

NA 1GE7 - 20-LK

PLANE BEARINGS

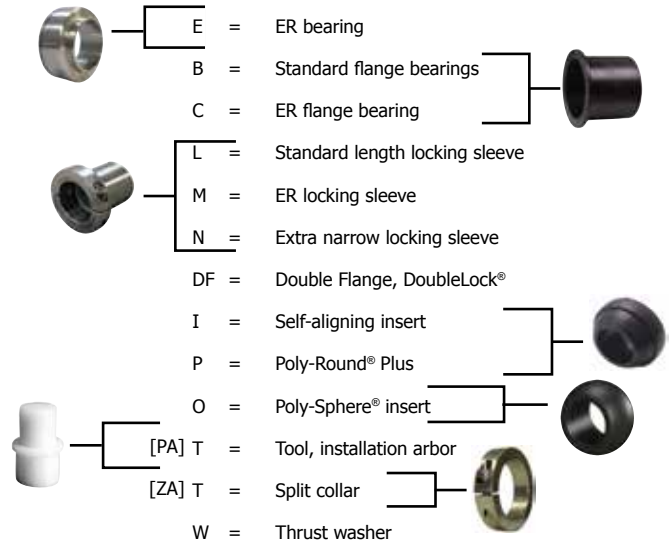
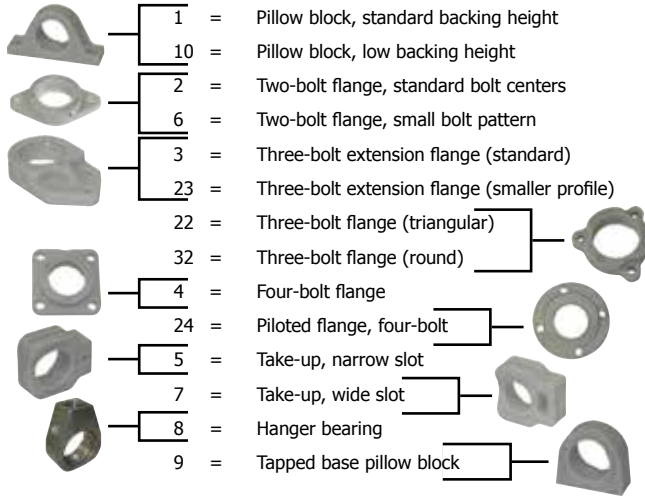
Material Indicator

Polymer: PA, AA, NA, OE, QF, QB, FA, MA, MY, MZ
Metals / metal treatments: ZA, ZF, ZN, ZQ, ZZ, Z4

* Housing only indicated as '1GE' or '1GE-QK'.
Prefix and suffix identifies details of assembly
or plane bearing components.

NA 1GE7 - 20-LK

Shape or Series



NA 1GE7 - 20-LK

Housing or Non-Housing Style

NON-HOUSING
U = Non-housing product
V = Single split collar
W = Double split collar
B = Polymer block bearing (straight bore)
L = Stainless steel split flangette housing
O = Poly-Sphere® bearing

HOUSING
G = EDT "KG" cast polymer housing (spherical ID)
A = Stainless housing (spherical ID)
E = Type E housing
F = Mild steel housing (spherical ID)
P = Stainless steel cast housing

OPTIONAL HOUSING MODIFIER
-CB = Cap, blind
-CT = Cap, thru
-O = Housing modification
-QK = QuiKlean®
-Q = Square bolt holes
-SM = Wider spherical radius

*Full housing P/N - 3 digits (Ex: 1GE)

EX: QF 1 A E - **QK** 7 - 20 - LK

NA 1GE7 - 20-LK

Group Size

Dimensional interchange

RING SIZE	EDT GROUP	SPHERICAL OD
203	A	1.575" / 40 mm
204	B	1.850" / 47 mm
205	C	2.047" / 52 mm
206	D	2.441" / 62 mm
207	E	2.835" / 72 mm
208	F	3.150" / 80 mm
209	G	3.346" / 85 mm
210	H	3.543" / 90 mm
211	I	3.937" / 100 mm
212	J	4.331" / 110 mm

RING SIZE	EDT GROUP	SPHERICAL OD
213	Z	4.724" / 120 mm
214	K	4.921" / 125 mm
215	L	5.128" / 130 mm
216	M	5.511" / 140 mm
217	N	5.905" / 150 mm
218	O	6.299" / 160 mm
219	P	6.693" / 170 mm
220	Q	7.480" / 190 mm
221	R	7.874" / 200 mm

EDT GROUP	TYPE E OD's	ID
01	65mm OD x	1.35 ID
02	72mm OD x	1.54 ID
03	85mm OD x	1.87 ID
04	90mm OD x	2.10 ID
05	100mm OD x	2.35 ID
06	120mm OD x	2.65 ID
07	125mm OD x	3.14 ID
08	145mm OD x	3.70 ID
09	175mm OD x	4.20 ID
10	195mm OD x	4.70 ID
11	212mm OD x	5.20 ID

NA 1GE7 - 20-LK

Modifier

O = Standard part
C = Custom part
H = Hardened steel
M = Mild steel
Q = Square bolt hole
T = Split
6 = 316 Stainless steel components

2 = Poly-Round® Plus with Double Flange DoubleLock® sleeve
3 = Poly-Round® narrow, no locking sleeve (with or without housing)
4 = Poly-Round® narrow and locking sleeve (with or without housing)
5 = Poly-Round® in housing (no locking sleeve)
7 = Poly-Round® with locking sleeve (with or without housing)
8 = Ball bearing in housing
9 = ALL-ROUND® Supreme bearing (with or without housing)
P = Poly-Round® Plus assembly

NA 1GE7 - 20-LK

Shaft/ID Size

(indicated as "x" in the catalog)

Inches in 16th's (Ex: 1-1/4" = 20/16 → 20)
OR
Fractions (Ex: 1-1/4")
Metric with "M" or "mm" suffix
(Ex: 20M **OR** 20mm)

OPTIONAL MODIFIER (EX: QF 1 A E - QK 7 - 20 - **LK**)

-04 = 0.6 Longer locking sleeve
-04-LK = 0.6 Longer sleeve, DoubleLock®
-LK = KleenCap® DoubleLock®
-LC = DoubleLock® (Obsolete, now LK or MC)
-MC = DoubleLock®
-HT = High temperature
-HTV = High temp, fixed end
-HTE = High temp, expansion end
-OS = Oven series

EX: 4Y1GE8-20GX 4Y205-16GX

BALL BEARINGS

Ball Bearing Material	Ball Bearing Style	BB Ring Size OR Housing	Modifier	Shaft	Lubricant	Modifier
4 400 stainless	Y set-screw (also B)	For inserts - refer to Group Size section above *For assemblies - use 3-digit Housing part number Example: 205 group / ring size 1GE housing style	Blank if bearing only Not an assembly	size in 16ths	Grease G - Food grade Y - High temp food grade Solid lube - polymer F - Food grade (-55° to 200°) J, B, P - Miscellaneous food grades C - Food grade non-corrosive K, R - High temperature E, D - Industrial grades Solid lube - graphite W, M, T, V - Various temperature ranges	X Standard
3 300 stainless	U wide eccentric (also A)		8 mounted; ball bearing in housing			Z Shield
5 NC steel	E narrow eccentric					O Open
6 52100 steel	0 unmounted					B Bare
7 alloy	F flanged unmounted					V Vacuum grade
						SM Wider unit

EDT Split bearing assembly part numbers



A split locking sleeve has two (2) DoubleLock® collars in order to stay round.



A standard Poly-Round® insert does not space the two collars far enough outside of the stainless housing to allow full wear of a Poly-Round® bearing (longevity due to a thick bearing wall is one of the advantages of Poly-Round® bearings).

To remedy this, split housings must be mated with a symmetrical style of Poly-Round®, designated as 'OS.' An OS Poly-Round® allows a thrust surface on both sides of the housing that, even with significant wear over time, should not intersect the housing.



In all split assembly part numbers, it is necessary to indicate with 'T' which component(s) are split

- Housing p/n is #AC-SPLIT
- Insert is __IUCT-C-OS
- Locking sleeve is ZALUCT-16-OS (or ZALUCT-16-OS-04 if extra length is needed for shaft expansion)

Examples of Part Numbering options

- QF2ACT7T-16T Indicates housing, insert, and locking sleeve are split
- QF2ACT7T-16 Indicates housing and insert are split, but locking sleeve is 1-piece
- QF2ACT7-16 Indicates split housing with 1-piece insert and 1 piece set-screw locking sleeve
- NA2ACT5T-16 Indicates ss split 2-bolt with split Poly-Round® and no sleeve (5 assembly) for 1" shaft



Assembly considerations

- You can have a split housing with a 1-piece or split Poly-Round®
- You can have a split Poly-Round® with a 1-piece or split sleeve
- You can NOT have a split sleeve without having a split housing and split bearing
- You MUST have a split housing and a split bearing in order to use a split sleeve
 - You can NOT use a split sleeve with a 1-piece Poly-Round®
 - You can NOT use a split Poly-Round® with a 1-piece housing
- You can use a split Poly-Round® without a locking sleeve (...5T), but the shaft material and surface finish MAY compromise the longevity of the Poly-Round® (won't be as long lived as running with a sleeve). Operating without a locking sleeve is not a Poly-Round® failure and therefore not an EDT warranty issue.



Note: For high load applications: choose Poly-Sphere® bearings instead of Poly-Round® inserts. Poly-Sphere® maximizes load capacity of the polymer because the OD is almost entirely supported by the stainless housing, versus the OS style where only the major OD is supported by the housing.

EDT Ball Bearing Part Numbering System

Ball Bearing Material		Ball Bearing Style		Bearing or Housing Size		Modifier		Shaft	Lubricant*			Modifier	
4	400 stainless	Y	Set screw	Examples:		Blank	Bearing only (not assembly)	Size in 16 ^{ths}	G	Food grade	Grease	X	Standard
3	300 stainless	U	Wide eccentric (also A)	205	Ring size				F	Food grade (-55° to 200°F)	EPL ⁺	Z	Shield
5	NC steel	E	Narrow eccentric	1GE	Housing group	8	Mounted ball bearing in housing		J,B,P	Other food grade designations	EPL ⁺	O	Open
6	52100 steel	0	Unmounted	(Refer to charts below)					C	Food grade non-corrosive	EPL ⁺	SM	Wider unit
7	Alloy	F	Flanged unmounted			K	Food grade hi temp (-25° to 350°F)	EPL ⁺					
		B	Set screw, commodity	E	Industrial grades	EPL ⁺							
		A	Wide eccentric, commodity	W	Temp -250° to +250°F (vacuum grades available, "V")	EGL ⁺							
				M	Temp +32° to +450°F (vacuum grades available, "V")	EGL ⁺							
				T	Temp +40° to +650°F (vacuum grades available, "V")	EGL ⁺							

*Lubricants listed as food grade are designated H1

*EPL: EDT polymer lube

*EGL: EDT graphite lube

For more information about EDT solid lubricants see the next page.

Housing Shape / Profile Indicators

Indicators	Housing styles
1	Pillow block
2	2-Bolt flange
3	3-Bolt, extension
4	4-Bolt
5	Take-up, narrow
6	2-Bolt flange, small bolt pattern
7	Take-up, wide
8	Hanger
9	Tapped base pillow block
10	Pillow block, low backing height
22	3-Bolt, triangular
23	3-Bolt, extension, smaller profile
24	4-Bolt, piloted
32	3-Bolt, round

Housing Material Indicators

Indicators	Housing material
G	Polymer; EDT "KG"
A	Stainless 304/316
F	Cast iron
P	Cast stainless
E	Type E stainless

Group / Size Indicators


Ball Bearing Ring Size	Spherical Size: Ball Bearing OD Housing ID	EDT Group Size
201, 202, 203	1.575" / 40mm	A
204	1.850" / 47mm	B
205	2.047" / 52mm	C
206	2.441" / 62mm	D
207	2.835" / 72mm	E
208	3.150" / 80mm	F
209	3.346" / 85mm	G
210	3.543" / 90mm	H
211	3.937" / 100mm	I
212	4.331" / 110mm	J
214	4.921" / 125mm	K
215	5.128" / 130mm	L

Additional Sizes (not available in SS)

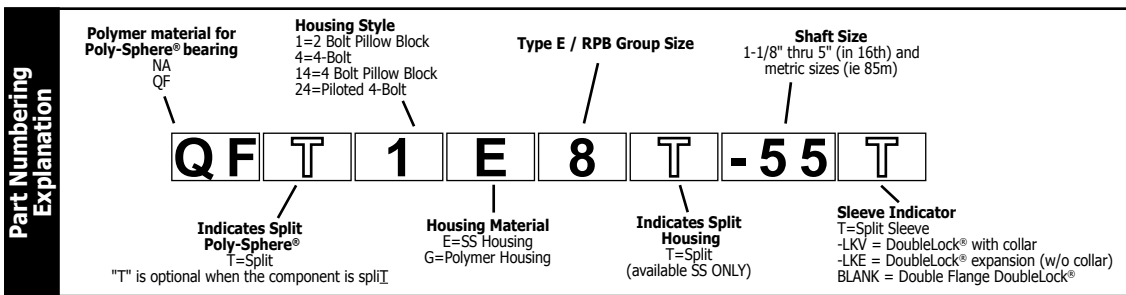
Ring Size	Spherical OD	EDT Group Size
213	4.724" / 120mm	Z
216	5.511" / 140mm	M
217	5.905" / 150mm	N
218	6.299" / 160mm	O
219	6.693" / 170mm	P
220	7.480" / 190mm	Q
221	7.874" / 200mm	R


Radial Poly-Round® Part Numbering Guide

O E	6200	_____	RPR	Part Number Examples
Material identifier Ref: Material Selection Chart (See chart above)	Industry part #	Any modifier (EDT assign)	Radial Poly-Round®	OE6200RPR OEF691/6RPR QFR6-2RPR

 FOR MORE INFORMATION, REFER TO THE UNMOUNTED RADIAL BEARINGS CATALOG SECTION

Type E and RPB Part Numbering Guide



 FOR MORE INFORMATION, REFER TO THE TYPE E CATALOG SECTION

EDT Solid Lubricants

EDT Solid Lube PN Indicator	Food-Grade Solid Lubricant Type	'Food grade' lubricants are rated H-1 (incidental food contact)	Color	Operating Temperature
F	EPL	Food grade oil-permeated polymer solid lube utilizing high performance synthetic lubricants. Formulated to withstand and inhibit corrosion in most food-processing environments that involve moisture and wash-down, performs equally well in similar industrial applications. Low temp to -55°F (-48°C).	white	-55°F to 200°F (-48°C to 93°C)
B	EPL	Food grade oil-permeated polymer solid lube utilizing high performance synthetic lubricants. Same kinds of food-processing and industrial applications as F lube (withstand moisture, corrosion inhibitors) with low temp to -65°F (-54°C)	white	-65°F to 200°F (-54°C to 93°C)
K	EPL	Food grade oil-permeated polymer solid lube utilizing high performance synthetic lubricants. Moisture resistance and corrosion inhibitors like F lube, with the ability to operate in high temps to 350°F (176°C)	white	-25°F to 350°F (-32°C to 176°C)
C	EPL	Food grade oil-permeated polymer solid lubricant utilizing high performance synthetic lubricants. Designed to resist moisture, with more aggressive resistance to cleaners including strong oxidizers (elements that are high pH.) High temp stability to 350°F (176°C)	white	-33°F to 350°F (-36°C to 176°C)
W	EGL	Food grade graphite-based solid lube resistance to most chemicals (wide pH range, except extreme pH.) Unaffected by moisture, radiation and UV resistant. Wide temperature range -150°F to 250°F. Low friction. Inert nature of graphite can be useful in wide range of applications. EGL is brittle and impact may accelerate loss of the lube. Vacuum grade available: WV.	black	-150°F to 250°F (-101°C to 121°C)
M	EGL	Food grade graphite based solid lubricant designed to operate within the range of most high temperature processing applications, from 250°F to 450°F including submerged in oil & other liquids, in ovens and fryers. UV- and radiation- resistant. Low friction. Hardness of lube can be advantageous with abrasion. EGLs are brittle, M is more brittle than W. Vacuum grade available: MV.	black	250°F to 450°F (121°C to 232°C)
T	EGL	Food grade graphite based solid lubricant designed to operate within the range of industrial- and some food- processing applications, from 450°F to 650°F; intermittently to 900°F is feasible. Abrasion-, radiation- and UV- resistant. Low friction. EGLs are brittle, T more brittle than M. Vacuum grade available: TV.	black	450°F to 650°F (232°C to 343°C)

Note: solid lubricants reduce the maximum speed and load capacity of bearings