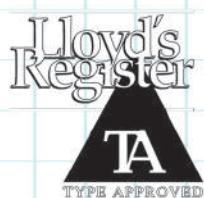
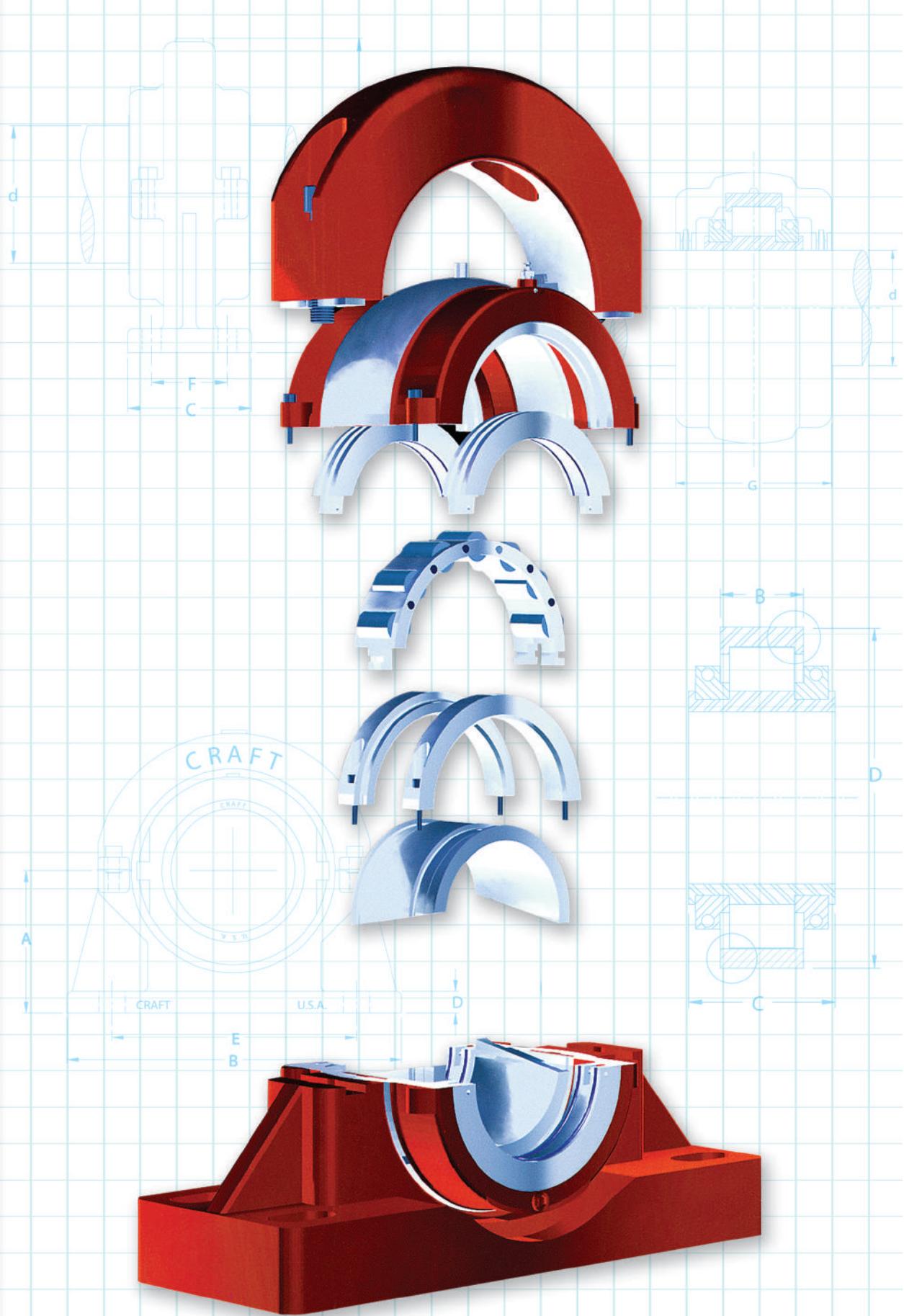
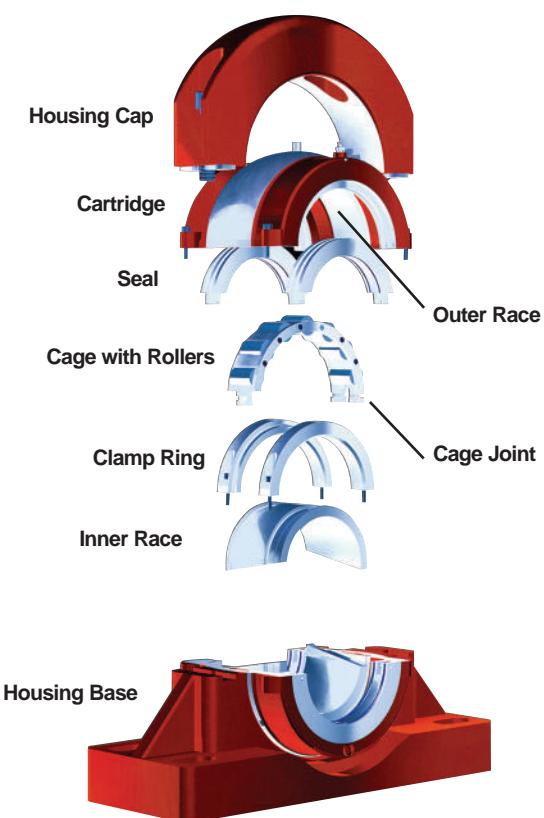


CRAFT BEARING

S1/S2/S3
Series
VI



CRAFT
Bearing Company, Inc.



C A R T R I D G E A S S E M B L Y

The Craft Cartridge Assembly consists of the following component parts:

- Either the Float or Held Bearing (as the application requires)
- Aluminum triple labyrinth-ATL-seals (standard, other seals available upon request)
- The Cartridge itself, made from high-quality ductile iron



The outside diameter of the cartridge is spherically machined to accommodate initial shaft misalignment. This allows the Bearing and Cartridge Assembly to align externally. The seal remains on a parallel axis with the shaft, maintaining a 100% seal along the shaft.

All bearing outer races are positioned in the cartridge by side pusher screws. This allows the proper positioning of the outer races in the cartridge. The side pusher screws must be backed off before attempting to remove outer races.

The Craft Cartridge Assembly may be purchased separately for replacement in a Craft Housing or other appropriate mounting fixtures.

T H E S P L I T B E A R I N G

Craft Bearing Company manufactures Split Cylindrical Roller Bearings which combine all the advantages of conventional anti-friction roller bearings with the added feature of being easily assembled around a shaft. The complete assembly is engineered in halves to ease installation, inspection, and/or replacement of pillow block bearings without removing or disrupting other elements of the system. **The Split makes the difference!** The Craft Bearing and all its component parts are manufactured in the United States.

P I L L O W B L O C K

The Craft Pillow Block consists of the Cartridge Assembly (with either a Float or Held Bearing) and the Housing Assembly, which is made of quality ductile iron.

The inside diameter of the housing is spherically machined to accept the Cartridge Assembly.

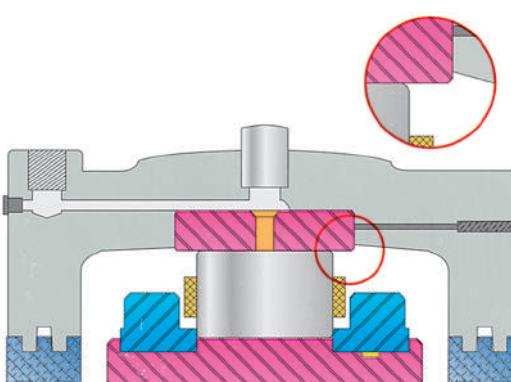
The base to center height of the

Pillow Block meets and in some cases is less than the industry standard. In cases where shim stock is used to increase the base to center height needed for a given application, it is imperative that the housing base be completely supported.



NOTE All hardware used in the assembly of the Craft Pillow Block is of the American standard type, not metric.

Bearings, cartridges, and housings of the same series and grouping are interchangeable with each other. However, their integral parts are not.



F L O A T B E A R I N G (N o n - l o c a t i n g)

The Craft Float Bearing (FL suffix) allows unrestricted axial movement, either expansion or contraction. The roller assembly is held in place by the flanges of the inner race clamping collars, while allowing the roller cage assembly to locate itself, or float, across the face of the outer race. As a result, the roller does not sustain axial forces while retaining full radial load carrying capacities.

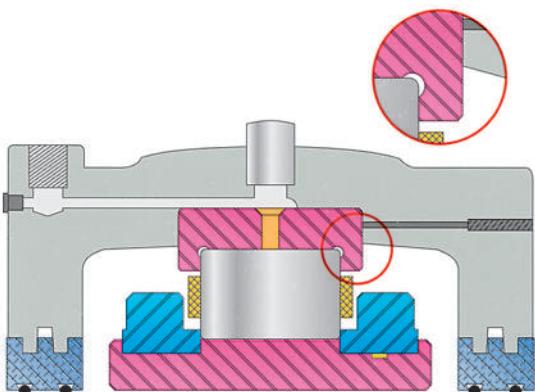
CRAFT
Bearing Company, Inc.

5000 Chestnut Avenue • Newport News, Virginia 23605

phone 757-247-6000 • fax 757-247-6300

e-mail info@craftbearing.com

website www.craftbearing.com



HELD BEARING (LOCATING)

The Craft Held Bearing (HD suffix) is installed as a fixed bearing to locate the shaft and direct shaft expansion in either axial direction. The flanges of the clamping collars and the shoulders of the outer race form a guide path which contain the rollers, eliminating axial float while accommodating thrust. The Held Bearing handles axial loading virtually independent of the radial load. Only one Held Bearing should be applied to a single shaft segment. The other support bearings should be Float Bearings.

MATERIALS

Materials used in Craft Pillow Block Bearings meet or exceed the standards set by the American Bearing Manufacturers Association (ABMA). The rolling elements and parts forming the running surfaces of the bearing are made of SAE 52100 high carbon chromium steel, through hardened, to give optimum fatigue life and dimensional stability. The cartridge and housing are made of cast *ductile* iron, for higher tensile strength and elasticity, and substantially more ductility over conventional cast iron.

BEARING LOAD RATINGS AND LIFE

All calculations to determine the load carrying capacities of the Craft Bearing are based on and in accordance with ABMA and International Organization for Standardization (ISO) standards.

Basic Rating Life

L_{10} , or Basic Rating Life, is defined by the ISO formula, $L_{10} = (C_R/P_R)^P$, where:

L_{10} = Basic Rating Life, in millions of revolutions

C_R = Basic Dynamic Load Rating

P_R = Dynamic Equivalent Radial Load

P = Exponent of the Life Equation 10/3

L_{10} is the minimum expected life for 90% of a group of like bearings. Median life, which 50% of the group will complete or exceed, is approximately five times the rating life.

CUSTOM WORK

Stainless steel cartridges and housings and special application bearings are available upon request. Please contact our Engineering Department.

BEARING LUBRICATION

The primary purpose of lubrication is to establish a load carrying film on the component parts of the bearing so that metal to metal contact is avoided between the rolling elements. Lubrication also acts as an inhibitor to corrosion and assists in the sealing process. Appropriate lubrication selection must be based on the critical criteria (speeds, loads, temperatures, etc.) of the bearing application.

Grease Lubrication

Grease of a #2 consistency with an EP (extreme pressure) additive is the preferred lubricant in most normal applications. All Craft Cartridges have a grease fitting, allowing the lubricant direct access to the rolling surfaces of the bearing. Depending on the application, excessive grease will result in an abnormal rise in bearing temperature. Therefore, Craft Cartridges are also supplied with purging capabilities. This is done by removing the purge plug, located in the lower half of the cartridge, and allowing the grease to seek its own level. Once this is accomplished, the plug is then replaced.

Greasing Capacities

All bearing component parts should be cleaned and free of preservatives and contaminants. As the component parts of the bearing are assembled around the shaft, they should be hand coated with grease. The bearing should never be assembled dry and the lubricant injected after the unit is mounted. As a general guide, grease should be applied based on the following chart.

dn (RPM x Shaft Size)	Percentage of Packing (See chart, Grease Capacity)
0 to 2000	100%
2000 to 4000	75%
4000 to 6000	50%
6000 to 8000	33%
8000 and up	25%

Greasing Schedules

Held Bearing (Locating) Due to the cycloidal action of the rollers against the flanges of the clamping collars and the shoulders of the outer raceway, the Held Bearing requires a more frequent lubrication schedule than the Float Bearing. Every 250 operating hours, or at two-week intervals, the bearing should get three to four shots of grease ($\frac{1}{2}$ oz.), with a suggested yearly thorough cleaning and re-lubrication.

Float Bearing (Non-locating) Every 500 hours, or at one month intervals, the bearing should get three to four shots of grease, with a suggested yearly thorough cleaning and re-lubrication.

The above greasing schedule is for reference only, and may be modified to accommodate the application. Experience will determine the best interval for each application.

Oil Lubrication

Oil lubrication may be required in applications where extreme speed, high axial load, temperature, and / or other operating conditions may be factors. To insure proper selection and utilization of oil lubrication, please contact Craft Bearing's Engineering Department.

NOTE Axial capacity and maximum RPM may be reduced when extreme pressure grease or oil lubrication is not used.

S 1 S E R I E S S M A L L B O R E

M O U N T E D U N I T												
Shaft Diameter	Complete* Component	Pedestal Housing	A **	B	C*	D	E		F	H	Bolts	Weight lbs.
							Minimum	Maximum				
1 7/16 1 1/2 40mm	S1 BCH 107 S1 BCH 108 S1 BCH 40mm	PH 1	2 3/8	9	2 3/8	7/8	6 3/4	7 1/2	—	5 1/2	Two 1/2	11.05
1 11/16 1 3/4 1 15/16 2 45mm 50mm 55mm	S1 BCH 111 S1 BCH 112 S1 BCH 115 S1 BCH 200 S1 BCH 45mm S1 BCH 50mm S1 BCH 55mm	PH 2	2 3/4	10 5/8	2 3/8	1	8	8 7/8	—	6 1/4	Two 5/8	18.5
2 3/16 2 1/4 2 7/16 2 1/2 60mm 65mm	S1 BCH 203 S1 BCH 204 S1 BCH 207 S1 BCH 208 S1 BCH 60mm S1 BCH 65mm	PH 3	3 5/32	11	2 3/4	1 1/4	8 7/8	9 1/2	—	7	Two 5/8	25.4
2 11/16 2 3/4 2 15/16 3 70mm 75mm	S1 BCH 211 S1 BCH 212 S1 BCH 215 S1 BCH 300 S1 BCH 70mm S1 BCH 75mm	PH 4	3 3/4	13	3	1 1/2	10 1/4	11	...	7 7/8	Two 3/4	33
3 3/16 3 1/4 3 7/16 3 1/2 80mm 85mm 90mm	S1 BCH 303 S1 BCH 304 S1 BCH 307 S1 BCH 308 S1 BCH 80mm S1 BCH 85mm S1 BCH 90mm	PH 5 (2B)	4 13/32	15	3 1/2	1 3/4	12 3/16	13 3/16	...	10 1/16	Two 3/4	58
3 3/16 3 1/4 3 7/16 3 1/2 80mm 85mm 90mm	S1 BCH 303 S1 BCH 304 S1 BCH 307 S1 BCH 308 S1 BCH 80mm S1 BCH 85mm S1 BCH 90mm	PH 5 (4B)	4 13/32	15	5 1/2	1 3/4	12 3/8	13 3/8	3 1/2	10 1/16	Four 3/4	64.3
3 11/16 3 3/4 3 15/16 4 100mm 105mm	S1 BCH 311 S1 BCH 312 S1 BCH 315 S1 BCH 400 S1 BCH 100mm S1 BCH 105mm	PH 6 (2B)	4 15/16	16 3/4	4 1/4	2	13 1/2	14 7/8	...	10 3/4	Two 3/4	75.2
3 11/16 3 3/4 3 15/16 4 100mm 105mm	S1 BCH 311 S1 BCH 312 S1 BCH 315 S1 BCH 400 S1 BCH 100mm S1 BCH 105mm	PH 6 (4B)	4 15/16	16 3/4	6	2	14	15	4	10 3/4	Four 3/4	83.6
4 3/16 4 7/16 4 1/2 110mm 115mm	S1 BCH 403 S1 BCH 407 S1 BCH 408 S1 BCH 110mm S1 BCH 115mm	PH 7	5 5/8	18 3/4	6 3/4	2 3/8	15 3/4	16 11/16	4 1/2	12 3/8	Four 3/4	110
4 15/16 5 120mm 125mm 130mm	S1 BCH 415 S1 BCH 500 S1 BCH 120mm S1 BCH 125mm S1 BCH 130mm	PH 8	6 3/8	20	7	1 1/2	17 1/4	18 3/16	4 3/4	14	Four 7/8	175.9
5 3/16 5 7/16 5 1/2 135mm 140mm	S1 BCH 503 S1 BCH 507 S1 BCH 508 S1 BCH 135mm S1 BCH 140mm	PH 9	7 1/8	22	7	1 9/16	18 1/2	19 1/2	4 3/4	15 1/2	Four 7/8	201.4
5 15/16 6 150mm 155mm	S1 BCH 515 S1 BCH 600 S1 BCH 150mm S1 BCH 155mm	PH 10	7 1/8	22	7	1 5/8	18 1/2	20 1/2	4 3/4	15 3/4	Four 7/8	224.5

* Specify suffix - FL for Float Bearing

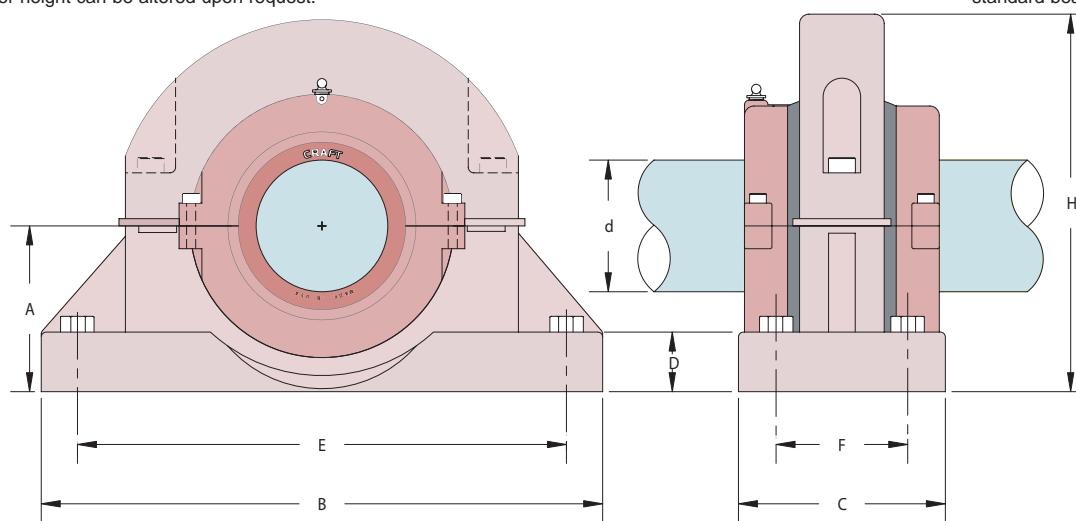
- HD for Held Bearing

** Base to center height can be altered upon request.

Special application bearings are available upon request.

• Housing width only, length through bore reference G.

Dimensions in inches
Normal operating range for
standard bearings is 32°F to 212°F.



S1 SERIES SMALL BORE

CARTRIDGE ASSEMBLY						
Shaft Diameter	Cartridge* Assembly	Cartridge	L	G*	Weight lbs.	Grease Capacity
1 7/16 1 1/2 40mm	S1 BC 107 S1 BC 108 S1 BC 40mm	S1 C 108	3 15/16	3 5/16	6.9	2.0 oz.
1 11/16 1 3/4 1 15/16 2 45mm 50mm 55mm	S1 BC 111 S1 BC 112 S1 BC 115 S1 BC 200 S1 BC 45mm S1 BC 50mm S1 BC 55mm	S1 C 200	4 5/8	3 3/4	9.2	3.2 oz.
2 3/16 2 1/4 2 7/16 2 1/2 60mm 65mm	S1 BC 203 S1 BC 204 S1 BC 207 S1 BC 208 S1 BC 60mm S1 BC 65mm	S1 C 208	5 5/16	4	11.6	5.2 oz.
2 11/16 2 3/4 2 15/16 3 70mm 75mm	S1 BC 211 S1 BC 212 S1 BC 215 S1 BC 300 S1 BC 70mm S1 BC 75mm	S1 C 300	6 3/16	4 3/8	18.5	6.2 oz.
3 3/16 3 1/4 3 7/16 3 1/2 80mm 85mm 90mm	S1 BC 303 S1 BC 304 S1 BC 307 S1 BC 308 S1 BC 80mm S1 BC 85mm S1 BC 90mm	S1 C 308	7	5 3/16	25.5	10.5 oz.
3 11/16 3 3/4 3 15/16 4 100mm 105mm	S1 BC 311 S1 BC 312 S1 BC 315 S1 BC 400 S1 BC 100mm S1 BC 105mm	S1 C 400	8	5 3/16	32.3	12.5 oz.
4 3/16 4 7/16 4 1/2 110mm 115mm	S1 BC 403 S1 BC 407 S1 BC 408 S1 BC 110mm S1 BC 115mm	S1 C 408	9 1/8	5 9/16	48.6	1.2 lbs.
4 15/16 5 120mm 125mm 130mm	S1 BC 415 S1 BC 500 S1 BC 120mm S1 BC 125mm S1 BC 130mm	S1 C 500	10 1/2	6 1/16	71.7	1.4 lbs.
5 3/16 5 7/16 5 1/2 135mm 140mm	S1 BC 503 S1 BC 507 S1 BC 508 S1 BC 135mm S1 BC 140mm	S1 C 508	11	6 9/16	81.1	1.8 lbs.
5 15/16 6 150mm 155mm	S1 BC 515 S1 BC 600 S1 BC 150mm S1 BC 155mm	S1 C 600	11 5/8	6 3/4	97	2.0 lbs.

ROLLER BEARING									
Bearing*	Bearing Rating lbs.			Max. RPM	Do	Wi	Wo	+Available Axial Movement	Weight lbs.
	Dynamic Cr	Static Co	Axial Ca**						
S1 B 107 S1 B 108 S1 B 40mm	13870	15560	285	5420	3.313	1.972	0.938	3/16	2.3
S1 B 111 S1 B 112 S1 B 115 S1 B 200 S1 B 45mm S1 B 50mm S1 B 55mm	15954	18747	272	4460	33.875	2.192	1.000	3/16	3.5
S1 B 203 S1 B 204 S1 B 207 S1 B 208 S1 B 60mm S1 B 65mm	20255	24851	351	3750	4.500	2.192	1.063	5/16	3.5
S1 B 211 S1 B 212 S1 B 215 S1 B 300 S1 B 70mm S1 B 75mm	29843	40077	433	3190	5.250	2.410	1.250	5/16	6.0
S1 B 303 S1 B 304 S1 B 307 S1 B 308 S1 B 80mm S1 B 85mm S1 B 90mm	37552	52749	453	2740	6.000	2.781	1.531	7/16	9.2
S1 B 311 S1 B 312 S1 B 315 S1 B 400 S1 B 100mm S1 B 105mm	51215	73061	552	2400	6.875	3.188	1.781	1/2	13.9
S1 B 403 S1 B 407 S1 B 408 S1 B 110mm S1 B 115mm	63207	94628	654	2140	8.000	3.342	1.844	1/2	20.8
S1 B 415 S1 B 500 S1 B 120mm S1 B 125mm S1 B 130mm	72821	111390	685	1940	8.750	3.531	2.125	9/16	25.5
S1 B 503 S1 B 507 S1 B 508 S1 B 135mm S1 B 140mm	80703	124806	717	1780	9.500	3.875	2.188	5/8	32.4
S1 B 515 S1 B 600 S1 B 150mm S1 B 155mm	87598	141757	762	1670	10.000	3.875	2.188	9/16	37.1

* Specify suffix - FL for Float Bearing

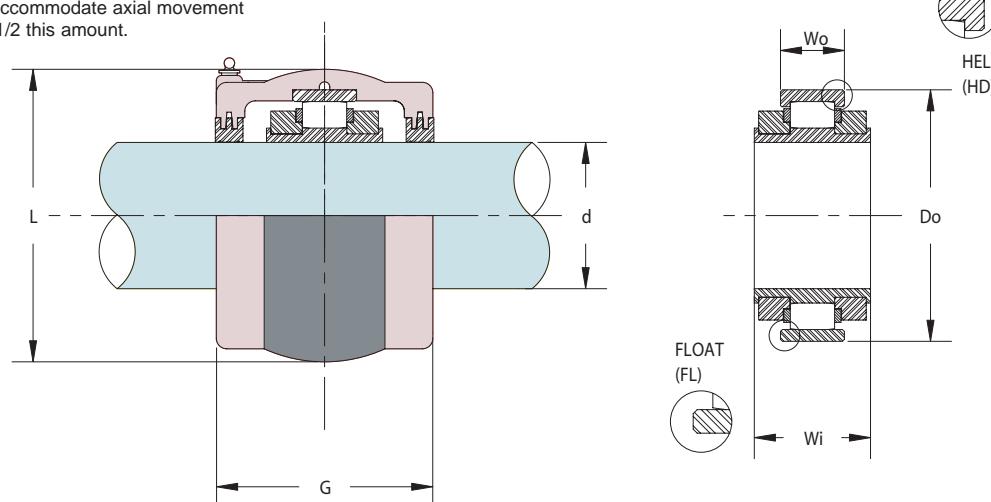
- HD for Held Bearing.

** Based on Axial Capacity at 1000 RPM.

• Length through Bore.

+ Offset from C/L to accommodate axial movement should not exceed 1/2 this amount.

Dimensions in inches



S 1 S E R I E S L A R G E B O R E

MOUNTED UNIT

Shaft Diameter	Complete* Component	Pedestal Housing	A **	B	C*	D	E		F	H	Bolts	Weight lbs.
							Minimum	Maximum				
6 7/16 6 1/2 160mm	S1 BCH 607 S1 BCH 608 S1 BCH 160mm	PH 11	8 3/8	20	7	1 1/4	14	15	4 1/2	17	Four 1	236
6 15/16 7 170mm 180mm	S1 BCH 615 S1 BCH 700 S1 BCH 170mm S1 BCH 180mm	PH 12	9 1/4	21	7 1/2	1 3/8	14 3/4	15 3/4	5	18 1/2	Four 1	283
7 15/16 8 190mm 200mm	S1 BCH 715 S1 BCH 800 S1 BCH 190mm S1 BCH 200mm	PH 13	9 3/4	22 1/2	8	1 1/2	16 1/8	17 1/8	5 1/2	19 1/2	Four 1	321
8 1/2 9 220mm	S1 BCH 808 S1 BCH 900 S1 BCH 220mm	PH 14	10 5/8	25	8 1/2	1 5/8	17 3/8	18 7/8	5 1/2	21 1/4	Four 1 1/4	372
9 1/2 10 240mm	S1 BCH 908 S1 BCH 1000 S1 BCH 240mm	PH 15	11 1/2	27	9	1 3/4	19	20 1/2	5 1/2	23	Four 1 1/4	512
11 260mm 280mm	S1 BCH 1100 S1 BCH 260mm S1 BCH 280mm	PH 16	12 1/4	28 1/2	9	1 7/8	20 1/4	21 3/4	5 1/2	24 1/2	Four 1 1/4	605
12 300mm	S1 BCH 1200 S1 BCH 300mm	PH 17	13 1/2	30	10	2	22 1/4	23 3/4	7	26 3/4	Four 1 1/4	742

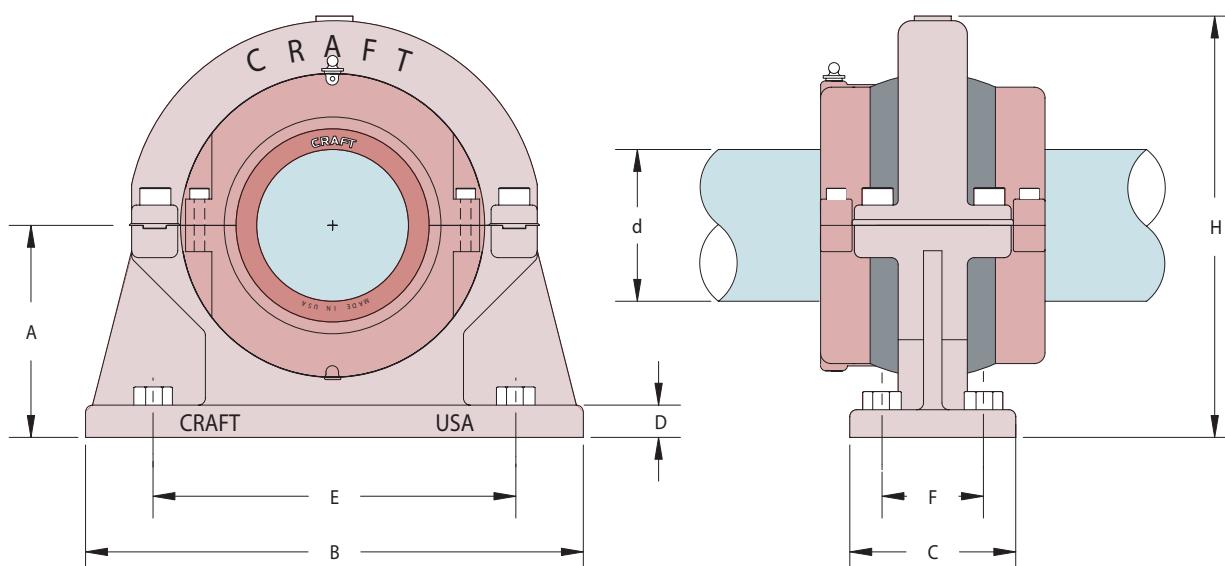
* Specify suffix - FL for Float Bearing
- HD for Held Bearing

** Base to center height can be altered upon request.

Special application bearings are available upon request.

• Housing width only, length through bore reference G.

Dimensions in inches
Normal operating range for
standard bearings is 32°F to 212°F.



S1 SERIES LARGE BORE

CARTRIDGE ASSEMBLY						
Shaft Diameter	Cartridge* Assembly	Cartridge	L	G*	Weight lbs.	Grease Capacity
6 7/16 6 1/2 160mm	S1 BC 607 S1 BC 608 S1 BC 160mm	S1 C 608	12 1/4	7 9/16	110	2.1 lbs.
6 15/16 7 170mm 180mm	S1 BC 615 S1 BC 700 S1 BC 170mm S1 BC 180mm	S1 C 700	12 3/4	7 7/8	137	2.4 lbs.
7 15/16 8 190mm 200mm	S1 BC 715 S1 BC 800 S1 BC 190mm S1 BC 200mm	S1 C 800	14 1/8	7 7/8	151	3.2 lbs.
8 1/2 9 220mm	S1 BC 808 S1 BC 900 S1 BC 220mm	S1 C 900	15 1/4	8 1/2	174	3.3 lbs.
9 1/2 10 240mm	S1 BC 908 S1 BC 1000 S1 BC 240mm	S1 C 1000	16 1/2	8 3/4	227	4.2 lbs.
11 260mm 280mm	S1 BC 1100 S1 BC 260mm S1 BC 280mm	S1 C 1100	17 7/8	9 1/8	279	4.2 lbs.
12 300mm	S1 BC 1200 S1 BC 300mm	S1 C 1200	19 1/4	9 3/4	337	4.4 lbs.

ROLLER BEARING									
Bearing*	Bearing Rating lbs.			Max. RPM	Do	Wi	Wo	+Available Axial Movement	Weight lbs.
	Dynamic Cr	Static Co	Axial Ca**						
S1 B 607 S1 B 608 S1 B 160mm	97258	159049	7993	1420	10.750	4.291	2.375	3/4	47
S1 B 615 S1 B 700 S1 B 170mm S1 B 180mm	104510	178085	8445	1300	11.250	4.291	2.185	1/2	46
S1 B 715 S1 B 800 S1 B 190mm S1 B 200mm	110607	198444	8459	1130	12.250	4.291	2.375	3/4	50
S1 B 808 S1 B 900 S1 B 220mm	121869	223077	8566	970	13.500	4.528	2.500	3/4	63
S1 B 908 S1 B 1000 S1 B 240mm	136054	266300	9280	860	14.750	4.803	2.625	7/8	82
S1 B 1100 S1 B 260mm S1 B 280mm	156486	303690	9679	760	16.000	5.039	2.719	13/16	100
S1 B 1200 S1 B 300mm	163906	331580	9743	680	17.250	5.625	2.938	1	123

* Specify suffix - FL for Float Bearing

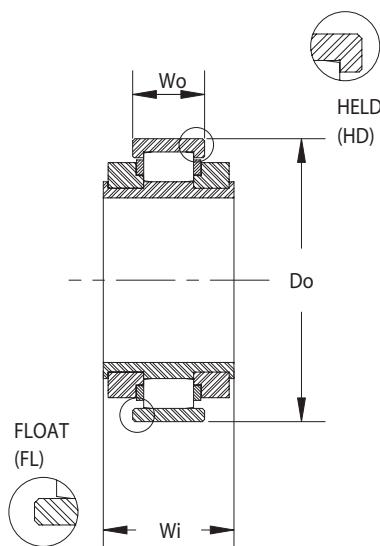
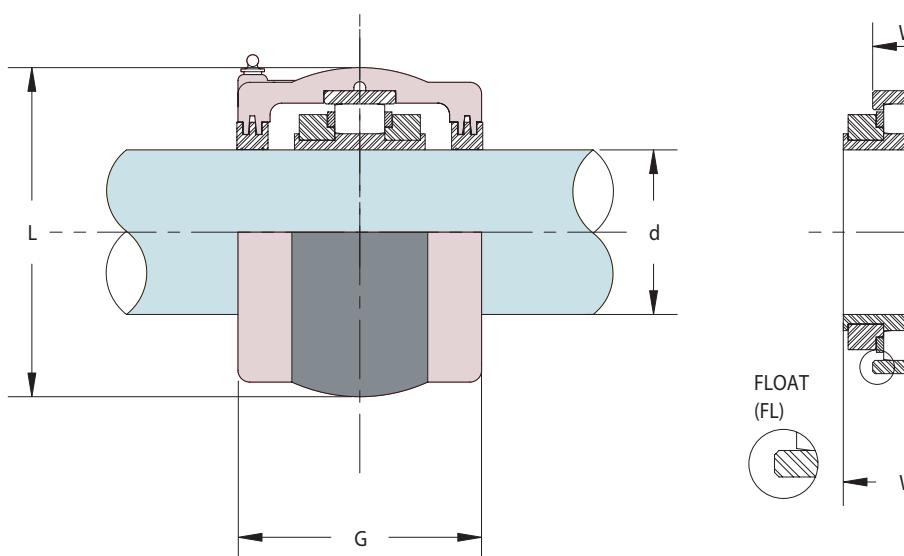
- HD for Held Bearing

** Based on Axial Capacity at 100 RPM.

• Length through Bore.

+ Offset from C/L to accommodate axial movement should not exceed 1/2 this amount.

Dimensions in inches



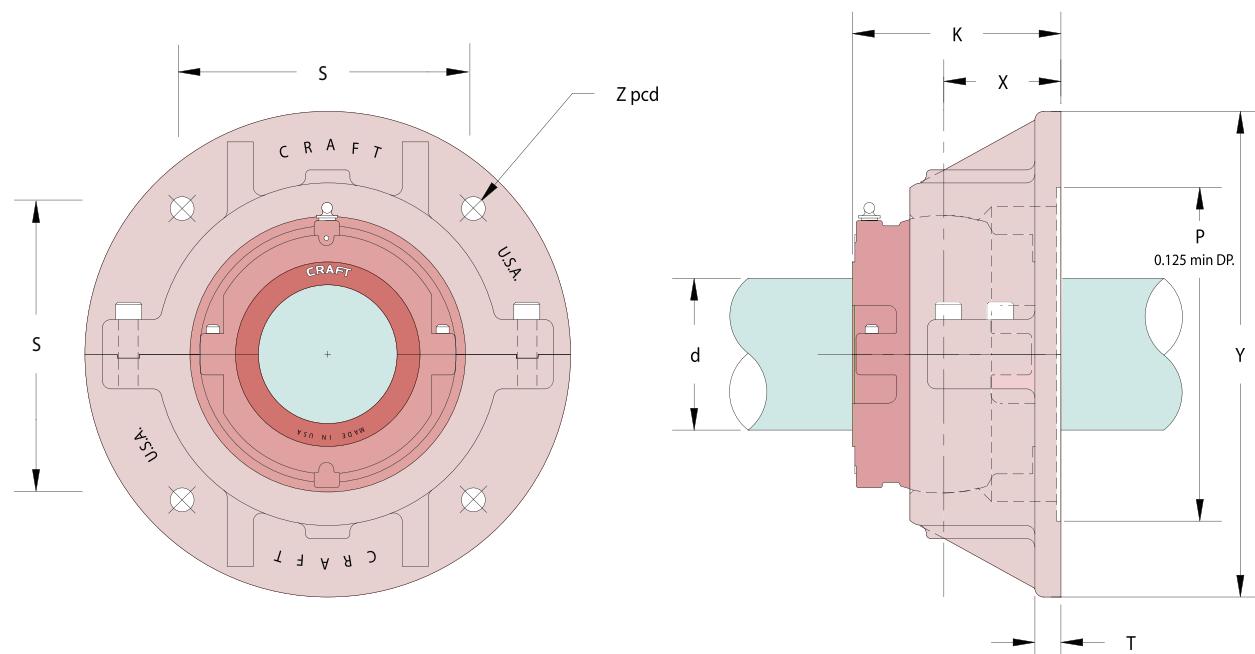
S1 SERIES SMALL BORE FLANGE

FLANGE UNIT

Shaft Diameter	Complete Component*	Flange Housing	Y	K	X	Z	S	T	P	Bolts	Weight lbs.
2 3/16 2 1/4 2 7/16 2 1/2 60mm 65mm	S1 BCF 203 S1 BCF 204 S1 BCF 207 S1 BCF 208 S1 BCF 60mm S1 BCF 65mm	FH 3	10 1/4	4 11/16	2 5/8	8 9/16	6 1/16	5/8	6 9/16	Four 1/2	37
2 11/16 2 3/4 2 15/16 3 70mm 75mm	S1 BCF 211 S1 BCF 212 S1 BCF 215 S1 BCF 300 S1 BCF 70mm S1 BCF 75mm	FH 4	11 1/4	5 1/8	2 7/8	9 9/16	6 3/4	5/8	7 9/16	Four 1/2	53
3 3/16 3 1/4 3 7/16 3 1/2 80mm 85mm 90mm	S1 BCF 303 S1 BCF 304 S1 BCF 307 S1 BCF 308 S1 BCF 80mm S1 BCF 85mm S1 BCF 90mm	FH 5	13	5 13/16	3 1/8	10 3/4	7 5/8	3/4	8 1/2	Four 5/8	80
3 11/16 3 3/4 3 15/16 4 100mm 105mm	S1 BCF 311 S1 BCF 312 S1 BCF 315 S1 BCF 400 S1 BCF 100mm S1 BCF 105mm	FH 6	14	6	3 3/8	11 7/8	8 3/8	3/4	9 5/8	Four 5/8	94
4 3/16 4 7/16 4 1/2 110mm 115mm	S1 BCF 403 S1 BCF 407 S1 BCF 408 S1 BCF 110mm S1 BCF 115mm	FH 7	15	6 7/16	3 5/8	13 1/8	9 5/16	7/8	10 7/8	Four 5/8	122
4 15/16 5 120mm 125mm 130mm	S1 BCF 415 S1 BCF 500 S1 BCF 120mm S1 BCF 125mm S1 BCF 130mm	FH 8	17	6 15/16	3 7/8	14 3/4	10 7/16	7/8	12 3/8	Four 7/8	165
5 3/16 5 7/16 5 1/2 135mm 140mm	S1 BCF 503 S1 BCF 507 S1 BCF 508 S1 BCF 135mm S1 BCF 140mm	FH 9	17 1/2	7 1/8	3 7/8	15 1/8	10 11/16	1	12 1/2	Four 7/8	181
5 15/16 6 150mm 155mm	S1 BCF 515 S1 BCF 600 S1 BCF 150mm S1 BCF 155mm	FH 10	18 1/2	7 15/16	4 1/2	16 1/4	11 1/2	1	13 5/8	Four 1	215

* Specify suffix - FL for Float Bearing
 - HD for Held Bearing
 Special application bearings are available upon request.

Dimensions in inches
 Normal operating range for
 standard bearings is 32°F to 212°F.





S2 SERIES SMALL BORE

MOUNTED UNIT

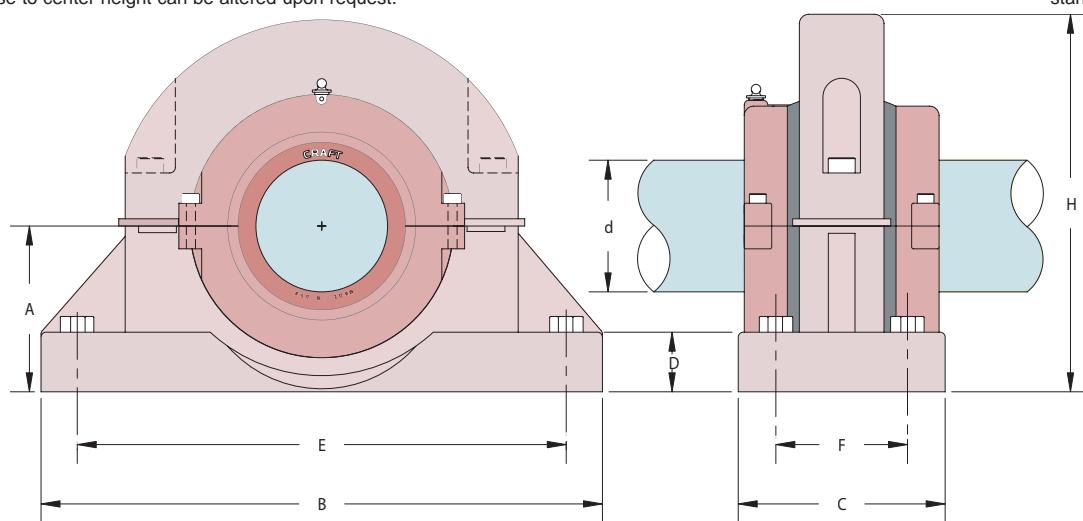
Shaft Diameter	Complete* Component	Pedestal Housing	A **	B	C*	D	E		F	H	Bolts	Weight lbs.
							Minimum	Maximum				
2 3/16 2 1/4 2 7/16 2 1/2 60mm 65mm	S2 BCH 203 S2 BCH 204 S2 BCH 207 S2 BCH 208 S2 BCH 60mm S2 BCH 65mm	PH 4	3 3/4	13	3	1 1/2	10 1/4	11	-	7 7/8	Two 3/4	39
2 11/16 2 3/4 2 15/16 3 70mm 75mm	S2 BCH 211 S2 BCH 212 S2 BCH 215 S2 BCH 300 S2 BCH 70mm S2 BCH 75mm	PH 5 (2B)	4 13/32	15	3 1/2	1 3/4	12 3/16	13 3/16	...	10 1/16	Two 3/4	66.6
2 11/16 2 3/4 2 15/16 3 70mm 75mm	S2 BCH 211 S2 BCH 212 S2 BCH 215 S2 BCH 300 S2 BCH 70mm S2 BCH 75mm	PH 5 (4B)	4 13/32	15	5 1/2	1 3/4	12 3/8	13 3/8	3 1/2	10 1/16	Four 3/4	74
3 3/16 3 1/4 3 7/16 3 1/2 80mm 85mm 90mm	S2 BCH 303 S2 BCH 304 S2 BCH 307 S2 BCH 308 S2 BCH 80mm S2 BCH 85mm S2 BCH 90mm	PH 6 (2B)	4 15/16	16 3/4	4 1/4	2	13 1/2	14 7/8	...	10 3/4	Two 3/4	79.2
3 3/16 3 1/4 3 7/16 3 1/2 80mm 85mm 90mm	S2 BCH 303 S2 BCH 304 S2 BCH 307 S2 BCH 308 S2 BCH 80mm S2 BCH 85mm S2 BCH 90mm	PH 6 (4B)	4 15/16	16 3/4	6	2	14	15	4	10 3/4	Four 3/4	88
3 11/16 3 3/4 3 15/16 4 100mm 105mm	S2 BCH 311 S2 BCH 312 S2 BCH 315 S2 BCH 400 S2 BCH 100mm S2 BCH 105mm	PH 7	5 5/8	18 3/4	6 3/4	2 3/8	15 3/4	16 11/16	4 1/2	12 3/8	Four 3/4	118
4 3/16 4 7/16 4 1/2 110mm 115mm	S2 BCH 403 S2 BCH 407 S2 BCH 408 S2 BCH 110mm S2 BCH 115mm	PH 8	6 3/8	20	7	1 1/2	17 1/4	18 3/16	4 3/4	14	Four 7/8	180
4 15/16 5 120mm 125mm 130mm	S2 BCH 415 S2 BCH 500 S2 BCH 120mm S2 BCH 125mm S2 BCH 130mm	PH 10	7 1/8	22	7	1 5/8	18 1/2	20 1/2	4 3/4	15 3/4	Four 7/8	234
5 3/16 5 7/16 5 1/2 140mm	S2 BCH 503 S2 BCH 507 S2 BCH 508 S2 BCH 140mm	PH 20	8	24	7	2	21	22	4 3/4	18	Four 1	320
5 15/16 6 150mm 155mm	S2 BCH 515 S2 BCH 600 S2 BCH 150mm S2 BCH 155mm	PH 21	8 1/4	25	8	2	21 1/2	22 1/2	5	18	Four 1	374

* Specify suffix - FL for Float Bearing
- HD for Held Bearing

** Base to center height can be altered upon request.

Special application bearings are available upon request.
• Housing width only, length through bore reference G.

Dimensions in inches
Normal operating range for
standard bearings is 32°F to 212°F.



S2 SERIES SMALL BORE

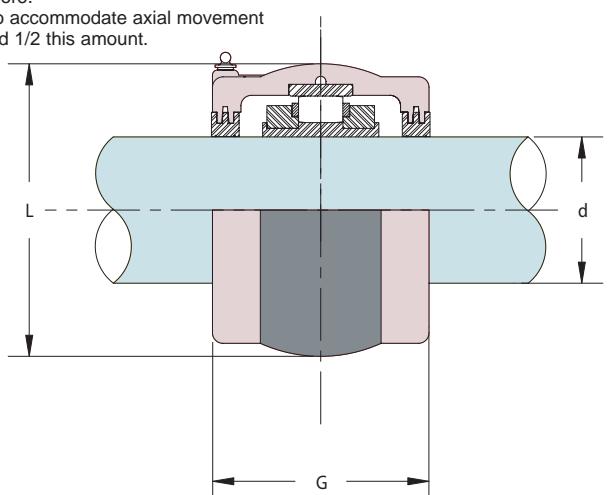
CARTRIDGE ASSEMBLY						
Shaft Diameter	Cartridge* Assembly	Cartridge	L	G*	Weight lbs.	Grease Capacity
2 3/16 2 1/4 2 7/16 2 1/2 60mm 65mm	S2 BC 203 S2 BC 204 S2 BC 207 S2 BC 208 S2 BC 60mm S2 BC 65mm	S2 C 208	6 3/16	4 15/16	24.2	7.6 oz.
2 11/16 2 3/4 2 15/16 3 70mm 75mm	S2 BC 211 S2 BC 212 S2 BC 215 S2 BC 300 S2 BC 70mm S2 BC 75mm	S2 C 300	7	5 1/2	34	10.5 oz.
3 3/16 3 1/4 3 7/16 3 1/2 80mm 85mm 90mm	S2 BC 303 S2 BC 304 S2 BC 307 S2 BC 308 S2 BC 80mm S2 BC 85mm S2 BC 90mm	S2 C 308	8	5 3/4	41.3	1.1 lbs.
3 11/16 3 3/4 3 15/16 4 100mm 105mm	S2 BC 311 S2 BC 312 S2 BC 315 S2 BC 400 S2 BC 100mm S2 BC 105mm	S2 C 400	9 1/8	5 3/4	58	1.4 lbs.
4 3/16 4 7/16 4 1/2 110mm 115mm	S2 BC 403 S2 BC 407 S2 BC 408 S2 BC 110mm S2 BC 115mm	S2 C 408	10 1/2	6 3/8	77.2	2.0 lbs.
4 15/16 5 120mm 125mm 130mm	S2 BC 415 S2 BC 500 S2 BC 120mm S2 BC 125mm S2 BC 130mm	S2 C 500	11 5/8	7 1/4	111.5	2.5 lbs.
5 3/16 5 7/16 5 1/2 140mm	S2 BC 503 S2 BC 507 S2 BC 508 S2 BC 140mm	S2 C 508	12 3/4	7 3/8	138.3	3.0 lbs.
5 15/16 6 150mm 155mm	S2 BC 515 S2 BC 600 S2 BC 150mm S2 BC 155mm	S2 C 600	13 1/4	7 15/16	162	3.0 lbs.

* Specify suffix - FL for Float Bearing
- HD for Held Bearing

** Based on Axial Capacity at 1000 RPM.

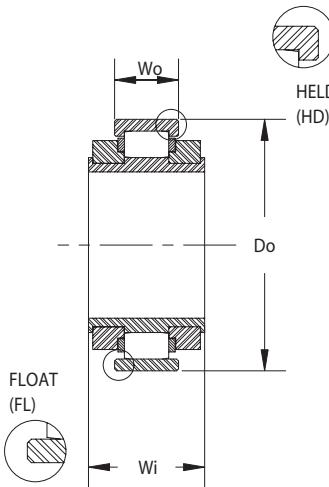
• Length through Bore.

+ Offset from C/L to accommodate axial movement
should not exceed 1/2 this amount.



ROLLER BEARING									
Bearing*	Bearing Rating Ibs.			Max. RPM	Do	Wi	Wo	+Available Axial Movement	Weight lbs.
	Dynamic Cr	Static Co	Axial Ca**						
S2 B 203 S2 B 204 S2 B 207 S2 B 208 S2 B 60mm S2 B 65mm	33580	42860	473	3450	5.000	2.844	1.531	7/16	7.7
S2 B 211 S2 B 212 S2 B 215 S2 B 300 S2 B 70mm S2 B 75mm	45420	59250	561	2930	5.875	3.250	1.813	1/2	12.1
S2 B 303 S2 B 304 S2 B 307 S2 B 308 S2 B 80mm S2 B 85mm S2 B 90mm	57430	79580	666	2550	6.688	3.528	1.906	9/16	17.6
S2 B 311 S2 B 312 S2 B 315 S2 B 400 S2 B 100mm S2 B 105mm	74130	105015	761	2230	7.625	3.622	2.031	1/2	21.8
S2 B 403 S2 B 407 S2 B 408 S2 B 110mm S2 B 115mm	91410	131140	857	1980	9.000	3.938	2.250	1/2	38.9
S2 B 415 S2 B 500 S2 B 120mm S2 B 125mm S2 B 130mm	111320	162690	951	1780	10.000	4.500	2.500	5/8	55
S2 B 503 S2 B 507 S2 B 508 S2 B 140mm	133640	197690	1060	1630	10.750	4.625	2.625	5/8	58.3
S2 B 515 S2 B 600 S2 B 150mm S2 B 155mm	147260	229200	1137	1450	11.500	4.875	2.688	5/8	70.4

Dimensions in inches





S 2 S E R I E S L A R G E B O R E

M O U N T E D U N I T

Shaft Diameter	Complete* Component	Pedestal Housing	A **	B	C°	D	E		F	H	Bolts	Weight lbs.
							Minimum	Maximum				
6 7/16 6 1/2 160mm 170mm	S2 BCH 607 S2 BCH 608 S2 BCH 160mm S2 BCH 170mm	PH 22	10 1/2	23 1/2	9 1/2	1 3/4	16 7/8	18 3/8	6 3/4	21	Four 1 1/4	407
6 15/16 7 180mm	S2 BCH 615 S2 BCH 700 S2 BCH 180mm	PH 23	10 3/4	25	9 1/2	1 3/4	17 1/4	18 3/4	6 1/2	21 1/2	Four 1 1/4	478
7 15/16 8 190mm 200mm	S2 BCH 715 S2 BCH 800 S2 BCH 190mm S2 BCH 200mm	PH 24	12	27	10 1/2	2	19 1/4	20 3/4	7 1/2	23 7/8	Four 1 1/4	646
8 1/2 9 220mm	S2 BCH 808 S2 BCH 900 S2 BCH 220mm	PH 25	12 3/4	29 1/2	11	2	20 7/8	22 3/8	7 1/2	25 1/4	Four 1 1/2	807
10 240mm 260mm	S2 BCH 1000 S2 BCH 240mm S2 BCH 260mm	PH 26	14	32	11 1/2	2 1/8	22 3/4	24 1/4	8	28	Four 1 1/4	938
11 280mm	S2 BCH 1100 S2 BCH 280mm	PH 27	14 7/8	36	13	2 3/8	20 1/4 28 1/4	21 3/4 29 3/4	10	30	Eight 1 1/4	1126
12 300mm	S2 BCH 1200 S2 BCH 300mm	PH 28	15 1/2	37 3/4	13	2 3/8	21 1/2 29 1/2	23 31	10	31	Eight 1 1/4	1295

* Specify suffix - FL for Float Bearing

- HD for Held Bearing

** Base to center height can be altered upon request.

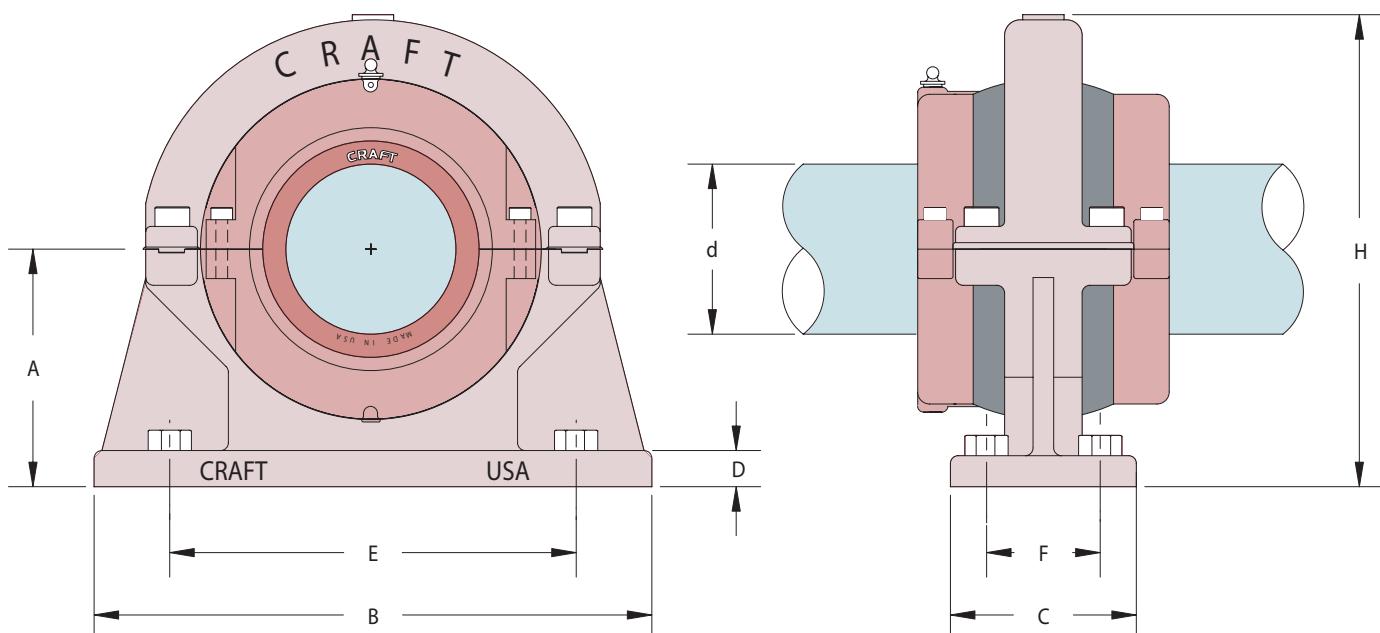
Special application bearings are available upon request.

• Housing width only, length through bore reference G.

Dimensions in inches

Normal operating range for

standard bearings is 32°F to 212°F.



S2 SERIES LARGE BORE

CARTRIDGE ASSEMBLY						
Shaft Diameter	Cartridge* Assembly	Cartridge	L	G*	Weight lbs.	Grease Capacity
6 7/16 6 1/2 160mm 170mm	S2 BC 607 S2 BC 608 S2 BC 160mm S2 BC 170mm	S2 C 608	14 1/2	9 1/8	231	3.2 lbs.
6 15/16 7 180mm	S2 BC 615 S2 BC 700 S2 BC 180mm	S2 C 700	15	9 1/2	268	4.3 lbs.
7 15/16 8 190mm 200mm	S2 BC 715 S2 BC 800 S2 BC 190mm S2 BC 200mm	S2 C 800	16 3/4	10 1/16	345	5.9 lbs.
8 1/2 9 220mm	S2 BC 808 S2 BC 900 S2 BC 220mm	S2 C 900	18	10 13/16	364	8.0 lbs.
10 240mm 260mm	S2 BC 1000 S2 BC 240mm S2 BC 260mm	S2 C 1000	19 1/2	11 1/16	440	8.9 lbs.
11 280mm	S2 BC 1100 S2 BC 280mm	S2 C 1100	20 3/4	11 13/16	525	10.4 lbs.
12 300mm	S2 BC 1200 S2 BC 300mm	S2 C 1200	21 3/4	12 1/16	600	11.8 lbs.

ROLLER BEARING										
Bearing*	Bearing Rating lbs.			Max. RPM	Do	Wi	Wo	+Available Axial Movement	Weight lbs.	
	Dynamic Cr	Static Co	Axial Ca*							
S2 B 607 S2 B 608 S2 B 160mm S2 B 170mm	156150	237650	10900	1300	12.500	5.500	3.281	1	93.5	
S2 B 615 S2 B 700 S2 B 180mm	173550	258410	11910	1210	13.000	5.500	3.281	1	110	
S2 B 715 S2 B 800 S2 B 190mm S2 B 200mm	199920	325750	12490	1040	14.500	6.141	3.563	1-1/8	134	
S2 B 808 S2 B 900 S2 B 220mm	216740	371520	13040	930	15.500	6.402	3.563	1-1/8	148	
S2 B 1000 S2 B 240mm S2 B 260mm	247490	431020	13760	830	17.000	6.668	3.813	1-1/8	187	
S2 B 1100 S2 B 280mm	281170	496240	14600	750	18.250	7.323	4.000	1-1/8	209	
S2 B 1200 S2 B 300mm	301890	557180	15180	690	19.500	7.594	4.063	1-3/16	297	

* Specify suffix - FL for Float Bearing

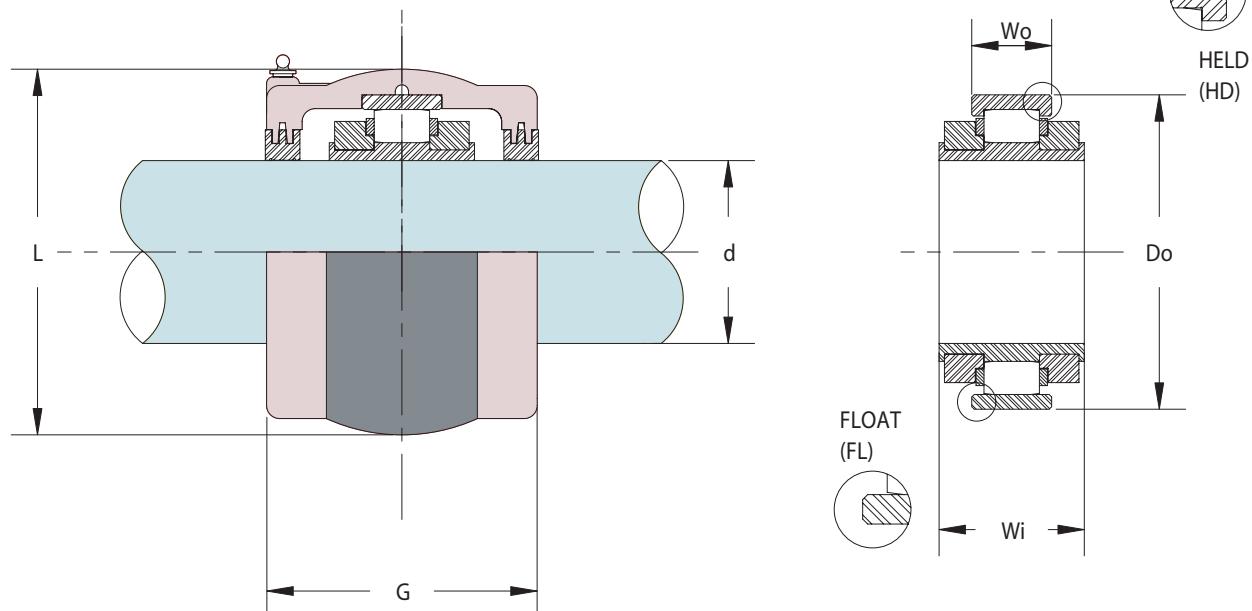
- HD for Held Bearing

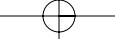
** Based on Axial Capacity at 100 RPM.

- Length through Bore.

- + Offset from C/L to accommodate axial movement should not exceed 1/2 this amount.

Dimensions in inches





S2 SERIES SMALL BORE FLANGE

FLANGE UNIT

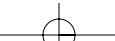
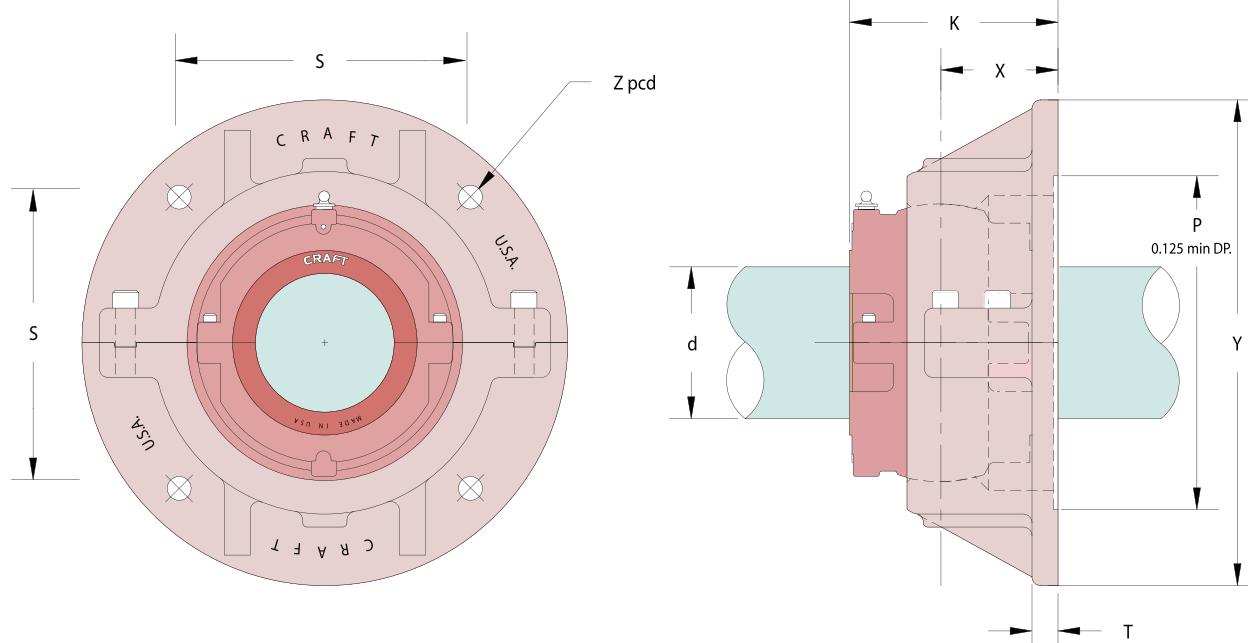
Shaft Diameter	Complete Component*	Flange Housing	Y	K	X	Z	S	T	P	Bolts	Weight lbs.
2 3/16 2 1/4 2 7/16 2 1/2 60mm 65mm	S2 BCF 203 S2 BCF 204 S2 BCF 207 S2 BCF 208 S2 BCF 60mm S2 BCF 65mm	FH 4	11 1/4	5 3/8	2 7/8	9 9/16	6 3/4	5/8	7 9/16	Four 1/2	49
2 11/16 2 3/4 2 15/16 3 70mm 75mm	S2 BCF 211 S2 BCF 212 S2 BCF 215 S2 BCF 300 S2 BCF 70mm S2 BCF 75mm	FH 5	13	5 7/8	3 1/8	10 3/4	7 5/8	3/4	8 1/2	Four 5/8	69
3 3/16 3 1/4 3 7/16 3 1/2 80mm 85mm 90mm	S2 BCF 303 S2 BCF 304 S2 BCF 307 S2 BCF 308 S2 BCF 80mm S2 BCF 85mm S2 BCF 90mm	FH 6	14	6 1/4	3 3/8	11 7/8	8 3/8	3/4	9 5/8	Four 5/8	96
3 11/16 3 3/4 3 15/16 4 100mm 105mm	S2 BCF 311 S2 BCF 312 S2 BCF 315 S2 BCF 400 S2 BCF 100mm S2 BCF 105mm	FH 7	15	6 1/2	3 5/8	13 1/8	9 1/4	7/8	10 7/8	Four 5/8	119
4 3/16 4 7/16 4 1/2 110mm 115mm	S2 BCF 403 S2 BCF 407 S2 BCF 408 S2 BCF 110mm S2 BCF 115mm	FH 8	17	7 1/16	3 7/8	14 3/4	10 7/16	7/8	12 3/8	Four 7/8	191
4 15/16 5 120mm 125mm 130mm	S2 BCF 415 S2 BCF 500 S2 BCF 120mm S2 BCF 125mm S2 BCF 130mm	FH 10	18 1/2	8 1/8	4 1/2	16 1/4	11 1/2	1	13 5/8	Four 1	242
5 3/16 5 7/16 5 1/2 140mm	S2 BCF 503 S2 BCF 507 S2 BCF 508 S2 BCF 140mm	FH 20	20	8 3/16	4 3/8	17 1/2	12 3/8	1	14 7/8	Four 1	290
5 15/16 6 150mm	S2 BCF 515 S2 BCF 600 S2 BCF 150mm	FH 21	21	8 7/8	4 7/8	18 3/8	13	1	15 1/2	Four 1	340

*Specify suffix - FL for Float Bearing

- HD for Held Bearing

Special application bearings are available upon request.

Dimensions in inches
Normal operating range for
standard bearings is 32°F to 212°F.





S3 SERIES LARGE BORE

MOUNTED UNIT

Shaft Diameter	Complete* Component	Pedestal Housing	A **	B	C*	D	E		F	H	Bolts	Approximate Weight lbs.
							Minimum	Maximum				
5 5/16 6 150mm 155mm	S3 BCH 515 S3 BCH 600 S3 BCH 150mm S3 BCH 155mm	PH 310	10	26 1/4	8	2 1/4	21 1/4	22 3/4	4 3/4	21	Four 1 1/4	698
6 7/16 6 1/2 160mm 170mm	S3 BCH 607 S3 BCH 608 S3 BCH 170mm S3 BCH 160mm	PH 311	10 1/2	29	9	2 3/8	24	25 1/2	5 1/2	22 1/2	Four 1 1/4	788
6 15/16 7 180mm	S3 BCH 615 S3 BCH 700 S3 BCH 180mm	PH 312	11	30	10	2 1/2	24 1/4	25 3/4	6	22 7/8	Four 1 1/4	890
7 15/16 8 190mm 200mm	S3 BCH 715 S3 BCH 800 S3 BCH 190mm S3 BCH 200mm	PH 313	12 1/4	33	10 1/2	2 5/8	24 1/4	25 3/4	6 3/4	25 3/4	Four 1 1/2	1189
8 1/2 9 220mm	S3 BCH 808 S3 BCH 900 S3 BCH 220mm	PH 314	13 3/4	37 1/2	11	3	28 1/4	29 3/4	7	28 3/4	Four 1 3/4	1659
9 1/2 10 240mm 260mm	S3 BCH 908 S3 BCH 1000 S3 BCH 240mm S3 BCH 260mm	PH 315	15 1/2	36	16	3	25 5/8	27 1/8	12	31	Four 1 3/4	1890
11 280mm	S3 BCH 1100 S3 BCH 280mm	PH 316	14 1/2	37	11	2 3/4	19 28 1/2	20 1/2 30	7	30 3/4	Eight 1 1/2	1386
12 300mm	S3 BCH 1200 S3 BCH 300mm	PH 317	18	43	16 1/2	3	25 3/4 33 3/4	27 1/4 35 1/4	13	36	Eight 1 1/2	2625

* Specify suffix - FL for Float Bearing

- HD for Held Bearing

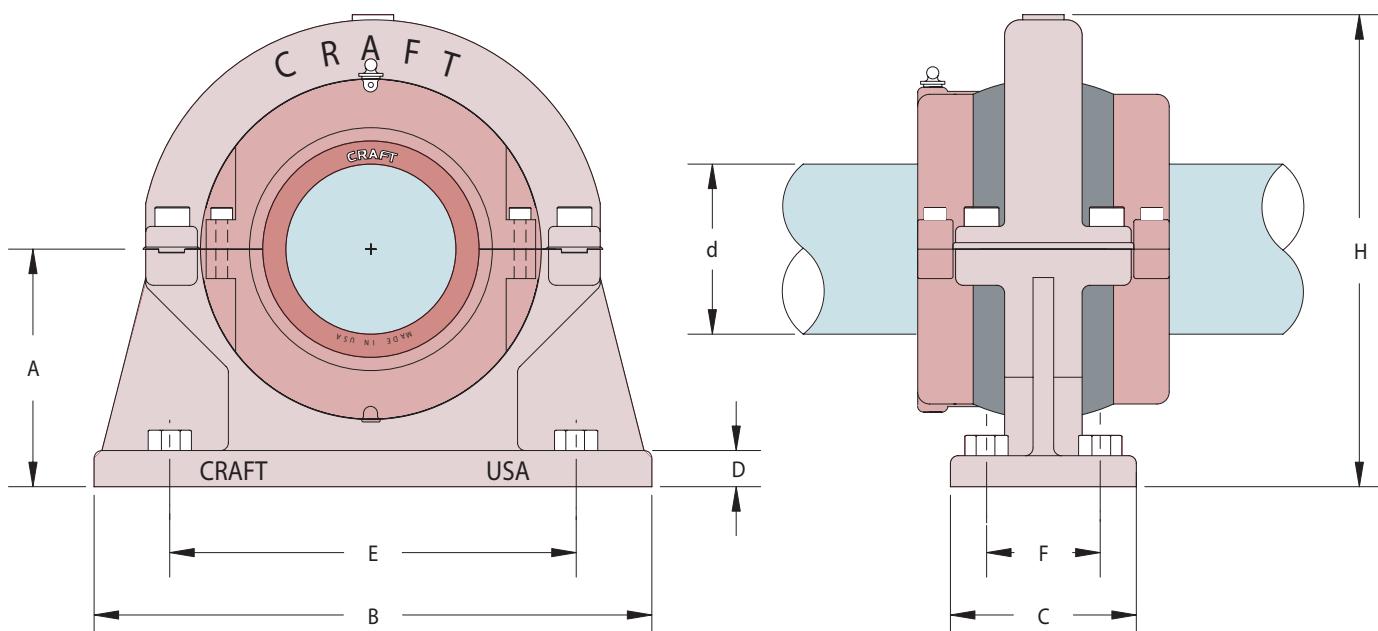
** Base to center height can be altered upon request.

Special application bearings are available upon request.

• Housing width only, length through bore reference G.

Dimensions in inches

Normal operating range for standard bearings is 32°F to 212°F.



S3 SERIES LARGE BORE

CARTRIDGE ASSEMBLY						
Shaft Diameter	Cartridge* Assembly	Cartridge	L	G*	Weight lbs.	Grease Capacity
5 5/16 6 150mm 155mm	S3 BC 515 S3 BC 600 S3 BC 150mm S3 BC 155mm	S3 C 600	15 1/2	10	305	6.2 lbs.
6 7/16 6 1/2 160mm 170mm	S3 BC 607 S3 BC 608 S3 BC 170mm S3 BC 160mm	S3 C 608	16 5/8	10 9/16	368	8.4 lbs.
6 15/16 7 180mm	S3 BC 615 S3 BC 700 S3 BC 180mm	S3 C 700	17	11 3/16	398	9.7 lbs.
7 15/16 8 190mm 200mm	S3 BC 715 S3 BC 800 S3 BC 190mm S3 BC 200mm	S3 C 800	19 1/4	11 13/16	514	12.3 lbs.
8 1/2 9 220mm	S3 BC 808 S3 BC 900 S3 BC 220mm	S3 C 900	21 1/2	13 3/16	719	15.2 lbs.
9 1/2 10 240mm 260mm	S3 BC 908 S3 BC 1000 S3 BC 240mm S3 BC 260mm	S3 C 1000	22	13 3/16	747	18.4 lbs.
11 280mm	S3 BC 1100 S3 BC 280mm	S3 C 1100	22 1/2	14 1/16	927	22.3 lbs.
12 300mm	S3 BC 1200 S3 BC 300mm	S3 C 1200	25 1/4	14 9/16	1123	24.7 lbs.

* Specify suffix - FL for Float Bearing

- HD for Held Bearing

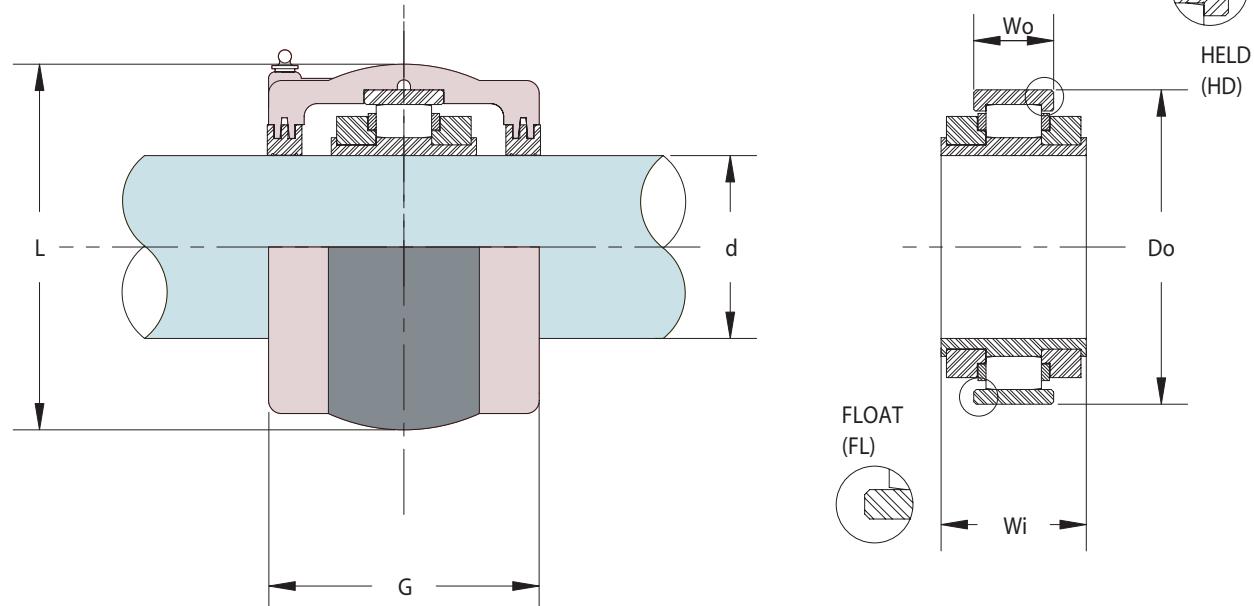
**Based on Axial Capacity at 100 RPM.

• Length through Bore.

+ Offset from C/L to accommodate axial movement should not exceed 1/2 this amount.

ROLLER BEARING									
Bearing*	Bearing Rating lbs.			Max. RPM	Do	Wi	Wo	+Available Axial Movement	Weight lbs.
	Dynamic Cr	Static Co	Axial Ca**						
S3 B 515 S3 B 600 S3 B 150mm S3 B 155mm	237324	339894	15892	1407	13.000	6.299	3.813	1	131
S3 B 607 S3 B 608 S3 B 170mm S3 B 160mm	237082	360353	15456	1304	14.000	6.720	4.063	1	169
S3 B 615 S3 B 700 S3 B 180mm	250834	385051	15607	1228	14.750	7.008	4.280	1-1/8	184
S3 B 715 S3 B 800 S3 B 190mm S3 B 200mm	318038	497143	17840	1104	16.500	7.520	4.656	1-1/8	244
S3 B 808 S3 B 900 S3 B 220mm	327141	502263	15981	972	18.500	8.346	5.185	1-1/8	342
S3 B 908 S3 B 1000 S3 B 240mm	336590	592300	17816	922	19.000	8.307	4.906	1-1/8	347
S3 B 1100 S3 B 260mm S3 B 280mm	438057	759239	19359	869	19.500	9.606	5.500	1-3/16	428
S3 B 1200 S3 B 300mm	443219	765668	19519	786	22.000	9.606	5.500	1-11/16	551

Dimensions in inches





APPLICATIONS IN VARIOUS INDUSTRIES FOR CRAFT SPLIT ROLLER BEARINGS

Craft Split Roller Bearings are predominately used in the heavier end of industry—where a high degree of reliability and a minimum of maintenance and downtime are required. These demanding applications include iron, steel, and other primary metals; mining, quarries, marine propulsion, power generation, lumber and veneer manufacturing; glass manufacturing, auto assembly plants, food, chemical, oil refineries, water and wastewater treatment, and paper making, to name a few. The following represents some of the numerous types of machinery and industries where our split bearings are of benefit to your bottom line.

Mining/Aggregate/Asphalt/Ready Mix: Cleaning, processing, general mineral extraction: Fans, conveyors, bucket elevators, mine hoist gearing, crushers and pulverizers, floatation cells, ball and rod mills, pug mills, cage mills, hammer mills, reciprocating screens, gen sets, etc.

Iron and Steel: Coal crushers, drag conveyors, roll out tables, cooling beds, transfer beds, mill drives, cranes, bag house fans, primary air fans, charging car conveyors, etc.

Cement Production: Clinker crushers, clinker coolers, conveyors, fans (bag house, etc.), bucket elevators, ball and rod mills.

Marine: Fans, propulsion shafting, gearboxes, winches, on board conveyors.

Sugar, Beet and Cane: Cane knives, carriers and feeders, shredders, crushers, belt conveyors, line shafts, washers, fans, press rolls, pulp shredders, bucket elevators.

Flour Mills: Line shafting, fans, bucket elevators, man lift.

Large electric motors (mill drives, etc.) and generator sets for auxiliary/emergency power.

Pulp and Paper: Mixers, conveyors, agitators, fans, log decks, chip conveyors, wood hogs, calendar and press rolls, paper drying cylinders, re-winders, line shafting, hydra-pulpers.

Lumber: Dry kilns and OSB ovens, log decks, chain and belt conveyors, fans, wood hogs, grinders, etc. - in dimensional lumber, chipboard, OSB, and plywood veneer plants.

Power Generation: Ball Mills, FD and HD fans, belt conveyors, barge unloaders, crushers, pulverizers, coal breakers, generator sets, pumps, **horizontal/vertical hydro generators.**

Water and Wastewater Treatment: Paddle wheel and rocker arm mechanical flocculators, rotary and disc aerators, RBC's, CBC's, tank scrapers, rotary screens, sludge presses, conveyors, fans, pumps, etc.

Chemical, Pharmaceutical, Petro-chemical, etc.: Fin fans, air handlers, pumps, line shafts, conical, vee and double cone dryers, vacuum dryers, ribbon and paddle blenders, others.

Food Processing: Bottle washers, canning machines, steamers and cookers, steam peelers, cereal dryers, fans, hammermills and grinders, conveyors, etc.

5000 Chestnut Avenue • Newport News, Virginia 23605

phone 757-247-6000 • fax 757-247-6300

website www.craftbearing.com



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phone 757-247-6000 • fax 757-247-6300

A P P L I C A T I O N D A T A S H E E T

Equipment type/application: _____

Shaft diameter: _____ Current bearing type and model number: _____

Shaft speed: _____ Motor H.P. _____ Ambient temperature: _____

Type of drive: Direct drive Belt drive Gear drive Gear reduction (Ratio)

Radial load: _____ Axial load: _____ Shaft temperature: _____

Service duty (24/7, etc.): _____ Life requirements: _____

Environment: Dirty Wet Caustic Acidic Neutral

Additional Information for Fan Application: Single inlet, over hung load: _____

Double inlet, center hung load: _____ Wheel and shaft weight: _____

Air temperature inside fan: _____ Fan Inlet diameter: _____

Static pressure in inches of water (fan spec sheet) _____ (S.P.W.G.)

Comments, special considerations, return contact information:

Feel free to contact Craft if you have any questions or we may be of further service.

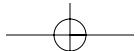
THANK YOU.

C R A F T S P L I T R O L L E R B E A R I N G S

MADE IN THE U.S.A.

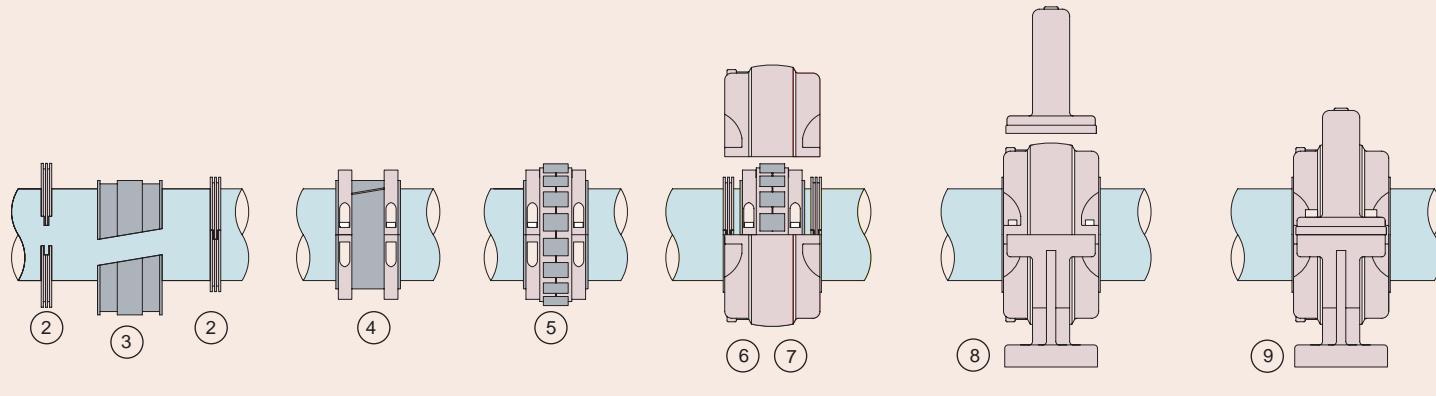
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INSTALLATION



Reference Assembly Instructions below

ASSEMBLY PREPARATION

Confirm proper bearing selection has been made. Check shaft journal for roundness and size (as a general guide, +.000" to -.005" on diameter is acceptable). Ensure that the bearing and surrounding work areas are free of dirt and other contaminants.

ASSEMBLY (SEE DRAWINGS ABOVE)

- Dismantle pillow block and clean bearing parts with a government-approved solvent. It is not necessary to remove outer race from cartridge.
- Apply grease between the o-ring centers before assembling the Triple Labyrinth (TL) seals. Install the TL seals and move to the outer perimeter of the bearing journal.
- Position inner race in proper location observing matching marks.
- Fit the clamping collars at approximately 45 degrees from the inner race joints, insuring that there is an equal gap at the inner race joints. Tap down clamping collars with a mallet and tighten the high tensile screws equally, repeating until collars are properly seated.
- Remove packing fasteners and ensure that provided "nyloc" screws are used to secure cage halves at joints. Coat the inner race and roller cage assembly with liberal amounts of

(DISASSEMBLY IS THE REVERSE)

- grease. Install roller cage assembly, making sure that the cage clips or "nyloc" screws are securely in place.
- Position seals so that they are in alignment with the grooves of the cartridge. Apply grease to the two grooves that form the outside diameter of the seals. This serves two functions: 1. To lubricate the running surfaces of the seals and cartridge. 2. To seal bearing and stop contaminates from working their way through the labyrinth and entering the bearing.
- At this time, coat the running surface of the outer race with grease. Never assemble bearing dry, load carrying surfaces must be lubricated during assembly. Check cartridge match marks carefully, then assemble cartridge.
- After cartridge halves are assembled, coat the spherical outside diameter of the cartridge and the bore of the housing with a graphite compound. Introduce the required amount of lubricant into the cartridge assembly.
- Place the housing base into position, insuring that the bottom of the base is level and supported 100%. Install the housing cap. Rotate the shaft to align the cartridge assembly within the housing. Tighten the housing cap screws.

NOTE Before shafting is jacked up, all housing cap bolts should be backed off.

Warranty

Craft Bearing Company, Inc. will replace or repair any part or parts of Craft bearings that fail due to defective materials or workmanship that are returned to its factory within one year of delivery to the original purchaser. This constitutes Craft's only warranty in connection with the sale, is in lieu of all other warranties, expressed or implied, oral or written, and Craft shall have no responsibility for consequential or other damages. No employee, distributor, or agent is authorized to give any other warranty on behalf of Craft.

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