Sleevoil® bearings
Features/Benefits

General operating characteristics

Though originally designed for the exacting requirements of the air handling industry, R series Sleevoil pillow blocks are suitable for a wide range of industrial applications where a precision built, split, babbitted, ring-oiled Bearing is required which is self aligning and quiet in operation.

Sleevoil pillow blocks have good cooling capabilities. Water cooled (WC) and externally cooled (XC) types operate at higher speeds and load ranges than plain units and function well near high temperature sources.

For standard Sleevoil Bearings, the shaft tolerance is +0.000. / -0.051 millimeters (+0.000. / -0.002 inches) with a surface finish of 0.8 micrometres or better.

Where Sleevoil bearings are currently used

- Fans & Blowers
- Generators
- Test Stands
- Pumps
- Motors
- Dynamometers
- Compressors
- Turbines

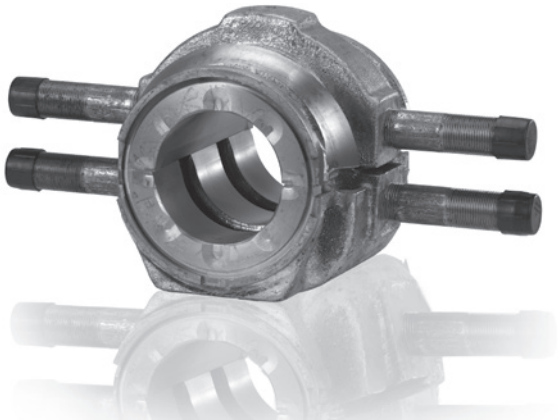
Features and benefits Sleevoil

- **Fully split** housing for trouble-free assembly and disassembly
- **Rugged construction** using gray iron housing and liner for durability
- **Babbitt lining** offers conformability and shaft protection
- **Completely self-aligning** as a result of ball and socket mounting between liner and base
- **Dependable oil ring lubrication** with self-contained oil supply
- **Convenient oil gage** can be positioned on either side of housing
- **Proven reliability** and dependable performance guard against catastrophic failures.
- **Extended life** is a plus with no metal-to-metal contact during operation. More than ten times the theoretical life of anti-friction Bearings
- **High speed capabilities** because of self-pressurized full oil film
- **Adequate vibration dampening** is handled by the hydrodynamic oil film which absorbs shock
- **Effective heat transfer** accomplished by journal surrounded by improved coolant chambers
- **Quiet operation** accomplished by full separation of mating parts

Sleevoil® bearings
Features/Benefits

Sleevoil
R series pillow block

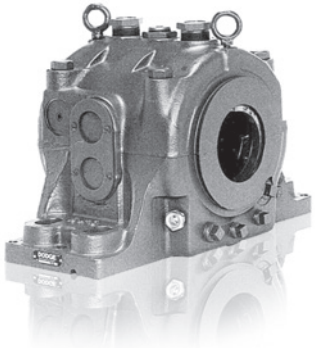
- 1-7/16. size is stocked as a plain pillow block
- 1-11/16. - 3-7/16. sizes are stocked as plain/water cooled (PLWC) pillow block
- 3-15/16. - 8. sizes are stocked as plain/externally cooled (PLXC) pillow blocks (standard and short series)
- PLXC liner only



PLXC Liner assembly (plain/externally cooled)

PLWC pillow block (plain/water cooled)

STL (standard)



SSL (short series)

Note:
Water cooled replacement liners (WC Repl) are also available for housings made prior to 1973 with smaller coolant pipes.

Sleevoil® bearings
Features/Benefits

Sleevoil
R series pillow block
- 9. - 14. sizes

Plain pillow block

XC pillow block

Sleevoil
R series pillow block
- All R series jacketed liners designated as XC can be air, oil, or water cooled.
- Thrust collars convert the expansion Bearing into a non-expansion Bearing.
- Short series housings require less shaft space and are for expansion Bearings only.
- 3-7/16, and larger bore housings are pre-machined for thermocouples, heaters, thermostats, vibration detector adapter kits, auxiliary seal kits, end cap kits and circulating oil kits.
- 3-15/16 - 8, water cooled replacement (WC repl) liners fit in the R series housings. WC repl liners have small pipes.
- PLXC Liners will not fit in old WC housings (prior to 1973); R series housing is required.

Sleevoil
RTL series pillow block
3-7/16. - 12. Sizes

RTL series pillow block

General operating characteristics

RTL pillow block blocks offer excellent radial and thrust load capacities. Large coolant chambers provide especially effective heat dissipation when used with circulating coolant systems. This provides exceptionally strong Bearing performance near high heat sources or gases.

The inner liner of the RTL has a center cavity which provides flooding lubrication to the thrust plates. This cavity acts as a reservoir to provide lubrication even during start-up and divides the radial area into two individual load sections. A single thrust collar is required. If a split collar is used, a shaft recess is necessary.

Coolant chambers, which cool both the thrust plates and radial load sections, are of sufficient size to allow the use of water, air, or oil as the internal coolant.

Expansion pillow blocks are furnished as standard. When non-expansion blocks are specified, a thrust collar and thrust plate kit are required.

- Reliable high speed operation.
- Three times the thrust load capability of the R series.
- Suitable for operation near high heat sources.
- Pre-machined for thermocouples, circulating oil kit, vibration detector adapter kit, auxiliary seal kits, end cap kit, heater and thermostat.

Sleevoil® bearings
Features/Benefits

Dodge Sleevoil bearing isolator RTL and R-series pillow blocks

The Dodge Sleevoil bearing isolator is a fully split multi-labyrinth contact sealing system. The stator forms a complex labyrinth with the rotor to isolate the Bearing from contamination keeping the lubricating oil clean. The tortuous labyrinth path between the stator and rotor also contains internal non-metallic seals to limit direct penetration of liquid or particulate.

The Sleevoil isolator is IP56 rated and all seal components including rotor stator and o-rings are fully split for ease of assembly and disassembly.

O-rings in the bore of the rotor provide sealing along the shaft and allow for axial shaft expansion as needed.

The isolator seal is designed to retrofit an existing Sleevoil housing with dovetail grooves on either end.

① Setscrew provides additional clamping to the housing

② Seal stator

③ Housing o-ring seals

④ Rotor locating seals

⑤ Shaft o-ring seals

⑥ Seal rotor

⑦ Expulsion port expels contaminants from seals

Sleevoil® bearings
Specification/How to order

Sleevoil - Nomenclature
Sleevoil bearing nomenclature - R & RTL series:

STD	Standard series
PLWC	Plain/Water cooled
SSL	Short series loaded
STL	Standard series loaded
RTL	Radial thrust loaded
PL	Plain
PLXC	Plain/Externally cooled
SSH	Short series
XC	Externally cooled

PB	Pillow block
HSG	Housing
LNR	Liner assembly
TC	Thrust collar
TPK	Thrust plate kit
BTP	Bronze thrust plates (BTP1-type 1 lower liner only; BTP2-type 2 upper & lower liner)

The product offering has 6-digit part numbers with listing shown throughout this catalog. Use of part numbers ensures accurate order processing.

Sleevoil® bearings
Selection

DODGE®

BALDOR®
A MEMBER OF THE ABB GROUP

Dodge Sleevoil application inquiry form

Please provide application data by mail, phone or fax:
Sleevoil bearing application engineering
Matt Kelly - matthew.kelly@baldor.abb.com (864) 281-2480
Yogi Sharma - yogi.sharma@baldor.abb.com (864) 281-2273

Company name: _____ Date: _____
Address: _____ Response required by: _____
Contact name: _____ Phone (_____) _____
Customer reference: _____ Fax: (_____) _____
Installation and arrangement: _____

Bearing size in inches:

Shaft speed: ☐ Constant _____ RPM
☐ Variable speed - max RPM _____ Min RPM _____
☐ Turning gear _____

Type of coolant:
☐ plain (None) ☐ water ☐ air ☐ plain - circ oil ☐ Water cooled - circ oil

Preferred lubricant: ☐ SAE10 ☐ SAE 20 ☐ SAE30 ☐ Other _____
☐ ISO 32 ☐ ISO 68 ☐ ISO 100

Expected temperature:
Ambient Max _____ °C Min _____ °C Water Inlet Max _____ °C Min _____ °C
Air Inlet Max _____ °C Min _____ °C Oil Inlet Max _____ °C Min _____ °C
Air velocity over bearing housing (FPM):

Fixed bearing (Non-expansion)
☐ RTL ☐ STL ☐ RXT
Loading: ☐ Base ☐ Cap

Fixed bearing radial load: _____N
Fixed bearing thrust load: _____ N

Free bearing (expansion)
☐ RTL ☐ STL ☐ SSL ☐ RXT
☐ Base ☐ Cap

Free bearing radial load: _____ N

Cooling wheel: ☐ Yes ☐ No ☐ Yes ☐ No
External heat source (Fan temperature): _____ °C
Closest part of bearing to heat source: Fixed bearing _____ mm Free bearing _____ mm

Direction of resultant load: Fixed bearing ⊕ Free bearing ⊕

Please state any unusual conditions such as shock loads changes in thrust loads, low speed requirements, hot shaft start-ups, enviornmental condtions (dust, chemicals gases etc:

Dodge / P.O. Box 499 / 6040 Ponders Ct. / Greenville, S.C. 29602 - 0499 / 864-297-4800

Sleevoil® bearings
Selection

Sleevoil

Baldor Electric

P.O. Box 499 Greenville SC 29602 -0499 (864) 297-4800
Sleevoil Program Release 9.0.0 14: 32: 35 03/11/2001
Sleevoil Bearing Selection Program Serial no. Page 1

Filename: Sleeve Bearing Eng / Data Sheets / 2011 / GG110311. UNV

Customer Name	GG Fan
Attention	Dean King
Phone	(589) 258-2365
Email	dking@ggfan.com
Reference	Copper Power ID Fan

Selection 1 of 4 Comment:

①	②	③			
3.4375 inch Sleevoil RTL	Oil ring lubrication	Non-expansion bearing			
Shaft speed		1780.0	RPM	1603.1	FPM
Radial load		1771.0	Lb	95.9	PSI
Thrust load		1596.0	Lb	177.3	PSI
Ambient temperature		100.0	Deg F		
External heat gases with cooling wheel		752.0	Deg F		
External heat source to Bearing face		6.0	Inches		
Average horizontal clearance		0.01350	Inches STD		
Average vertical clearance		0.00600	Inches STD		

④

⑤ > > > > > > > > > Application satisfactory with ISO VG 68 < < < < < < < < <
Calculations based on base loading
With water cooling at 100.0 Deg F and 2.00 GPM.

⑥				
Heat generation	Total	3.860	HP	9827.6 BTU / HR
Radial		0.657	HP	
Thrust		2.460	HP	
Heat gases		0.743	HP	
Heat dissipation by water cooling		3.226	HP	8214.9 BTU / HR
Heat dissipation by cooling wheel		0.365	HP	930.4 BTU / HR
Maximum operating temperature		165.0	Deg F	
Radial Bearing film thickness		1.54	Mils	
Thrust Bearing film thickness		0.72	Mils	
Attitude angle		44.1	Deg	

⑦ Dynamic coefficients (X=horizontal direction, Y=vertical direction)

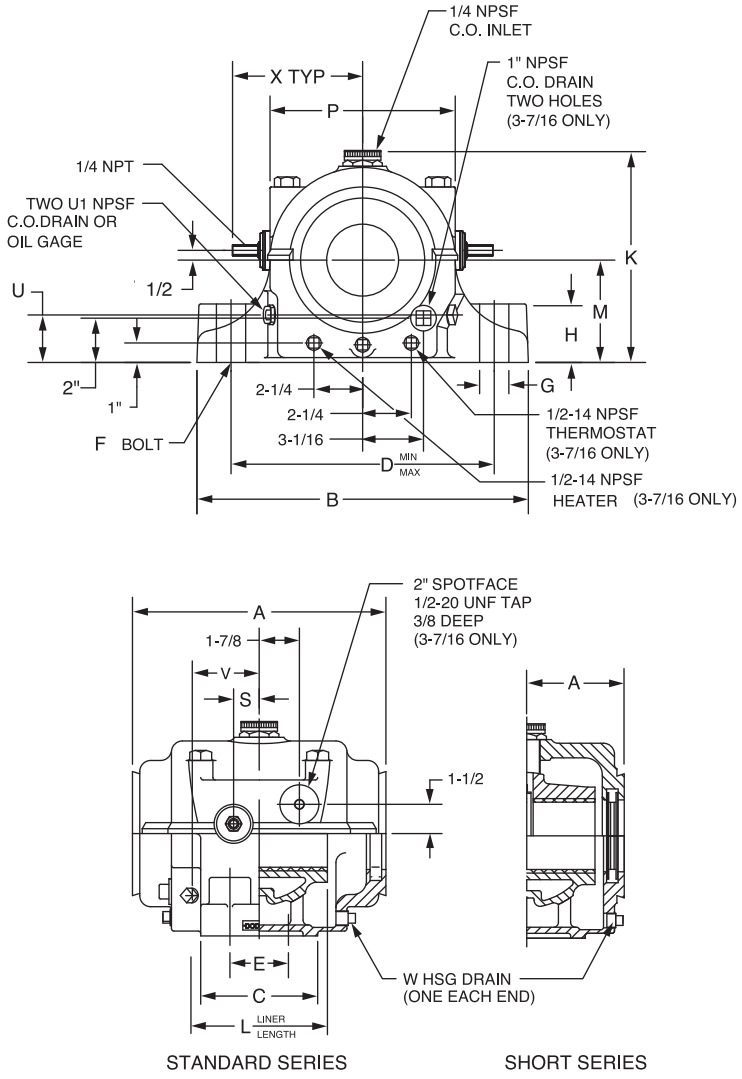
KXX =	361864.3 LB / IN	CXX =	1894.2 LB-S / IN
KXY =	95775.3 LB / IN	CXY =	-1332.8 LB-S / IN
KYX =	-1025270.0 LB / IN	CYX =	-1332.8 LB-S / IN
KYY =	19400013.0 LB / IN	CYY =	12178.8 LB-S / IN

RIGID ROTOR INSTABILITY THRESHOLD IS UNBOUNDED

1. Bore size and name of Sleevoil Bearing.
2. Method of lubrication.
3. States whether Bearing is non-expansion or expansion
4. Application input data
5. Acceptance of performance per input
6. Performance output data
7. Oil film dynamic coefficients

Sleevoil® bearings
Selection/Dimensions

Sleevoil - R series
1-7/16. thru 3-7/16. plain-water cooled standard and short series Sleevoil pillow blocks



Shaft size (in)	Expansion pillow blocks		Expansion pillow blocks		Split thrust collar		Neoprene end covers**		Hose kits		Replacement PL-WC liner assemblies	
	STD		SSH (short series expansion only)		2 collars required to make a non-expansion pillow blocks							
	Part no.	kg	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg
1-7/16	**132983**	9.3 (20.5)	. . . .	. . . .	**133245**	0.3 (0.7)	**133980**	0.05 (0.1)	**133344**	0.23 (0.5)	**133203**	1.6 (3.5)
1-11/16	**132984**	13.9 (30.6)	. . . .	. . . .	**133250**	0.5 (1.1)	**133981**	.12 (0.3)	**133344**	0.23 (0.5)	**133583**	2.9 (6.4)
1-15/16	**132985**	14.3 (31.5)	. . . .	. . . .	**133255**	0.5 (1.1)	**133982**	.12 (0.3)	**133344**	0.23 (0.5)	**133584**	3.2 (7.1)
2-3/16	**132986**	21.7 (47.8)	. . . .	. . . .	**133260**	0.8 (1.8)	**133983**	.12 (0.3)	**133344**	0.23 (0.5)	**133585**	5.4 (11.9)
2-7/16	**132987**	29.7 (65.5)	. . . .	. . . .	**133265**	1.2 (2.6)	**133984**	.12 (0.3)	**133344**	0.23 (0.5)	**133586**	5.3 (11.7)
2-11/16	**132988** ⊗	44.0 (97.0)	. . . .	. . . .	**133270**	1.9 (4.2)	**133985**	.12 (0.3)	**133344**	0.23 (0.5)	**132959**⊗	12.2 (26.9)
2-15/16	**132989** ⊗	41.9 (92.4)	**132991**⊗	40.82 (90.0)	**133275**	1.7 (3.7)	**133986**	.18 (0.4)	**133344**	0.23 (0.5)	**132950**⊗	10.0 (22.0)
	STL	STL	SSL						**133344**	0.23 (0.5)		
3-7/16	**132990** ⊗	65.3 (144.0)	**132992**⊗	62.60 (138.0)	**133280**	2.8 (6.2)	**133987**	0.14 (0.3)	**133344**	0.23 (0.5)	**132951**⊗	22.7 (50.0)

Unless specified, dimensions are in mm for metric parts and inches for non-metric parts.
Note: Dimensions are in MM (in)

Sleevoil® bearings
Selection/Dimensions

Sleevoil - R series
1-7/16. thru 3-7/16. plain-water cooled standard and short series Sleevoil pillow blocks

Shaft size (in)	A		B		C		D (Min.-max.)		E		F bolt dia. (in)		G	
	STD	SSH	STD	SSH	STD	SSH	STD	SSH					STD	SSH
1-7/16	165.1	....	241.3	....	69.8	....	177.8-190.5		##	....	5/8	....	25.4	....
1-11/16	196.8	....	266.7	....	76.2	....	196.8-209.6		##	....	5/8	....	25.4	....
1-15/16	196.8	....	266.7	....	76.2	....	196.8-209.6		##	....	5/8	....	25.4	....
2-3/16	234.9	....	317.5	....	88.9	....	231.8-250.8		##	....	3/4	....	31.8	....
2-7/16	266.7	....	342.9	....	101.6	....	257.2-276.2		##	....	3/4	....	31.8	....
2-11/16	292.1	....	381.0	....	114.3	....	279.4-304.8		##	....	7/8	....	38.1	....
2-15/16	292.1	222.2	381.0	381.0	114.3	146.1	279.4-304.8	276.2-308.0	##	69.8	7/8	3/4	38.1	38.1
	STL	SSL	STL	SSL	STL	SSL	STL	SSL	STL	SSL	STL	SSL	STL	SSL
3-7/16	330.2	254.0	431.8	431.8	152.4	152.4	328.6-357.2	328.6-357.2	76.2	76.2	3/4	3/4	38.1	38.1

Shaft size (in)	H		K		L		M		P		S		U	
	STD	SSH	STD	SSH	STD	SSH	STD	SSH	STD	SSH	STD	SSH	STD	SSH
1-7/16	38.1	....	152.4	....	76.2	....	69.8	....	117.5	....	....	....	28.6	....
1-11/16	44.5	....	171.4	....	88.9	....	79.4	....	136.5	....	22.2	....	34.9	....
1-15/16	44.5	....	171.4	....	101.6	....	79.4	....	136.5	....	22.2	....	34.9	....
2-3/16	50.8	....	203.2	....	114.3	....	95.2	....	161.9	....	22.2	....	38.1	....
2-7/16	60.3	....	222.2	....	127.0	....	104.8	....	181.0	....	27.0	....	41.3	....
2-11/16	62.7	....	244.5	....	139.7	....	115.9	....	200.0	....	28.6	....	47.6	....
2-15/16	62.7	38.1	244.5	244.5	152.4	152.4	115.9	115.9	200.0	200.0	28.6	28.6	47.6	44.5
	STL	SSL	STL	SSL	STL	SSL	STL	SSL	STL	SSL	STL	SSL	STL	SSL
3-7/16	76.2	76.2	279.4	279.4	177.8	177.8	133.3	133.3	238.1	238.1	33.3	33.3	50.8	50.8

Shaft size (in)	U1(in)		V		W (in)		X
	STD	SSH	STD	SSH	STD	SSH	
1-7/16	1/2	....	52.4	....	1/4	....	....
1-11/16	1/2	....	57.1	....	1/4	....	95.2
1-15/16	1/2	....	57.1	....	1/4	....	95.2
2-3/16	1/2	....	63.5	....	1/4	....	120.7
2-7/16	1/2	....	74.6	....	1/4	....	120.7
2-11/16	1/2	....	79.4	....	1/4	....	130.2
2-15/16	1/2	1/2	79.4	90.5	1/4	1/4	130.2
	STL	SSL	STL	SSL	STL	SSL	
3-7/16	3/4	1/2	98.4	98.4	1/2	1/2	139.7

2-bolt base

3-7/16 Heater (**434719**)

2-7/16, 2-11/16, 2-15/16 heater (**132834**) to be used with thermostat (133116)

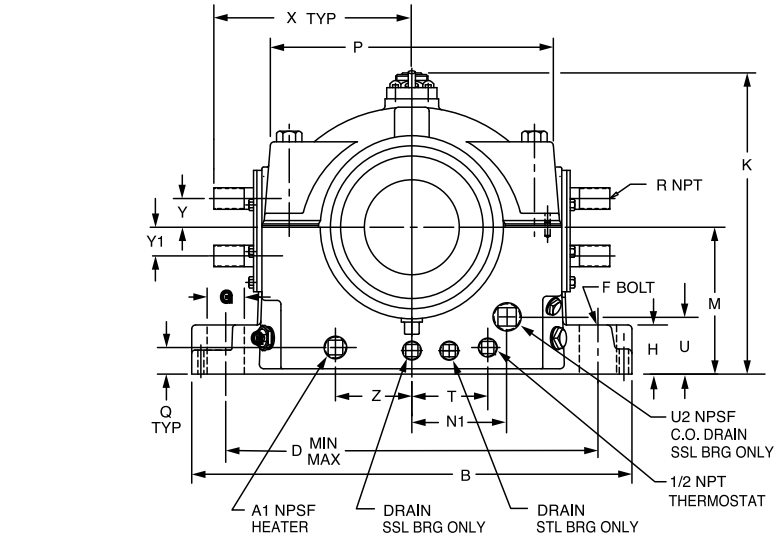
Unless specified, dimensions are in mm for metric parts and inches for non-metric parts.
Note: Dimensions are in MM (in)

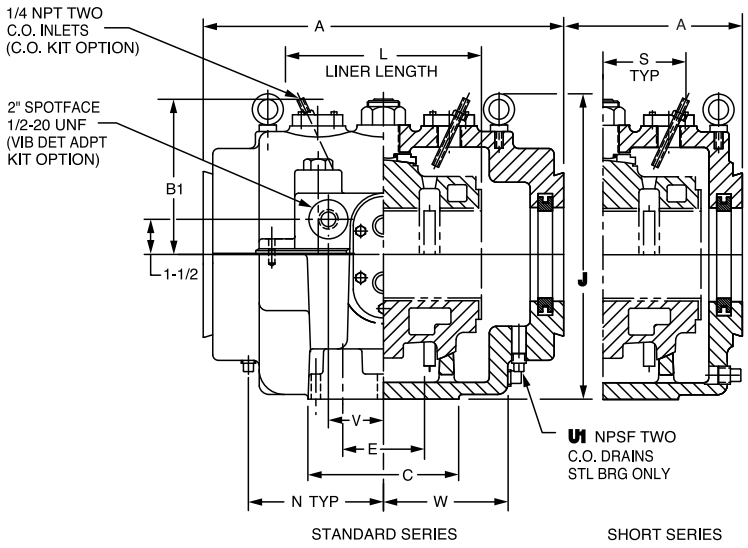
** Used to close one end of pillow block. One required for sizes 1-7/16 thru 2-15/16.Two required for 3-7/16.

V Pillow block and liner are pre-drilled for thermocouple (2 places)
STL & SSL are pre-drilled for accessories: thermocouple, circulating oil, vibration detector, heater and thermostat

Sleevoil® bearings
Selection/Dimensions

Sleevoil - R series
3-15/16. thru 8. plain / externally cooled standard and short series Sleevoil pillow blocks





Shaft size (in)	Pillow block assemblies				Split thrust collars		Replacement liner assemblies ⊗			
	Expansion pillow blocks STL		Expansion pillow blocks SSL (Short series expansion only)		2 collars required to make a non-expansion STL pillow block		PL-XC externally cooled		WC (Prior to 1973 hsg) replacement	
	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)
3-15/16	**134200**	91.2 (201.1)	**134207**	87.5 (192.9)	**133285**	3.3 (7.3)	**132952**	23.1 (50.9)	**133590**	24.5 (54.0)
4-7/16	**134201**	122.9 (270.9)	**134208**	115.7 (255.1)	**133292**	3.6 (7.9)	**132953**	32.2 (71.0)	**133591**	29.5 (65.0)
4-15/16	**134202**	164.2 (362.0)	**134209**	147.0 (324.1)	**133293**	5.1 (11.2)	**132954**	41.7 (91.9)	**133592**	41.3 (91.1)
5-7/16	**134203**	213.2 (470.0)	**134210**	209.6 (462.1)	**133294**	5.6 (12.3)	**132955**	59.0 (130.1)	**133593**	51.7 (114.0)
6	**134204**	271.2 (597.9)	**134211**	258.5 (569.9)	**133295**	6.9 (15.2)	**132956**	71.7 (158.1)	**133594**	71.7 (158.1)
7	**134205**	400.1 (882.1)	**134212**	383.3 (845.0)	**133296**	14.2 (31.3)	**132957**	104.3 (229.9)	**133595**	98.0 (216.1)
8	**134206**	588.8 (1298.1)	**134213**	569.7 (1256.0)	**133297**	22.1 (48.7)	**132958**	168.7 (371.9)	**133596**	170.1 (375.0)

Unless specified, dimensions are in mm for metric parts and inches for non-metric parts.
Note: Dimensions are in MM (in)

Sleevoil® bearings
Selection/Dimensions

Sleevoil - R series
3-15/16. thru 8. plain / externally cooled standard and short series Sleevoil pillow blocks

Shaft size (in)	Optional accessories											
	Auxiliary seal kits ##		Housing end cap kits		Heater / Thermostat * 120 Volt		Circulating oil inlet kits >		Neoprene end Covers ⊗⊗		Pipe grommet kits >	
	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)
3-15/16	**432181**	2.9 (6.4)	**432190**	2.8 (6.2)	**434721**	0.7 (1.5)	**432153**	0.9 (2.0)	**133988**	0.1 (0.2)	**132192**	0.7 (1.5)
4-7/16	**432184**	3.2 (7.1)	**432193**	3.1 (6.8)	**434721**	0.7 (1.5)	**430198**	0.9 (2.0)	**133989**	0.2 (0.4)	**132192**	0.7 (1.5)
4-15/16	**432187**	3.4 (7.5)	**432196**	3.3 (7.3)	**434721**	0.7 (1.5)	**430198**	0.9 (2.0)	**133990**	0.2 (0.4)	**132193**	1.1 (2.4)
5-7/16	**133932**	5.6 (12.3)	**132546**	5.3 (11.7)	**434721**	0.9 (2.0)	**430155**	0.9 (2.0)	**133991**	0.3 (0.7)	**132193**	1.1 (2.4)
6	**133933**	6.7 (14.8)	**132547**	4.8 (10.6)	**434725**	1.1 (2.4)	**430155**	0.9 (2.0)	**133992**	0.4 (0.9)	**132198**	1.6 (3.5)
7	**133937**	8.6 (19.0)	**132548**	6.1 (13.4)	**434725**	1.1 (2.4)	**430155**	0.9 (2.0)	**133993**	0.5 (1.1)	**132198**	1.6 (3.5)
8	**133938**	11.3 (24.9)	**132549**	7.0 (15.4)	**434727**	1.4 (3.1)	**430155**	0.9 (2.0)	**133994**	0.6 (1.3)	**132198**	1.6 (3.5)

Shaft size (in)	A		B	C	D (Min.-max.)	E	F bolt dia. (in)	G	H		J	
	STL	SSL							STL	SSL	STL	SSL
3-15/16	381.0	279.4	482.6	177.8	362.0 - 400.1	88.9	7/8	44.5	76.2	50.8	306.4	320.7
4-7/16	419.1	317.5	520.7	190.5	387.4 - 425.5	101.6	1	50.8	88.9	88.9	371.5	371.5
4-15/16	463.6	349.2	571.5	215.9	422.3 - 479.4	114.3	1	63.5	79.4	63.5	403.2	403.2
5-7/16	501.6	387.4	622.3	241.3	463.6 - 514.4	127.0	1-1/8	57.1	95.2	69.8	435.0	435.0
6	539.8	412.8	660.4	266.7	498.5 - 555.6	139.7	1-1/4	63.5	101.6	76.2	447.7	469.9
7	622.3	476.2	755.6	317.5	574.7 - 644.5	165.1	1-1/2	76.2	130.2	88.9	493.7	533.4
8	704.9	533.4	863.6	368.3	650.9 - 733.4	190.5	1-3/4	88.9	149.2	101.6	541.3	596.9

Shaft size (in)	K	L	M	N	N1	P	Q	R pipe (in)		T		U	U1 (in)	U2 (in)
				STL	SSL			PLXC	WC rep't	STL	SSL		STL	SSL
3-15/16	303.2	203.2	146.1	150.8	66.7	257.2	31.8	1	1/2	54.0	54.0	68.3	3/4	3/4
4-7/16	352.4	228.6	158.8	161.9	85.7	292.1	34.9	1	1/2	76.2	50.8	71.4	3/4	1
4-15/16	382.6	254.0	177.8	179.4	95.2	317.5	33.3	1-1/4	1/2	73.0	50.8	84.1	1	1-1/4
5-7/16	404.8	279.4	190.5	193.7	111.1	349.2	39.7	1-1/4	1/2	85.7	63.5	76.2	1	1-1/4
6	457.2	304.8	209.6	209.6	114.3	374.6	44.5	1-1/4	3/4	98.4	69.8	79.4	1	1-1/4
7	514.4	355.6	241.3	242.9	127.0	431.8	50.8	1-1/4	3/4	127.0	76.2	95.2	1-1/4	1-1/4
8	571.5	406.4	273.1	279.4	146.1	482.6	50.8	1-1/4	3/4	133.3	101.6	115.9	1-1/4	1-1/4

Shaft size (in)	V	W	X	Y		Y1		Z	A1 (in)	B1
				PLXC	WC rep't	PLXC	WC rep't			
3-15/16	76.2	127.0	217.5	31.8	25.4	31.8	25.4	54.0	3/4	179.4
4-7/16	88.9	142.9	233.4	31.8	25.4	31.8	25.4	76.2	3/4	193.7
4-15/16	88.9	154.0	254.0	38.1	25.4	44.5	25.4	73.0	3/4	203.2
5-7/16	88.9	171.4	263.5	38.1	25.4	44.5	25.4	85.7	3/4	222.2
6	101.6	184.2	284.2	44.5	31.8	50.8	31.8	98.4	1	250.8
7	114.3	212.7	328.6	44.5	31.8	50.8	31.8	127.0	1	276.2
8	127.0	244.5	376.2	44.5	31.8	50.8	31.8	133.3	1-1/4	304.8

One required per pillow block end

> One required per pillow block

* 220 volt heaters available. See page 8-24.

** 2-1/4. on STL; 2. on SSL

⊗ To differentiate between XC and water cooled replacement liners see .R. dimensions (pipe size)

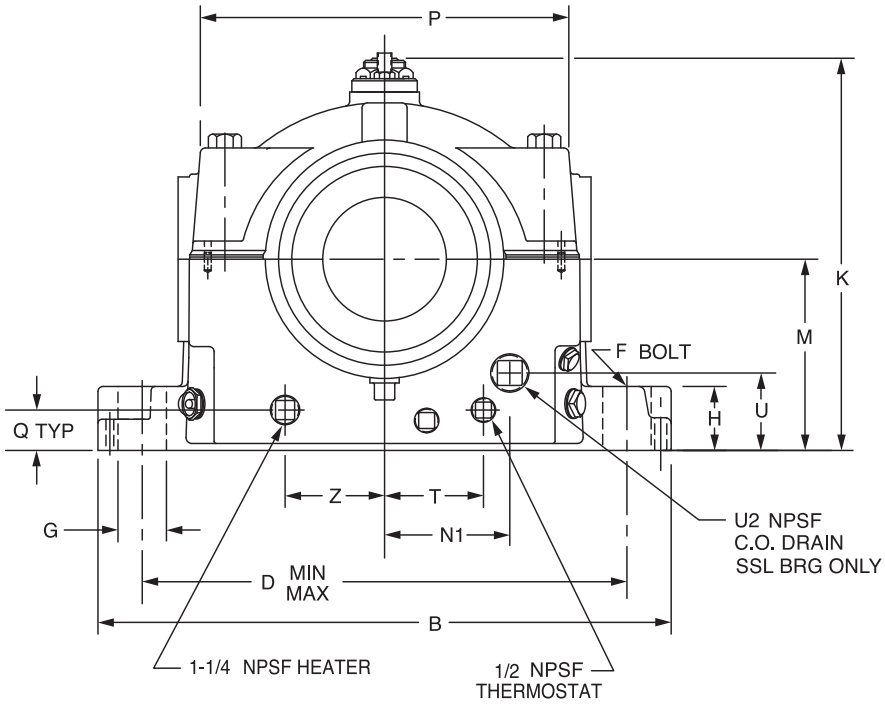
⊗ ⊗ Two required per 3-15/16 thru 4-15/16 sizes; three for 5-7/16 and larger

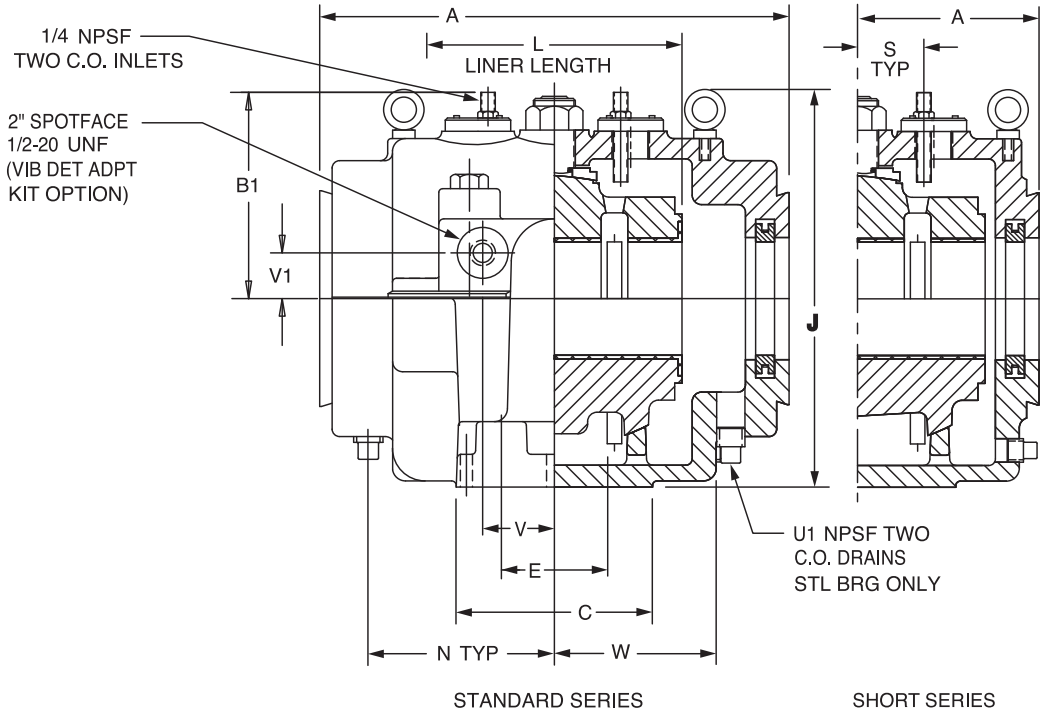
All sizes are pre-machined for accessories: thermocouples, circulating oil, vibration detector, heater and thermostat

Unless specified, dimensions are in mm for metric parts and inches for non-metric parts.
Note: Dimensions are in MM (in)

Sleevoil® bearings
Selection/Dimensions

Sleevoil - R series
9., 10., 12. & 14. plain Sleevoil pillow blocks





Sleevoil® bearings
Selection/Dimensions

Sleevoil - R series
9., 10., 12. & 14. plain Sleevoil pillow blocks

Shaft size (in)	Plain expansion pillow blocks				Split thrust collars	
	STL		SSL (short series expansion only)		2 collars required to make a non-expansion STL pillow blocks	
	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)
9	**132766**	560 (1234.6)	**132924**	530 (1168.5)	**133959**	24.5 (54.0)
10	**132767**	563 (1241.2)	**132925**	501 (1104.5)	**133960**	23.6 (52.0)
12	**132768**	907 (1999.6)	**132926**	810 (1785.7)	**133961**	30.8 (67.9)
14	**431399**	1542 (3399.5)	**430561**	1361 (3000.5)	**431389**	34.0 (75.0)

Shaft size (in)	Auxiliary seal kits ##		Housing end cap kits		Heater / Thermostat * 120 volt		Circulating oil inlet kits >		Neoprene end Covers##		Replacement plain liner assemblies	
	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)
9	**132814**	10.5 (23.1)	**132564**	7.2 (15.9)	**434727**	1.4 (3.1)	**430155**	0.9 (2.0)	**133996**	0.7 (1.5)	**133550**	148.3 (326.9)
10	**132816**	11.0 (24.3)	**132565**	7.4 (16.3)	**434727**	1.4 (3.1)	**430155**	0.9 (2.0)	**133995**	0.7 (1.5)	**133669**	204.1 (450.0)
12	**132819**	18.1 (39.9)	**132566**	11.3 (24.9)	**434729**	1.8 (4.0)	**430155**	0.9 (2.0)	**133997**	0.9 (2.0)	**133392**	294.8 (649.9)
14	**132822**	16.3 (35.9)	**132567**	11.3 (24.9)	**434729**	1.8 (4.0)	**430155**	0.9 (2.0)	**....**	....	**430831**	544.3 (1200.0)

Shaft size (in)	A		B	C	D (Min.-max.)	E	F-bolt (in)	G	H		J	
	STL	SSL	STL & SSL	STL & SSL	STL &SSL	STL & SSL	STL & SSL	STL & SSL	STL	SSL	STL	SSL
9	704.9	533.4	863.6	368.3	650.9 - 733.4	190.5	1-3/4	88.9	149.2	101.6	568.3	596.9
10	704.9	533.4	863.6	368.3	650.9 - 733.5	190.5	1-3/4	88.9	149.2	101.6	568.3	596.9
12	762.0	590.5	1016.0	431.8	793.8 - 882.7	228.6	2	101.6	171.4		744.5	744.5
14	863.6	666.8	1171.6	457.2	927.1 - 1028.7	254.0	2	101.6	177.8	...	892.2	892.2

Shaft size (in)	K	L	M	N	N1	P	S	T		U	U1 (in)	U2 (in)	V	Kg	
	STL & SSL	STL & SSL	STL & SSL	STL	SSL	STL & SSL	STL & SSL	STL	SSL	SSL	STL	SSL	STL & SSL	STL	SSL
9	571.5	406.4	273.1	279.4	139.7	482.6	76.2	133.3	101.6	85.7	1-1/4	1-1/4	127.0	560.2	529.8
10	571.5	406.4	273.1	279.4	139.7	482.6	76.2	133.3	101.6	98.4	1-1/4	1-1/4	127.0	562.5	501.2
12	717.5	457.2	342.9	314.3	196.8	603.2	88.9	177.8	177.8	131.8	1-1/2	1-1/2	177.8	907.2	809.7
14	828.7	508.0	406.4	....	....	730.2	....	....	....	....	....	1-1/2	....	....	....

Shaft Size (in)	V1		W	Z	B1
	STL	SSL	STL & SSL	STL & SSL	STL
9	38.1	38.1	244.5	133.3	304.8
10	38.1	38.1	244.5	133.3	304.8
12	50.8	50.8	279.4	177.8	368.3
14	....	....	306.4	....	....

One required per pillow block end

> One required per pillow block

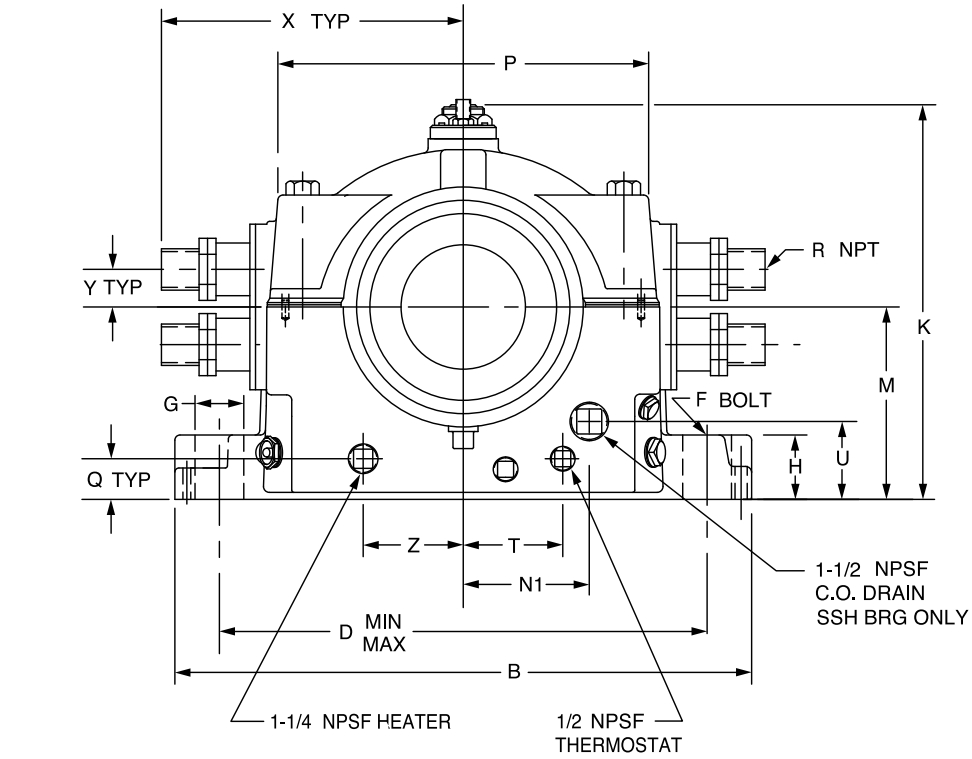
* 220 volt heaters available. See page 8-24.

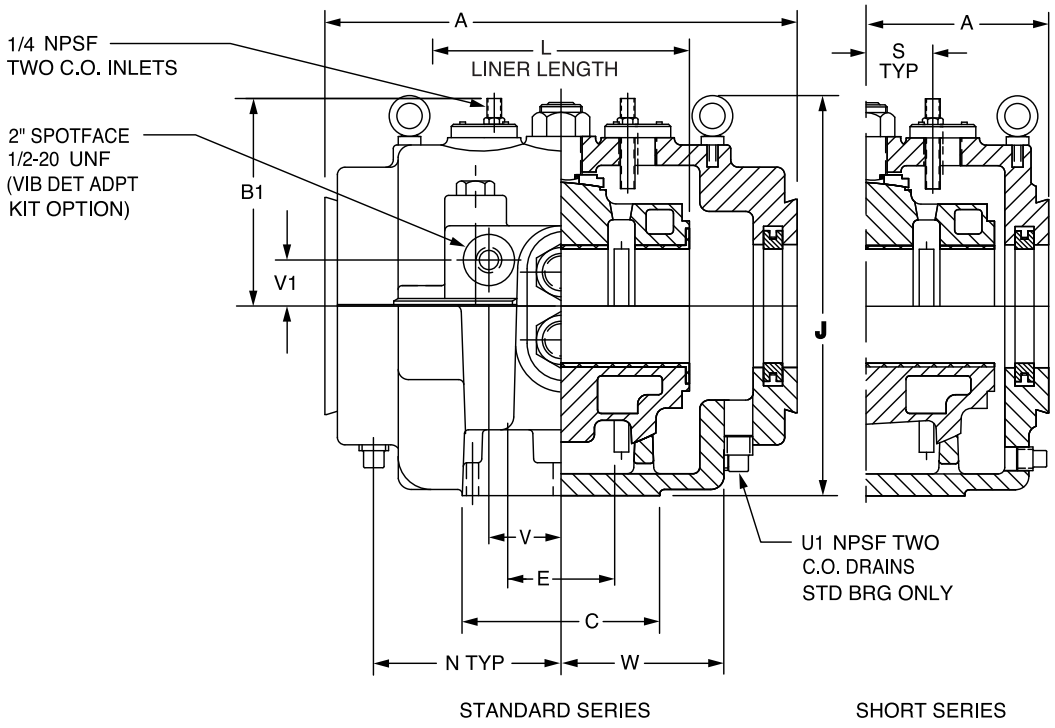
All housings are pre-machined for accessories; thermocouples, circulating oil, vibration detector, heater and thermostat

Unless specified, dimensions are in mm for metric parts and inches for non-metric parts.
Note: Dimensions are in MM (in)

Sleevoil® bearings
Selection/Dimensions

Sleevoil - R series
9., 10., 12. XC Sleevoil pillow blocks





Sleevoil® bearings
Selection/Dimensions

Sleevoil - R series
9., 10., 12. XC Sleevoil pillow blocks

Shaft size (in)	Expansion pillow blocks XC (externally cooled) (short series expansion only)				2 collars required to make a non-expansion STL pillow block	
	STL-XC		SSL-XC		XC split thrust collars	
	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)
9	**132538** ⊗	726 (1600.6)	**133565** ⊗	680 (1499.1)	**133303**	25.9 (57.1)
10	**132539** ⊗	907 (1999.6)	**133566** ⊗	794 (1750.5)	**133304**	33.6 (74.1)
12	**132559** ⊗	1497 (3300.3)	. . . .	. . . .	**133305**	. . . .

Shaft size (in)	Auxiliary seal kits ##		Housing end cap kits		Heater / Thermostat * XC 120 volt		Circulating oil inlet kits >		Neoprene end closure ##		Liner assemblies XC	
	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)
9	**132814**	10.5 (23.1)	**132564**	7.2 (15.9)	**434729**	1.8 (4.0)	**430155**	0.9 (2.0)	**133996**	0.7 (1.5)	**132591**	136 (299.8)
10	**132816**	11.0 (24.3)	**132565**	7.4 (16.3)	**434729**	1.8 (4.0)	**430155**	0.9 (2.0)	**133995**	0.7 (1.5)	**132594**	181 (399.0)
12	**132819**	18.1 (39.9)	**132566**	11.3 (24.9)	**434729**	1.8 (4.0)	. . . .	. . . .	**133997**	0.9 (2.0)	**132597**	272 (599.7)

Shaft size (in)	A		B		C		D (Min.-max.)		E	
	STL	SSL	STL	SSL	STL	SSL	STL	SSL	STL	SSL
9	736.6	565.1	939.8	939.8	393.7	393.7	720.7 - 803.3	720.7 - 803.3	203.2	203.2
10	762.0	590.5	1016.0	1016.0	431.8	431.8	793.8 - 882.7	793.8 - 882.7	228.6	228.6
12	863.6	. . .	1168.4	. . .	457.2	. . .	930.3 - 1025.5	. . . .	254.0	. . . .

Shaft size (in)	F-Bolt (in)		G		H		J		K		L	M
	STL	SSL	STL	SSL	STL	SSL	STL	SSL	STL	SSL	XC	STL & SSL
9	1-3/4	1-3/4	88.9	88.9	152.4	152.4	681.0	679.5	647.7	647.7	431.8	304.8
10	2	2	101.6	101.6	171.4	171.4	744.5	743.0	717.5	717.5	457.2	342.9
12	2	. . . .	104.8	. . . .	177.8	. . . .	882.6	744.5	839.8	. . . .	508.0	406.4

Shaft size (in)	N	N1	P		Q	R pipe (in)	S	T	U	U1 (in)	V	V1
	STL	SSL	STL	SSL	STL & SSL	XC	STL & SSL	STL & SSL	SSL	STL	STL & SSL	STL & SSL
9	301.6	146.1	552.5	552.5	63.5	1-1/4	85.7	161.9	130.2	1-1/2	127.0	38.1
10	314.3	139.7	603.2	603.2	76.2	1-1/2	88.9	177.8	155.6	1-1/2	177.8	50.8
12	. . . .	. . . .	730.2	. . . .	. . . .	2	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .

Shaft size (in)	W		X	Y	Z	B1	
	STL	SSL	XC	XC	STL & SSL	STL	SSL
9	269.9	269.9	412.8	57.2	161.9	346.1	346.1
10	279.4	279.4	444.5	66.7	177.8	368.3	368.3
12	306.4	. . . .	514.4	. . . .	. . . .	. . . .	. . . .

One required per pillow block end

\> One required per pillow block

Unless specified, dimensions are in mm for metric parts and inches for non-metric parts.
Note: Dimensions are in MM (in)

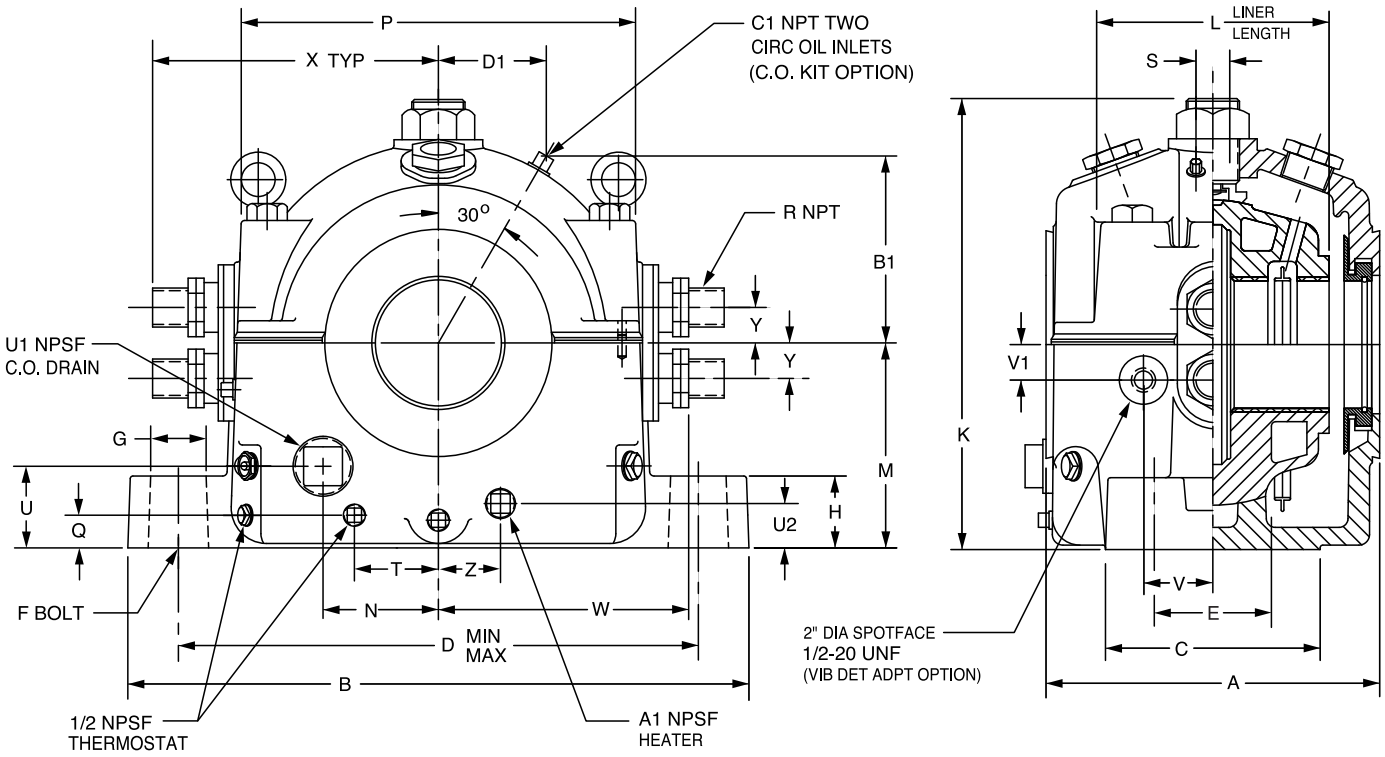
⊗ All housings are pre-machined for accessories; thermocouples, circulating oil, vibration detector, heater and thermostat

X Assembled-to-order, Not .L. version

* 220 volt heaters available. See page 8-24.

Sleevoil® bearings
Selection/Dimensions

Sleevoil - RTL series
3-7/16. thru 12. RTL Sleevoil pillow blocks



Shaft size (in)	Expansion pillow blocks		One of each required to make a non-expansion pillow block				Auxiliary seal kits # #		Housing end cap kits		Heater / Thermostat *	
			Thrust plate kits		Split thrust collar ⊗⊗							
	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)	Part no.	kg (lb)
3-7/16	**132474**	190 (419)	**137101**	1.3 (3)	**132151**	1.1 (2)	**132811**	2.2 (5)	**132542**	2.4 (5)	**434721**	0.5 (1)
3-15/16	**132475**	230 (507)	**137102**	2.0 (4)	**132152**	2.0 (4)	**432181**	2.9 (6)	**432190**	2.8 (6)	**434725**	1.1 (2)
4-7/16	**132476**	300 (661)	**137103**	2.4 (5)	**132153**	2.4 (5)	**432184**	3.2 (7)	**432193**	3.1 (7)	**434725**	1.1 (2)
4-15/16	**132477**	425 (937)	**137104**	3.1 (7)	**132154**	3.1 (7)	**432187**	3.4 (7)	**432196**	3.3 (7)	**434727**	1.4 (3)
5-7/16	**132383**	500 (1102)	**137105**	4.6 (10)	**132155**	4.6 (10)	**133932**	5.6 (12)	**132546**	5.3 (12)	**434727**	1.4 (3)
6	**132384**	825 (1819)	**137106**	5.8 (13)	**132156**	5.8 (13)	**133933**	6.7 (15)	**132547**	4.8 (11)	**434727**	1.4 (3)
7	**132385**	978 (2156)	**137107**	8.0 (18)	**132157**	8.0 (18)	**133937**	8.6 (19)	**132548**	6.1 (13)	**434729**	1.8 (4)
8	**132386**	1310 (2888)	**137108**	10.5 (23)	**132158**	10.5 (23)	**133938**	11.3 (25)	**132549**	7.0 (15)	**434729**	1.8 (4)
9	**132387**	1650 (3638)	**137109**	19.3 (43)	**132159**	19.3 (43)	**132814**	10.5 (23)	**132564**	7.2 (16)	**434729**	1.8 (4)
10	**132388**	2150 (4740)	**137110**	23.9 (53)	**132160**	23.9 (53)	**132816**	11.0 (24)	**132565**	7.4 (16)	**434729**	1.8 (4)
12	**132389**	3500 (7716)	**137111**	33.6 (74)	**132161**	33.6 (74)	**132819**	18.1 (40)	**132566**	11.3 (25)	**434735**	3.0 (7)

* 220 volt heaters available. See page 8-24.

Unless specified, dimensions are in mm for metric parts and inches for non-metric parts.

Note: Dimensions are in MM (in)

Sleevoil® bearings
Selection/Dimensions

Sleevoil - RTL series
3-7/16. thru 12. RTL Sleevoil pillow blocks

Shaft size (in)	Circulating oil inlet kits >		Replacement liner assemblies		A	B	C	D (Max.-min.)	E	F dia. bolt (in)	G	H	K
	Part no.	kg (lb)	Part no.	kg (lb)									
3-7/16	**132203**	0.9 (2)	**132420**	21 (46)	254.0	476.2	152.4	409.6 - 377.8	76.2	3/4	38.1	50.8	319.1
3-15/16	**132203**	0.9 (2)	**132421**	30 (66)	273.1	527.1	177.8	457.2 - 419.1	88.9	7/8	44.5	57.1	346.1
4-7/16	**132203**	0.9 (2)	**132422**	37 (82)	298.4	552.5	190.5	479.4 - 435.0	101.6	1	50.8	63.5	387.4
4-15/16	**132203**	0.9 (2)	**132423**	51 (112)	323.9	616.0	215.9	542.9 - 498.5	114.3	1	50.8	69.8	441.3
5-7/16	**132203**	0.9 (2)	**132424**	65 (143)	355.6	679.5	241.3	590.6 - 539.8	127.0	1-1/8	57.1	82.5	479.4
6	**132205**	0.9 (2)	**132425**	83 (183)	406.4	736.6	266.7	638.2 -571.0	139.7	1-1/4	63.5	88.9	511.2
7	**132205**	0.9 (2)	**132426**	117 (258)	457.2	838.2	317.5	733.4 - 663.6	165.1	1-1/2	76.2	101.6	568.3
8	**132205**	0.9 (2)	**132427**	187 (412)	501.6	965.2	355.6	841.4 - 758.8	190.5	1-3/4	88.9	114.3	655.6
9	**132205**	0.9 (2)	**132428**	283 (624)	577.9	1054.1	393.7	930.3 - 847.7	203.2	1-3/4	88.9	127.0	717.5
10	**132205**	0.9 (2)	**132429**	433 (955)	622.3	1206.5	431.8	1063.6 - 968.4	228.6	2	101.6	152.4	860.4
12	**132205**	0.9 (2)	**132430**	637 (1404)	736.6	1244.6	457.2	1108.1 - 1063.6	254.0	2	76.2	165.1	939.8

Shaft size (in)	L	M	N	P	Q	R (in)	S	T	U	U1 (in)	U2
3-7/16	171.4	149.2	92.1	295.3	28.6	3/4	34.9	. . . .	69.8	1-1/2	28.6
3-15/16	184.2	165.1	112.7	327.0	28.6	1	38.1	. . . .	74.6	1-1/2	31.8
4-7/16	203.2	177.8	114.3	349.2	31.8	1	38.1	. . . .	74.6	1-1/2	34.9
4-15/16	225.4	196.8	130.2	406.4	31.8	1-1/4	41.3	. . . .	82.5	2	38.1
5-7/16	254.0	222.2	146.1	438.1	41.3	1-1/4	50.8	74.6	95.2	2	47.6
6	276.2	241.3	158.8	476.2	41.3	1-1/4	54.0	88.9	101.6	2	47.6
7	317.5	273.1	174.6	539.8	50.8	1-1/4	57.1	101.6	108.0	2	50.8
8	358.8	308.0	215.9	616.0	57.1	2	60.3	139.7	120.7	2	57.1
9	412.8	342.9	233.4	692.1	57.1	2	76.2	139.7	128.6	2	57.1
10	450.9	406.4	279.4	787.4	73.0	2-1/2	79.4	215.9	141.3	2-1/2	73.0
12	527.1	450.9	315.9	901.7	79.4	3	82.5	228.6	155.6	2-1/2	79.4

Shaft size (in)	V	V1	W±4.8	X	Y	Z	A1 (in)	B1	C1 (in)	D1
3-7/16	82.5	19.1	193.7	247.7	31.8	90.5	3/4	184.2	1/4	106.4
3-15/16	76.2	38.1	220.7	249.2	31.8	103.2	1	195.3	1/4	115.9
4-7/16	82.5	41.3	231.8	260.4	31.8	112.7	1	206.4	1/4	117.5
4-15/16	95.2	44.5	273.1	315.9	47.6	136.5	1-1/4	215.9	1/4	125.4
5-7/16	101.6	44.5	290.5	327.0	47.6	142.9	1-1/4	230.2	1/4	133.3
6	95.2	50.8	309.6	342.9	47.6	155.6	1-1/4	276.2	3/8	160.3
7	114.3	50.8	335.0	371.5	47.6	174.6	1-1/4	306.4	3/8	176.2
8	127.0	50.8	398.5	454.0	57.1	212.7	1-1/4	333.4	3/8	182.6
9	139.7	50.8	435.0	488.9	57.1	230.2	1-1/4	360.4	3/8	208.0
10	152.4	50.8	503.2	571.5	69.8	269.9	1-1/4	384.2	3/8	222.2
12	165.1	50.8	558.8	616.0	88.9	308.0	1-1/4	495.3	3/8	242.9

One required per pillow block end

> One required per pillow block

* 220 volt heaters available. See page 8-24.

⊗⊗ For recessed shaft

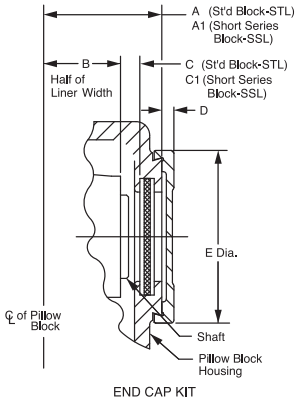
All sizes are pre-machined for accessories; thermocouples, circulating oil, vibration detector, heater and thermostat

Unless specified, dimensions are in mm for metric parts and inches for non-metric parts.

Note: Dimensions are in MM (in)

Sleevoil® bearings
Modification/Accessories

Sleevoil traditional (Inch)
3-7/16. thru 14. end cap kits
Sleevoil accessories



END CAP KIT

Bore size (in)	Pillow block style	End cap kits				A STL	A1 SSL	B #	C # STL	C1 # SSL
		Part no.	Kg (lb)	D	E					
3-7/16	Plain/Water cooled STL and SSL	**132542**	2.4 (5)	12.7	181.0	165.1	123.8	88.9	53.2	11.9
3-15/16	PLXC, STL and SSL	**432190**	2.8 (6)	12.7	203.2	190.5	139.7	101.6	66.7	15.9
4-7/16	PLXC, STL and SSL	**432193**	3.1 (7)	12.7	222.2	209.6	158.8	114.3	69.1	18.3
4-15/16	PLXC, STL and SSL	**432196**	3.3 (7)	12.7	231.8	231.8	174.6	127.0	78.6	21.4
5-7/16	PLXC, STL and SSL	**132546**	5.3 (12)	12.7	266.7	250.8	193.7	139.7	78.6	21.4
6	PLXC, STL and SSL	**132547**	4.8 (11)	12.7	292.1	269.9	206.4	152.4	84.9	21.4
7	PLXC, STL and SSL	**132548**	6.1 (13)	12.7	319.1	311.1	238.1	177.8	99.2	26.2
8	PLXC, STL and SSL	**132549**	7.0 (15)	12.7	368.3	352.4	266.7	203.2	115.1	29.4
9	STL plain	**132564**	7.2 (16)	12.7	368.3	352.4	.....	203.2	115.1	.....
	XC	**132564**	7.2 (16)	12.7	368.3	368.3	.....	215.9	118.3	.....
	SSL plain	**132564**	7.2 (16)	12.7	368.3	.....	266.7	203.2	.....	29.4
	SSL	**132564**	7.2 (16)	12.7	368.3	.....	282.6	215.9	.....	32.5
	XC	**132564**	7.2 (16)	12.7	368.3	.....	11-1/8	8-1/2	.....	1-9/32
10	STL plain	**132565**	7.4 (16)	12.7	368.3	352.4	.....	203.2	115.1	.....
	STL XC	**132565**	7.4 (16)	12.7	368.3	381.0	.....	228.6	118.3	.....
	SSL plain	**132565**	7.4 (16)	12.7	368.3	.....	266.7	203.2	.....	29.4
	SSL XC	**132565**	7.4 (16)	12.7	368.3	.....	295.3	228.6	.....	32.5
12	STL plain	**132566**	11.8 (26)	12.7	476.2	381.0	.....	228.6	118.3	.....
14	STD plain	**132567**	12.0 (26)	12.7	476.2	431.8	.....	254.0	143.7	.....

Bore size (in)	Pillow block style	End cap kits				A	B #	C #
		Part no.	Kg (lb)	D	E			
3-7/16	RTL	**132542**	2.4 (5)	12.7	181.0	127.0	85.7	21.4
3-15/16	RTL	**432190**	2.8 (6)	12.7	203.2	136.5	92.1	23.0
4-7/16	RTL	**432193**	3.1 (7)	12.7	222.2	149.2	101.6	26.2
4-15/16	RTL	**432196**	3.3 (7)	12.7	231.8	161.9	112.7	27.8
5-7/16	RTL	**132546**	5.3 (12)	12.7	266.7	177.8	127.0	29.4
6	RTL	**132547**	4.8 (11)	12.7	292.1	203.2	138.1	34.1
7	RTL	**132548**	6.1 (13)	12.7	319.1	228.6	158.8	38.9
8	RTL	**132549**	7.0 (15)	12.7	368.3	250.8	179.4	40.5
9	RTL	**132564**	7.2 (16)	12.7	368.3	288.9	206.4	51.6
10	RTL	**132565**	7.4 (16)	12.7	368.3	311.1	225.4	51.6
12	RTL	**132566**	11.8 (26)	12.7	476.2	368.3	263.5	70.6

B+C (OR B+C1) = max. shaft penetration from center line of pillow block
Unless specified, dimensions are in mm for metric parts and inches for non-metric parts.
Note: Dimensions are in MM (in)