.4173	N5L14A	115	4.5276	5	.197
5L16	80	3.1496	125	4.9213	40	1.5748	N5L16A	130.5	5.1378	5.5	.216
5L18	90	3.5433	140	5.5118	44	1.7323	N5L18A	146	5.7480	6	.236
5L20	100	3.9370	150	5.9055	44	1.7323	N5L20A	156	6.1417	6	.236
5L22	110	4.3307	170	6.6929	52	2.0472	N5L22A	177	6.9685	7	.276
5L24	120	4.7244	180	7.0866	52	2.0472	N5L24A	187	7.3622	7	.276

DOUBLE ROW—LIGHT SERIES—5200

											
Plain	1 Shield	2 Shields	Snap Ring	Sn. Ring 1 Shield	Sn. Ring 2 Shields	Bore B		Diameter D		Width W	
						mm	inch	mm	inch	mm	inch
5200	5500	55500	45200	45500	455500	10	.3937	30	1.1811	14.29	.5625
5201	5501	55501	45201	45501	455501	12	.4724	32	1.2598	15.88	.625
5202	5502	55502	45202	45502	455502	15	.5906	35	1.3780	15.88	.625
5203	5503	55503	45203	45503	455503	17	.6693	40	1.5748	17.46	.6875
5204	5504	55504	45204	45504	455504	20	.7874	47	1.8504	20.64	.8125
5205	5505	55505	45205	45505	455505	25	.9843	52	2.0472	20.64	.8125
5206	5506	55506	45206	45506	455506	30	1.1811	62	2.4409	23.81	.9375
5207	5507	55507	45207	45507	455507	35	1.3780	72	2.8346	26.99	1.0625
5208	5508	55508	45208	45508	455508	40	1.5748	80	3.1496	30.16	1.1875
5209	5509	55509	45209	45509	455509	45	1.7717	85	3.3465	30.16	1.1875
5210	5510	55510	45210	45510	455510	50	1.9685	90	3.5433	30.16	1.1875
5211	5511	55511	45211	45511	455511	55	2.1654	100	3.9370	33.34	1.3125
5212	5512	55512	45212	45512	455512	60	2.3622	110	4.3307	36.51	1.4375
5213	5513	55513	45213	45513	455513	65	2.5591	120	4.7244	38.10	1.50
5214	5514	55514	45214	45514	455514	70	2.7559	125	4.9213	39.69	1.5625
5215	5515	55515	45215	45515	455515	75	2.9528	130	5.1181	41.28	1.625
5216	5516	55516	45216	45516	455516	80	3.1496	140	5.5118	44.45	1.75
5217	5517	55517	45217	45517	455517	85	3.3465	150	5.9055	49.21	1.9375
5218	5518	55518	45218	45518	455518	90	3.5433	160	6.2992	52.39	2.0625
5219			45219	45519	455519	95	3.7402	170	6.6929	55.56	2.1875
5220	5520	55520	45220	45520	455520	100	3.9370	180	7.0866	60.33	2.375
5222	5522	55522	45222	45522	455522	110	4.3307	200	7.8740	69.85	2.75

DOUBLE ROW—MEDIUM SERIES—5300

5300	5600	55600	45300	45600	455600	10	.3937	35	1.3780	19.05	.75
5301						12	.4724	37	1.4567	19.05	.75
5302	5602	55602	45302			15	.5906	42	1.6535	19.05	.75
5303	5603	55603	45303	45603	455603	17	.6693	47	1.8504	22.23	.875
5304	5604	55604	45304	45604	455604	20	.7874	52	2.0472	22.23	.875
5305	5605	55605	45305	45605	455605	25	.9843	62	2.4409	25.40	1.00
5306	5606	55606	45306	45606	455606	30	1.1811	72	2.8346	30.16	1.1875
5307	5607	55607	45307	45607		35	1.3780	80	3.1496	34.93	1.375
5308	5608	55608	45308	45608	455608	40	1.5748	90	3.5433	36.51	1.4375
5309	5609	55609	45309	45609	455609	45	1.7717	100	3.9370	39.68	1.5625
5310	5610	55610	45310	45610	455610	50	1.9685	110	4.3307	44.45	1.75
5311	5611	55611	45311	45611		55	2.1654	120	4.7244	49.21	1.9375
5312	5612	55612	45312	45612		60	2.3622	130	5.1181	53.98	2.125
5313	5613	55613	45313	45613		65	2.5591	140	5.5118	58.74	2.3125
5314			45314			70	2.7559	150	5.9055	63.50	2.50
5315			45315			75	2.9528	160	6.2992	68.26	2.6875
5316			45316			80	3.1496	170	6.6929	68.26	2.6875
5318						90	3.5433	190	7.4803	73.03	2.875

DOUBLE ROW—HEAVY SERIES—5400

5407	(5700 Series)	(55700 Series)	45407	(45700 Series)	(455700 Series)	35	1.3780	100	3.9370	—	1.750
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Double Row—Cont'd

“W” SERIES—TYPES 5200W & 5300W

With Reverse Angle of Contact—“Externally Diverging Angles of Contact”.

Used where slight misalignment occurs due to heat warping housings, etc.—often used with loose internal fit-up.

LIGHT SERIES—5200W

Plain	1 Shield	2 Shields	Snap Ring	Sn. Ring 1 Shield	Bore B		Diameter D		Width W	
					mm	inch	mm	inch	mm	inch
5205W	.....	.....	45205W	.....	25	.9843	52	2.0472	20.64	.8125
5206W	5506W	.....	45206W	.....	30	1.1811	62	2.4409	23.8	15/16
5207W	5507W	55507W	.....	45507W	35	1.3780	72	2.8346	26.99	1.0625
5208W	.....	.....	45208W	.....	40	1.5748	80	3.1496	30.2	1 3/16
5210W	5510W	55510W	.....	.....	50	1.9685	90	3.5433	30.16	1.1875
5211W	5511W	.....	45211W	.....	55	2.1654	100	3.9370	33.34	1.3125
5212W	.....	.....	45212W	.....	60	2.3622	110	4.3307	36.51	1.4375
5213W	5513W	.....	45213W	.....	65	2.5591	120	4.7244	38.10	1.50
5215W	.....	.....	45215W	.....	75	2.9528	130	5.1181	41.28	1.625
5216W	5516W	.....	.....	.....	80	3.1496	140	5.5118	44.45	1.75
5218W	5518W	.....	45218W	.....	90	3.5433	160	6.2992	52.39	2.0625
5222W	.....	55522W	.....	.....	110	4.3307	200	7.8740	69.85	2.75

MEDIUM SERIES—5300W

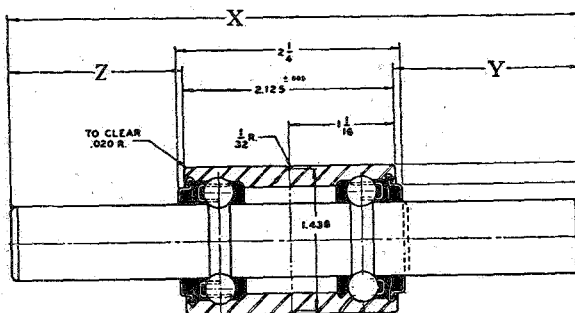
5306W	5606W	.....	45306W	45606W	30	1.1811	72	2.8346	30.16	1.1875
5307W	5607W	.....	45307W	45607W	35	1.3780	80	3.1496	34.93	1.375
.....	.....	.....	45308W	45608W	40	1.5748	90	3.5433	36.51	1.4375
5309W	.....	.....	45309W	45609W	45	1.7717	100	3.9370	39.68	1.5625
5310W	5610W	55610W	45310W	45610W	50	1.9685	110	4.3307	44.45	1.75
5311W	.....	.....	45311W	45611W	55	2.1654	120	4.7244	49.21	1.9375
5312W	5612W	.....	45312W	.....	60	2.3622	130	5.1181	53.98	2.125
5313W	.....	.....	45313W	.....	65	2.5591	140	5.5118	58.74	2.3125

SEALED TYPES

FAN AND WATER PUMPS

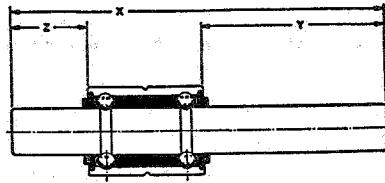
(885800 Type)
(1.500 O.D. of Outer Race)

BEARING NUMBER	X	Z	Y
885800A	4.000	.140	2.035
885801	5.870	2.105	1.640
885801B	5.870	2.105	1.640
885801S	5.870	2.105	1.640
885801SA	5.870	2.105	1.640
885802	5.750	1.850	1.875
885803	3.578	.141	1.312
885804	5.250	.953	2.172
885806	5.766	1.365	2.276
885806D	5.562	1.171	2.266
885807A	6.040	1.800	2.115



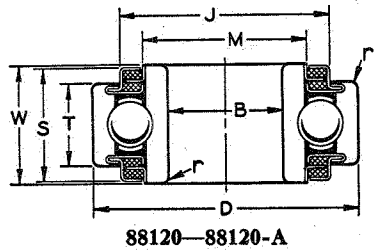
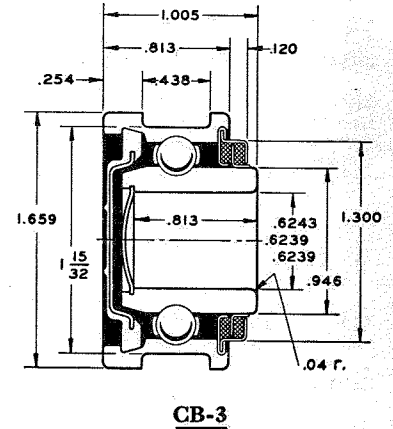
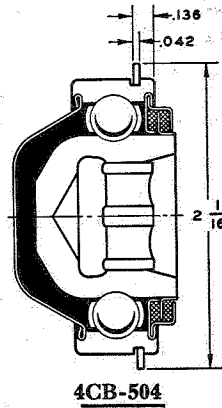
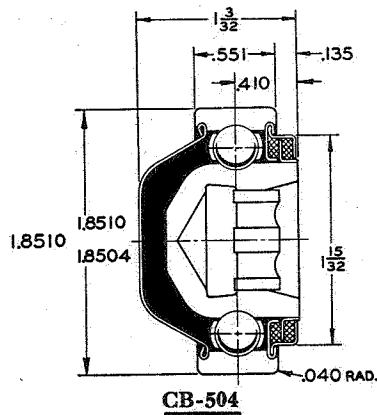
FAN AND WATER PUMP—885000 TYPE

Principal Dimensions
(1.1811 O.D. of Outer Race)



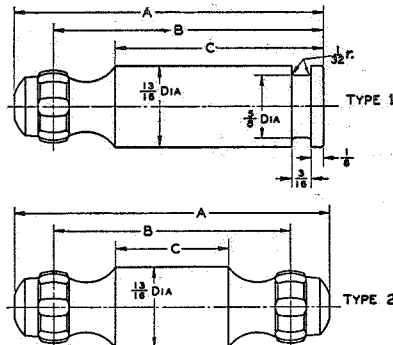
Bearing Number	X	Z	Y	Bearing Number	X	Z	Y
885100	4.869	1.250	2.088	885117	6.375	2.300	2.544
885102	4.406	1.063	1.812	885118	4.688	1.469	1.688
885103	4.656	.578	2.547	885119A	5.969	.938	3.500
885105	4.760	1.160	2.069	885123	3.562	.200	1.831
885106	4.170	1.159	2.480	885123A	3.562	.200	1.831
885108B	4.828	1.578	1.718	885123B	3.560	.200	1.829
885111	4.281	1.078	1.672	885140	4.062	.922	1.609
885111A	4.281	1.078	1.672	885140C	4.062	.922	1.609
885112A	3.812	.922	1.359	885141	5.031	1.016	2.484
				885144C	5.625	1.516	2.609
				885146	4.516	2.828	.156
				885146A	4.516	2.828	.156
				885147	4.031	.875	1.625
				885147A	4.344	1.188	1.625
				885151	5.031	1.750	1.750
				885151B	5.031	1.750	1.750
				885152	4.469	1.079	1.859
				885154	2.891	1.203	.157
				885155	4.453	1.250	1.672
				885156	4.469	1.079	1.859
				885156D	4.469	1.079	1.859
				885157	4.469	1.079	1.859
				885158	5.438	1.609	2.298
				885158C	5.438	1.609	2.298
				885158D	5.438	1.609	2.298
				885159	4.141	.938	1.672
				885160	4.125	.578	2.016
				885161	5.125	.156	3.438
				885162	4.562	.943	2.088
				885162S	4.562	.943	2.088
				885165	3.250	.157	1.562
				885166K	5.031	1.219	2.281
				885167	4.391	.938	1.922
				885167U	4.391	.938	1.922
				885168B	4.812	1.125	2.156
				885168C	4.812	1.125	2.156
				885168D	4.812	1.125	2.156
				885168F	4.812	1.125	2.156
				885168K	4.812	1.125	2.156
				885169	5.078	1.250	2.297

CONVEYOR ROLL BEARINGS



Bearing Number	Bore B		Dia. D		Width W		Balls	J	M	S	T	Rad- ius r
	mm	inch	mm	inch	mm	inch						
88120	20	.7874	47	1.8504	20.8	.820	8	1 13/32	1.095	.790	.551	.040
88120-A		.700*		1.8510								

*Hexagonal bore, dimension across flats.
88120A available as 488120A (snap ring).

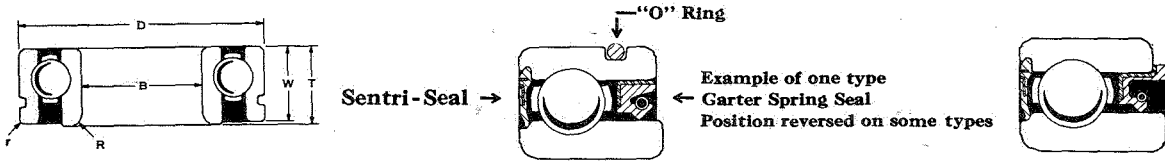


STUB SHAFT DIMENSIONS

Part No.	TYPE 1			Part No.	TYPE 2		
	A	B	C		A	B	C
1-CS-1 3/8	1 3/8	5 3/4	3/8	2-CS-2 1/2	2 1/2	1 3/32	1/2
1-CS-1 11/16	1 11/16	1 35/64	15/16	2-CS-2 9/16	2 9/16	1 3/32	9/16
1-CS-2 1/2	2 1/2	2 7/8	1 1/2	2-CS-2 5/8	2 5/8	1 27/32	5/8
1-CS-3	3	2 3/4	2	2-CS-3	3	2 3/32	1
1-CS-3 1/2	3 1/2	3 1/4	2 1/2	2-CS-3 3/4	3 3/4	2 1/16	1 3/32
1-CS-4 1/8	4 1/8	3 47/64	3 1/8	2-CS-4	4	3 1/2	2
				2-CS-4 5/8	4 5/8	3 5/8	2 5/32



Sealed Types—Cont'd
REAR WHEEL BEARINGS "RW" TYPE



Bearing Only	Bearing Complete	Sealing			Bore B		Diameter D		Width W		Width T	
		"O" Ring	Outboard (Wheel) side	Inboard (differential) side	mm	inch	mm	inch	mm	inch	mm	inch
RW507	RW507D↓	Yes	Garter Spring	None	35	1.3780	72	2.8346		.8858		.8858
RW507B	RW507E *	Yes	Senti Seal	Garter Spring	35	1.3780	72	2.8346		.8858		.925
	RW507F	Yes	Garter Spring	None	35	1.3780	72	2.8346		.8858		.925
	RW507H	No	Senti Seal	Garter Spring	35	1.3780	72	2.8346		.8449		.925
	RW507J	Yes	Senti Seal	Senti Seal	35	1.3780	72	2.8346		.8449		.925
RW508	RW508D	Yes	Garter Spring	None		1.5312	80	3.1496	21	.8268	25	.9843
	RW508A	No	Senti Seal	Garter Spring		1.5312	80	3.1496		.955		1.015
RW509	RW509A *	Yes	Garter Spring	None		1.6250	83	3.2677		1.0136	26	1.0236
909262	904278	Yes	Garter Spring	None	35	1.3780		3.000		.905		.905

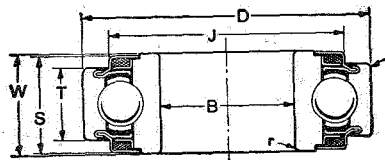
*R suffix Indicates Retaining Ring.

Note: Light face numbers use part number in bold face type.

Rear Wheel Bearings

Series 88100, D88500, D88600

Positively sealed on both sides to prevent entrance of dirt or loss of lubricant. Requires no maintenance of any kind.



*R suffix Indicates Retaining Ring.

Propeller Shaft Bearings

Series X88100, XD88500, XD88600

Rear Wheel Bearings with looser felt fitup, processed to operate at the higher speeds required for Propeller Shafts.

*Chamfered Inner Race Corners, instead of a Radius (Curve).

†Special Curvatures

NOTE: Light Face Numbers in Tabulation have been superseded by Bold Face Numbers to their right.

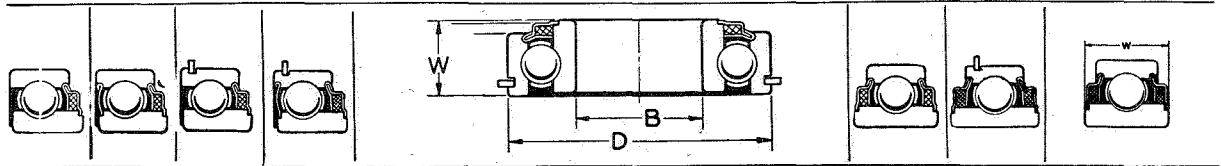
BEARING PART No.	Bore B		Diameter D		Width W	
	mm	inch	mm	inch	mm	inch
88107 *88107A* X88107E } X88107 XD88107 }	35	1.3780	72	2.8346	25	.9843
88108 } 88108E 88108G }	38.09	1.4995	80	3.1496	27	1.063
88128E *88128 XD88506 XD88506B	38.99	1.5312	80	3.1496	27.5	1.083
D88508 XD88508 XD88508A† }	30	1.1811	62	2.4409	24	.9449
D88509 XD88509 D88510 XD88510	40	1.5748	80	3.1496	27	1.0630
D88609 XD88609 D88611	45	1.7717	85	3.3465	27	1.0630
	50	1.9685	90	3.5433	30	1.1811
	30	1.1811	72	2.8346	27	1.0630
	45	1.7717	100	3.9370	35	1.3780
	55	2.1654	120	4.7244		1.6142

Sealed Types—Cont'd

For radial or combined loads in either direction. Self-contained seal. Furnished completely lubricated, ready for service. If Snap Ring is desired on same side as seal, indicate with suffix "V," otherwise will be furnished on side opposite to seal as illustrated below.

NOTE: If seal bearing to be replaced is standard Single Row Width, SEE pages 3 to 6 for 9000, 99000 and 97000 Series.

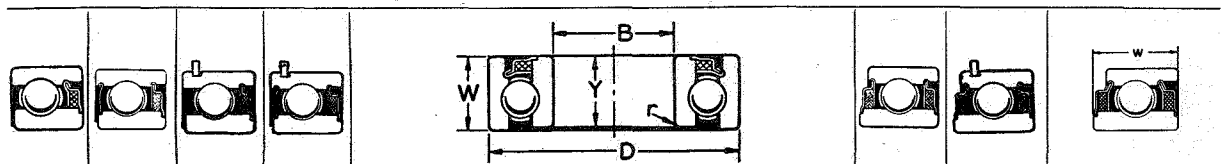
8000 ND SEAL BEARINGS (Without "WC" Prefix)



"WC" PREFIX—WIDE CUP ND SEAL—WC-8000

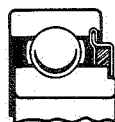
Over-all dimension same as 8000 Series—Outer ring is extended so as to be flush with inner ring on one face.

Available in sizes underlined as "WC," or "RWC" (Relubrication Feature see Page 20).



BEARING SIZE NUMBER				Bore B		Diameter D		Width W		BEARING SIZE No.		Width W	
One Seal	Shield & Seal	Sn.Ring 1 Seal	Sn.Ring Sh. & Sl.	mm	inch	mm	inch	mm	inch	Double Seal	Sn.Ring 2 Seals	mm	inch
8006	87006			6	.2362	24	.9449	10.3	.406	88006		12.62	.4970
8007	87007			7	.2756	24	.9449	10.3	.406	88007		12.62	.4970
8008	87008			8	.3150	24	.9449	10.3	.406	88008		12.62	.4970
8009	87009	48009	487009	9	.3543	30	1.1811	12.699	.500	88009	488009	16.40	.6457
8011	87011	48011	487011	11	.4331	32	1.2598	12.699	.500	88011	488011	15.40	.6063
8013	87013	48013	487013	13	.5118	32	1.2598	12.699	.500	88013	488013	15.40	.6063
8014	87014	48014	487014	14	.5512	35	1.3780	12.699	.500	88014	488014	14.40	.5669
8016	87016	48016	487016	16	.6299	35	1.3780	12.699	.500	88016	488016	14.40	.5669
8026	87026	48026	487026	26	1.0236	52	2.0472	15.87	.625	88026	488026	16.75	.6594
8035	87035			5	.1969	19	.748	10.3	.406	88035		12.6	.4970
8036	87036			6	.2362	19	.748	10.3	.406	88036		12.6	.4970
8037	87037			7	.2756	22	.8661	10.3	.406	88037		12.6	.4970
8038	87038			8	.3150	22	.8661	10.3	.406	88038		12.6	.4970
8039	87039			9	.3543	26	1.0236	10.3	.406	88039		12.6	.4970

C-Prefix



All above sizes of ND seal bearings are available with metal slingers. "C" prefix. Desirable in various cases where minimum seal friction is needed.

New Departure
DIMENSION DATA

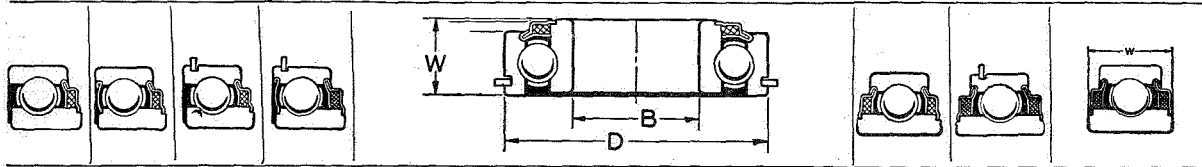


Sealed Types—Cont'd

For radial or combined loads in either direction. Self-contained seal. Furnished completely lubricated, ready for service. If Snap Ring is desired on same side as seal, indicate with suffix "V," otherwise will be furnished on side opposite to seal as illustrated below.

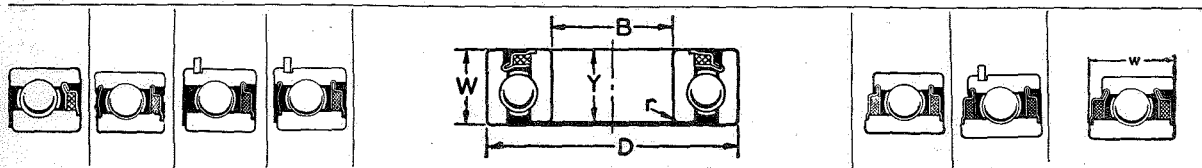
NOTE: If seal bearing to be replaced is standard Single Row Width, SEE pages 3 to 6 for 9000, 99000 and 97000 Series.

8000 ND Seal Bearings (Without "WC" Prefix)—Cont'd



"WC" Prefix—Wide Cup ND Seal—WC-8000—Cont'd

Over-all dimension same as 8000 Series—Outer ring is extended so as to be flush with inner ring on one face. Available in sizes underlined as "WC".



BEARING SIZE NUMBER				Bore B		Diameter D		Width W		BEARING SIZE No.		Width W	
One Seal	Shield & Seal	Sn.Ring 1 Seal	Sn.Ring Sh. & Sl.	mm	inch	mm	inch	mm	inch	Double Seal	Sn.Ring 2 Seals	mm	inch
8500	<u>87500</u>	<u>48500</u>	<u>487500</u>	10	.3937	30	1.1811	12.699	.500	<u>88500</u>	<u>488500</u>	16.4	.6457
8501	<u>87501</u>	<u>48501</u>	<u>487501</u>	12	.4724	32	1.2598	12.699	.500	<u>88501</u>	<u>488501</u>	15.4	.6063
8502	<u>87502</u>	<u>48502</u>	<u>487502</u>	15	.5906	35	1.3780	12.699	.500	<u>88502</u>	<u>488502</u>	14.4	.5669
8503	<u>87503</u>	<u>48503</u>	<u>487503</u>	17	.6693	40	1.5748	14.299	.563	<u>88503</u>	<u>488503</u>	16.6	.6536
8504	<u>87504</u>	<u>48504</u>	<u>487504</u>	20	.7874	47	1.8504	15.87	.625	<u>88504</u>	<u>488504</u>	17.8	.6988
8505	<u>87505</u>	<u>48505</u>	<u>487505</u>	25	.9843	52	2.0472	15.87	.625	<u>88505</u>	<u>488505</u>	16.8	.6594
8506	<u>87506</u>	<u>48506</u>	<u>487506</u>	30	1.1811	62	2.4409	19.989	.787	*88506	<u>488506</u>	24	.9449
8507	<u>87507</u>	<u>48507</u>	<u>487507</u>	35	1.3780	72	2.8346	21	.827	<u>88507</u>	<u>488507</u>	25	.9843
8508	<u>87508</u>	<u>48508</u>	<u>487508</u>	40	1.5748	80	3.1496	25	.945	*88508	<u>488508</u>	27	1.063
8509	<u>87509</u>	<u>48509</u>	<u>487509</u>	45	1.7717	85	3.3465	25	.945	*88509	<u>488509</u>	27	1.063
8510	<u>87510</u>	<u>48510</u>	<u>487510</u>	50	1.9685	90	3.5433	26	1.024	*88510	<u>488510</u>	30	1.1811
8511	<u>87511</u>	<u>48511</u>	<u>487511</u>	55	2.1654	100	3.9370	27	1.063	<u>88511</u>	<u>488511</u>	33.3	1.3125
8512	<u>87512</u>	<u>48512</u>	<u>487512</u>	60	2.3622	110	4.3307	29	1.142	<u>88512</u>	<u>488512</u>	33	1.2992
8513	<u>87513</u>	<u>48513</u>	<u>487513</u>	65	2.5591	120	4.7244	31	1.221	<u>88513</u>	<u>488513</u>	36	1.4173
8514				70	2.7559	125	4.9213	31.2	1.299				

Above size bores 00 thru 08 of ND seal bearings are available with metal slingers "C" prefix.

Medium Series—8600

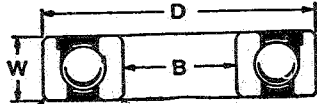
8602	<u>87602</u>	<u>48602</u>	<u>487603</u>	15	.5906	42	1.6535	15	.591	<u>88602</u>	<u>488602</u>	17	.6693
8603	<u>87603</u>	<u>48603</u>	<u>487603</u>	17	.6693	47	1.8504	16	.630	<u>88603</u>	<u>488603</u>	18	.7087
8604	<u>87604</u>	<u>48604</u>	<u>487604</u>	20	.7874	52	2.0472	19	.7480	<u>88604</u>	<u>488604</u>	23	.9055
8605	<u>87605</u>	<u>48605</u>	<u>487605</u>	25	.9843	62	2.4409	21	.827	<u>88605</u>	<u>488605</u>	25	.9843
8606	<u>87606</u>	<u>48606</u>	<u>487606</u>	30	1.1811	72	2.8346	23	.9055	<u>88606</u>	<u>488606</u>	27	1.0630
8607	<u>87607</u>	<u>48607</u>	<u>487607</u>	35	1.3780	80	3.1496	25	.9843	<u>88607</u>	<u>488607</u>	29	1.1417
8608	<u>87608</u>	<u>48608</u>	<u>487608</u>	40	1.5748	90	3.5433	27	1.0630	<u>88608</u>	<u>488608</u>	31	1.2205
8609	<u>87609</u>	<u>48609</u>	<u>487609</u>	45	1.7717	100	3.9370	30	1.1811	*88609	<u>488609</u>	35	1.3780

Above size bores 04 thru 06 of ND seal bearings are available with metal slingers "C" prefix.

PROPELLER SHAFT BEARINGS, TYPE XD88000—The size numbers above, which are marked with an asterisk (), are also available with Bearings designed for Propeller Shaft Applications. The "XD" prefix is used. Outside Dimensions are same as shown above. EXAMPLE: XD88506 is the part number for a Propeller Shaft Bearing. See page 12.

Underlined numbers available in "WC" 8000 Series.

ANGULAR CONTACT—SINGLE ROW
MAGNETO BEARINGS—Series ND5 to ND20



For radial and light thrust loads. Mounted two bearings opposed. Made separable to speedup assembly of mechanisms in which they are used.

BEARING PART NO.	Bore B		Diameter D		Width W	
	mm	inch	mm	inch	mm	inch
ND5	5	.1969	16	.6299	5	.1969
ND5-4	4	.1575	16	.6299	5	.1969
ND8	8	.3150	24	.9449	7	.2756
ND8-6	6	.2362	24	.9449	7	.2756
ND8-7	7	.2750	24	.9449	7	.2756
ND10	10	.3937	28	1.1024	8	.3150
ND10-9	9	.3543	28	1.1024	8	.3150
ND12	12	.4724	32	1.2598	7	.2756

BEARING PART NO.	Bore B		Diameter D		Width W	
	mm	inch	mm	inch	mm	inch
ND13	13	.5118	30	1.1811	7	.2756
ND13F	13	.5118	30	1.1811	7	.2756
ND15	15	.5906	35	1.3780	8	.3150
ND15F	15	.5906	35	1.3780	8	.3150
ND15J	15	.5906	35	1.3780	8	.3150
ND16	16	.6299	38	1.4961	10	.3937
ND16F	16	.6299	38	1.4961	10	.3937
ND17	17	.6693	44	1.7323	11	.4331
ND17E	17	.6693	44	1.7323	10	.3937
ND17F	17	.6693	44	1.7323	10	.3937
ND17H	17	.6693	40	1.5748	10	.3937
ND17J	17.4	.6875	34.9	1.3754	11	.4331
ND20	20	.7874	47	1.8504	14	.5512

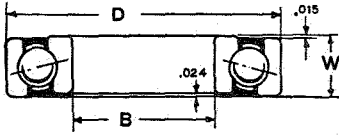
EXTRA LIGHT 0L00—Single Row—Non-Loading Groove

Bearing Size No.		Bore B		Diameter D		Width W		Brg. Size No.	Flange OD	
Plain	1 Shield	mm	inch	mm	inch	mm	inch		Flanged	mm	inch
Q0L00	Q70L03	10	.3937	26	1.0236	8	.3150			
Q0L01		12	.4724	28	1.1024	8	.3150			
Q0L02		15	.5906	32	1.2598	9	.3543			
0L03		17	.6693	35	1.3780	10	.3937			
0L04		20	.7874	42	1.6535	12	.4724			
Q0L05		25	.9843	47	1.8504	12	.4724			
Q0L06		30	1.1811	55	2.1654	13	.5118	QN0L06	58.25	2.293
Q0L07		35	1.3780	62	2.4409	14	.5512	QN0L07	65.5	2.579
Q0L08		40	1.5748	68	2.6772	15	.5906	QN0L08	71.5	2.815
Q0L09		45	1.7717	75	2.9528	16	.6299	QN0L09	79.	3.11
Q0L10		50	1.9685	80	3.1496	16	.6299	QN0L10	84	3.307
0L11		55	2.1654	90	3.5433	18	.7087	N0L11	94.5	3.720
0L12		60	2.3622	95	3.7402	18	.7087	N0L12	99.5	3.917
Q0L13		65	2.5591	100	3.9370	18	.7087	QN0L13	104.5	4.114
0L14		70	2.7559	110	4.3307	20	.7874	N0L14	115.	4.528
Q0L15		75	2.9528	115	4.5276	20	.7874	QN0L15	120.	4.724
0L16		80	3.1496	125	4.9213	22	.8661	N0L16	130.5	5.138
Q0L17		85	3.3465	130	5.1181	22	.8661	QN0L17	135.5	5.335
0L18		90	3.5433	140	5.5118	24	.9449	N0L18	146.	5.748
Q0L19		95	3.7402	145	5.7087	24	.9449	QN0L19	151.	5.945
0L20		100	3.9370	150	5.9055	24	.9449	QN0L20	156.	6.1417
Q0L21		105	4.1339	160	6.2992	26	1.0236	QN0L21	166.5	6.555
0L22		110	4.3307	170	6.6929	28	1.1024	QN0L22	177.	6.9685
0L24		120	4.7244	180	7.0866	28	1.1024	N0L24	187.	7.362
Q0L26		130	5.1181	200	7.8740	33	1.2992	QN0L26	208.25	8.199
Q0L28		140	5.5118	210	8.2677	33	1.2992	QN0L28	218.	8.5925
Q0L30		150	5.9055	225	8.8583	35	1.3780	QN0L30	233.8	9.2028
Q0L36		180	7.0866	280	11.0236	46	1.8110			



SINGLE ROW
Angular Contact—Cont'd

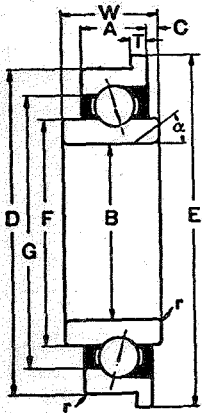
DIFRAX BEARINGS
Type 0100



For radial and thrust loads from one direction. Particularly adapted to the support of automotive differentials (2 bearings opposed.)

BEARING PART NO.	Bore B		Diameter D		Width W	
	mm	inch	mm	inch	mm	inch
0100	43	1.6929	80	3.1496	18	.7087
0101	58	2.2835	100	3.9370	21	.8268
0103	41	1.6142	75	2.9528	17	.6693
0108	40	1.5748	80	3.1496	18	.7087
0108A	40	1.5748	80	3.1496	18	.7087
0110	50	1.9685	90	3.5433	20	.7874
0111	55	2.1654	100	3.9370	21	.8268
0113	43	1.6929	80	3.1496	18	.7087
0114	43	1.6929	75	2.9528	17	.6693

FLANGED PRECISION BEARINGS—NM0202B



Single Row Angular Contact bearings. Mounted two bearings opposed for combined loads from either direction. Thrust capacity 100% of rated radial capacity.

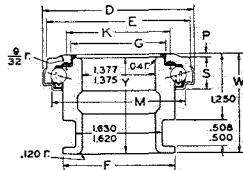
TYPE NM0200B

Available in ABEC-5 precision specifications only.

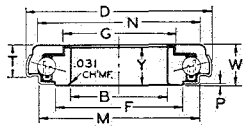
BEARING PART NO.	Bore B		Diameter D		Width W	
	mm	inch	mm	inch	mm	inch
NM0202B	15	.5906	35	1.3780	13	.5118
NM0203B	17	.6693	40	1.5748	14	.5512
NM0204B	20	.7874	47	1.8504	16	.6299
NM0205B	25	.9843	52	2.0472	17	.6693
NM0206B	30	1.1811	62	2.4409	19	.7480
NM0207B	35	1.3780	72	2.8346	21	.8268
NM0208B	40	1.5748	80	3.1496	23	.9055
NM0210B	50	1.9685	90	3.5433	27	1.0630
NM0210B8	40	1.5748	90	3.5433	27	1.0630
NM0210B9	45	1.7717	90	3.5433	27	1.0630
NM0212B	60	2.3622	110	4.3307	31	1.2205
NM0212B11	55	2.1654	110	4.3307	31	1.2205
NM0214B	70	2.7559	125	4.9213	35	1.3780
NM0214B13	65	2.5591	125	4.9213	35	1.3780
NM0216B	80	3.1496	140	5.5118	39	1.5354
NM0216B15	75	2.9528	140	5.5118	39	1.5354
NM0218B	90	3.5433	160	6.2992	43	1.6929
NM0220B	100	3.9370	180	7.0866	47	1.8504
NM0222B	110	4.3307	200	7.8740	50	1.9685
QN0224B28	120	4.7244	215	8.4646	55	2.1654

CLUTCH THROW-OUT BEARINGS

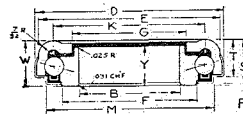
Self-contained, non-separable bearings especially designed for the principal kinds of automotive clutches. Radial capacities of all three types are equal to the thrust ratings.



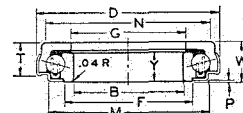
CT22 & 2140122
CT24E*



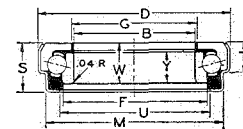
CT24A & CT26



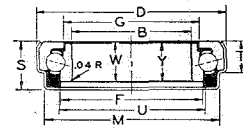
CT24B



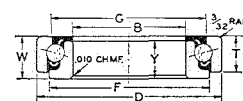
CT30F



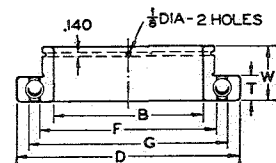
CT36 & CT44



CT32, CT34, CT34-36,
43770D



CT38 & CT40



4L24A-B-E

Bearing Part No.	Bore B		Diameter		Width					
			D	M	W	S	Y	F	G	N
	mm	inch	inch	inch	inch	inch	inch			
CT22	34.92	1.3750	2.812	2.5	1.87		1.81	—	1.732	—
CT24A	38.10	1.50	2.812	2.5	.625	.495	.594	2.0	1.75	2.5
CT24B	38.10	1.50	2.812	2.5	.687	.558	.594	2.0	1.75	—
CT24C	38.10	1.50	2.812	2.5	.625	.781	.594	2.0	1.75	2.031
CT24E	34.92	1.3750	2.812	2.547	1.270	—	1.140	2.077	1.375	—
CT26	41.29	1.6255	2.594	2.313	.625	.625	.419	1.913	1.012	—
2140122	34.92	1.3750	2.812	2.500	1.609	.605	1.547	2.077	1.732	—
CT30F	47.63	1.875	3.125	2.750	.687	—	.484	2.192	1.915	—
CT32	50.80	2.0000	3.237	3.031	.687	.797	.518	2.388	2.035	2.437
CT34	54.24	2.1355	3.487	3.281	.750	.906	.580	2.638	2.250	2.687
CT34-36	57.15	2.2500	3.487	3.281	.750	.906	.580	2.638	2.270	2.687

*Dimensions on drawing not applicable.

Bearing Part No.	Bore B		Diameter		Width					
			D	M	W	S	Y	F	G	N
	mm	inch	inch	inch	inch	inch	inch			
CT36	57.15	2.2500	3.487	3.281	.750	.906	.735	2.638	2.530	2.687
CT44	69.85	2.7500	4.070	3.344	.813	1.000	.793	3.182	3.030	3.203

Brg. Part No.	Bore B		Diameter		Width				
			D		W	T	Y	F	G
	mm	inch	mm	inch	inch	inch	inch		
CT38	60.33	2.3750	98.43	3.875	.875	.750	.781	3.425	3.250
CT40	63.50	2.5000	103.51	4.075	1.0625	.906	.875	3.648	3.437

Bearing Part No.	Bore		Diameter Inch			Width Inch	
	mm	inch	D	F	G	W	T
4L24A	120	4.7244	7.0866	5.597	6.266	1.6562	.748
4L24B	120	4.7244	7.0866	5.597	6.266	1.7187	.748
4L24E	120	4.7244	7.0866	5.597	6.266	1.750	.745

Bearing Part No.	Bore		Diameter Inch			Width Inch	
	mm	inch	D	F	G	W	T
43770D	50.80	2.000	3.237	2.385	2.035	.625	.575

Angular Contact—Cont'd

SINGLE ROW—LIGHT SERIES—20000 AND 30000



Available singly or in matched pairs for Duplex Mounting:—"DB," "DF" or "DT." "DT" type bearings may be used to replace "DB" and "DF" types—but if "DB" or "DF" are ordered as needed, it enables supplier to ship as ordered or substitute "DT," or 2 "U" Prefix "Universal" bearings. "Q" indicates non-metallic, "V" indicates bronze separators.

Bearing Size No.									Flanged Available only in Precision Specifications		
Plain	Plain	Snap Ring	Bore B		Diameter D		Width W		Bearing Size No.	Flange OD	
			mm	inch	mm	inch	mm	inch		Flanged	mm	inch
20200			10	.3927	30	1.1811	9	.3543			
20201			12	.4724	32	1.2598	10	.3937			
20202			15	.5906	35	1.3780	11	.4331	N20202	38.18	1.503
20203	30203	1 Shield	17	.6693	40	1.5748	12	.4724	N20203	43.18	1.700
20204	30204	Q720203	20	.7874	47	1.8504	14	.5512	N20204	50.12	1.975
20205	30205	Q420205	25	.9843	52	2.0472	15	.5906	N20205	55.17	2.172
20206	Q30206	420206	30	1.1811	62	2.4409	16	.6299	N20206	67	2.6378
20207	Q30207		35	1.3780	72	2.8346	17	.6693	N20207	77	3.0315
20208	Q30208	420208	40	1.5748	80	3.1496	18	.7087	N20208	85	3.3465
20209	Q30209	420209	45	1.7717	85	3.3465	19	.7480			
20210	Q30210		50	1.9685	90	3.5433	20	.7874	N20210	95	3.7402
20211	Q30211		55	2.1654	100	3.9370	21	.8268			
20212	Q30212		60	2.3622	110	4.3307	22	.8661	N20212	116	4.5669
20213	Q30213		65	2.5591	120	4.7244	23	.9055			
20214	Q30214	420214	70	2.7559	125	4.9213	24	.9449	N20214	131	5.1575
20215	Q30215		75	2.9528	130	5.1181	25	.9843			
20216	Q30216		80	3.1496	140	5.5118	26	1.0236	QN20216	146.5	5.7677
20217	Q30217		85	3.3465	150	5.9055	28	1.1024			
20218	Q30218		90	3.5433	160	6.2992	30	1.1811	N20218	167.5	6.5945
20219	Q30219		95	3.7402	170	6.6929	32	1.2598			
20220	Q30220		100	3.9370	180	7.0866	34	1.3386	N20220	188.5	7.4212
20221			105	4.1339	190	7.4803	36	1.4173			
20222	Q30222		110	4.3307	200	7.8740	38	1.4961	N20222	209.5	8.2480
20224			120	4.7244	215	8.4646	40	1.5748			
Q20226	Q30226		130	5.1181	230	9.0551	40	1.5748	QN20226	240.	9.4488
Q20228	Q30228		140	5.5118	250	9.8425	42	1.6535			
Q20230			150	5.9055	270	10.6299	45	1.7717			

20000 Series 15° Contact Angle, H20000 Series 25° Contact Angle, 30000 Series 35° Contact Angle


SINGLE ROW—MEDIUM SERIES—20300 AND 30300

H20300			10	.3937	35	1.3780	11	.4331			
H20301			12	.4724	37	1.4567	12	.4724			
H20302			15	.5906	42	1.6535	13	.5118			
H20303		1 Shield	17	.6693	47	1.8504	14	.5512			
H20304	Q30304	720304	20	.7874	52	2.0472	15	.5906			
H20305	Q30305		25	.9843	62	2.4409	17	.6693			
H20306	Q30306		30	1.1811	72	2.8346	19	.7480			
H20307	Q30307		35	1.3780	80	3.1496	21	.8268			
H20308	Q30308	Snap Rg	40	1.5748	90	3.5433	23	.9055			
H20309	Q30309	420309	45	1.7717	100	3.9370	25	.9843			
H20310	Q30310	420310	50	1.9685	110	4.3307	27	1.0630			
H20311	Q30311		55	2.1654	120	4.7244	29	1.1417			
H20312	Q30312		60	2.3622	130	5.1181	31	1.2205			
H20313	Q30313		65	2.5591	140	5.5118	33	1.2992			
H20314	Q30314		70	2.7559	150	5.9055	35	1.3780			
H20315	Q30315		75	2.9528	160	6.2992	37	1.4567			
H20316	Q30316		80	3.1496	170	6.6929	39	1.5354			
H20317	Q30317		85	3.3465	180	7.0866	41	1.6142			
H20318	Q30318		90	3.5433	190	7.4803	43	1.6929			
H20319	Q30319		95	3.7402	200	7.8740	45	1.7717			
H20320	Q30320		100	3.8370	215	8.4646	47	1.8504			
QH20321	Q30321		105	4.1339	225	8.8583	49	1.9291			
H20322	Q30322		110	4.3307	240	9.4488	50	1.9685			
	Q30326		130	5.1181	280	11.0236	58	2.2835			

Angular Contact—Cont'd

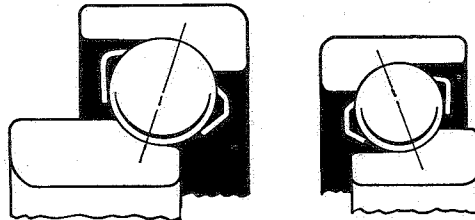
SINGLE ROW—HEAVY SERIES—20400 AND 30400

Available singly or in matched pairs for Duplex Mounting:—"DB," "DF" or "DT." "DT" type bearings may be used to replace "DB" and "DF" types—but if "DB" or "DF" are ordered as needed, it enables supplier to ship as ordered or substitute "DT," or 2 "U" Prefix "Universal" bearings.



Bearing Size No.		Bore B		Diameter D		Width W	
Plain	Plain	mm	inch	mm	inch	mm	inch
QH20404	Q30404	20	.7874	72	2.8346	19	.7480
H20405	Q30405	25	.9843	80	3.1496	21	.8268
QH20406	Q30406	30	1.1811	90	3.5433	23	.9055
H20407	Q30407	35	1.3780	100	3.9370	25	.9843
H20408	Q30408	40	1.5748	110	4.3307	27	1.0630
H20409	Q30409	45	1.7717	120	4.7244	29	1.1417
H20410	Q30410	50	1.9685	130	5.1181	31	1.2205
H20411	Q30411	55	2.1654	140	5.5118	33	1.2992
H20412	Q30412	60	2.3622	150	5.9055	35	1.3780
H20413	Q30413	65	2.5591	160	6.2992	37	1.4567
H20414	Q30414	70	2.7559	180	7.0866	42	1.6535
H20415	Q30415	75	2.9528	190	7.4803	45	1.7717
H20416	Q30416	80	3.1496	200	7.8740	48	1.8898
QH20418		90	3.5433	225	8.8583	54	2.1260

FRONT WHEEL BEARINGS—TYPE 909000



STANDARD TYPE

Angular contact, separable bearings, particularly adapted to the radial and thrust loads encountered in front wheel service.

Complete Bearing Part No.	Component Parts		
	Cone Part No.	Cup Part No.	Retainer Part No.
909001	909501	909601	909701
909002	909502	909602	909702
909003††	909503	909603	909703
909004††	909504	909604	909704

Complete Bearing Part No.	Component Parts		
	Cone Part No.	Cup Part No.	Retainer Part No.
909021	909521	909621	909721
909022	909522	909622	909722
909023	909523	909623	909723
909024	909524	909624	909724
909025	909525	909625	909725
909026	909526	909626	909726
909027††	909527	909627	909727
909028††	909528	909628	909728
909032††	909532	909602	909702
909035††	909535	909635	909735
909040	909540	909640	909740
909041	909541	909641	
909042††	909542	909602	909702
909045	909545	909625	909725
909046	909546	909626	909726
909052	909552	909602	909702
909060	909560	909660	909760
909062††	909562	909662	909762
909072	909572	909662	909762

†† Complete bearing not stocked—order component parts shown at right.

New Departure
DIMENSION DATA

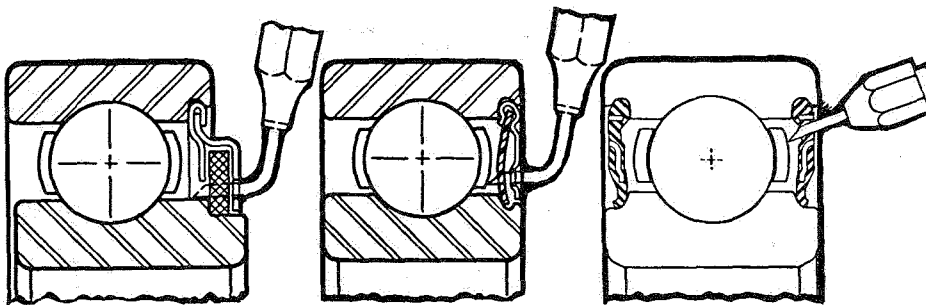


STEEL BALLS—A1 GRADE (Unless otherwise indicated)

Part No.	Size	Part No.	Size	Part No.	Size	Part No.	Size
6492	$\frac{3}{16}$ " Inst.	6504	$\frac{1}{4}$ "	6515	$\frac{13}{16}$ "	6526	$\frac{13}{32}$ "
6493	$\frac{1}{8}$ " PXR	6505	$\frac{9}{32}$ "	6516	$\frac{7}{8}$ "	6527	$\frac{15}{32}$ "
6495	$\frac{9}{64}$ " PXR	6506	$\frac{5}{16}$ "	6517	$\frac{15}{16}$ "	6528	$\frac{17}{32}$ "
6496	$\frac{5}{32}$ " Inst.	6507	$\frac{11}{32}$ "	6518	1"	6529	$\frac{19}{32}$ "
6497	$\frac{9}{64}$ "	6508	$\frac{3}{8}$ "	6519	$1\frac{1}{16}$ "	6530	$\frac{21}{32}$ "
6498	$\frac{1}{16}$ "	6509	$\frac{7}{16}$ "	6520	$1\frac{1}{4}$ "	6531	$\frac{23}{32}$ "
6499	$\frac{3}{32}$ "	6510	$\frac{1}{2}$ "	6521	$1\frac{1}{8}$ "	6532	$\frac{25}{32}$ "
6500	$\frac{1}{8}$ "	6511	$\frac{9}{16}$ "	6522	$1\frac{3}{8}$ "	6533	$\frac{27}{32}$ "
6501	$\frac{5}{32}$ "	6512	$\frac{5}{8}$ "	6523	$1\frac{5}{8}$ "	6534	$\frac{29}{32}$ "
6502	$\frac{3}{16}$ "	6513	$\frac{11}{16}$ "	6524	$1\frac{7}{8}$ "	6535	$\frac{31}{32}$ "
6503	$\frac{7}{32}$ "	6514	$\frac{3}{4}$ "	6525	$1\frac{1}{2}$ "	6536	$1\frac{1}{16}$ "

PACKAGED STEEL BALLS—A-1 GRADE

Carton Part No.	Quantity per Carton of 10 Individual Boxes	Individual Box Part No.	Quantity per Individual Box	Size
36499	3500	26499	250	$\frac{3}{32}$ "
36500	3250	26500	325	$\frac{5}{32}$ "
36501	2500	26501	250	$\frac{5}{16}$ "
36502	2000	26502	200	$\frac{3}{8}$ "
36503	1500	26503	150	$\frac{7}{32}$ "
36504	1250	26504	125	$\frac{1}{4}$ "
36505	1000	26505	100	$\frac{9}{32}$ "
36506	800	26506	80	$\frac{5}{16}$ "
36507	700	26507	70	$\frac{11}{32}$ "
36508	600	26508	60	$\frac{3}{8}$ "
36526	500	26526	50	$\frac{13}{32}$ "
36509	400	26509	40	$\frac{7}{16}$ "
36527	300	26527	30	$\frac{15}{32}$ "
36510	250	26510	25	$\frac{1}{2}$ "
36511	200	26511	20	$\frac{9}{16}$ "
36512	150	26512	15	$\frac{5}{8}$ "
36513	100	26513	10	$\frac{11}{16}$ "
36514	80	26514	8	$\frac{3}{4}$ "
36515	70	26515	7	$\frac{13}{16}$ "
36516	60	26516	6	$\frac{7}{8}$ "
36517	50	26517	5	$\frac{15}{16}$ "
36518	40	26518	4	1"



Ease of injection-relubrication. Left to right, Type R-8000 bearings, Type 9000 bearings, and Type Z-99000 bearings. Latter has synthetic seal which closes automatically when needle is withdrawn.

Z99000 "Senti Seal" seals are also easily removed for relubrication.

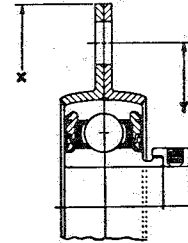
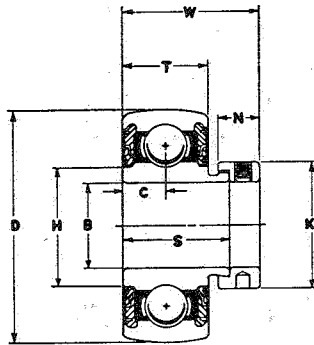
INJECTION-RELUBRICATION

In order to make relubrication possible with a minimum of time and expense to the user and without the necessity of exposing bearing interior parts to contamination, New Departure developed the injection-relubrication system.

Any high grade turbine quality oil of about 500 to 600 S. U. S. viscosity at 100° F., corrosion and oxidation inhibited, is suitable for injection-relubrication of bearings containing New Departure's general purpose grease.

ADAPTER BEARINGS

TYPE AE (SENTRI-SEAL) ECCENTRIC LOCKING COLLAR

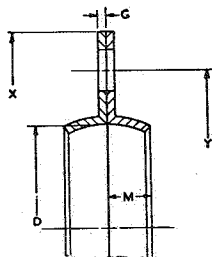
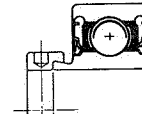


Available With Flange
As Standard Accessory
Flanges Must Be Ordered Separately

PRINCIPAL DIMENSIONS

Bearing No.	B Shaft Dia.	D		W	T	C	K	Stamped Flange Set No.	Collars Part No.
		mm	inch						
Z99AE008	1/2	40	1.5748	1 3/32	.4724	.236	1 5/16		E008
Z99AE009	9/16	40	1.5748	1 3/32	.4724	.236	1 5/16		E009
Z99AE010	5/8	40	1.5748	1 3/32	.4724	.236	1 5/16		E010
Z99AE011	11/16	40	1.5748	1 3/32	.4724	.236	1 5/16		E011
Z99AE012	3/4	47	1.8504	1 5/16	.5512	.276	1 5/8	FL47	E012
Z99AE014	7/8	52	2.0472	1 7/32	.5906	.295	1 5/8	FL52	E014
Z99AE015	15/16	52	2.0472	1 7/32	.5906	.295	1 5/8	FL52	E015
Z99AE100	1	52	2.0472	1 7/32	.5906	.295	1 5/8	FL52	E100
Z99AE101	1 1/16	62	2.4409	1 3/8	.6299	.315	1 3/4	FL62	E101
Z99AE102	1 1/8	62	2.4409	1 3/8	.6299	.315	1 3/4	FL62	E102
Z99AE103	1 1/16	62	2.4409	1 3/8	.6299	.315	1 3/4	FL62	E103
Z99AE104B	1 1/4	62	2.4409	1 3/8	.6299	.315	1 3/4	FL62	E104B
Z99AE104	1 1/4	72	2.8346	1 31/32	.6693	.334	2 3/16	FL72	E104
Z99AE105	1 5/16	72	2.8346	1 31/32	.6693	.334	2 3/16	FL72	E105
Z99AE106	1 3/8	72	2.8346	1 31/32	.6693	.334	2 3/16	FL72	E106
Z99AE107	1 7/16	72	2.8346	1 31/32	.6693	.334	2 3/16	FL72	E107
Z99AE108	1 7/8	80	3.1496	1 31/32	.7087	.354	2 3/8	FL80	E108
Z99AE109	1 9/16	80	3.1496	1 31/32	.7087	.354	2 3/8	FL80	E109
Z99AE110	1 5/8	85	3.3465	1 23/32	.7480	.374	2 1/2	FL85	E110
Z99AE111	1 11/16	85	3.3465	1 23/32	.7480	.374	2 1/2	FL85	E111
Z99AE112	1 3/4	85	3.3465	1 23/32	.7480	.374	2 1/2	FL85	E112
Z99AE113	1 13/16	90	3.5433	1 45/32	.7874	.394	2 3/4	FL90	E113
Z99AE114	1 7/8	90	3.5433	1 45/32	.7874	.394	2 3/4	FL90	E114
Z99AE115	1 15/16	90	3.5433	1 45/32	.7874	.394	2 3/4	FL90	E115
Z99AE200	2	100	3.9370	1 27/32	.8268	.413	3	FL100	E200
Z99AE201	2 1/16	100	3.9370	1 27/32	.8268	.413	3	FL100	E201
Z99AE202	2 3/8	100	3.9370	1 27/32	.8268	.413	3	FL100	E202
Z99AE203	2 5/16	100	3.9370	1 43/32	.8268	.413	3	FL100	E203
Z99AE204	2 1/4	110	4.3307	1 15/16	.8661	.433	3 5/16		E204
Z99AE205	2 5/16	110	4.3307	1 15/16	.8661	.433	3 5/16		E205
Z99AE206	2 3/8	110	4.3307	1 15/16	.8661	.433	3 5/16		CE206
Z99AE207	2 7/16	110	4.3307	1 15/16	.8661	.433	3 5/16		CE207

AE bearings are available with cylindrical O. D. For bearing with cylindrical O. D. suffix "C" is added (example Z99AE100C)



FLANGES

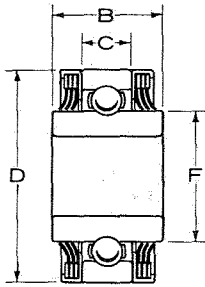
Set No. (2 Pieces)	G	X	Y	Mounting Holes		M	Min. Frame Opening
				No.	Size		
FL47	.065	3 9/16	2 13/16	3	11/32	5/16	2 3/16
FL52	.083	3 3/4	3	3	11/32	11/32	2 3/8
FL62	.104	4 1/16	3 9/16	3	15/32	11/32	2 15/16
FL72	.104	4 13/16	3 15/16	3	15/32	3/8	3 3/16
FL80	.134	5 13/16	4 11/16	4	17/32	13/32	3 9/16
FL85	.134	5 7/8	4 3/4	4	17/32	7/16	3 13/16
FL90	.149	6 1/8	5	4	17/32	7/16	4
FL100	.149	6 9/16	5 7/16	4	17/32	15/32	4 7/16

See page 22 for FL87, FL105.

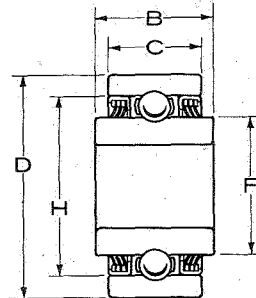


Bearings extensively used on AGRICULTURAL EQUIPMENT

HEAVY DUTY DISC HARROW BEARINGS
SQUARE OR ROUND BORES
CYLINDRICAL O.D.



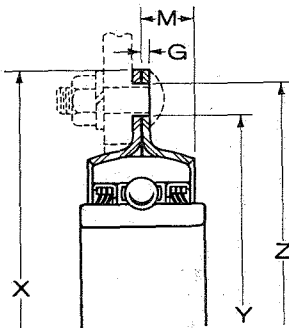
TYPE I



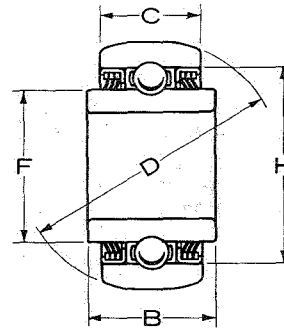
TYPE II

Bearing No.		Type	Shaft Size		O.D. D	Ring Widths	
Sealed	Open		Nominal	Max.		Inner B	Outer C
AS4508A	4508A	I	1" Square	1.035	3.150	1.688	.708
AS4508AD	4508AD	II	1" Square	1.035	3.150	1.688	1.312
AS4508B	4508B	I	1 1/8" Square	1.120	3.150	1.688	.708
AS4508BD	4508BD	II	1 1/8" Square	1.120	3.150	1.688	1.312
AS4509AD	4509AD	II	1 1/4" Square	1.285	3.346	1.688	1.312
AS4511AD	4511AD	II	1 1/2" Square	1.536	4.000	1.750	1.438
AS4508ED	4508ED	II	1 1/2" Round	1.535	3.150	1.688	1.312
.....	3210-B	I	1 5/16" Round	1.938	3.543	1.938	.787

SPHERICAL O.D. SQUARE OR ROUND BORES



Flanges must be ordered separately.
Two pieces make up the flange set.



Bearing No.		Shaft Size		Spherical O.D. ± .005 D	Width ± .005		F	H
Sealed	Open	Nominal	Max.		Inner B	Outer C		
AS4508FC	4508FC	7/8" Square	.905	3.438	1.688	1.312	2.058	2.676
AS4508AC	4508AC	1" Square	1.035	3.438	1.688	1.312	2.058	2.676
AS4508BC	4508BC	1 1/8" Square	1.120	3.438	1.688	1.312	2.058	2.676
AS4511AC	4511AC	1 1/2" Square	1.536	4.125	1.750	1.438	2.777	3.409
AS4508DC	4508DC	1 1/8" Round	1.192	3.438	1.688	1.312	2.058	2.676
AS4509BC	4509BC	1 1/4" Round	1.780	3.438	1.688	1.312	2.313	2.873

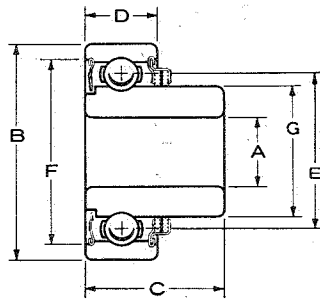
STAMPED FLANGES

Part No. (1 Half)	G	M	X	Mounting Holes			
				No.	Width	Y	Z
FL-87	.134	.718	5 3/4	4	.516	4.172	5.328
FL-105	.194	.797	6 3/8	4	.531	4.938	6.281

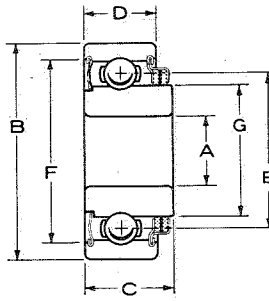
Complete line of flange sets on page 21. 2-FL87 used with each of above bearings except 4511AC. AS4511AC which uses 2-FL105.

Bearings extensively used on Agricultural Equipment—Con't

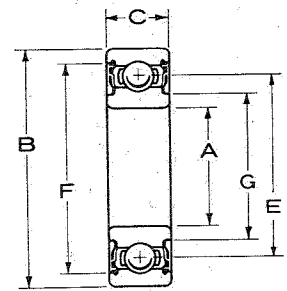
LIGHT DUTY DISC BEARINGS



TYPE I



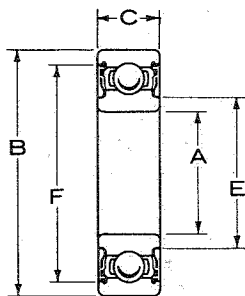
TYPE II



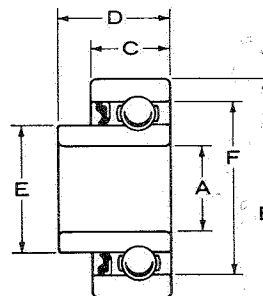
TYPE III

Type	Bearing	Bore A	O.D. B	Inner Ring Width C	Outer Ring Width D	Inner Ring Outside Dia. G
I	87504A16	.632 .626	1.8504	1.125	.5512	1.1585 1.1575
II	87504U	.632 .626	1.8504	.686	.5512	1.1585 1.1575
III	Z99502U	.506 .500	1.3750	.433	.433	.774 .770
III	Z99503U	.631 .625	1.5748	.505	.505	.860 .856

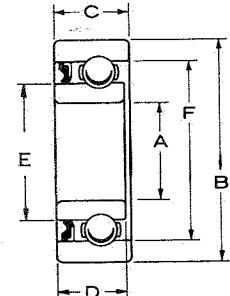
HAY RAKE TINE BAR BEARINGS



TYPE I



TYPE II

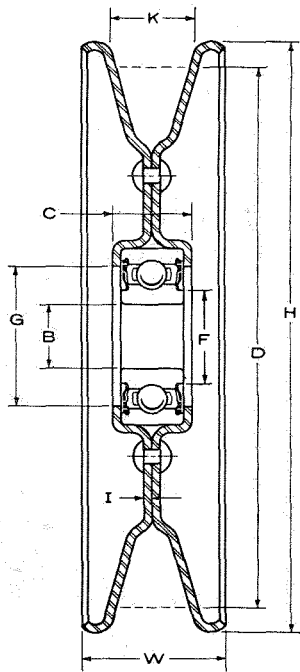


TYPE III

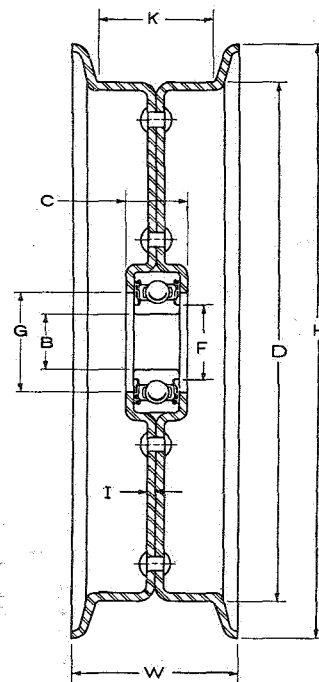
Bearing Number	Type	Bore A	O.D. B	Width		Inner Ring O.D. E
				O.R. C	I.R. D	
Z99503U	I	5/8"	1.575	.505	.505	.858
900537	II	3/4"	2.047	.700	1.053	1.158
900539	III	3/4"	2.047	.700	.700	1.158



Bearings extensively used on Agricultural Equipment—Cont'd
IDLER UNIT ASSEMBLIES



PV SERIES
for "B" Section V-Belts

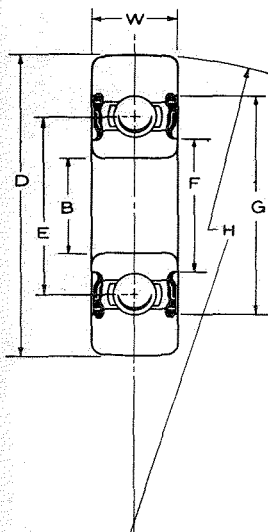


PF SERIES
For Flat Belts or
Backside V-Belts

Unit No.	Eff. O.D. D	Sheave O.D. H	Sheave Width W	Mounting Bolt B	Max. Groove Width K
PV2-404	4.25	4.875	1.094	1/2	.737
*PF2-212	2.75	3.25	.938	1/2	9/16
PF2-400	4.00	4.50	1.375	1/2	1 1/16
PF2-500	5.00	5.75	1.562	1/2	1 1/8
PF3-600	6.00	6.75	1.590	5/8	1 1/8

*Idler unit PF2-212 is hardened to provide long life when used on chain drives.

CAM FOLLOWER BEARINGS



CF SERIES

Bearing Number	Mounting Bolt Dia. B	O.D. D	Width W	Crown Radius H
	CF2-108*	1/2	1.500	.433	3.000
CF3-200*	5/8	2.000	.505	4.000

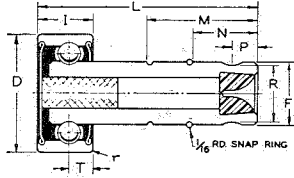
*A suffix indicates plastic seal rather than Z9 seal.

Bearings extensively used in TEXTILE INDUSTRY

(Many Have Other Applications)

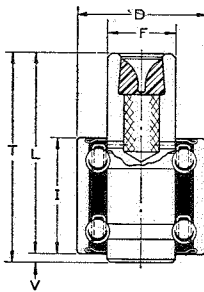
SEAL TYPE—TENSION PULLEY BEARINGS

HORIZONTAL—TYPES TP 15 & 23

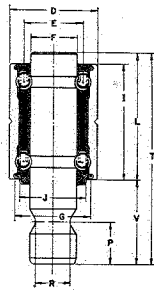


Brg. No.	F	D	R	I	N	P	L	M
TP-15-500	.6267	1.1811	$\frac{9}{16}$	.551	$\frac{41}{64}$	$\frac{1}{4}$	$2\frac{11}{64}$	1.250
TP-23-500	.6267	1.1811	$\frac{9}{16}$	.500	$\frac{31}{32}$	$\frac{7}{16}$	$1\frac{45}{64}$	

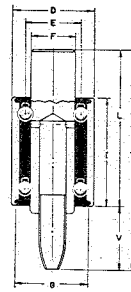
VERTICAL—TYPES TP-17, TP-20 & TP-21



TP-20-500



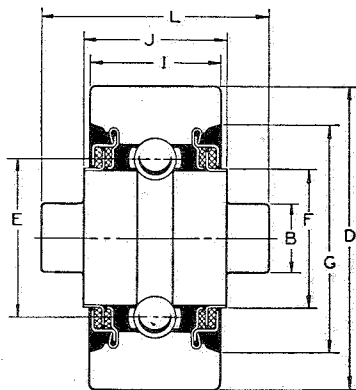
TP-21-500



TP-17-500

BEARING NUMBER	Shaft Diam. F	Bearing O. D. D	Overall Length T	Outer Race Width	Shaft Extn.	
					V	fr.O.R.
TP-17-500	.6267	1.1811	$3\frac{1}{8}$	1.532	.906	$\frac{11}{16}$
TP-20-500	.6267	1.1811	$1\frac{1}{2}$	1.062	.078	$\frac{3}{8}$
TP-21-500	.6267	1.1811	$2\frac{1}{8}$	1.530	$1\frac{1}{8}$	

TREADLE ROLL BEARINGS



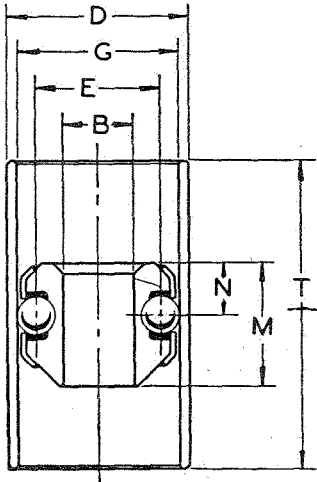
PRINCIPAL DIMENSIONS

Bearing Number	B	F	D	L	J	I	E	G
TM-11-505	.500	1.055	2.062	$1\frac{3}{8}$	$\frac{25}{32}$	.813	1.202	1.750
TM-13-505	.520	1.055	2.313	2	$1\frac{3}{8}$	1.000	1.202	1.750
TM-14-505	.500	1.055	2.313	$1\frac{3}{8}$	$\frac{25}{32}$	.813	1.202	1.750
TM-15-505	.500	1.055	2.313	$2\frac{1}{8}$	$1\frac{13}{32}$	1.500	1.202	1.750

TM-11, 13, 14, is interchangeable respectively with old TM numbers 1, 3, 4, 5.



Bearings extensively used in Textile Industry—Cont'd
SPINDLE BEARINGS

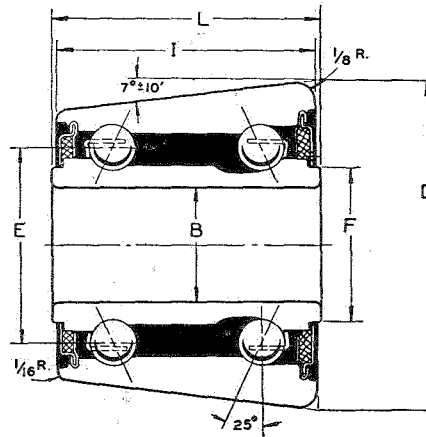


PRINCIPAL DIMENSIONS

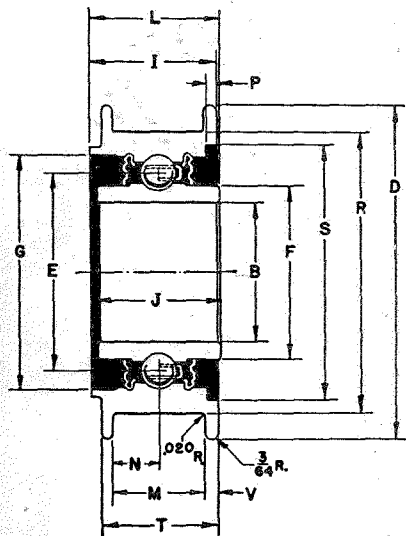
Brg. No.	B	D	E	G	M	N	T
TS-1-500	.3575	.913	.626	.814	.630	.265	1.565
TS-2	.4724	1.1250	.792	1.012	.625	.313	.625

PICK BALL CAM ROLLER

Bearing Number	B	F	D	L	I	E
TC-2-504	.7874	1.056	2.250	1.8125	1.750	1.330



TC-2-504

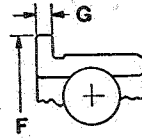
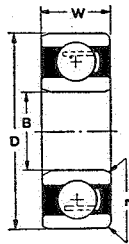


TP-30

SHEAVE BEARING
PRINCIPAL DIMENSIONS

Bearing Number	B	F	D	L	J	I	G
TP-30	1.000	1.245	2.375	.922	.875	.906	1.634
	M	N	P	R	S	V	T
	.654	.328	.080	2.000	1.820	.080	.826

INSTRUMENT BEARINGS



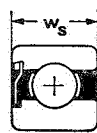
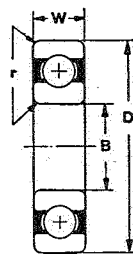
Flange
(Prefix N)

**STAINLESS STEEL
MINIATURE INCH SERIES**

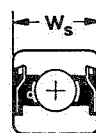
With one-piece L type separators
for moderate speeds.

New Bearing Number	Former Bearing Number	Bore B		Dia. D		Width W	Flange		Bearing Number One Shield	Bearing Number Two Shields	Width W Shielded	Flange Shielded
		Frac.	Dec.	Frac.	Dec.		Dec.	F					G
M0310 NM0310	R0	3/64	.0469	5/32	.1562	.0625	.203	.013	7M0310 7NM0310	77M0310 77NM0310	.937 .937	.031
M0412A NM0412A	R1		.0550	3/16	.1875	.0781	.234	.023	7M0412A 7NM0412A	77M0412A 77NM0412A	.1094 .1094	.031
M0516 NM0516	R1 1/4	5/64	.0781	1/4	.2500	.0937	.296	.023	7M0516 7NM0516	77M0516 77NM0516	.1406 .1406	.031
M0620 NM0620	R1 1/2	3/32	.0937	5/16	.3125	.1094	.359	.023	7M0620 7NM0620	77M0620 77NM0620	.1406 .1406	.031
M0816 NM0816	M2	1/8	.1250	1/4	.2500	.0937	.296	.023	7M0816 7NM0816	77M0816 77NM0816	.1094 .1094	.031
M0820 NM0820	R2G	1/8	.1250	5/16	.3125	.1094	.359	.023	7M0820 7NM0820	77M0820 77NM0820	.1406 .1406	.031
M1020 NM1020	M2 1/2	5/32	.1562	5/16	.3125	.1094	.359	.023	7M1020 7NM1020	77M1020 77NM1020	.1250 .1250	.036
M1220 NM1220	M3	5/16	.1875	5/16	.3125	.1094	.359	.023	7M1220 7NM1220	77M1220 77NM1220	.1250 .1250	.036
M1224 NM1224	M3A	5/16	.1875	3/8	.3750	.1250	.422	.023	7M1224 7NM1224	77M1224 77NM1224	.1250 .1250	.031
M1624 NM1624	M4	3/4	.2500	3/8	.3750	.1250	.422	.023	7M1624	77M1624	.1250	.031
M1632 NM1632	M4A	1/4	.2500	1/2	.5000	.1250	.547	.023	7M1632 7NM1632	77M1632 77NM1632	.1875 .1875	.045

Note: Single shielded flange bearings have shield on flange side.



One Shield



Two Shields

INCH AND METRIC SERIES

Illustrations not necessarily
descriptive of separator type.

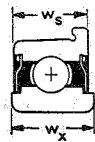
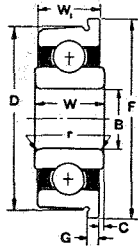
Shields are removable

Bearing Number	Bore B		Dia. D		Width W		Bearing Number One Shield	Bearing Number Two Shields	Width Ws Shielded
	Frac. or mm.	Dec.	Frac. or mm.	Dec.	Frac. or mm.	Dec.			
R2	1/8	.1250	3/8	.3750	5/32	.1562	RS7R2	RS77R2	.1562
R2A	1/8	.1250	1/2	.5000	11/64	.1719	RS7R2A	RS77R2A	.1719
R3D	1/8	.1875	1/2	.5000	5/32	.1562	RS7R3D	RS77R3D	.1960
R3DA	13/64	.2031	1/2	.5000	5/32	.1562	RS7R3DA	RS77R3DA	.1960
R4D	1/4	.2500	5/8	.6250	7/32	.2188	RS7R4D	RS77R4D	.1960
R4A	1/4	.2500	3/4	.7500	7/32	.2188	RS7R4A	RS77R4A	.2812
R6	3/8	.3750	7/8	.8750	7/32	.2188	RS7R6	RS77R6	.2812
34	4 mm.	.1575	16 mm.	.6299	5 mm.	.1969	RS7035	RS77034	.1969
35	5 mm.	.1969	19 mm.	.7480	6 mm.	.2362	RS7036	RS77035	.2362
36	6 mm.	.2362	19 mm.	.7480	6 mm.	.2362	RS7037	RS77036	.2756
37	7 mm.	.2756	22 mm.	.8661	7 mm.	.2756	RS7038	RS77037	.2756
38	8 mm.	.3150	22 mm.	.8661	7 mm.	.2756		RS77038	.2756



INSTRUMENT BEARINGS—Cont'd

**BEARINGS WITH FLANGED OUTER RING
TAPERED O.D.**



Shielded

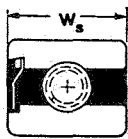
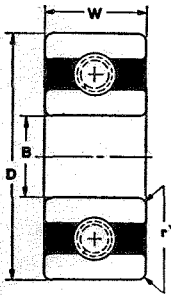
Based on inch series, but with protruding inner ring faces and with axial locating flange on outer rings.

Shields are removable.

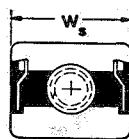
Can be supplied with one shield on flanged side.

Bearing Number	Bore B		*Dia. D	W Width inner ring	W1 Width outer ring	C	Flange		Bearing Number	Width Shielded	
	Frac.	Dec.					F	G		WS	WX
NR3HA	$\frac{3}{16}$	.1875	.4382	.189	.163	.016	.500	.042	RS77NR3HA	.163	.189
	$\frac{3}{16}$	.1875	.5632			.016	.625	.042	RS77NR3HC	.195	.218
NR3H	$\frac{3}{16}$	.1875	.5632	.218	.195	.016	.625	.042	RS77NR3H	.226	.250
NR4H	$\frac{1}{4}$	.2500	.6257	.250	.226	.016	.687	.042	RS77NR4H	.226	.250
NR5H	$\frac{5}{16}$	.3125	.6882	.250	.226	.016	.750	.042	RS77NR5H	.226	.250

* O.D. taper in per foot .080+ .060 on diameter, —.000

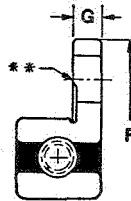


One Shield



Two Shields

Shields are removable.



Flange

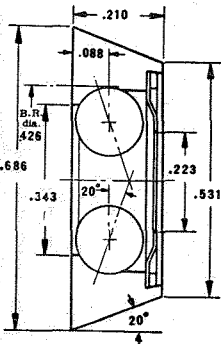
GIMBAL, SYNCHRO AND OTHER BEARINGS WITH SPRING SEPARATORS

"SR" series bearings and S34F5 are designed for Gimbals and other zero r.p.m. to very slow speed applications.

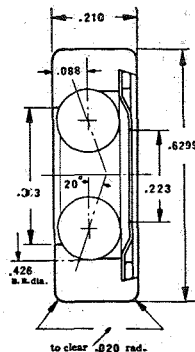
Bearings CSR3D to CS38F are fitted with close wound spring separators for synchros or other applications with speeds generally under 2000 r.p.m.

Bearing Number	Bore B		Dia. D		Width W		Flange		Bearing Number One Shield	Bearing Number Two Shields	Ws Width Shielded
	Frac.	Dec.	Frac.	Dec.	Frac.	Dec.	F	G			
GIMBAL BEARINGS											
SR2G	$\frac{1}{8}$	.1250	$\frac{5}{16}$	.3125	$\frac{1}{8}$	.1094					
SNR2G	$\frac{1}{8}$	.1250	$\frac{5}{16}$	.3125	$\frac{1}{8}$	.1094	.359	.0215			
SR2	$\frac{1}{8}$	.1250	$\frac{3}{8}$	.3750	$\frac{3}{8}$	.1562			RS7SR2	RS77SR2	.1562
SR3D	$\frac{1}{8}$	.1875	$\frac{1}{2}$	.5000	$\frac{3}{8}$	.1562			RS7SR3D	RS77SR3D	.1960
SR4D	$\frac{1}{4}$	.2500	$\frac{5}{8}$	.6250	$\frac{3}{8}$	.1960			RS7SR4D	RS77SR4D	.1960
SR6	$\frac{3}{8}$	.3750	$\frac{7}{8}$	.8750	$\frac{3}{8}$	.2188			RS7SR6	RS77SR6	.2812

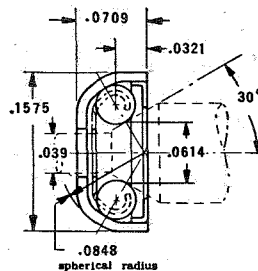
SYNCHRO BEARINGS											
Bearing Number	Bore B		Dia. D		Width W		Flange		Bearing Number One Shield	Bearing Number Two Shields	Ws Width Shielded
	Frac.	Dec.	Frac.	Dec.	Frac.	Dec.	F	G			
CSR3D	$\frac{3}{4}$	.1875	$\frac{1}{2}$	.5000	$\frac{3}{8}$	.1562			RS7CSR3D	RS77CSR3D	.1960
CSR4D	$\frac{1}{4}$	.2500	$\frac{5}{8}$	.6250	$\frac{3}{8}$	.1960			RS7CSR4D	RS77CSR4D	.1960
CSR6	$\frac{3}{8}$	.3750	$\frac{7}{8}$	.8750	$\frac{3}{8}$	.2188			RS7CSR6	RS77CSR6	.2812
CS35F	5 mm.	.1969	19 mm.	.7480	6 mm.	.2362			CSRS7035F	CSRS77035F	.2362
CS36F	6 mm.	.2362	19 mm.	.7480	6 mm.	.2362			CSRS7036F	CSRS77036F	.2362
CS37F	7 mm.	.2756	22 mm.	.8661	7 mm.	.2756			CSRS7037F	CSRS77037F	.2756
CS38F	8 mm.	.3150	22 mm.	.8661	7 mm.	.2756			CSRS7038F	CSRS77038F	.2756



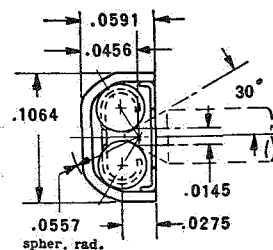
Pivot Bearing 0105A
5 — $\frac{5}{32}$ " balls
Cup only is 0105



Pivot Bearing 0104A
5 — $\frac{5}{32}$ " balls
Cup only is 0104

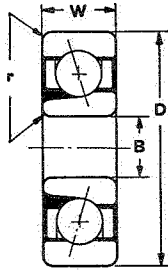


Pivot Bearing PF4
6 — 1 mm. balls



Pivot Bearing C270
3 — 1 mm. balls

INSTRUMENT BEARINGS—Cont'd

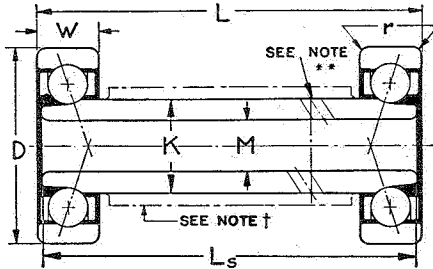


GYRO ROTOR BEARINGS

With one-piece, non-metallic separators for high speed applications. Inner rings are removable.

Bearing Number	O.R. & Ball Assembly	I.R. Number	Bore B		Dia. D		Width W	
			Frac.	Dec.	Frac.	Dec.	Frac.	Dec.
OR1½B***	OR1½BC	R1½B	5/32	.0937	5/16	.3125	7/8	.1094
OR2B	OR2BC	R2B	1/8	.1250	3/8	.3750	5/8	.1562
OR3B	OR3BC	R3B	3/8	.1875	1/2	.5000	5/8	.1562
OR4B	OR4BC	R4B	1/4	.2500	5/8	.6250	1.960	
ON34B**	ON34BC	N34B	4 mm.	.1575	3/8	.6250	5 mm.	.1969
Q34B	Q34BC	34B	4 mm.	.1575	16 mm.	.6299	5 mm.	.1969
Q34B5	Q34BC	34B-5	5 mm.	.1969	16 mm.	.6299	5 mm.	.1969
Q36B	Q36BC	36B	6 mm.	.2362	19 mm.	.7480	6 mm.	.2362
Q38B	Q38BC	38B	8 mm.	.3150	22 mm.	.8661	7 mm.	.2756
Q3200B	Q3200BC	3200B	10 mm.	.3937	30 mm.	1.1811	9 mm.	.3543
	QR3BEG*				1/2	.5000		.1960

*QR3BEG can be matched with either R3BE or R3BEG shafts. Has no I.R.
**Has 1.000 diam. flange, .065 thick, with 3—.109 holes spaced 120° on .812 circle.
***Has .144 width separator.

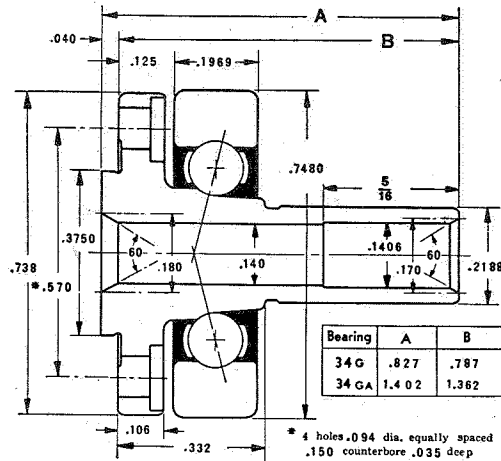


GYRO ROTOR SHAFT ASSEMBLIES

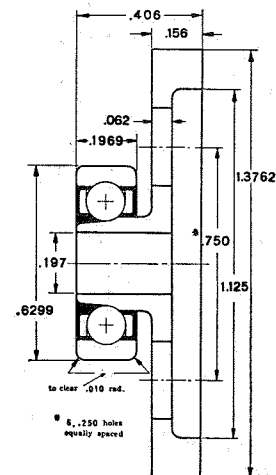
Bearing outer ring and separator-ball assemblies with removable shaft for high speed gyro rotor applications.

Shaft and Bearing Assembly No.	Outer Ring and Ball Assembly No.	Shaft No.	M	D		W		L	Ls	K†
				Frac.	Dec.	Frac.	Dec.			
OR2BE**	OR2BC	R2BE	1/4	3/8	.3750	5/8	.1562	1.625	1.625	.2032
OR3BD	OR3BC	R3BD	.141	1/2	.5000	1.562	1.688	1.688	1.688	.2760
OR3BE	OR3BEC	R3BE	.103	1/2	.5000	1.960	1.719	1.700	1.700	.2509
OR4BD	OR4BC	R4BD	.250	5/8	.6250	1.960	.947	.827	.827	.4375
Q34BD	Q34BC	34BD	.1575	16 mm.	.6299	5 mm.	.1969	1.192	1.192	.3003
Q36BD	Q36BC	36BD	.218	19 mm.	.7480	6 mm.	.2362	2.156	2.156	.3860
Q38BD	Q38BC	38BD	.297	22 mm.	.8661	7 mm.	.2756	1.560	1.410	.6250
QR3BEG	QR3BEC	R3BEG	.103	1/2	.5000	1.960	1.861	1.838	1.838	.2030

†"K" for QR4BD and Q38BD is larger than raceway shoulder diameter.
**QR2BE shaft has two .059 holes at angle of 35°, located 1.172 from end of shaft.



Gimbal Bearings 34G and 34GA
6 — 1/8" balls



Rotor Bearing No. Q34BA
6 — 1/8" balls



SPECIAL COMMERCIAL BEARINGS

These specials are only a part of the specials made by New Departure. The list is restricted to those numbers that are most generally available. For the current availability on these and any specials, please check with your supplier.

Group Description	Bearing Number	Basic Bearing	Specialty
Clutch Throwout	CT24A1	CT24A	CT24A with Pressed Sleeve
	CT24F	CT24E	Special Marking
	900545	CT34A	Machined Low Carbon I.R., Integral with Sleeve
Sprag Clutches	930522		One Way—Sprag Clutch—Double Cage Type .330 Sprag—.425 Long
	1166748		One-Way Sprag Clutch—Double Cage Type .330 Sprag—.675 Long
	1171059		One-Way Sprag Clutch—Double Cage Type .330 Sprag .425 Long
	1179222		Sprag Clutch, Double Cage Type
Inch Series	77R2E	77R2	77R2—No marking of any kind permitted
	SR2F	R2	Instrument Grade, 9—1MM Dia. Balls
	77R2R	R2A	With .387 O.D.
	R3A		Standard O.D. & Width .2031 Bore
	7R3K	7R3	Rings and Balls Stabilized for Operation at 375° F
	SSRS77NR3D	R3	Instrument Grade, SS, .1960 Width, .565 Flange O.D.
	SSRS77SR3DU	R3	Instrument Grade, with 5 3/32 Balls. Was SS77SR3DU
	R4J	R4	Stabilized for High Temperature
	R77R4E	77R4	.030 Relube Hole in Shield
	77R4G	77R4	77R4—No marking of any kind permitted
	77R4J	R4	Stabilized for High Temperature
	R6F	R6	Stabilized for High Temperature
	7R6A	7R6	.2188 in. Ring Widths, Ball Race Location .137 from Shield Side of Bearing
	77R6B		Keyway in One Inner Ring Face
	RS77SR6E	R6	Instrument Grade, 16 1/16 Dia. Balls
	R77R6	77R6	Relube Hole in Each Shield
	F12A	R12	R12 with Special Outer Ring. Full Ball Complement
	R16A	R16	With .5625 Width, Special Bore and O.D. Tolerances
	CSR17A		1.0625 Bore, 1.50000 O.D., .1875 Width Close Wound Spring Sep.
	77R18A		Unlapped Races 3L06 U Type Separator
	SSCSXR33		2 1/6 In. Bore x 2 5/8 In. O.D. x 9/32 In. Width of Cone. 1/4 In. Width of Cup
	XR76		4.75 x 6.499 x .875 Steel Sep.
	931014		O.R. Only, with Cylindrical, Honed Bore
931016	NR2	Flanged O.R. and Ball Assembly, Fixed Shields	
931031	R4B	Two O.R. and Ball Assemblies on 1.180 Long Shaft	
931157	R4	R4B, 1.00 O.D. Flange	
931274	R4	SSRS7R4D, Instrument Grade	
Adapter and Agricultural	88AG3/4		Agricultural Bearing
	88AG1/2		Agricultural Bearing
	Z99AB108C	3208	Standard. Cylindrical O.D. Use Cam Lock AE Type
	Z99AB111C	3209	Standard. Cylindrical O.D. Use Cam Lock AE Type
	Z99AB112C	3209	Standard. Cylindrical O.D. Use Cam Lock AE Type
	Z99AB114C	3210	Standard. Cylindrical O.D. Use Cam Lock AE Type
	Z99AB115C	3210	Standard. Cylindrical O.D. Use Cam Lock AE Type
	Z99AB201	3211	Standard. Use Cam Lock AE Type
	Z99AB202	3211	Standard. Use Cam Lock AE Type
	Z99AB203C	3211	Standard. Cylindrical O.D. Use Cam Lock AE Type
	Z99AB206	3212	Standard. Use Cam Lock AE Type
	Z99AC201		Double Sealed—Wide Cone—Set Screw Locking Type 2 1/16 In. Shaft—Spherical Outer Ring O.D.

SPECIAL COMMERCIAL BEARINGS—Continued

Group Description	Bearing Number	Basic Bearing	Specialty		
Textile Bearings	TP-3-500	TP-1-500	Double Shielded. Inside Shield has .646 in. Center Hole Treadle Roll Brg., 2.500 Overall Shaft Length, 2.313 O.D., 1.500 O.R. Width, .750 Dia. Lugs		
	TM16-505	TM15-505			
Propeller Stack Bearings	3-OP29BB	OP29BB	Three Bearings Per Stack Propeller Stack Bearing, Assembly. 145 MM Bore x 180 MM O.D. x 2.472 Overall Width		
	4-OP29BB				
Extra Small Radial	77034J	77034	57.3 Per Cent Race Curvature With .1875/.1873 Bore 7034 External Dimensions—7R4 Internal Dimensions 34 External Dimensions 77R4 Internal Dimensions With High Speed Steel Rings & Balls With .875 O.D. 7036 With Open Curvatures With 57 Per Cent Race Curvatures 2 5/16 Bore, 2 7/8 O.D., 1/4 In. Outer Ring Width, 9/32 Inner Ring Width U Type Separator. Ring Width Plus .000 to Minus .002. Designed for Roller Skates Special Inner and Outer Ring Curvatures of 57.3 Per Cent I.R. Width .588, O.R. Width .406, With Nylon Separator 6MM Bore Crow Type Seal Wide Inner & Outer Rings Special Snap Ring Groove With Coil Spring Type Sep. with 5 5/32 in. Balls Rings Stabilized for Operation at 400 Degrees F. WD38 Separator Special 8MM Width to Allow Shielding Without Seal Stabilized for High Temperature 57.3 Per Cent Race Curvatures Special 8MM Width to Allow Shielding Without Seal Without Seal I.R. Width .588 O.R. Width .406, with Nylon Separator Wide Inner & Outer Rings Special Single Row with Extended Cone Width. .4134 Cone Width .3543 Bore, .3150 Cup Width, 1.0236 O.D. Torque Tube Type Brg., 1.3125 x 1.7500 x .280, .250 O.R. Width, 7 HCC and 7 Aluminum Balls 1/8 Dia., Spring Separator. Instrument Grade 34B with 1.000 O.D. Flange		
	SS7034M	7034			
	7034U	7034			
	77034U				
	F36H	F36			
	G36	36			
	7036P	7036			
	77036P	77036			
	SSCSXR37D				
	7037D	7037			
	77037G	77037			
	R8037R	37			
	WC87037-6	WC87037			
	CWC87037-6	WC87037-6			
	QR88037H	88037			
	38E	38			
	S38	38			
	WD38G	WD38			
	Q7038M	Q7038			
	WC7038A	WC87038			
	77038AA	38			
	77038J	77038			
	Q77038M	Q77038			
	8038-E	8038			
	WC8038E	WC8038			
	R8038R	38			
	QR88038H	88038			
	39B				
	CS542A	542			
	931182	34			
	Special Steering Bearings	916			Steering Arm Bearing. Wide Double Row. 1.5312 O.D. .500 Bore, 2.000 In. Assembled Width. 13 1/4 in. Balls Per Row, No Sep. Double Sealed, Split Cone, 30 Degree Contact Angle
		924			Steering Knuckle Bearing. Single Row 1.7505 O.D. .7503 Bore, .609 Assembled Width. Sealed, Full Type with 15 1/4 In. Balls, Snap Assembled
928			Steering Knuckle Bearing. Single Row. 2.250 O.D. .875 Bore .750 Assembled Width. Over-hanging Shield Fastened on O.D. Full Type with 12 3/8 In. Dia. Balls, 60 Degree Contact Angle		
Extra Light	Q0L00A11	Q0L00	.4150 Bore Extra Light Series, Wide Inner and Outer Rings. Interchangeable with Norma Hoffman 6010P Rings Stabilized for Operation at 400 Degrees F Stabilized for Operation at 400 Degrees F. Sep. Saddle Pcs. Grade A Phosphor Bronze		
	WC873L00A				
	WD3L00C	WD3L00			
	WD3L00CA	3L00			

New Departure
DIMENSION DATA



SPECIAL COMMERCIAL BEARINGS—Continued

Group Description	Bearing Number	Basic Bearing	Specialty
Extra Light	WD3L00D	3L00	Phosphor Bronze WD Type Separator. Stabilized for High Temperature Operation
	Q0L01B	0L01	Precision Spindle Brg., B Type Inner Ring
	3L01C	3L01	Special Marking
	WD3L01B	3L01	WD3L01 Having Rings and Balls Stabilized for 400 Degree F., Operation
	R773L01	773L01	Two Relube Type Shields
	Q0L02B	0L02	Precision Spindle Brg., B Type Inner Ring
	J70L02A	73L02	Full Type, Stellite No. 19 Rings and Balls, SS Shield. Was J770L02A
	3L02F	3L02	With Cross Corner Control, Special Marking
	V3L02C	3L02	Special Cross Corner Dimensional Requirement—Iron Silicon Bronze Inner Ring Controlled Separator
	773L02D	773L02	Full Ball Complement—Stellite No. 19 Rings, Balls Stainless Steel Shields
	WC873L02A		Extra Light Series, Wide Inner & Outer Rings. Interchangeable with Norma Hoffman 6015 P
	0L03A		Rings & Balls Only
	Q0L03B	0L03	Precision Spindle Brg., B Type Inner Ring
	3L03B		Special Ring & Assembled Width .3837 to .3857
	Q0L04A	Q0L04	Type D Corners
	Q0L04B	0L04	Precision Spindle Brg., B Type Inner Ring
	3L04D	3L04	Special Ring & Assembled Width .4644—.4624
	3L04E	3L04	9MM Width
	3L04F	3L04	Ring Widths—.008 to—.010
	3L04H	3L04	With Cross Corner Control, Special Marking
	Q3L04C	3L04	.462 Cone Width
	WD3L04G	3L04	4 pc. WD Type Sep., High Temperature Stabilization
	0L05A	0L05	Rings and Balls Only
	Q0L05B	0L05	Precision Spindle Bearing 0L05 Basic Size B Type Inner Ring
	Q0L05CDT	Q0L05	Keyway on Each Face of I.R. and O.R.
	3L05C	3L05	Special Marking
	Q0L06B	0L06	Precision Spindle Bearing, B Type Inner Ring
	Q0L06CDT	Q0L06	Keyway on Each Face of I.R. and O.R.
	3L06D	3L06	Stabilized for High Temperature
	3L06E	3L06	Special Marking
	V3L06C	3L06	Iron Silicon Bronze Inner Ring Controlled Separator
	0L07A	0L07	Bearing Rings and Balls Only
	3L07B		Silver Plated Iron-Silicon Bronze Separator Stabilized for High Temperature Operation
3L07D	3L07	Special Marking	
V3L08B	3L08	Special Cross Corner Dimensional Requirement—Iron Silicon Bronze Inner Ring Controlled Separator	
3L08F	3L08	Special Marking	
Q0L09ADF	Q0L09	I.R. Omitted, 2.235 I.D.	
Q0L10BDT	Q0L10	Duplex Angular Contact Bearing—Slots Ground at High Points of Race Ring Eccentricity. ABEC-7 Only	
F0L10B	F0L10	Full Ball Complement, Special O.D., Propeller Stack Preload	
0L11B	0L11	Full Ball Type. Duplex DT Mounting Stabilized for Operating Temperature of 300 Degree F	
Q0L14ADT	Q0L14	Duplex Angular Contact Bearing. Slots at High Points of Eccentricity. ABEC-7 Only	
Q0L14BDT	Q0L14	Duplex Angular Contact Bearing—Slots Ground at High Points of Race Ring Eccentricity. ABEC-7 Only	
QH0L15ADT	QH0L15	Duplex Angular Contact Bearing. Slots Ground at High Points of Eccentricity. ABEC-7 Only	
3L16B		Special Ring & Assembled Width .8581 x .8561	

SPECIAL COMMERCIAL BEARINGS—Continued

Group Description	Bearing Number	Basic Bearing	Specialty
Extra Light	Q3L16B		Special Ring and Assembled Width Special Internal Fitup
	Q3L16C	Q3L16	.8581 Width, Cross Corner Control
	Q0L17ADT	Q0L17	Duplex Angular Contact Bearing. Slots Ground at High Point of Eccentricity. ABEC-7 Only
	Q0L17DB	0L17	Keyway, .93 Deep x .312 Wide, Across Each Face of I.R. and O.R.
	Q0L17BDT	0L17	Keyways .93 Deep by .312 Width Across Both Faces of Outer and Inner Rings
	QH0L17ADT	QH0L17DT	High Points of Eccentricity Marked With Slots 3/32 x 3/16 on Both Sides of Brg., and on Both Rings. ABEC-7 Only
	3L17A	3L17	Stabilized for High Temperature
	HN0L20	H0L20	With Flanged Outer Ring
	3L20A	3L20	Narrow Cup .7874 Wide
	773L21A	773L21	Two Oil Holes in Outer Ring
	Q3L22-UA		4.3750 Bore, 6.7987 O.D., 1.0000 Width
	Q0L24ADT	Q0L24	Duplex Angular Contact Bearing. Slots at High Points of Eccentricity. ABEC-7 Only
	Q0L24BDT	Q0L24	Duplex Angular Contact Bearing—Slots Ground at High Points of Race Ring Eccentricity. ABEC-7 Only
	3L24A	3L24	Cup 23MM Wide
	Q0L28A137		5.3761 x 8.4998 x 1.4961
	Q0L28CDT		Duplex Angular Contact Bearing. Slots Ground at High Point of Eccentricity. ABEC-7 Only
	QH0L28BDT	QH0L28DT	High Points of Eccentricity Marked with Slots 1/8 x 1/4 on Both Inner and Outer Rings on Both Sides. ABEC-7 Only
	QH0L28CDT	QH0L28	Duplex Angular Contact Bearing—Slots Ground at High Points of Race Ring Eccentricity. ABEC-7 Only
	QN0L28A137	Q0L28A137	With Flange
	3L28A	3L28	Narrow Cup 1.1024 Wide
3L30A	3L30	Narrow Cup 1.1811 Wide	
Difrax	0108A	0108	No Contact Angle, Overall Width .7087—.003 Plus .000 Endplay .0065—.0100, O.R. Shoulder Height 18 Per Cent, Ball Race Location .3611
Single Row Radial Light	3200F	3200	Stabilized for High Temperature
	SP3200	3200	64 Per Cent Race Curvatures .010 to .015 E.P. Sperry Brg.
	WC3200	WC8500	No Seal
	7500C	47500	With U Type Separator, Special Tolerances, Unlapped Ball Races
	77500E	77500	With Special Crowned O.D.
	C8500A	8500	29MM O.D. Rings Flush on Open Side
	CE8500	8500	Special N.D. Seal Bearing C8500 with 29MM O.D.
	88500K	88500	Anti Rotating Key on Seal
	CWC88500A	CWC88500	With .6457 O.R. Width O.R. & I.R. Flush on Both Sides
	99500E	99500	Special Bore .4365
	3201A13	3201	1/2 In. Bore
	WD3201E	WD3201	Special 53 Per Cent Cup Curvatures
	7501C	7501	9/32 in. Slot Across Cup Face
	88501A11	88011	.4377 Bore
	Z99501K	Z99501	Special Seal Bore
	3202BB	3202	.6253 Bore
	3202C16	3202	.6253 Bore, 1.3748 O.D.
	WD3202P		Single Row Bearing Four-Piece WD Type Separator 53 Per Cent Outer Race Curvatures Stabilized for Operation at 350 Degree F
	7502-16	7502	16MM Bore
	7502B16	7502	16MM Bore, 38MM O.D.

**New Departure
DIMENSION DATA**



SPECIAL COMMERCIAL BEARINGS—Continued

Group Description	Bearing Number	Basic Bearing	Specialty
Single Row Radial Light	7502RU	7502	Special Shield Stamping
	77502RU	77502	Special Shield Stamping
	77502Q	77502	Single Row Double Shield Bearing with Crowned O.D.
	77502-16	77502	16MM BORE
	99502AB	99502	.50 GROUND BORE PLASTIC SEAL
	499502AB	99502AB	
	Z99502AC	99502	.625 GROUND BORE Z SEAL
	Z499502AC	Z99502AC	
	99502J	99502	.5625 GROUND BORE PLASTIC SEAL
	99502H	99502	.625 GROUND BORE PLASTIC SEAL
	WC87502G	WC87502	Garlock Seal
	WC88502B	WC88502	5/8 In. Width—Replaces Norma XB-72
	49502H	9502	Molded Nylon Seals .6250 Bore x 1.3750 O.D. x .4331 Width—Snap Ring Groove—7109 U Type Separator
	49502J	9502	Molded Nylon Seal .5625 Bore x 1.3750 O.D. x .4331 Width—Snap Ring Groove—7109 U Type Separator
	499502H	99502	Molded Nylon Seals .6250 Bore x 1.3750 O.D. x .4331 Width—Snap Ring Groove—7109 U Type Separator
	499502J	499502	With .5625 Bore, U Type Separator, Special Tolerances, Zytel Seals
	99502-16	99502	With 16 MM .6299 Bore
	Z99502R	88502	With Hycar PA21 Z Seals
	3203DG	3203	18 Per Cent Cup, 22.5 Per Cent Cone Race Shoulders 53 Per Cent Cup and 51.6 Per Cent Cone Race Curvatures .6693 Bore, 1.5748 O.D. .4724 Width
	Q3203H	3203	Nonmetallic Sep. Assembled with Tubular Brass Rivets
	V3203C	3203	Iron Silicon Bronze Inner Ring Controlled Separator
	WD3203E	3203	Stabilized for High Temperature. Two Piece WD Type, Phosphor Bronze Separator
	43203DG	43203	Deep Groove
	77503A17	77503	.6884 x .6880 Bore Y Grade
	RWC8503H		Special Curvatures
	88503C	88503	U Type Sep.—Unlapped Raceways
	Z99503B	Z99503	Single Row Double Seal Brg. With Double Row Width. Hycar PA21 Z Seals
	Z99503J	Z99503	Deep Grooves and 51 Per Cent/50.6 Per Cent Curvature. 2-Z Type Seals-Hycar
	Z99503U	Z99503	.628 Bore, .505 Width, U Type Separator, 18 Per Cent Shoulders
	Z99803	Z99503	.6875 Double Row Width—Sentry-Type Molded Seals 203 Cartridge Bearing
3204AB	3204	Special 3204 Stabilized for High Temperature Operation	
3204E	3204	35 Degree Corner Radii on Cone Bore	
3204R	3204	S-Monel Separator, Silver Plated, Radius Blended on O.D.	
Q3204H	3204	Non-Metallic Separators Assembled with Tubular Brass Rivets	
V3204AA	3204	Iron Silicon Bronze Inner Ring Controlled Separator	
V3204Q	3204	Iron Silicon Bronze Outer Ring	
WD3204AC		WD Outer Ring Controlled Separator Stabilized for High Temperature Operation	
WD3204P	3204	4 Pc. Sep.—High Temp. Stabilization	
7504C22	7504	.8553 Bore	
8504A19	8504	8504 Having .7500 Inner Ring Bore	
WC8504B	WC8504	52MM O.D. .610 Cup and .600 Cone Width Cone Underhangs Cup .025 on Open Side. Bearing Width .625	
87504A16	87504	.629 Bore, Wide Inner Ring. Special Seal and Close Curvatures. 1.8504 O.D., .5512 Width of Cup, 1.125 Width of Cone	
87504G2	87504	Two Garlock Seals	
Z99504R	88504	88504 With Hycar PA21 Z Seals	
V3205H	3205	With I.R. Controlled Iron—Silicon Bronze Separator	

SPECIAL COMMERCIAL BEARINGS—Continued

Group Description	Bearing Number	Basic Bearing	Specialty
Single Row Radial Light	V3205J	3205	Rings & Balls Stabilized for High Temp. Operation, Inner Ring Controlled Iron—Silicon-Bronze Sep.
	V3205P	3205	Iron Silicon Bronze Inner Ring Controlled Separator
	WD3205K	3205	Four-Piece WD Type Separator. Stabilized for Operation at 400 Degrees F
	7505A32		1¼ In. x 2 In. x ¾ In., 12 3/16 In. Balls .003 to .5 End-play Under 5½ Lbs. U Type Sep.
	7505B30		1.1811 In. x 2.000 In. x .375-51.6 Per Cent Cup Curvatures
	77505C25	77505	.9964 Bore and 2.0150 O.D.
	C8505R	C8505	Stabilized for High Temperature
	87505B25	87505	.9964 Bore and 2.0150 O.D.
	C87505B25	C87505	With .9964 Bore and 2.0150 O.D.
	487505B25	87505B25	.9964 Bore x 2.015 O.D. .625 Width & Snap Rings
	97505C25	97505	Shield and Seal, 9000 Type, .9964 Bore x 2.150 O.D. x .5906 Wide
	99505C25	99505	.9964 Bore x 2.150 O.D. x .5906 Wide
	99505Q	99505	Stabilized Rings for Minus 94 Degrees F to Plus 265 Degrees F Operation
	Z99505R	Z99505	Stabilized for High Temperature, Hycar Seals
	Z99805A		Single Row Ball, Double Row Width 205 Cartridge Bearing
	Q3206C	3206	51.6 Per Cent Cup Curvatures
	V3206D	3206	Special Cross Corner Dimensional Requirement—Iron Silicon Bronze Inner Ring Controlled Separator
	V3206E	3206	Iron Silicon Bronze Inner Ring Controlled Separator
	77506F	77506	Shields Stamped Bendix Home Appliances
	88506A30	88506	1.1875 Bore
	XD88506A	88506	Propeller Shaft Fit Up Type Seal. 50.6 Per Cent O.R. & I.R. Ball Race Curvature
	XD88506C29	XD88506	1.125 Bore
	99506A	99506	99506 With Stabilized Rings for Minus 94 Degrees F to Plus 265 Degrees F Operation
	Z99506J	Z99506	Stabilized for High Temperature
	3207D	3207	.6593 Width, to .6613 With Endplay Taken Up Under 15 lbs. Spec. Stamping on Cone
	3207E	3207	1.3726—1.3721 Inner Ring Bore
	3207J	3207	Stabilized for High Temperature
	3207R	3207	Special Marking
	43207C	43207	Special Snap Ring 3 1/64 In.
	V3207F	3207	3207 With Iron Silicon Bronze Separator Outer Ring Controlled Pratt & Whitney Aircraft Div.
	8507D	8507	8507 With 1.4375 Inner Ring Bore
	C8507B33	8507	1.3130 x 2.8346 x 1.036 Cup W. .669 In., Flush on Open Side
Z99507H	Z99507	Low Carbon O.R. With Special Humped Contour for Chain Idler Sprocket	
V3208F	3208	Special Cross Corner Dimensional Requirement—Iron Silicon Bronze Inner Ring Controlled Separator	
47508-7	47508	35MM Bore	
47508C38		With 1.4860 Bore	
7508RU	7508	Special Shield Stamping	
1209A45	1209	.678 In. Width Cone. Flush on L.G. Side .02 Cone Radius on Underhung Side	
Q3209C	Q3209	.125 Wide x .062 Deep Slot in Face of O.R. Instrument Grade Balls	
47509A45	47509	Cone .678 Wide, Special Snap Ring 3 7/16 In.	
XD88509D	XD88509	Special Marking	
3210B	3210	With 1.9375 I.R. Width	
3210D	3210	.7794—.7774 Ring Width, .7794—.7774 Cross Corner Dimension Under Load	

New Departure
DIMENSION DATA



SPECIAL COMMERCIAL BEARINGS—Continued

Group Description	Bearing Number	Basic Bearing	Specialty
Single Row Radial Light	V3210D	3210	Special Cross Corner Dimensional Requirement—Iron Silicon Bronze Inner Ring Controlled Separator
	43210D	43210	Sides of Snap Ring Groove Ground, Endplay of Snap Ring in Groove .004 Max.
	47510B	47510	Special Snap Ring
	88510-8	88510	40MM Bore
	77512D	77512	Stabilized for High Temperature
	WC8512A	WC8512	Single Felt Seal, Inner Ring Chrome Plated, with O.D. Chamfer Blended on Seal Side. O.R. has C Bore for Seal
	WC8512AB	WC8512A	.7283 Ball Race Location
	Q3213D	3213	Cone Controlled Sep. E.P. .0085 to .0113
	V3213D	3213	Iron Silicon Bronze Separator Silver and Lead Indium Plated
	77515A	77515	Stabilized for High Temperature
	V3216U	3216	Bore 3.1496 O.D. 5.5118 W 1.0236 Split Cone Maximum Type, Endplay .015—.021 Under 22 Lbs. Bronze Sep.
	V3216UA	V3216U	With Balls Retained in Separator By Four Point Segmental Staking and Having Altered Curvatures and Fitup
	1217-75	1217	15 Bore <i>75 MM BORE</i>
	77517B	77517	Stabilized for Operation at High Temperature
	1219-85	1219	17 Bore <i>85 MM BORE</i>
	1222-100	1222	20 Bore <i>100 MM BORE</i>
	Single Row Radial Medium	43304A	43304	Elliptical Cone Race
V3304B		3304	Iron Silicon Bronze Inner Ring Controlled Separator
3305A25		3305	1 In. x 2 1/2 In. x 3/4 In. Replaces SKF RMS8 or Norma MS10
43305C		43305	Special Snap Ring Shipped in Box with Bearing
V3305D		3305	Iron Silicon Bronze Outer Ring Controlled Separator. High Temperature Stabilization
V3305E		3305	Rings & Balls of Vacuum Melted Halmo Steel. O.R. Controlled Iron Silicon Bronze Separator
V3305G		3305	Special Cross Corner Dimensional Requirement—Iron Silicon Bronze Inner Ring Controlled Separator
V3305H		3305	Rings and Balls Stabilized for 400 Degrees F Operation. Cast Bronze Inner Ring Controlled Sep.
77605H		77605	Stabilized for High Temperature
8605K		8605	Special Marking
99605F		99605	Stabilized for Operation Between—Minus 70 Degrees & 130 Degrees C. Standard 99605 Seals
99605J		99605	Thick Section O.R. with Special Corner Radii, 3.000 O.D., 1.000 Width
V3306C		3306	Special Cross Corner Dimensional Requirement—Iron Silicon Bronze Inner Ring Controlled Separator
3307E		3307	Special Ring & Assembled Width .8188—.8168
3307F		3307	Special Marking
99607B		99607	With 4.00 O.D., 1.1875 O.R. Width
77608F		77608	Stabilized for High Temperature
99608E		99608	3.530 O.D. with Humped Section on O.R. to 4.055 O.D. and .570 Width
7310A		7310	Shield on Loading Groove Side
7310B-51		7310	2.0040 I.R. Bore
Z99910	Z99610	Cartridge Bearing	
N1311A	1311	Flanged Cup, 5 3/32 In. O.D., .265 Width of Flange	
3311A	3311	Special Bore Corner Radii .125 Tool Radius .080—.090 Finish Breakout	
77611B	77611	Stabilized for High Temperature	
77614A	77614	Stabilized for High Temperature	
3318A	3318	3.5277 Bore	

SPECIAL COMMERCIAL BEARINGS—Continued

Group Description	Bearing Number	Basic Bearing	Specialty
Single Row Radial Heavy	Q3403A	3403	5½ In. Balls, Screw Assembled Sep. Low Shoulders .015—.04 Cone Bore Corner Breaks
	3404A	3404	
Single Row Misc.	42305	77605	1/16 In. Hole in Cone
	42306	77606	75MM Crowned O.D.
	1100	1310	45MM Bore
	1101		2.1654 x 4.5276 In. x 1.0630 In. 13 23/32 In. Balls, .08 Corners, 16 Per Cent Cup 19 Per Cent Cone Shoulders
	1102	1308	1½ In. Bore
	1105	1208	21MM Width .06 Corner Radius
	1106	1207	19MM Width
	1107	1311	2 In. Bore
	1109	1309	40MM Bore .08 Corner Radius
	3102	3202	1.3780 O.D., .4331 Width, .6248 x .6244 Bore
	3107	38	.3126 Bore
	3109	39	¾ In. Bore
	3112H		1.1811 x 1.8750 x .2187, 10 5/32 In. Balls, 16 Per Cent Shoulders, Hardened
	3115		2¾ In. x 3¾ In. x 11/16 In., 16 11/32 In. Balls, Extra Light Inch Series XLS2¾
	3LL03C	3LL03	3LL03 With Dural 2 Piece Riveted Separator
	V3LL02	3LL02	With Two Piece I.R. Controlled Bronze Separator
	V3LL02A	3LL02	Special Cross Corner Dimensional Requirement—Iron Silicon Bronze Inner Ring Controlled Separator
	V3LL03	3LL03	With Two Piece I.R. Controlled Bronze Separator
	V3LL03B	3LL03	Iron Silicon Bronze Inner Ring Controlled Separator
	V3LL04A	3LL04	Special Cross Corner Dimensional Requirement—Iron Silicon Bronze Inner Ring Controlled Separator
	V3LL05A	3LL05	Iron Silicon Bronze Inner Ring Controlled Separator
	V3LL05B	3LL05	Special Cross Corner Dimensional Requirement—Iron Silicon Bronze Inner Ring Controlled Separator
	V3LL08A	3LL08	Special Cross Corner Dimensional Requirement—Iron Silicon Bronze Inner Ring Controlled Separator
	Q3LL09A	3LL09	Separable I.R. and One Piece, Oil Impregnated, O.R. Controlled, N.M. Separator
	Q3LL11A	3LL11	Separable I.R. and One Piece, Oil Impregnated, O.R. Controlled, N.M. Separator
	V3LL12A	3LL12	Special Cross Corner Dimensional Requirement—Iron Silicon Bronze Inner Ring Controlled Separator
	V3LL22A	3LL22	With Puller Groove, Stabilized for High Temperature
3LL34M		Silver Plated Sep. 170 MM Bore, 230 MM O.D. 28 MM Width	
42108	43205	20 Per Cent Cone, 16 Per Cent Cup Shoulders, 51.6 Per Cent Curvatures, Cone .5886 Inches Width, .664 Inches Width Overhung on Snap Ring Side	
4508C	3208	1 11/16 In. Wide Inner Ring Having a Special Bore for 1½ In. Square Shafting, 3¼ In. Spherical O.D., 1¼ In. Width of Cup	
4510A	3210	1¼ Wide Inner Ring 1.9685 Bore, 3.5433 O.D., .7874. Width of Cup.	
47109BV	7502	7109B With Snap Ring on Shield Side. Replaces Size 47109V.	
50865		S.R. Bearing, Full Ball Type, 5.500 x 6.500 x .500	
51595		S.R. Bearing, Full Ball Type, 6.0937 x 7.1250 x .500	
52122		Cam Bearing, Full Ball Type, 7.1875 x 8.5000 x .5625	
52123		Full Type Single Row Cam Ball Bearing—Front Hydramatic Propeller Installation	
7107B		.1971 x .5779 x .2362, 60 Per Cent Cup Curvature. 56 Per Cent Cone Curvature	
7108	7501	13 MM Bore	
7109	7502	9MM Width .5906 Bore U Type Sep. .0025—.050 Endplay	



SPECIAL COMMERCIAL BEARINGS—Continued

Group Description	Bearing Number	Basic Bearing	Specialty
Single Row Misc.	7109B	7109	Width Tolerance Plus .000—.006, Bore Tolerance Plus .000. .0006 Unground Ball Races
	7109AD	7109	Staked in Adapter Ring
	7109A16	7502	5/8 In. Bore, 9MM W. Not Lapped .003 to .0045 End-play
	7110	7501	1/2 In. Bore
	7111	7036	1/4 In. Bore Plus .0001 to Minus .0001
	7119		1.0236 O.D. .4063 Bore. .3150 O.R. I.R. Widths. 7 3/16 Balls With L Type Sep. Single No. 7039 Shield U Type Sep.
	7120A	7120	
	77107	77034	6MM Width, Two Point Contact Cone Curvature. Cup & Shields Stainless Steel
	77108	77501	13MM Bore
	77110	77501	With .500 Bore
	77111	77036	1/4 In. Bore
	77120A	77502	Bore .6248—.6244 U Type Sep.
	8115	8502	.6245 Bore
	8118	8008	Slinger Seal Nonmetallic Sep.
	87115	87502	.6245 Bore
	900537	3204	.753 x 2.472 x 1.053, .700 O.R. Width. Land Riding Seal and Slinger. I.R. Extended on Seal Side. See Page 23
	900539	3204	.753 x 2.472 x .700, Slinger and Seal. See Page 23
	900541		6.0940 x 7.1257 x .505, .432 O.R. Width
	900600		Soft Races, I.R. Being A Distributor Breaker Plate
	900623		3.2676 x 4.2676 x .760, .340 O.R. Width. Snap On O.R. Puller Groove On I.R.
904345		4.5000 x 5.3750 x .437 Full Ball Type	
Irregularly Numbered ND Seals	8006A	8006	9MM Width Replace Norma GS-96
	C8008B10		3/8 In. Bore 7/8 In. O.D. Garlock Slinger
	R8008B10		.3752 x .8749 In. x .406, 56 Per Cent Cup and 54 Per Cent Cone Curvature
	WC8008C	WC8008	No Seal—Brass Sep.
	WC-87008B	WC87008	I.R. Extended on Shielded Side So I.R. O.R. Are Flush. I.R. Not Notched on Seal Side. Seal B PC. Altered
	ZWC99009		WC88009 With Removable Molded Senti Type Seals
	ZWC99009A	WC88009	Two Z Seals With Insert Loops Left On
	RWC8013B	RWC8013	Felt Slinger—Relube Type
C88016B	C88016	Stabilized for High Temperature	
Double Row Specials	5104	5214	1 7/16 In. Width, 20 Degree Contact Angle
	5113	5206	28MM Bore, .020 In. I.R. Corner Radius
	5129	5201	With Full Ball Complement of 11-.235 Balls Per Row No Sep.—Two Loading Grooves 180 Degrees Apart on Both I.R. & O.R.
	900501	954921	Special D.R. Brg., Non-Loading Groove Type, Compressor Wobble Plate, 2.3672 O.D.
	900502	954921	Special D.R. Brg., Non-Loading Groove Type, Compressor Wobble Plate, 2.3722 O.D.
	954921		Special D.R. Bearing, Non-Loading Groove Type, Compressor Wobble Plate. Replaces Size 900500
	2600418		D.R. Brg., .8503 x 2.297 x 1.375, 2 Piece Angular Contact I.R., Flanged Sheave O.R., 2.625 Flanged O.D.
	Double Row—Light	Z995202A	5202	With .7188 Width & Double Removable Senti-Seals
Z995202B		Z995202A	Sealed Bearing Z995202A Having .6470 Inner Ring Bore
5204A		5204	Groove in Outer Ring O.D.
R55504		55504	Double Shielded-Relube Type

SPECIAL COMMERCIAL BEARINGS—Continued

Group Description	Bearing Number	Basic Bearing	Specialty
Double Row—Light	45214WA	45214	15 Degree Contact on One Row, 35 Degree Contact on the Other
	N5220E	5220	.0005 to Plus .0003 Endplay With Flange. Contact Angles are 32 Degrees & 12 Degrees on Flange & L.G. Sides Respectively
Double Row—Medium	5308-7	5308	35MM Bore
	H5310A	5310	Cone Projects $\frac{1}{8}$ In. on Nonloading Groove Side
Double Row Misc.	E206		New Type 5000 Series Construction $\frac{3}{4}$ In. Width
	E207		New Type 5000 Series Construction $\frac{7}{8}$ In. Width
	E208		New Type 5000 Series Construction 1 In. Width
Angular Contact Type 20000	20200-9	20200	9MM Bore
	H2020BDF	H20202	O.R., Balls and Separator Only, DF Mounted
	Q20202C	20202	8 Ball Sep.
	20202DDT	20202	Special Width Tolerance
	20202E	20202	With 3202 Ribbon Type Sep. With 9-.210 In. Balls. .354 In. Bearing Width. Offset Ball Race With 15 Degree Contact Angle. Snap on Race Breakout on I.R. O.R. Recessed on Side Opposite I.R. Race Breakout
	20204C	20204	Special Width of Pair 1.1024—1.0984
	QF720304	20304	Shield and Nonmetallic Sep. Single Row Endplay
	Q20205BDT	Q20205	Separable I.R.
	QF20205		Std. Single Row Endplay Nonmetallic Sep.
	QF20305	20305	Single Row E.P. Nonmetallic Sep.
	F20406	20406	Single Row E.P.
	V20208ADT	20208	20208 Having Special Width Tolerances With Iron Silicon Bronze Inner Ring Controlled Separator
	F20308	20308	Single Row Endplay
	H420209B	20209	Snap Ring Wide Cone 25 Degrees Contact Angle
	QF20209A	20209	Corner Radii Ground. Endplay .005—.0075 Nonmetallic Sep.
	H420310B	H420310	Wide Cone 1.2205 In.
	Q20211A	Q20211	.542 O.R. Width, Special I.R. With Extended Portion, Special Bore Contour
	V20212ADT	20212	With 2.3622 Bore, Stabilized For High Temperature
	Q20212B	20212	Broad Cone Nonmetallic Sep.
	Q20213ADT	20213	Special Marking For Heald Mach. Special Tolerances Nonmetallic Sep.
V20213C	20213	With .611 O.R. Width, Special I.R. With Extended Portion, Special Bore Contour	
H20315A	H20315	Angular Contact Type Bearing—Duplex Mounting Plus H20315 Special Ring Width Tolerances	
VE20216	20216	Wide Cone Key Slot in Cone	
Angular Contact Type 30000	30205A	30205	Special Corner Radii & Special Stamping
	E30209A	E30209	Balls Retained By Snap Ring
	E30210A	E30210	Balls Retained By Snap Ring
	E30213A	E30213	Balls Retained By Snap Ring
Angular Contact Miscellaneous	H0203	203	60 Degree Contact Angle, Brass Retainer
Rear Wheel Type	RW507K	RW507	RW507E With Special Stamping
	RW507P	RW507	Same as RW507E, Except for Z Seals
	RW508E	RW508	RW508D With Special Stamping
	RW508F	RW508D	Special Marking
	RW509C	RW509	Rear Wheel Bearing—1.6250 Bore, 3.2677 O.D., 1.0630 Overall Width, One Senti-Seal
	RW509D	RW509	RW509A With O Ring and Special Stamping
	RW509E	RW509	Special Marking



SPECIAL COMMERCIAL BEARINGS—Continued

Group Description	Bearing Number	Basic Bearing	Specialty
Rear Wheel Type	88100	88502	With .8125 I.R. Width, I.R. Extends Both Sides of O.R., .6263 Bore, Notch Diametrically Thru I.R. Face on Longer Side
	C88100	C88502	.6263 Bore, .8125 In. Width Cone, .172 Deep, 3/16 In. Wide Key Slot
	88106		88505 O.R. With 51 Per Cent BR Curv. 1.625 Wide I.R. With 3/8 In. Tapped Hole In I.R. Extension. .817 In. Bore. No. 3205 Rivet Type Sep. With 9 5/16 In. Balls. Std. 8505 Seals With Altered B Piece
	88121	88507	With 1.3765 In. Bore
	88123	88505	With 1.00 In. Bore
Steering Gear Parts	5666683		O.R.—Ball Nut Type Steering Gear Worm
	5666693		Ball & Sep. Assembly—Ball Nut Type Steering Gear Worm
	5670371		Front Wheel Type O.R. for Steering Gear Worm
	5670378		Front Wheel Type Separator and Ball Assembly for Steering Gear Worm
Fan & Pump Shaft Bearings	885104	885100	5.188 Overall Shaft Length, 2.281 On Long End
	885106A	885100	4.170 Overall Shaft Length, 2.480 On Long End
	885107	885100	4.312 Overall Shaft Length, 2.203 On Long End. Flat at Long End of Shaft
	885112	885100	3.812 Overall Shaft Length, 1.359 on Long End. Flat at Short End of Shaft
	885119	885100	5.969 Overall Shaft Length, 3.500 On Long End. Flat at Short End of Shaft. Long End Has Key Slot and Two Grooves
	885125	885140	6.062 Overall Shaft Length, 3.188 On Long End. Brass Slinger on Long End
	885129D	885100	3.594 Overall Shaft Length, 1.281 On Long End, With 7/16 20 Thread. Grooves On Both Ends, Shaft Ends Soft
	885130	885100	3.921 Overall Shaft Length, 1.375 On Long End, .4989 Dia., 3/8-24 Thread, Short End .4995 Dia. With Flat
	885131	885100	6.953 Overall Shaft Length, 2.687 On Long End, Tapered Flat 1.250 From End, 21/32-11 Thread. .189 x 1.625 Keyway On Short End
	885132	885100	5.594 Overall Shaft Length, 2.297 On Long End With 21/32-11 Non-Std. Thread, 2 1/8 Long, .103 Deep x .193 Wide x 1.187 Long Keyway On Stamped End
	885133	885140	4.500 Overall Shaft Length, 1.167 On Long End
	885134	885140	5.050 Overall Shaft Length, 2.270 On Long End. 5120 Steel. Hollow With Internal Threads On One End
	885135	885100	4.700 Overall Shaft Length, 1.890 On Long End. Brass Slinger On Long End
	885136	885100	6.180 Overall Shaft Length, 2.420 On Long End. Brass Slinger On Short End
	885137	885140	4.672 Overall Shaft Length, 2.000 On Long End, 3/8-24 Thread and Undercut to .315 Dia. On Long End. Shaft Undercut to .485 Both Sides Adjacent to O.R. Flat On Short End. Cadmium Plate Shaft Except Ball Races
	885140B	885140	4.063 Overall Shaft Length, 1.609 On Long End. With Slinger Groove
	885140S	885140	4.062 Overall Shaft Length, 1.609 On Long End. Slinger
	885141A	885141	5.031 Overall Shaft Length, 2.484 On Long End. Transverse Holes Thru Both Shafts. Has Slinger Groove
	885141B	885141	5.031 Overall Shaft Length, 2.484 On Long End. Transverse Hole Thru Shaft. Has Slinger Groove

SPECIAL COMMERCIAL BEARINGS—Continued

Group Description	Bearing Number	Basic Bearing	Specialty
Fan & Pump Shaft Bearings	885141CS	885141	5.031 Overall Shaft Length, 2.484 On Long End. Slinger
	885141DS	885141	5.031 Overall Shaft Length, 2.484 On Long End. Slinger. Transverse Hole Thru Shaft
	885141E	885141	5.031 Overall Shaft Length, 2.484 On Long End. Transverse Hole Thru Shaft
	885141F	885141	5.031 Overall Shaft Length, 2.484 On Long End. Long Shaft End Soft For 1¼ In.
	885141H	885140	5.031 Overall Shaft Length, 2.284 On Long End. Shaft Ends Soft. Groove To .591 Dia. On Long End, .250 From End of O.R.
	885142	885100	5.000 Overall Shaft Length, 2.062 On Long End. Transverse Hole Thru Shaft. Has Slinger Groove
	885144A	885144	5.625 Overall Shaft Length, 2.516 On Long End. Transverse Holes Thru Both Shafts. Both Shaft Ends Left Soft. Woodruff Key Slot In Long End
	885144S	885144	5.625 Overall Shaft Length, 2.516 On Long End. Slinger
	885145	885100	3.906 Overall Shaft Length, 1.250 On Long End. Transverse Holes Thru Both Shaft
	885145A	885145	3.906 Overall Shaft Length, 1.250 On Long End. Transverse Holes Thru Both Shafts
	885146B	885140	4.516 Overall Shaft Length, 2.828 On Long End. Long Shaft End Soft
	885147B	885147	4.031 Overall Shaft Length, 1.625 On Long End. 2 Dia. Shaft. Both Shaft Ends Left Soft
	885147D	885147	4.031 Overall Shaft Length, 1.625 On Long End. 2 Dia. Shaft. Transverse Hole Thru Shaft
	885148	885100	4.109 Overall Shaft Length. 1.500 On Long End. ¼ In. Hole Drilled In End Of Long End ¼ In. Deep. Has Slinger Groove
	885149	885100	4.156 Overall Shaft Length, 1.562 On Long End. 2 Dia. Shaft. Groove In Long End. Both Ends Have Special Chamfers
	885153	885100	4.000 Overall Shaft Length, 1.890 On Long End. Slinger Groove
	885154A	885100	2.891 Overall Shaft Length, 1.203 On Long End. Soft Shaft
	885156AS	885156	4.469 Overall Shaft Length, 1.859 On Long End. Two Additional Grooves In O.R.—Slinger
	885156B	885100	4.469 Overall Shaft Length, 1.859 On Long End. With Slinger .250 From Face Of O.R.
	885156C	885140	4.469 Overall Shaft Length, 1.797 On Long End. With .394 Long Flat, .059 From Long End
	885156S	885156	4.469 Overall Shaft Length, 1.859 On Long End. Slinger
	885157S	885157	4.469 Overall Shaft Length, 1.859 On Long End. Slinger. 2 Dia. Shaft
	885158A	885158	5.438 Overall Shaft Length, 2.297 On Long End. Cadmium Plated Shaft
885158S	885158	5.438 Overall Shaft Length, 2.297 On Long End. Slinger On Short End	
885163	885100	4.281 Overall Shaft Length, 1.688 On Long End. Two Dia. Shaft—.190 In. Dia. Hole In O.R. Centered 2.450 In. From Long End	
885164	885100	4.000 Overall Shaft Length, 2.312 On Long End	
885166KS	885166	5.031 Overall Shaft Length, 2.281 On Long End. Slinger. Transverse Hole Thru Shaft. .6280 Dia. Shafts	
885168KS	885168	4.812 Overall Shaft Length, 2.156 On Long End. Slinger Transverse Hole Thru Shaft. .6280 Dia. Shafts	

**New Departure
DIMENSION DATA**



SPECIAL COMMERCIAL BEARINGS—Continued

Group Description	Bearing Number	Basic Bearing	Specialty
Fan & Pump Shaft Bearings 1½ In. O.D. Fan & Pump Shaft Bearings	885802S	885802	5.750 Overall Shaft Length, 1.875 On Long End. 2 Dia. Shaft. Slinger
	885805	885800	4.483 Overall Shaft Length, 1.639 On Long End. 2 Dia. Shaft. Axial Hole In Smaller Dia. Shaft End
	885808	885800	5.812 Overall Shaft Length, 2.344 On Long End. 2 Dia. Shaft. Slinger
	885809	885800	3.750 Overall Shaft Length, .812 On Long End, .7465 Shaft Dia.
Flat Thrust Bearings	FT5A		.314 Bore .625 O.D. .231 Width Brass Sep.
	FT17		1.068 & 1.125 Bore x 1.969 O.D. x .625 Width. Full Ball Complement
	FT32A		1.9685 & 2.048 Bore x 2.625 O.D. x .4375 Width. Full Ball Complement
	5589456		Retainer .314 I.D. x .605, O.D. x .069 Thickness
	5663818		Flat Thrust Bearing For Saginaw
	5681978		One Piece Curled Type Separator— D.B. Contact Angle
	5851793		Hinge Pin .280 Bore x 17/32 O.D. x .223 Width Spherical O.D. With Shell
Aircraft	V3210E		Split Inner Ring—Stabilized For High Temperature Operation
	4522AC		Wide Inner Ring With Groove. S Monel Metal Sep.
	4522AD	3222	Wide Inner Ring Having Puller Groove Silver & Lead Indium Plated Wheel Alloy Sep.
	Q4522AE		Non-Metallic Separator & Wide Inner Ring With Puller Groove
	V3L26U		Single Row Bearing Pair 5.1181 Bore x 7.8740 O.D. x 1.280 Wide—Split Inner Ring, Inner and Outer Puller Grooves Pratt & Whitney Aircraft Div.
	V3L28U		Single Row Bearing Pair 5.5118 Bore x 8.6614 O.D. x 1.5748 Wide—Split Inner Ring, Inner and Outer Puller Grooves Pratt & Whitney Aircraft Div.

PREFIXES AND SUFFIXES

Unless otherwise indicated, Prefixes and Suffixes are part of the bearing number.

Prefix Suffix	INDICATES	
A.....	Adapter Bearing—followed by Shaft Diameter in inches &/or fractions—"8A" is one seal, etc.	
A.....	Immediately following basic bearing number—specialty letter. (Indicates some deviation from standard).	
AG.....	Agricultural Bearing.	
B.....	Box-type Separator.	
BN.....	Box Type Separator, Flange Cup.	
B.....	Specialty letter.	
C.....	Steel Slinger-type Seal.	
C.....	Specialty letter.	
CB.....	Conveyor Roll Bearing.	
CS.....	Close wound coil spring stainless steel separator.	
CS.....	Conveyor Roll—Stub Shaft.	
CT.....	Clutch Throwout Bearing.	
CWC.....	Steel Slinger Seal, Wide Outer Ring.	
D.....	Rear-Wheel-type seal.	
D.....	Specialty letter.	
DB.....	Duplex Bearing—Back to Back Mounting	{ Follows basic bearing number and its prefixes &/or suffixes: Example: QN0207A DB L5 A
DF.....	" " —Face to Face " "	
DT.....	" " —Tandem " "	
E.....	Specialty Letter: I.H.C. Crankshaft Bearing.	
E.....	Specialty Letter.	
EL.....	Extra loose end play. (Superseded by "N" Suffix).	
F.....	With Flush Type Angular Contact Brg., single row end play. Inch Type, without separator.	
FT.....	Flat thrust bearings.	
F.....	Specialty letter.	
G.....	Specialty Letter. (Obsolete)	
G.....	With Seal Bearing—Garlock or Composition Seal.	
H.....	With 20000 Series Angular Contact Bearing—25° Contact Angle.	
H.....	With Double-row Bearing—Added width.	
H.....	With H0202, H0203 & H0206—60° Contact Angle.	
H.....	With Double Row—Grease hole in inner ring. Single Row hardened rings. Inch series tapered O.D.	
J.....	With Angular Contact Brgs.—Snap-on inner ring.	
K.....	Aircraft pulley type.	
J.....	Specialty letter.	
K.....	With Seal Bearing—Anti-rotating key in seal.	
L.....	"Loose" Endplay (except Duplex Bearings)—follows basic bearing number and its suffixes: e.g. 5305 L1A, 5306 L.	
L.....	Duplex Bearings—Standard Fit-up (light pre-load)—follows "DB," "DF" or "DT": e.g. H20305DT L1A.	
LR.....	Loose Radial Play.	
M.....	With Angular Contact Bearing—Separable (Magneto) type.	
M.....	With inch dimension bearings—Miniature stainless steel instrument bearings.	
M.....	Specialty letter.	
MR.....	Minimum radial play.	
N.....	Flanged Outer Race.	
N.....	With Single Row—Extra Loose End-Play (formerly "EL").	
NR.....	Radial play—Looser than LR.	
ND.....	Magneto Series (separable).	
NF.....	Flange Cup, Single Row Endplay.	
NM.....	Flange Cup, Open Cup Race.	
OE.....	With Single Row (1313/1318)—Special Box type Separator.	
Q.....	Non-metallic Separator.	
R.....	With 88000 & 88A Seal Brgs.—Relubrication Feature—Revolving Felt Slinger Seal. Inch type with separator.	
R.....	Radial play—follows after X or L suffix (but not T).	
RS.....	Removable Shields.	
S.....	Coil Spring Separator of Stainless Steel.	
S.....	Special Internal fit-up or preload.	
S.....	With Waterpump Bearing—with Slinger.	



Prefixes and Suffixes—Cont'd

Prefix	Suffix	INDICATES
	SA . . .	Self-Aligning.
	SNR . . .	Snap Ring Only.
	SO . . .	Spherical O.D. for self-aligning ring.
SP		Special.
SR		Used only in bearings where high carbon chromium steel and stainless steel are used in combination, and signifies stainless steel separator for open bearings and for removable shielded bearings where separator is not normally stainless steel. Also signifies stainless steel separator plus stainless steel fixed shields and/or stainless steel sheet metal seal parts for closed bearings.
	SR . . .	Self-Aligning O.D. and self-aligning ring.
SS		Stainless Steel.
	{ T	Tight internal fit-up (except Duplex Bearings)—follows basic bearing number and its Suffixes: e.g. 5306 T.
	{ T	Duplex Bearings—Heavy Pre-load—follows basic bearing number and its suffixes: e.g. Q20210 DT <u>T</u> 5 A.
TM		Textile treadle roll bearings.
TP		Textile pulley bearing.
TR		Textile roll bearing.
TS		Textile spindle bearing.
U		"Universal" single Angular Contact Bearing—ground for Duplex Back-to-Back, Face-to-Face or Tandem mounting. Example: Two U20200 L5 may be used as 20200 DB L5 A, 20200 DF L5 A or 20200 DT L5 A. May also be used singly.
	U	Split inner ring single row bearings, as applicable to aircraft, otherwise specialty letter.
V		Cast Bronze Machined Separator.
	V	Snap-ring on opposite side from standard (std. is on loading groove side, opposite shield or seal, as illustrated).
W		Cylindrical pocket sheet metal inner ring controlled separator.
W		With 0104—Case Ring.
	W	With Double Row—Externally diverging contact angles—Reversed Contact Angle.
WB		Brass cylindrical pocket cone controlled separator.
WC		Wide Cup Seal Bearing—Outer Ring extended so as to be flush with Inner Ring on one face.
WD		Hi-speed Separator—Bronze clad steel cylindrical pocket cone controlled.
X		With 88000 Seal Bearings—Free seal fit-up for Propeller Shaft Bearings.
	{ X	Standard Endplay & Noise Test (except on Single Angular Contact and Duplex Bearings). Usually omitted, thus 3205 X1 A is simply shown as "3205."
	{ *	Angular Contact Bearings—Single Bearings Only—No preload (Do not use for Duplex Mounting). Omitted when Standard, thus H20305 #1 A is simply shown as "H20305."
	{ X	Duplex Bearings—Medium preload. Follows "DB", "DF", or "DT." e.g. H20305 DT X1 A.
XD		Propeller-shaft Seal Bearings fit-up. (Superseded by "X" Prefix)
	XR . . .	Standard Radial Play.
	Y	Low Speed Noise Test.
Z		Removable molded synthetic rubber seal or shield.
	Z	Combined with another letter A thru H (ZA, ZB, ZC—ZH) signifies various Radial Play values. Primarily used on Instrumental and Miniature bearings.
1 Digit Figures		Immediately following Basic Bearing No. and End Play Symbol—Degree of Precision
	1—	ABEC1
	3—	ABEC3
	5—	ABEC5
	7—	ABEC7, New Departure Prefix.
	9—	New Departure Ultra Prefix.
4 Digit Figures		Immediately following Basic Bearing No. and End Play Symbol—Special Feature (See Sp. Specs. page 45).
Last Suffix Letter(s)		Type of Grease Packing—Examples: X1 A (A grease), XY1 C (C grease), T3 CF (CF grease), DB L5 A (A grease) etc. (See pages 46 and 47.)

SPECIAL SPECIFICATIONS

The most frequently used of many four digit specifications immediately following End-Play or Pre-Load Symbol. The first digit at left indicates grade. Thus "1213" indicates ABEC-1. The second digit changes to zero for higher grades. Thus "3013" indicates ABEC-3, and "5013" is ABEC-5. EXAMPLE: 41208 X1241 A indicates standard internal fit-up, without Snap Ring, A Grease.

Spec. No.	Indicates	Spec. No.	Indicates
1210	No shield groove in cone.	1727	Special vial packing.
1212	Free running felts.	1730	Special width and special cone runout tolerance also extra quiet.
1213	Width of cup and cone $+0.000 -0.002$.	1774	Radial play .0002 to .0005 hand feel test.
1214	End play or radial play symbol etched on bearing.	1783	Special noise test.
1217	DOUBLE ROW BEARINGS. SPECIAL LIMITS ON RUNOUT ON BOTH CUP AND CONE.	1796	Mark high points of eccentricity on cone.
1224	Special cleaning and noise test.	1811	Special noise test. Shield on opposite side from standard.
1225	Special noise test.	1825	Covers stainless steel bearings shipped dry.
1228	Hand feel test.	1828	V grease 20-25% full air solvent cleaning.
1232	Non-stamped cone face lapped.	1833	Hand feel test. Omit slinger from seal.
1241	Ship without snap ring.	1834	V grease 30% full air solvent cleaning.
1245	High points of eccentricity marked on cup and cone.	1898	.001 to .0015 end play.
1249	Spec. refer to drawing for all details.	1978	"C" $\frac{1}{4}$ to $\frac{1}{3}$ full special noise test.
1250	Special noise test and no snap ring.	3030	RUN OUT OF CUP AND CONE HELD CLOSER THAN ABEC3.
1252	Refer to drawing for all details.	3031	Same as 3030 except that bore and O.D. tolerance only marked on bearing.
1253	Classified bore and O.D. to nearest .0001.	3119	SPECIAL CONSULT SUPPLIER.
1254	Classified bore.	3122	Special noise test. One shield or "B" piece or seal must be drawn to straw color.
1255	Classified O.D.	3150	SPECIAL END PLAY "L" TYPE SEPARATOR AIR SOLVENT CLEANED ETCH BEARINGS S3150.
1266	Air solvent cleaning.	3160	Etch letters "RT" on bearing.
1268	Use on "Z" type bearings PA21 high temperature seal material.	3162	SPECIAL CONSULT SUPPLIER.
1270	Special noise test.	3165	End play letter and specification numeral etched on bearing.
1279	Etch grease code letter on bearing face.	3187	SPECIAL CONSULT SUPPLIER.
1293	Leave off all seals or shields.	3224	Special noise test. Special high temperature heat stabilization.
1296	No AFBMA out-of-roundness tolerances on bore diameter.	3319	O.D. ABEC 5 before seal insertion.
1362	Zinc plate "B" piece of seal—no felt drag.	3323	Special noise test. Etch "ZE" on inner ring face.
1366	Bore $+0.0000$ to -0.0002 —torque test.	3396	SPECIAL CONSULT SUPPLIER.
1378	Classified bore and O.D.—torque test.	3788	Eccentricity of cone .0002 maximum.
1393	1241—No shield notch in cup or cone opposite shield.	5005	O.D. ABEC5 tolerances before closures, ABEC3 after closures.
1419	Special noise test.	5038	Mark bore and O.D. tolerances and cup and cone eccentricities on bearings.
1442	End play .001 to .004.	5105	SPECIAL CONSULT SUPPLIER.
1446	$\frac{1}{4}$ FULL "C" GREASE SPECIAL NOISE TEST, SPECIAL END PLAY.	5106	Special noise test. Mark bore and O.D. tolerances and cup and cone eccentricities on bearings.
1449	SPECIAL END PLAY GAUGING ON MATCHED SETS.	5264	SPECIAL CONSULT SUPPLIER.
1450	SPECIAL TOLERANCE ON CUP FACE STICK OUT.	5358	Classified bore and O.D. torque test.
1460	Etch "RT" on bearing.	5366	Torque test on size RS77SR3J only, ship shields and snap wires separately in same vial.
1468	Cone face stickout beyond seal or shield parts must be no less than .005 with end play taken up.	5426	SPECIAL CONSULT SUPPLIER.
1522	Reverse sealing material in seal (results in heavier than standard seal drag).	5456	Special noise test and cleaning mark high point of eccentricity on inner ring.
1537	End play .0035 to .005.		
1563	End play $+0.001$ to $+0.002$.		
1581	Cone stickout beyond seal parts must be .005 minimum with end play taken up.		
1597	Leave off complete seal on bearings.		
1634	Air solvent cleaned and mark end play symbol on bearing.		
1681	Cone bore diameter must be within nominal tolerances, cone eccentricity .0002 maximum.		

EXAMPLE: 47106 X1241 A is without Snap Ring—it is OK to substitute a standard 47106 if Snap Ring is removed and mechanic told to "Use Old Snap Ring." (Same true of "1250.")

SLUSH OR GREASE CODE

STANDARD LUBRICANTS and CORROSION PREVENTIVES used in each type and size range of New Departure Bearings. These code letters are the last letters in the bearing part number suffix, but, when standard, are omitted from catalogs, price lists, invoices and bearing boxes. Thus "3205" means "3205 X1 A," "7505" means X1 C," while "7506" means "7506 X1 A." Complete part number thru lubricant letter is used when other than standard lubricant is used, e.g., "7505 X1 A."

Type of Bearings		Bore Number				Standard Slush or Grease All Spec.
		Extra Light	Light	Medium	Heavy	
Single Row Radial (Not including R88000, R87000, RWC88000, and RWC87000) Single Row Ang. Contact	Open	All Sizes				A
	Single Shield	Under 6	Under 6	Under 5		C
		6 up	6 up	5 up	4 up	A
	Single Seal	Under 10	Under 8	Under 7	Under 5	C
		10 up	8 up	7 up	5 up	B
Double Shield Seal & Shield Double Seal	Under 10	Under 8	Under 7	Under 5	C	
	10 up	8 up	7 up	5 up	B	
Double Row	Same as above					
Inch Type	Open	All Sizes				A
	Single Shield	Under 16				C
		16 up				A
	Double Shield	Under 6				C
6 up					C	
Single Row Radial R88000, R87000, RWC88000, RWC87000	Seal & Shield		Under 8			C
	Double Seal		8			B
Adapter		Z99AB—All Sizes				Z
		Z99AE—All Sizes				Z
		R88A—All Sizes				Z
Magneto	Open	All Sizes				A
Front Wheel and Parts	Open	All Sizes				A
Rear Wheel	Double Seal	RW500 Series All Others				Z BC
Propeller Shaft	Double Seal	All Sizes				C
Mine Car	Double Seal	All Sizes				C
Clutch Throwout	Open	4L24A, B, C and E				A
	Single Shield	All Others				C
Fan and Water Pump	Double Seal	All Sizes				Z
Steering Knuckle	Single Shield	928				Z
Steering Arm	Double Seal	916				Z
	Single Seal	924-924A				Z
Roller Tooth	Open	All Sizes				A
Textile		TC-2-504				C
		All TM-505 Series				C
		TP-15-500, TP-23-500				C
		TP-17-500				A
		TP-20-500, TP-21-500				C
		TP-30				C
		TS-1-500, TS-2				C
Conveyor	Seal & Shield	All Sizes				Z
	Double Seal	All Sizes				Z
Flat Thrust Bearings		FT17 and FT32A				C
Agricultural	Double Seal	Cam followers (CF Series) Light Disc (Z99502U, Z99503U, 87504U, & 87504A16) Hay Rake bearings (900537 and 900539) Heavy Duty Disc Bearings (AS4500 Series)				Z

Armed Forces Specifications	N.D. Codes	Preferred N.D. Codes
Present		
MIL-L-644A MIL-L-2104A MIL-G-3278	BW, DN FH E, BM	BW FH E
MIL-L-3545 MIL-L-6085A MIL-G-7118	FC, DC J, W CJ	FC J CJ
MIL-G-7421A MIL-L-7711 MIL-L-7808C	BX T DA	BX T DA
MIL-L-7870A MIL-G-10924 MIL-C-11796A	U AX CO	U AX CO
MIL-G-15793 MIL-L-16958A MIL-L-17353	BV CN CW	BV CN CW
MIL-G-18709	B	B

Specifications	
Obsolete	Superseded By
2-106 2-134	MIL-G-10924 MIL-G-3278
14-G-8 14-G-11	MIL-G-15793 MIL-L-3545
14-L-3 14-L-7 14-L-15	MIL-G-18709 MIL-L-3545 MIL-L-16958A
14-O-20	MIL-L-6085A
AN-C-124	MIL-C-11796A
AN-G-5 AN-G-10 AN-G-15 AN-G-25	MIL-L-3545 MIL-G-7118 MIL-L-7711 MIL-G-3278
AN-O-6 AN-O-11	MIL-L-7870A MIL-L-6085A
AXS-781 AXS-1169 AXS-1767	MIL-G-10924 MIL-G-10924 MIL-L-644A
JAN-L-644	MIL-L-644A
MIL-L-7808B	MIL-L-7808C
MIL-O-6084 MIL-O-6085	MIL-L-644A MIL-L-6085A

See page 47 for description of ND grease and oil code letters.

STANDARD GREASES AND OILS

ND Code	Description	ND Code	Description
A	Soft, semi-fluid oxidation inhibited rust preventive for general use.		lubricating qualities covering wide temperature range of -30° to 250° F.
B	High melting point sodium soap-petroleum oil grease having an ASTM Worked Penetration of 270-300 and an oil of 300 SUS viscosity at 100° F. It combines good rust prevention under humid conditions with lubricating qualities covering wide temperature range of -30° to 250° F. Meets requirements of Specification MIL-G-18709.	CC	Solvent cleaned bearings using C grease.
BB	Solvent cleaned bearings using B grease.	CO	Soft Film, oxidation inhibited Rust Preventive approved under Specification MIL-C-11796A.
BC	Sodium soap-petroleum oil high temperature grease.	E	Water resistant, lithium soap, diester grease approved under Specification MIL-G-3278. Temperature range -65° to +250° F. Worked penetration 260-310. Cannot use with Neoprene type seals or cellophane packing material. Satisfactory with Buna N seals.
BR	High temperature, lithium soap-silicone grease.	F	High viscosity, oil type rust preventive.
BW	Low temperature oil containing rust inhibitor. Meets Specification MIL-L-644A.	J	Diester instrument oil. Meets Specification MIL-L-6085A. Cannot use with Neoprene type seals or cellophane packing material. Satisfactory with Buna N seals.
BX	Lithium soap-diester grease. Approved under Specification MIL-G-7421A. Developed for use at temperatures to -100° F. Cannot use with Neoprene type seals or cellophane packing material. Satisfactory with Buna N seals.	L	Low temperature, lithium soap-silicone grease. Worked penetration 240-280.
C	High melting point sodium soap petroleum oil grease having an ASTM Worked Penetration of 190-220, and an oil of 500 SUS viscosity at 100° F. It combines good rust prevention under humid conditions with	V	High temperature, sodium soap-petroleum oil grease.
		Z	Water insoluble, lithium soap-petroleum oil grease containing a petroleum oil of 500 SUS viscosity at 100° F. Temperature range, -40° to +200° F. Worked Penetration 220-250.

DECIMAL EQUIVALENTS

		Milli-meters		Inches		Milli-meters		Inches		Milli-meters		Inches		Milli-meters		Inches	
1-32	1-64	0156	33-64	0516	17-32	0313	35-64	0469	1	0.0394	26	1.0236	51	2.0079	76	2.9921	
1-16	3-64	0625	9-16	05625	3	0.0787	27	1.0630	2	0.0787	27	1.0630	52	2.0472	77	3.0315	
3-32	5-64	0781	19-32	05938	3	0.1181	28	1.1024	3	0.1181	28	1.1024	53	2.0866	78	3.0709	
1-8	7-64	1094	5-8	06094	4	0.1575	29	1.1417	4	0.1575	29	1.1417	54	2.1260	79	3.1102	
	9-64	1406	21-32	06563	5	0.1969	30	1.1811	5	0.1969	30	1.1811	55	2.1654	80	3.1496	
5-32	11-64	1719	11-16	06875	6	0.2362	31	1.2205	6	0.2362	31	1.2205	56	2.2047	81	3.1890	
3-16	13-64	2031	23-32	07188	7	0.2756	32	1.2598	7	0.2756	32	1.2598	57	2.2441	82	3.2283	
7-32	15-64	2344	3-4	0750	8	0.3150	33	1.2992	8	0.3150	33	1.2992	58	2.2835	83	3.2677	
1-4	17-64	2656	49-64	07656	9	0.3543	34	1.3386	9	0.3543	34	1.3386	59	2.3228	84	3.3071	
	9-32	2813	25-32	07813	10	0.3937	35	1.3780	10	0.3937	35	1.3780	60	2.3622	85	3.3465	
5-16	19-64	2969	51-64	07969	11	0.4331	36	1.4173	11	0.4331	36	1.4173	61	2.4016	86	3.3858	
11-32	21-64	3281	13-16	08125	12	0.4724	37	1.4567	12	0.4724	37	1.4567	62	2.4409	87	3.4252	
3-8	23-64	3594	27-32	08438	13	0.5118	38	1.4961	13	0.5118	38	1.4961	63	2.4803	88	3.4646	
	25-64	3906	55-64	08594	14	0.5512	39	1.5354	14	0.5512	39	1.5354	64	2.5197	89	3.5039	
13-32	27-64	4219	7-8	0875	15	0.5906	40	1.5748	15	0.5906	40	1.5748	65	2.5591	90	3.5433	
7-16	29-64	4531	57-64	08906	16	0.6299	41	1.6142	16	0.6299	41	1.6142	66	2.5984	91	3.5827	
15-32	31-64	4844	29-32	09063	17	0.6693	42	1.6535	17	0.6693	42	1.6535	67	2.6378	92	3.6220	
1-2		500	59-64	09219	18	0.7087	43	1.6929	18	0.7087	43	1.6929	68	2.6772	93	3.6614	
			15-16	09375	19	0.7480	44	1.7323	19	0.7480	44	1.7323	69	2.7165	94	3.7008	
			61-64	09531	20	0.7874	45	1.7717	20	0.7874	45	1.7717	70	2.7559	95	3.7402	
			31-32	09688	21	0.8268	46	1.8110	21	0.8268	46	1.8110	71	2.7953	96	3.7795	
			63-64	09844	22	0.8661	47	1.8504	22	0.8661	47	1.8504	72	2.8346	97	3.8189	
					23	0.9055	48	1.8898	23	0.9055	48	1.8898	73	2.8740	98	3.8583	
					24	0.9449	49	1.9291	24	0.9449	49	1.9291	74	2.9134	99	3.8976	
					25	0.9843	50	1.9685	25	0.9843	50	1.9685	75	2.9528	100	3.9370	

