

# Split Pillow Block Housings

## SAF

Technical Product Information



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# 1 Split pillow block housings SAF

Bearing units consist of a split pillow block housing SAF and the corresponding bearing. When combined with the appropriate accessories, these bearing units can be matched to a wide range of applications. The housings are specifically designed for inch size shaft center heights.

1

## 2 Housing design

### Bearing housings

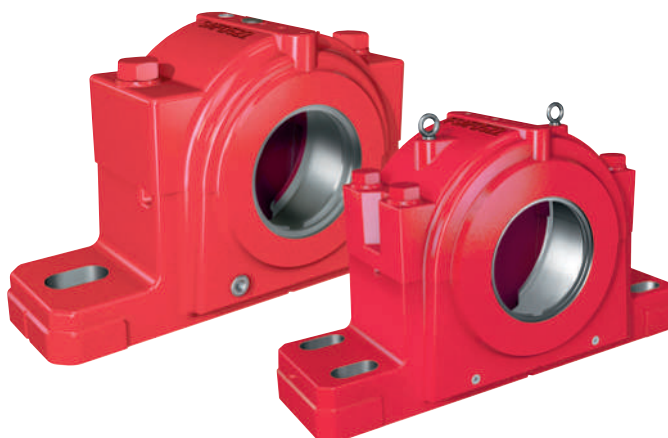
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☞1 Split pillow block housings made from gray cast iron SAF and FSAF



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☞2 Split pillow block housings made from ductile cast iron SAFD and FSAFD



0019A267

### Accessories

☞3 Labyrinth seals LER



0019A1DE

4 Taconite seals TA (SuperTAC II TA)



0019A1FE

5 Taconite seals NTC (MaxTAC NTC)



0019A1EE

6 End covers EC and ECR



0019A1CE

7 Locating rings SR



0019A1BE

If a housing of the universal design SAF..U is ordered, the delivery includes not only the housing but also the following accessories:

- 2 labyrinth seals, suitable for the inch size standard shaft diameter appropriate to the housing variant
- 1 locating ring or 2 locating rings, suitable for the corresponding spherical roller bearing appropriate for the housing variant
- 1 end cover
- selection of grease fittings

The accessories included in the delivery allow the following arrangements to be realized in any combination:

- Design of the bearing arrangement as a fixed bearing arrangement or a floating bearing arrangement: The insertion of a locating ring SR or several locating rings SR allows a floating bearing arrangement to be converted into a fixed bearing arrangement.
- Continuous shaft with housing open on both sides or non-continuous shaft with housing closed on one side: The insertion of one end cover EC or ECR closes one side of the housing.

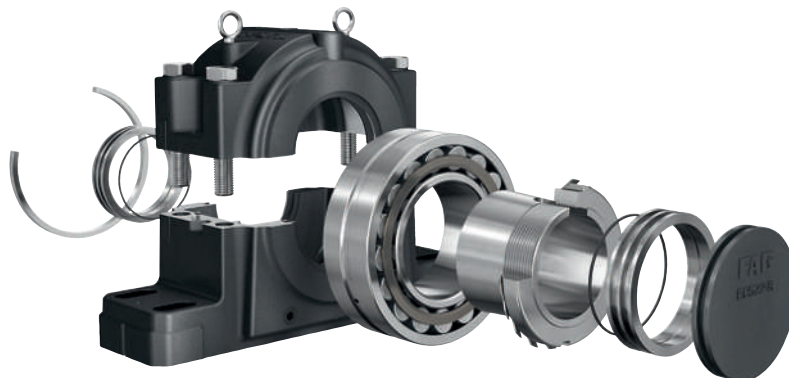
The accessories included in the delivery allow various arrangements to be realized in any combination ►21 |9.1



### 3 SAF500 kits

Kits have been created to simplify the ordering process. All parts of the ready-to-fit unit are available under a single ordering number. The kits are suitable for shaft diameters from 1<sup>3</sup>/<sub>8</sub> inch to 8 inch.

 8 Kit, scope of delivery



A kit contains all of the necessary parts and consists of:

- 1 housing made from gray cast iron or ductile cast iron SAF500
- 1 spherical roller bearing 222..-K
- 1 adapter sleeve SNW with inch size thread, including locknut and locking washer
- 2 seals LER, suitable for the inch size standard shaft diameter
- 1 locating ring or 2 locating rings, suitable for the corresponding spherical roller bearing appropriate to the housing variant
- 1 end cover
- selection of grease fittings

## 4 Suitable bearings

### Bearing type and sizes

The dimensions of split pillow block housings SAF are matched to spherical roller bearings and self-aligning ball bearings. The range of shaft diameters is  $1 \frac{3}{8}$  inch to  $10 \frac{1}{2}$  inch.

#### 1 Bearing type and sizes

Bearing type	Size	Housing type
Spherical roller bearings with tapered bore and adapter sleeve	22209..-K to 22244..-K	SAF500
	23024..-K to 23056..-K	SAFD0
Spherical roller bearings with cylindrical bore	22216 to 22244	SAFD200 and SAFD0
Split spherical roller bearings	222S to 230S	SAF500
Self-aligning ball bearings with tapered bore and adapter sleeve	1209..-K to 1222..-K	SAFD1500

### Further information

Further information can be found in the following publications:

HR 1 | Rolling Bearings |  
<https://www.schaeffler.de/std/1D3D>

TPI 250 | Split Spherical Roller Bearings |  
<https://www.schaeffler.de/std/1F81>

MON 102 | Split pillow block housings | SAF, SDAF |  
<https://www.schaeffler.de/std/1FDA>

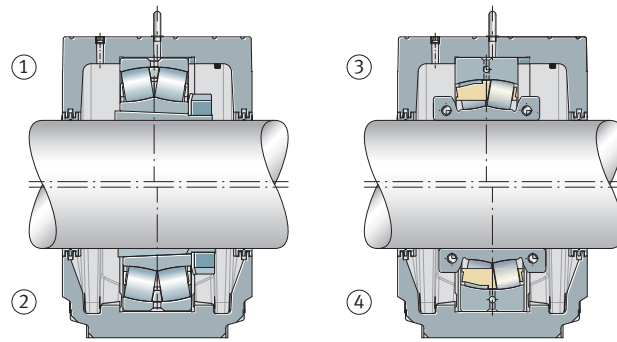
### 4.1 Floating and fixed bearings

The bearing seat in the housing is machined such that the bearings are movable and can thus function as floating bearings. Fixed bearing arrangements can be achieved by the insertion of a locating ring or multiple locating rings SR.

### 4.2 Mounting of split spherical roller bearing

In the case of pillow block housings SAF, an unsplit spherical roller bearing with a tapered bore and adapter sleeve can be replaced by a split spherical roller bearing 222S or 230S ►11 | 9.

9 Pillow block housings SAF with split and unsplit spherical roller bearing



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1	Fixed bearing with unsplit bearing	2	Floating bearing with unsplit bearing
3	Fixed bearing with split bearing	4	Floating bearing with split bearing

## 5 Housing materials and corrosion resistance

The standard material for the housing bodies is gray cast iron according to ASTM A48 Class 35. These housings have a gray paint coating (color RAL 7016, anthracite gray).

Ductile cast iron in accordance with ASTM A536 Grade 65-45-12 is also available as a housing material. In this case, the designation includes the additional letter D to indicate ductile cast iron as the material. The paint coating of the SAFD housings is red (color RAL 3020, traffic red).

Due to the different paint colors, it is possible to distinguish easily and clearly between housings made from gray cast iron and ductile cast iron.

The following finishes can be applied to the universal coating:

- synthetic resin
- polyurethane
- acrylic
- epoxy resin
- chlorinated rubber
- nitrocellulose
- acid-hardening hammer tone

Schaeffler applies corrosion inhibitor to the machined inner and outer surfaces of each housing. If desired, this protective coating can be easily removed.

Schaeffler recommends that only volatile solvents and lint-free cloths should be used.

## 6 Housing features depending on housing size

Some housing features vary according to housing size.

■ 2 Housing sizes and features SAF500

Housing	Base mounting bolt design, extended slots	Cap bolts in upper housing section	Eye bolts in upper housing section
Size	Quantity	Quantity	Quantity
SAF509	2 (SAF)	2	-
SAF510	2 (SAF)	2	-
SAF511	2 (SAF)	2	-
SAF513	2 (SAF)	2	-
SAF515	2 (SAF) or 4 (FSAF)	2	-
SAF516	2 (SAF) or 4 (FSAF)	2	-
SAF517	2 (SAF) or 4 (FSAF)	4	-
SAF518	2 (SAF) or 4 (FSAF)	4	-
SAF520	2 (SAF) or 4 (FSAF)	4	-
SAF522	4 (SAF)	4	2
SAF524	4 (SAF)	4	2
SAF526	4 (SAF)	4	2
SAF528	4 (SAF)	4	2
SAF530	4 (SAF)	4	2
SAF532	4 (SAF)	4	2
SAF534	4 (SAF)	4	2
SAF536	4 (SAF)	4	2
SAF538	4 (SAF)	4	2
SAF540	4 (SAF)	4	2
SAF544	4 (SAF)	4	2

■ 3 Housing sizes and features SAFD200

Housing	Base mounting bolt design, extended slots	Cap bolts in upper housing section	Eye bolts in upper housing section
Size	Quantity	Quantity	Quantity
SAFD216	2 (SAF) or 4 (FSAF)	2	-
SAFD217	2 (SAF) or 4 (FSAF)	4	-
SAFD218	2 (SAF) or 4 (FSAF)	4	-
SAFD220	2 (SAF) or 4 (FSAF)	4	-
SAFD222	4 (SAF)	4	2
SAFD224	4 (SAF)	4	2
SAFD226	4 (SAF)	4	2
SAFD228	4 (SAF)	4	2
SAFD230	4 (SAF)	4	2
SAFD232	4 (SAF)	4	2
SAFD234	4 (SAF)	4	2
SAFD236	4 (SAF)	4	2
SAFD238	4 (SAF)	4	2
SAFD240	4 (SAF)	4	2
SAFD244	4 (SAF)	4	2

#### 4 Housing sizes and features SAFD500-WS

Housing	Base mounting bolt design, extended slots	Cap bolts in upper housing section	Eye bolts in upper housing section
Size	Quantity	Quantity	Quantity
SAFD513-WS	2 (SAF)	2	-
SAFD515-WS	2 (SAF) or 4 (FSAF)	2	-
SAFD516-WS	2 (SAF) or 4 (FSAF)	2	-
SAFD517-WS	2 (SAF) or 4 (FSAF)	4	-
SAFD518-WS	2 (SAF) or 4 (FSAF)	4	-
SAFD520-WS	2 (SAF) or 4 (FSAF)	4	-
SAFD522-WS	4 (SAF)	4	2
SAFD524-WS	4 (SAF)	4	2
SAFD526-WS	4 (SAF)	4	2

#### 5 Housing sizes and features SAFD1500

Housing	Base mounting bolt design, extended slots	Cap bolts in upper housing section	Eye bolts in upper housing section
Size	Quantity	Quantity	Quantity
SAFD1509	2 (SAF)	2	-
SAFD1510	2 (SAF)	2	-
SAFD1511	2 (SAF)	2	-
SAFD1513	2 (SAF)	2	-
SAFD1515	2 (SAF) or 4 (FSAF)	4	-
SAFD1516	2 (SAF) or 4 (FSAF)	4	-
SAFD1517	2 (SAF) or 4 (FSAF)	4	-
SAFD1518	2 (SAF) or 4 (FSAF)	4	-
SAFD1520	2 (SAF) or 4 (FSAF)	4	-
SAFD1522	4 (SAF)	4	2

#### 6 Housing sizes and features SAFD0

Housing	Base mounting bolt design, extended slots	Cap bolts in upper housing section	Eye bolts in upper housing section
Size	Quantity	Quantity	Quantity
SAFD024	2 (SAF) or 4 (FSAF)	4	-
SAFD026	4 (SAF)	4	2
SAFD028	4 (SAF)	4	2
SAFD030	4 (SAF)	4	2
SAFD032	4 (SAF)	4	2
SAFD034	4 (SAF)	4	2
SAFD036	4 (SAF)	4	2
SAFD038	4 (SAF)	4	2
SAFD040	4 (SAF)	4	2
SAFD044	4 (SAF)	4	2
SAFD048	4 (SAF)	4	2
SAFD052	4 (SAF)	4	2
SAFD056	4 (SAF)	4	2

## 7 Seals and end covers

Labyrinth seals and Taconite seals are used to seal the bearing housing to the shaft. End covers EC and ECR are used with housings closed on one side ▶6 | 3. These seals and end covers are matched with the radial labyrinth grooves on each side of the housing.

### 7.1 Labyrinth seals LER

Labyrinth seals LER enable contact-free sealing, which makes them suitable for high speeds. The seal is supplied with an O-ring made from NBR. This O-ring seals to the shaft and is suitable for temperatures up to +100 °C.

Labyrinth seals allow shaft misalignment of up to 0.3° in all directions and are suitable for grease lubrication. If necessary, the labyrinth can be relubricated. For the purposes of relubrication, a lubrication hole must be made in the upper housing section for each labyrinth seal. Cast-in pilot holes on the top of the housing indicate the optimum positions for the lubrication holes.

### 7.2 Taconite seals SuperTAC II TA

Taconite seals SuperTAC II TA comprise 2 rings, of which one is located in the housing and the other on the shaft. Between these rings, an axial and a radial labyrinth are formed. Both labyrinths are filled with grease. The effectiveness of the radial labyrinth is increased by means of 2 spiral rings. Due to the non-contact sealing, Taconite seals are suitable for high speeds. The 2 O-rings made from NBR seal the rings against the housing and shaft are suitable for temperatures up to +100 °C.

Taconite seals SuperTAC II TA are specially designed for extreme operating conditions, which are characterized by heavy contamination and exposure to abrasive particles.

Taconite seals SuperTAC II TA allow shaft misalignment of up to 0.5° in both directions and are suitable for grease lubrication. The seals are fitted with a grease fitting for relubrication purposes.

The seals must be ordered separately.

### 7.3 Taconite seals MaxTAC NTC

Taconite seals MaxTAC NTC are suitable for extreme operating conditions in relation to contamination, dust, and fine particles. The seals are combined seals comprising a labyrinth seal and a V-ring. The V-ring prevents contamination from entering the housing and facilitates grease purging during relubrication. The V-ring is made from NBR and is suitable for temperatures up to +100 °C.

The seal MaxTAC NTC allows shaft displacement of up to 0.3° in all directions and is suitable for grease lubrication. The seal is fitted with a grease fitting for relubrication.

The seals must be ordered separately.

## 7.4 Characteristics and operating ranges of the standard seals

The characteristics and operating ranges of standard seals are compared in the following overview.

7 Standard seals for pillow block housings SAF

	Labyrinth seal	MaxTAC NTC	SuperTAC II TA
Designation	LER	NTC	TA
Material	Aluminum, NBR	Steel with Durotect Z (zinc phosphate coated), NBR	Steel with Durotect BS (black oxide coated), NBR
Low friction	++	+	+
<b>Preconditions for use</b>			
Shaft diameter tolerance	h8 (h9)	h8 (h9)	h8 (h9)
Shaft roughness	Ra 3.2 µm	Ra 3.2 µm	Ra 3.2 µm
<b>Area of application</b>			
Long term temperature	-40 °C to +100 °C	-40 °C to +100 °C	-40 °C to +100 °C
	-40 °F to +210 °F	-40 °F to +210 °F	-40 °F to +210 °F
Circumferential velocity	No restriction	12 m/s	No restriction
Misalignment	≤ 0.3 °	≤ 0.3 °	≤ 0.5 °
Sealing against dust	o	++	++
Sealing against fine solid particles	+	++	++
Sealing against coarse solid particles	+	++	++
Sealing against slivers	++	++	++
Sealing against spray liquids	-	++	++
Axial shaft displacement (suitability as fixed bearing)	+	+	+
Vertical arrangement	o	o	o
Grease relubrication	+	++	++
Oil lubrication	o	o	o
Sunlight	++	++	++

++	Highly suitable
+	Suitable
o	Suitable with restrictions
-	Not suitable



## 7.5 End covers EC

End covers EC are used with housings closed on one side. The end covers fit into the rectangular-section grooves in the housing. They are suitable for temperatures up to +100 °C.

The scope of delivery of a housing of universal design includes 1 end cover.

## 7.6 End covers ECR

End covers ECR are used with housings closed on one side. The end covers fit into the rectangular-section grooves in the housing. They are suitable for temperatures up to +200 °C.

The scope of delivery of a housing of universal design includes 1 end cover.

## 7.7 Characteristics and operating ranges of end covers

The characteristics and operating ranges of the end covers are compared in the following overview.

8 End covers for pillow block housings SAF

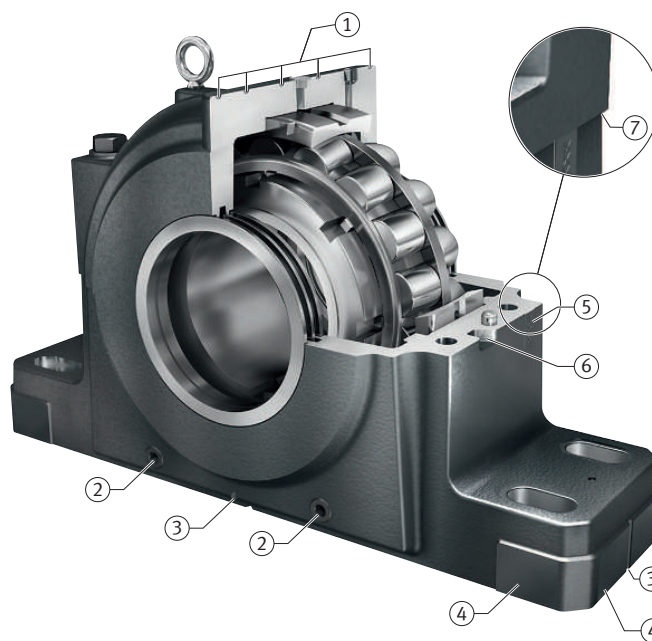
	End cover	
	EC	ECR
Designation	EC	ECR
Material	NBR	Gray cast iron and FKM
Low friction	Not applicable	Not applicable
<b>Preconditions for use</b>		
Shaft diameter tolerance	Not applicable	Not applicable
Shaft roughness	Not applicable	Not applicable
<b>Area of application</b>		
Long term temperature	-40 °C to +100 °C	-40 °C to +200 °C
	-40 °F to +210 °F	-40 °F to +390 °F
Circumferential velocity	Not applicable	Not applicable
Misalignment	Not applicable	Not applicable
Sealing against dust	++	++
Sealing against fine solid particles	++	++
Sealing against coarse solid particles	++	++
Sealing against slivers	++	++
Sealing against spray liquids	++	++
Axial shaft displacement (suitability as fixed bearing)	Not applicable	Not applicable
Vertical arrangement	++	++
Grease relubrication	++	++
Oil lubrication	+	+
Sunlight	++	++

++	Highly suitable
+	Suitable

## 8 Advantages of the detailed design

The new generation of split pillow block housings SAF has numerous design details that give advantages in mounting, operation, and maintenance.

10 Overview of the detailed design



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1	Marked connection points for lubricant supply and condition monitoring	2	Grease outlet holes
3	Indentations indicating the housing center	4	Machined locating faces
5	Serial numbering of housing halves	6	Dismounting notches
7	Overhang of upper housing section		

### 8.1 Tolerance

The bearing seat in split pillow block housings SAF is machined to G7.

## 8.2 Marked connection points for lubrication supply and condition monitoring

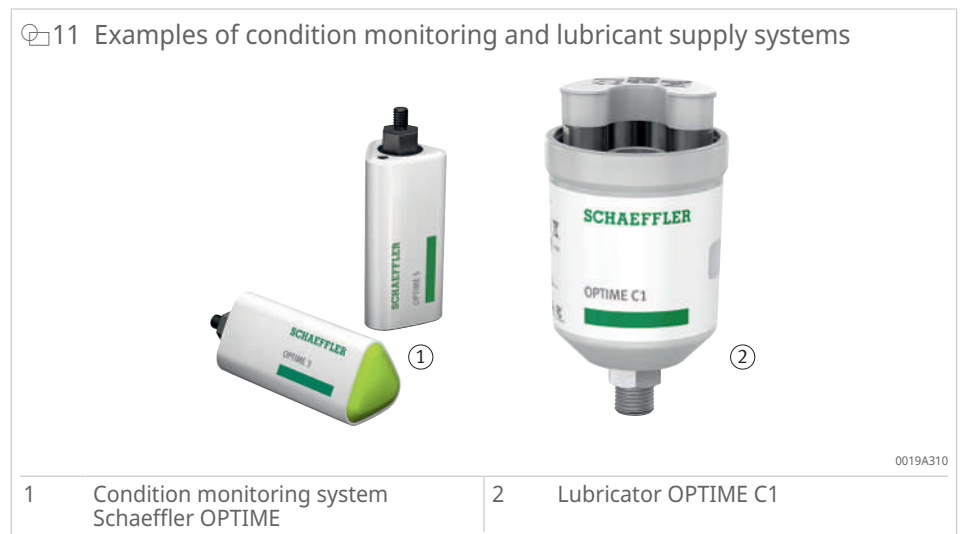
Certain positions on the upper housing section are particularly suitable for connecting the lubricant supply and for attaching the sensors used in condition monitoring. These positions are indicated by cast-in connection points and threaded holes with closing plugs. The marked connection points make it easier to connect the lubricant supply and the sensors used in condition monitoring and ensure correct positioning.

Possible connections for condition monitoring:

- Schaeffler SmartCheck, the modular online measuring system for machinery monitoring
- Schaeffler OPTIME
- other sensors for condition monitoring

The monitoring systems and lubricators must be ordered separately.

11 Examples of condition monitoring and lubricant supply systems



### Further information

Further information can be found in the following publications:

TPI 214 | Schaeffler SmartCheck |  
<https://www.schaeffler.de/std/1B6C>

TPI 252 | Lubricators |  
<https://www.schaeffler.de/std/1D4E>

TPI 271 | Lubricator | OPTIME C1 |  
<https://www.schaeffler.de/std/1FC2>

SDO | OPTIME

## 8.3 Grease outlet holes

A total of 4 grease outlet holes, 2 on each side of the lower housing section, allow the purging of used and excess grease during relubrication. It must be ensured that at least one of the grease outlet holes remains accessible during installation.

## 8.4 Indentations to indicate the housing center

Indentations on the end faces and lateral faces of the lower housing section indicate the housing center. These markings allow rapid alignment and reduce the mounting time.

## 8.5 Machined locating faces

Machined locating faces on the lower housing section allow precise alignment of the housing.

## 8.6 Serial numbers on housing halves

Serial numbers marked on the housing cap and housing base ensure that the upper and lower housing halves are correctly matched during assembly. The serial number enables clear identification of the product.

## 8.7 Dismounting notches

Recessed dismounting notches on the interface of the housing halves make it easier to remove the upper housing section.

## 8.8 Overhang of upper housing section

The overhang of the upper housing section serves to:

- prevent the collection of fluids and contaminants at the interface of the two housing halves
- reduce the risk of contaminants entering the housing
- reduce the risk of corrosion

## 9 Housing configurations

The modular structure of pillow block housings SAF facilitates numerous possible combinations.

### 9.1 Configurations of a housing of universal design

Based on the components that are included in the scope of delivery of a housing of universal design SAF..U, the following configurations are possible:

- location of bearings with a tapered bore by means of an adapter sleeve on a straight shaft or of bearings with a cylindrical bore on a stepped shaft
- inch size standard shaft diameter: sealing of housing by means of labyrinth seals
- Design of the bearing arrangement as a fixed bearing arrangement or a floating bearing arrangement: The additional insertion of a locating ring SR or several locating rings SR allows a floating bearing arrangement to be converted into a fixed bearing arrangement.
- continuous shaft with housing open on both sides
- non-continuous shaft with housing closed on one side by insertion of end cover EC or ECR

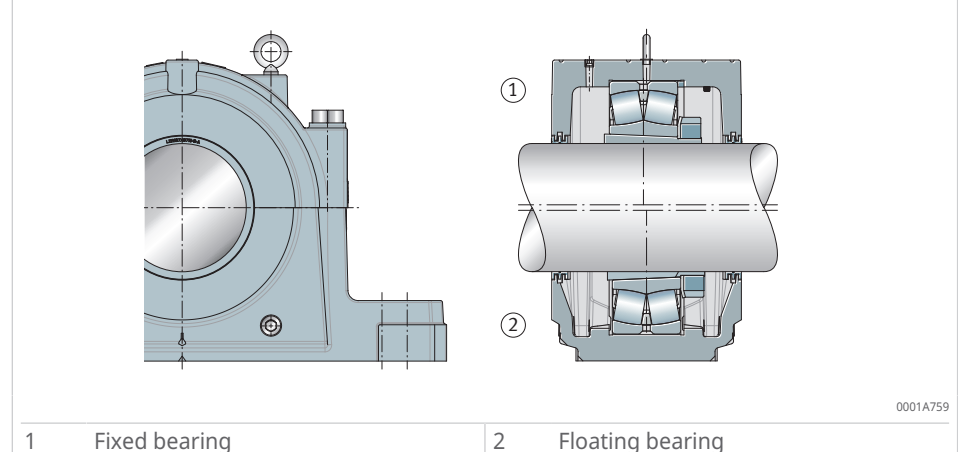
Even with one housing of universal design, a variety of housing configurations are possible.

#### Example 1

Features:

- spherical roller bearings with tapered bore and adapter sleeve
- continuous shaft
- fixed or floating bearing arrangement

12 SAF500 and SAFD0 for bearings with tapered bore and adapter sleeve, 2 labyrinth seals LER.

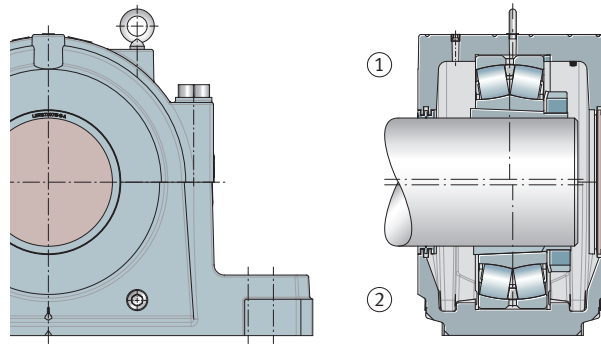


#### Example 2

Features:

- spherical roller bearings with tapered bore and adapter sleeve
- non-continuous shaft
- fixed or floating bearing arrangement

☞ 13 SAF500 and SAFD0 for bearings with tapered bore and adapter sleeve. Labyrinth seal LER and end cover EC or ECR.



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1 Fixed bearing

2 Floating bearing

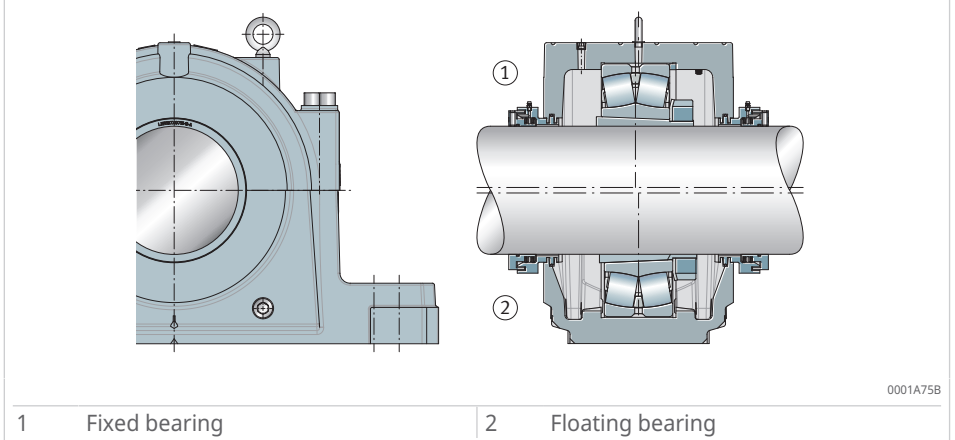
## 9.2 Configurations with further accessories

Additional sealing variants are available.

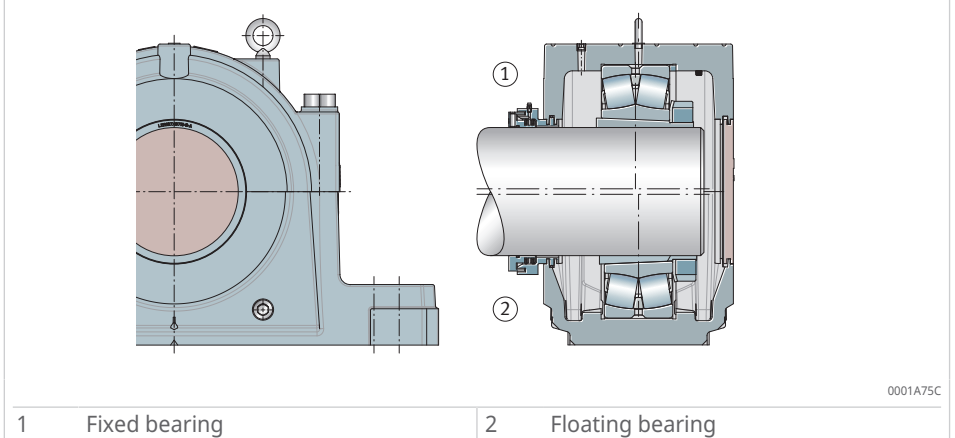
- Taconite seals for the following shaft variants:
  - shafts with standard shaft diameters
  - shafts with diameters other than standard
  - inch size and metric shafts
- Labyrinth seals for the following shaft variants:
  - shafts with diameters other than standard
  - inch size and metric shafts

### Configurations for pillow block housing SAF500 and SAFD0

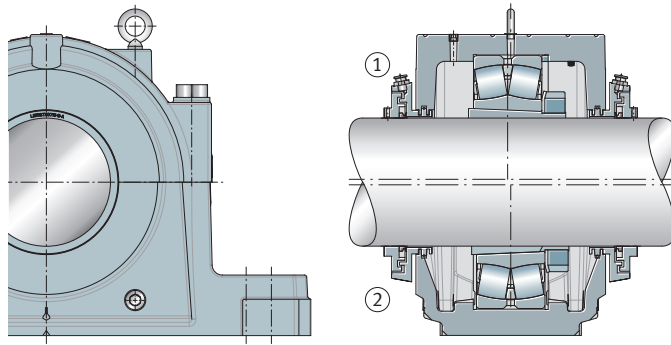
14 SAF500 and SAFD0 for bearings with tapered bore and adapter sleeve.  
2 Taconite seals SuperTAC II TA.



15 SAF500 and SAFD0 for bearings with tapered bore and adapter sleeve.  
Taconite seal SuperTAC II TA and end cover EC or ECR.



☞ 16 SAF500 and SAFD0 for bearings with tapered bore and adapter sleeve. 2 Taconite seals MaxTAC NTC.

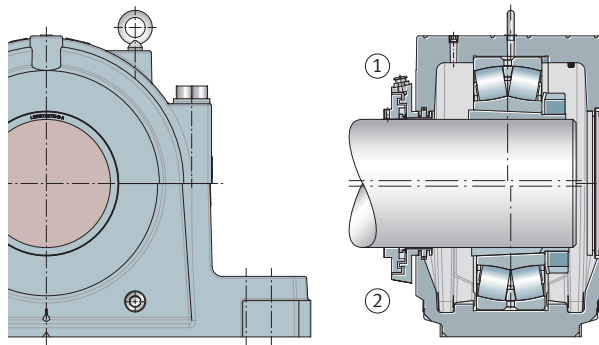


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1 Fixed bearing

2 Floating bearing

☞ 17 SAF500 and SAFD0 for bearings with tapered bore and adapter sleeve. Taconite seal MaxTAC NTC and end cover EC or ECR.



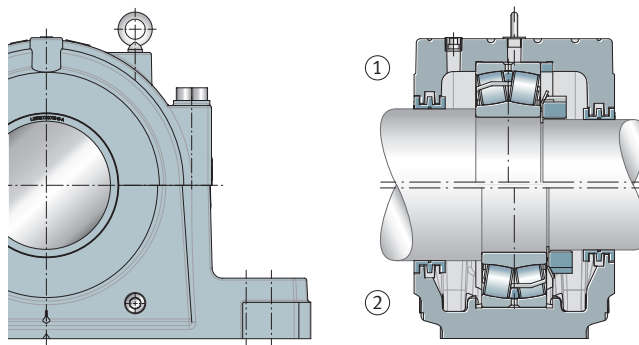
0019A3EC

1 Fixed bearing

2 Floating bearing

### Configurations for pillow block housing SAFD200

☞ 18 SAFD200 for bearings with cylindrical bore and stepped shaft. 2 labyrinth seals LER.



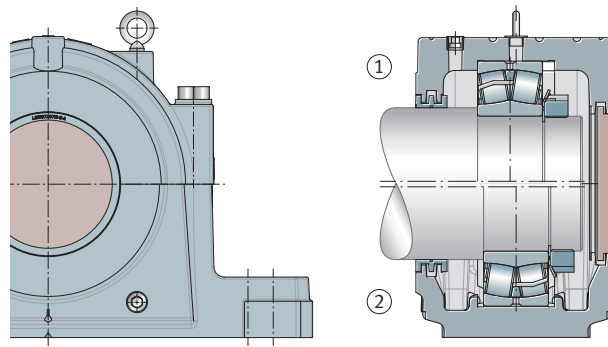
001A14FE

1 Fixed bearing

2 Floating bearing



☐19 SAFD200 for bearings with cylindrical bore and stepped shaft. Labyrinth seal LER and end cover EC.

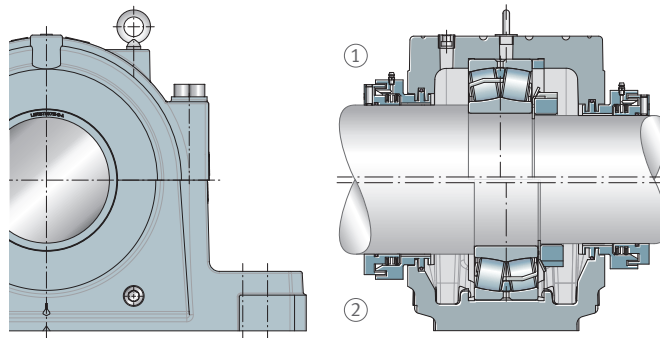


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1 Fixed bearing

2 Floating bearing

☐20 SAFD200 for bearings with cylindrical bore and stepped shaft. 2 Taconite seals SuperTAC II TA.

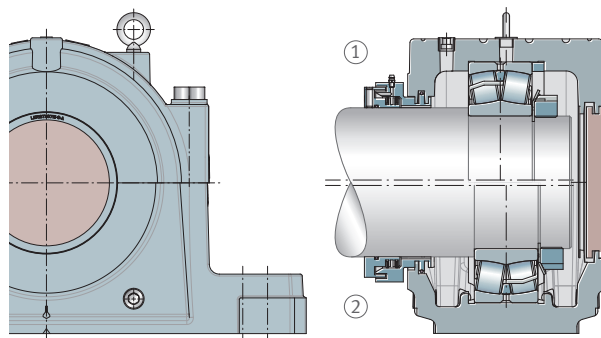


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1 Fixed bearing

2 Floating bearing

☐21 SAFD200 for bearings with cylindrical bore and stepped shaft. Taconite seal SuperTAC II TA and end cover EC.



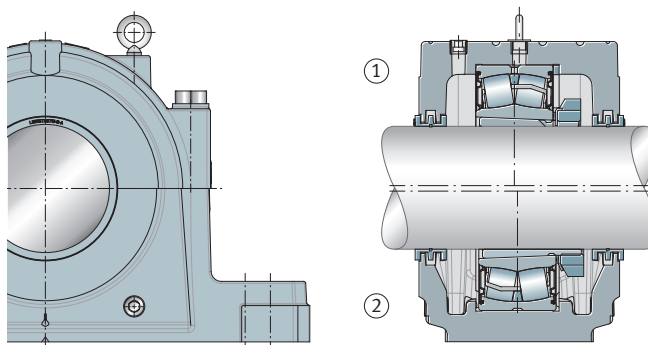
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1 Fixed bearing

2 Floating bearing

### Configurations for pillow block housing SAFD500-WS

☞22 SAFD500-WS for bearings with tapered bore and adapter sleeve. 2 labyrinth seals LER.

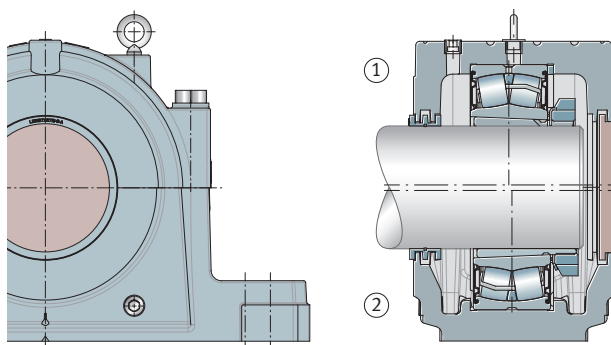


1 Fixed bearing

2 Floating bearing

001A152F

☞23 SAFD500-WS for bearings with tapered bore and adapter sleeve. Seal LER and end cover EC.

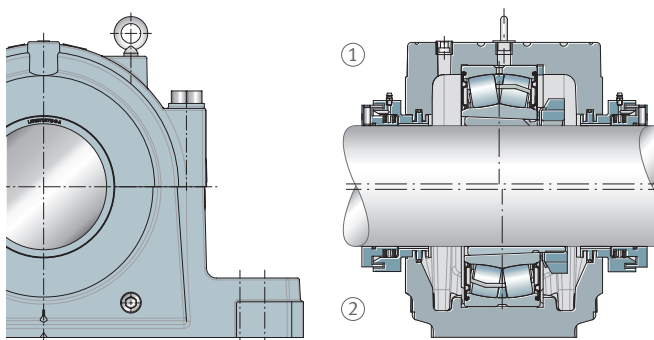


1 Fixed bearing

2 Floating bearing

001A1532

☞24 SAFD500-WS for bearings with tapered bore and adapter sleeve. 2 Taconite seals SuperTAC II TA.

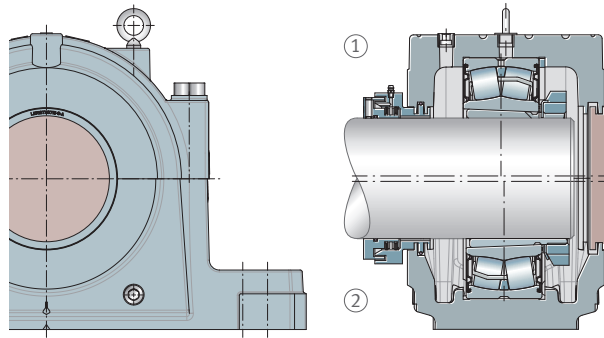


1 Fixed bearing

2 Floating bearing

001AC79B

☐25 SAFD500-WS for bearings with tapered bore and adapter sleeve. Taconite seal SuperTAC II TA and end cover EC or ECR.

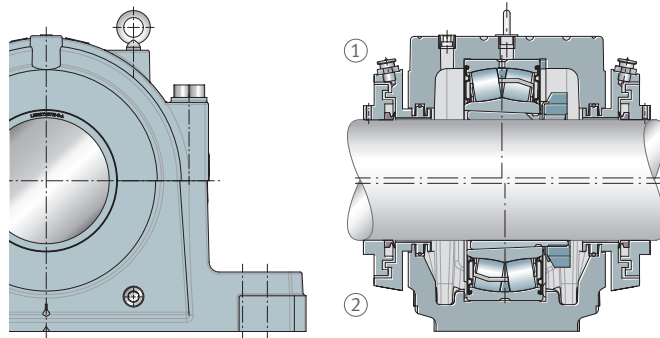


001AC7AB

1 Fixed bearing

2 Floating bearing

☐26 SAFD500-WS for bearings with tapered bore and adapter sleeve. 2 Taconite seals MaxTAC NTC.

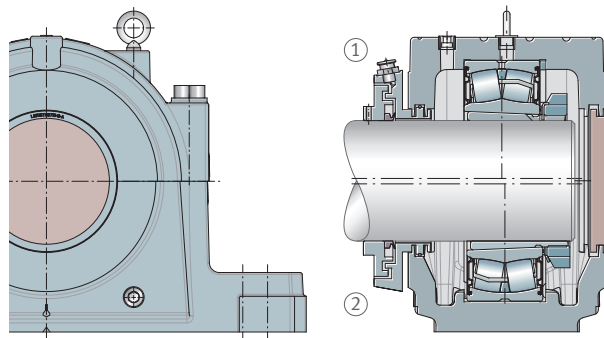


001AC7BB

1 Fixed bearing

2 Floating bearing

☐27 SAFD500-WS for bearings with tapered bore and adapter sleeve. Taconite seal MaxTAC NTC and end cover EC.



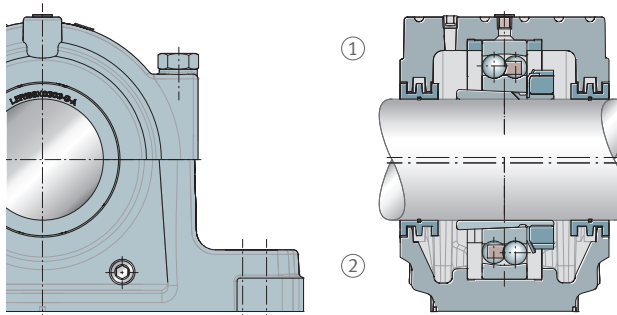
001AC7CB

1 Fixed bearing

2 Floating bearing

### Configurations for pillow block housing SAFD1500

☞28 SAFD1500 for bearings with tapered bore and adapter sleeve. 2 labyrinth seals LER.

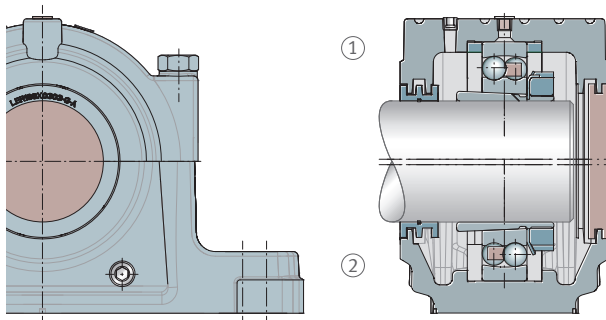


001AC7DB

1 Fixed bearing

2 Floating bearing

☞29 SAFD1500 for bearings with tapered bore and adapter sleeve. Labyrinth seal LER and end cover EC.

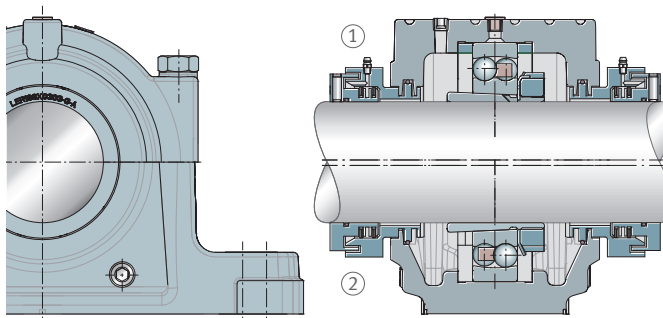


001AC7EB

1 Fixed bearing

2 Floating bearing

☞30 SAFD1500 for bearings with tapered bore and adapter sleeve. 2 Taconite seals SuperTAC II TA.

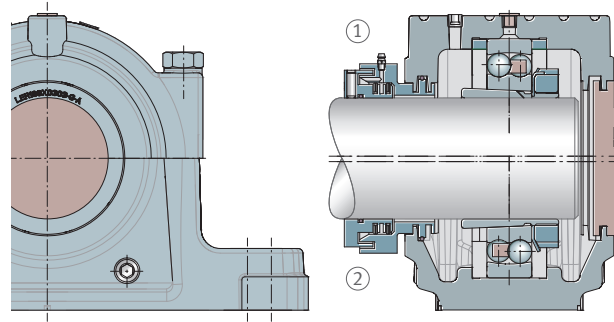


001AC7FB

1 Fixed bearing

2 Floating bearing

31 SAFD1500 for bearings with tapered bore and adapter sleeve. Taconite seal SuperTAC II TA and end cover EC.

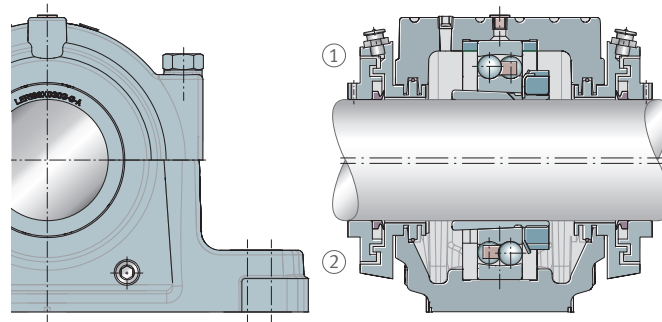


001AC80B

1 Fixed bearing

2 Floating bearing

32 SAFD1500 for bearings with tapered bore and adapter sleeve. 2 Taconite seals MaxTAC NTC.

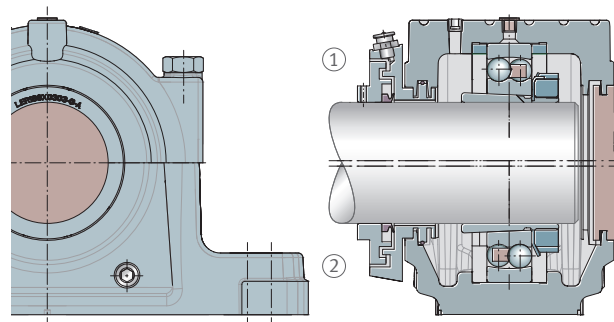


001AC81C

1 Fixed bearing

2 Floating bearing

33 SAFD1500 for bearings with tapered bore and adapter sleeve. Taconite seal MaxTAC NTC and end cover EC.



001AC82C

1 Fixed bearing

2 Floating bearing

## 10 Lubrication

Split pillow block housings SAF are primarily intended for grease lubrication. Oil bath lubrication for labyrinth seals LER is, however, also possible under certain conditions. Please ensure that you contact Schaeffler Group Industrial before using oil bath lubrication.

### 10.1 Greases

In order to achieve a long operating life and high operational reliability of the bearing arrangement, Schaeffler recommends the use of Arcanol rolling bearing greases. These rolling bearing greases have been designed and tested for bearing applications.

### 10.2 Grease quantities

For initial greasing, the basic rule is that the bearing should be filled with grease to 100 % and the free volume of the housing to 60 %. The recommended grease quantities are based on this rule. The free volume is the space that remains in the housing once the bearing, adapter sleeve, shaft and seals have been fitted.

☐9 Recommended grease quantity 100 % fill

Spherical roller bearing	SAFD200	SAF500	SAFD0
	series 222	series 222..-K	series 230..-K
Bore code	Recommended grease quantity		
	≈ g		
09	-	20	-
10	-	20	-
11	-	30	-
13	-	45	-
15	-	50	-
16	75	75	-
17	80	80	-
18	105	105	-
20	150	150	-
22	260	260	-
24	265	265	150
26	340	340	190
28	410	410	230
30	525	525	250
32	655	655	270
34	880	880	380
36	890	890	510
38	1070	1070	460
40	1220	1220	670
44	1695	1695	880
48	-	-	610
52	-	-	1240
56	-	-	1500

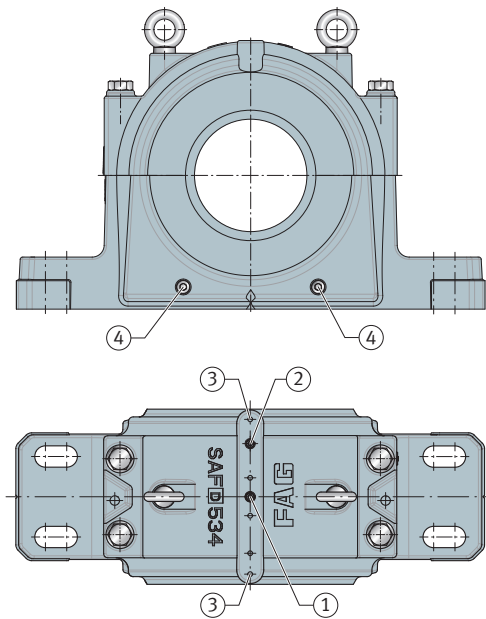
 10 Recommended grease quantity 60 % fill

Spherical roller bearing Bore code	SAFD200	SAF500 and SAFD500-WS	SAFDO
	series 222	series 222..-K	series 230..-K
Recommended grease quantity			
≈ g			
09	-	85	-
10	-	110	-
11	-	140	-
13	-	220	-
15	-	250	-
16	370	370	-
17	375	375	-
18	400	400	-
20	600	600	-
22	800	800	-
24	1130	1130	600
26	1475	1475	800
28	1500	1500	1130
30	1700	1700	1150
32	1930	1930	1150
34	2400	2400	1500
36	2700	2700	1930
38	3390	3390	1930
40	3900	3900	2400
44	5200	5200	3900
48	-	-	3900
52	-	-	5200
56	-	-	6325

### 10.3 Relubrication

#### Bearings with circumferential lubrication groove

34 Points for relubrication



0008749F

1	Central lubrication hole, for bearings with lubrication groove	2	Lateral lubrication hole, for bearings without lubrication groove
3	Cast-in connection points for relubrication of labyrinth seals	4	Grease outlet holes, 2 per side

When relubrication is carried out on bearings with a circumferential lubrication groove, the grease is introduced into the housing via the central lubrication hole. In this type of relubrication, the grease acts directly on the bearing raceway.

In the lower housing section, each side of the housing has 2 grease outlet holes with screw plugs.

#### Bearings without circumferential lubrication groove

When relubricating bearings that do not have a circumferential lubrication groove, grease is introduced via a lubrication hole located in the side of the housing's upper section. Depending on the housing size, this lubrication hole's thread size is either 1/8" - 27 NPT or 1/4" - 18 NPT. The lubrication hole is sealed with a screw plug. Remove the screw plug and permanently replace it with one of the supplied grease fittings.

#### Additional lubrication holes for labyrinth seals


Lubrication holes can be provided at 2 further points for relubrication of labyrinth seals.

Grease fittings with dust cap are supplied as follows:

- button head grease fitting 1/8" - 27 NPT or 1/4" - 18 NPT
- taper type grease fitting 1/8" - 27 NPT or 1/4" - 18 NPT



In order to prevent overgreasing, at least one of the screw plugs in the grease outlet holes in the lower housing section must be removed for the duration of relubrication. For optimum relubrication, remove the screw plug on the side opposite the grease inlet. Removing this screw facilitates the movement of fresh grease through the bearing.

-  Contaminants can enter the interior of the housing when the grease outlet holes are opened.

# 11 Designation structure

Designation structure of split pillow block housings SAF, accessories and kits SAF.

## 35 Designation structure of pillow block housings SAF

F SAF D 5 18 X0303 U - WS

**Number of extended slots for base mounting bolts**

- 2 or 4 extended slots, dependent on series
- F 4 extended slots

**Series**

SAF Split pillow block housings SAF

**Housing material**

- Gray cast iron
- D Ductile cast iron
- S Steel cast iron, available upon request

**Housing design**

- 5 Housing suitable for:
  - Spherical roller bearings 222...-K and mounting by means of adapter sleeve
  - Split spherical roller bearings 222S with cylindrical bore
- 2 Housing suitable for spherical roller bearings 222
- 0 Housing suitable for:
  - Spherical roller bearings 230...-K and mounting by means of adapter sleeve
  - Split spherical roller bearings 230S

**Bore code of bearing**

18 Bore diameter 18 · 5 mm = 90 mm

**Bore design**

- Cylindrical bore
- K Tapered bore, applies to spherical roller bearings 230...-K only

**Standard shaft diameter**

X0303 Inch size shaft diameter:  
 3 inch + 3 · 1/16 inch = 3 3/16 inch

**Delivered condition**

U Housing is supplied in universal design

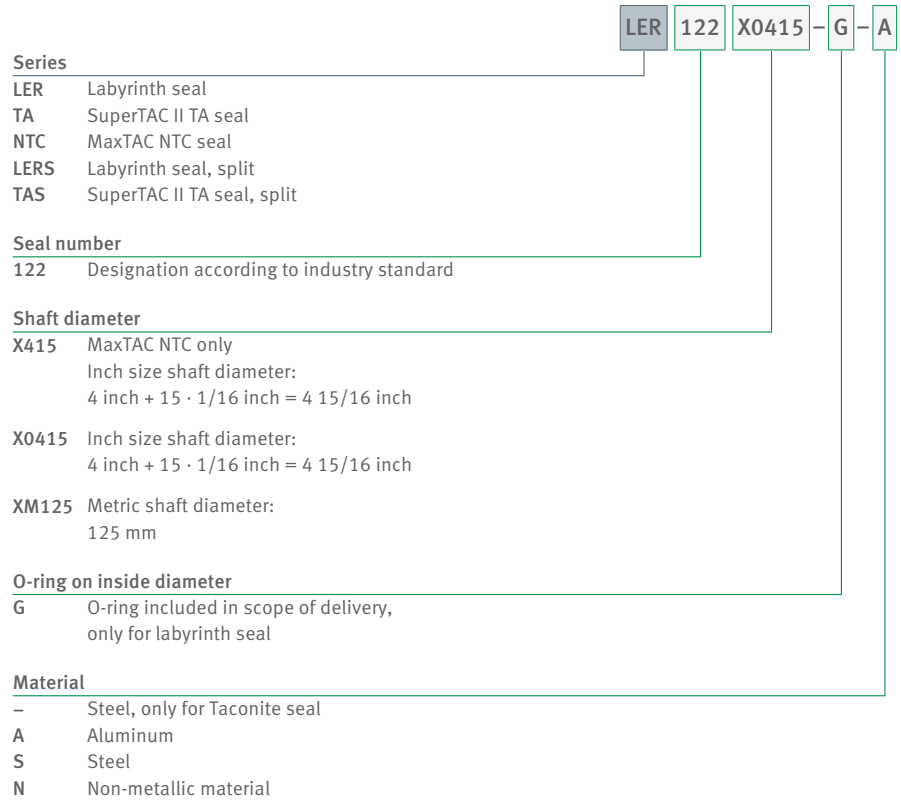
**Bearing design**

- Open bearing and split bearing
- WS Sealed bearing WS (Wide Size)

00182021

11

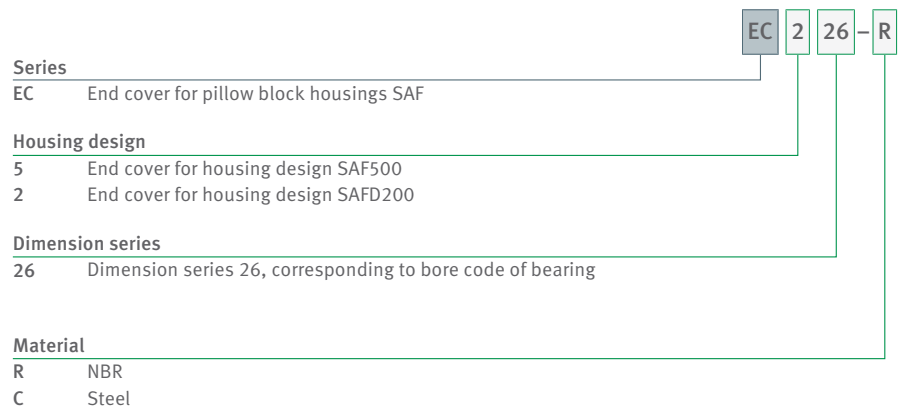
36 Designation structure of standard seals



001B2031

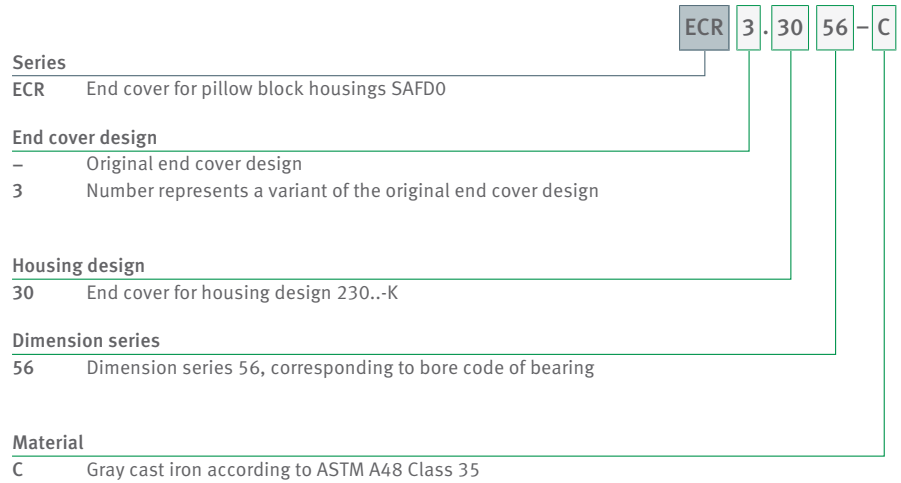
11

37 Designation structure of end covers EC



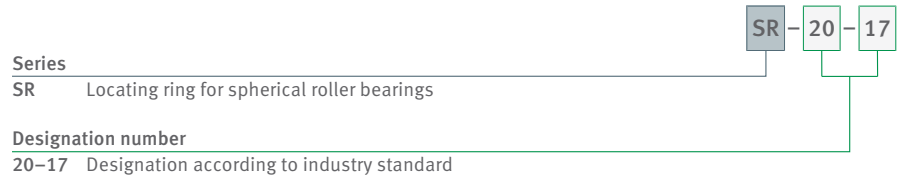
001B2041

38 Designation structure of end covers ECR



001B2051

39 Designation structure of locating rings suitable for the corresponding spherical roller bearing



001B2061

40 Designation structure of kits SAF500

F SAF D 22 5 20 X 0307 U - M - C3

**Number of extended slots for base mounting bolts**

- For SAF509 to SAF520: 2 extended slots
- For SAF522 to SAF544: 4 extended slots

F For FSAF515 to FSAF520: 4 extended slots

**Series**

SAF Split pillow block housings SAF

**Housing material**

- Gray cast iron
- D Ductile cast iron

**Housing design**

22 Spherical roller bearing 22...-K and adapter sleeve SNW are included in the scope of delivery

**Housing design**

- 5 Housing suitable for:
- Spherical roller bearings 222...-K and mounting by means of adapter sleeve
  - Split spherical roller bearings 222S with cylindrical bore

**Bore code of bearing**

20 Bore diameter  $20 \cdot 5 \text{ mm} = 100 \text{ mm}$

**Unit for shaft diameter**

- X inch
- XM mm

**Standard shaft diameter**

0307 Inch size shaft diameter:  
 $3 \text{ inch} + 7 \cdot 1/16 \text{ inch} = 3 \frac{7}{16} \text{ inch}$

**Delivered condition**

U Housing is supplied in universal design

**Cage design**

- M Brass
- S Steel

**Radial internal clearance**

- Normal
- C3 Larger than CN

001B2071

## 12 Ordering examples

Take note of the housing design when ordering a split pillow block housing SAF. ▶6 | 2. Depending on the desired housing configuration, the required accessories will either be included or may need to be ordered separately.

The ordering examples illustrate the constructing of orders for specific housing configurations, including the allocation of appropriate bearings and accessories ▶48 | 16.

### 12.1 Example 1

Pillow block housing SAF with the following characteristics:

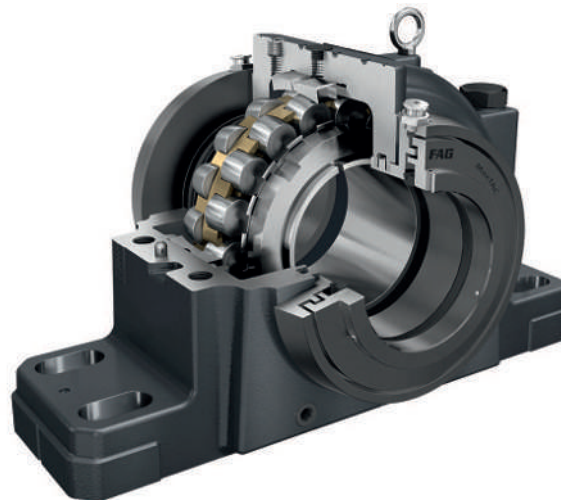
- standard series made from gray cast iron
- 4 extended slots for base mounting bolts
- housing closed on one side
- shaft with 4 inch diameter
- spherical roller bearing as fixed or floating bearing
- location by means of adapter sleeve with inch size thread
- Taconite seal MaxTAC NTC

Parts ordered:

Quantity	Designation	Ordering number
1	Pillow block housing	SAF522X0315U
1	Spherical roller bearing	22222-E1A-XL-M
2	Taconite seal MaxTAC NTC	NTC110X400
1	Adapter sleeve <sup>1)</sup>	SNW22X0400

<sup>1)</sup> For information about this product, please refer to medias, medias.schaeffler.com.

41 Configuration SAF522X0400U with Taconite seal MaxTAC NTC



001B1031

## 12.2 Example 2

SAF500 kit with the following characteristics:

- standard series housing made from ductile cast iron
- 4 extended slots for base mounting bolts
- housing open on both sides
- shaft with 3 <sup>15</sup>/<sub>16</sub> inch diameter
- spherical roller bearing 22222-E1-XL-K-C3 as fixed or floating bearing
- location by means of adapter sleeve with inch size thread

Parts ordered:

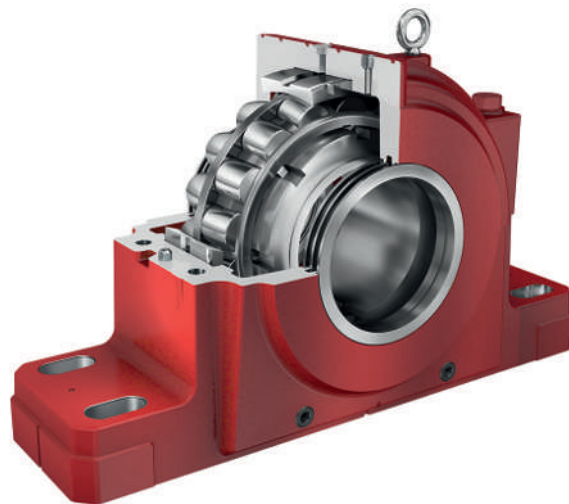
Quantity	Designation	Ordering number
1	SAF500 kit	SAFD22522X0315U-S-C3

Kit items included:

Quantity	Designation	Ordering number
1	Pillow block housing	SAFD522X0315U
1	Spherical roller bearing	22222-E1-XL-K-C3
1	Adapter sleeve <sup>1)</sup>	SNW22X0315

<sup>1)</sup> For information about this product, please refer to medias, medias.schaeffler.com.

42 Configuration SAFD22522X0315U-S-C3



001AE1D8

### 12.3 Example 3

Pillow block housing SAF with the following characteristics:

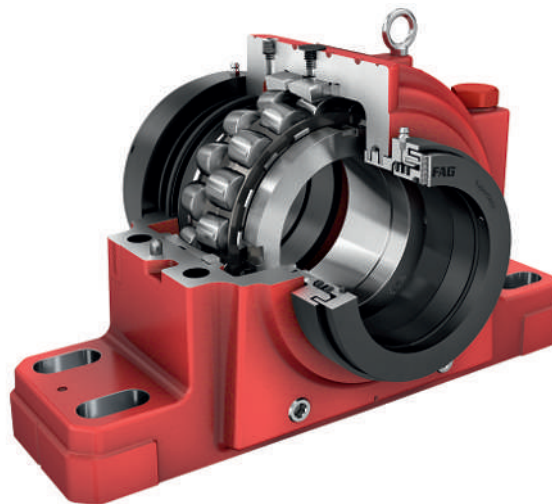
- standard series made from ductile cast iron
- 4 extended slots for base mounting bolts
- housing open on both sides and with stepped shaft
- shaft with 4 7/8 inch and 4 3/16 inch diameter
- spherical roller bearing 22222-E1-XL as fixed or floating bearing
- location by means of locknut with inch size thread and locking washer
- Taconite seals SuperTAC II TA

Parts ordered:

Quantity	Designation	Ordering number
1	Pillow block housing	SAFD222U
1	Spherical roller bearing	22222-E1-XL
1	Taconite seal SuperTAC II TA	TA121X0414
1	Taconite seal SuperTAC II TA	TA113X0403
1	Locknut	AN24
1	Locking washer	W-24

12

43 Configuration SAFD222U with Taconite seal SuperTAC II TA



0019A215



## 12.4 Example 4

Pillow block housing SAF with the following characteristics:

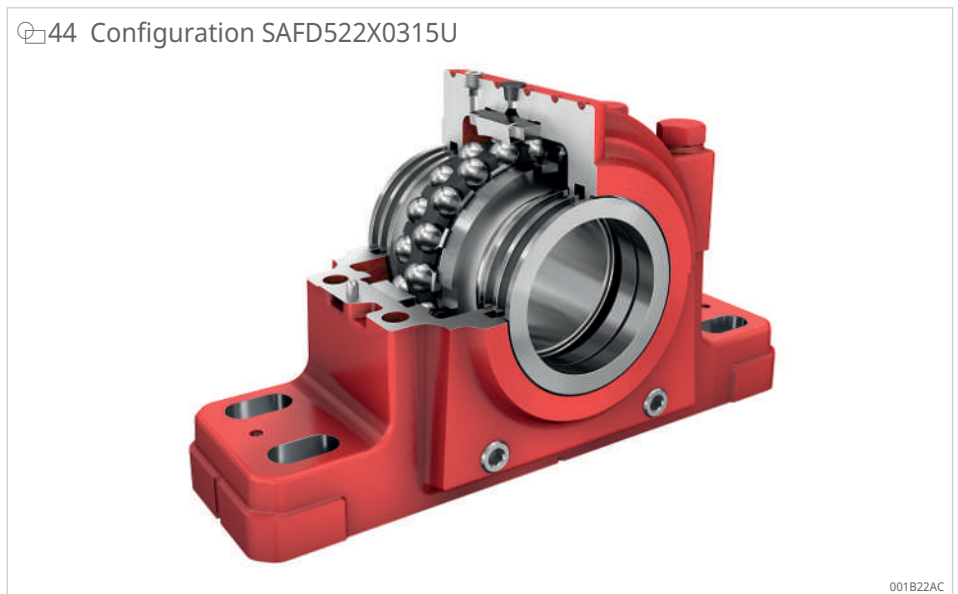
- standard series made from ductile cast iron
- 4 extended slots for base mounting bolts
- housing open on both sides
- shaft with 3 <sup>15</sup>/<sub>16</sub> inch diameter
- self-aligning ball bearing 1222-K-M as fixed or floating bearing
- locating rings suitable for the corresponding self-aligning ball bearing
- location by means of adapter sleeve with inch size thread

Parts ordered:

Quantity	Designation	Ordering number
1	Pillow block housing	SAFD522X0315U
1	Spherical roller bearing	1222-K-M
1	Adapter sleeve <sup>1)</sup>	SNW22X0315

<sup>1)</sup> For information about this product, please refer to medias, medias.schaeffler.com.

44 Configuration SAFD522X0315U



## 12.5 Example 5

Pillow block housing SAF with the following characteristics:

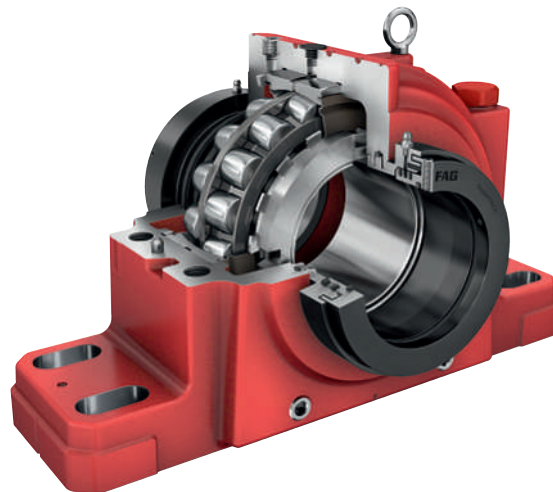
- wide series housing made from ductile cast iron
- 4 extended slots for base mounting bolts
- housing open on both sides
- shaft with 3 15/16 inch diameter
- sealed spherical roller bearing WS22222-E1-XL-K-2RSR as fixed or floating bearing
- location by means of adapter sleeve with inch size thread
- Taconite seals SuperTAC II TA

Quantity	Designation	Ordering number
1	Pillow block housing	SAFD522X0315U-WS
1	Sealed spherical roller bearing	WS22222-E1-XL-K-2RSR
2	Taconite seal SuperTAC II TA	TA109X0315
1	Adapter sleeve <sup>1)</sup>	H322X315-T-WS

<sup>1)</sup> For information about this product, please refer to medias, medias.schaeffler.com.

12

45 Configuration SAFD522X0315U-WS with Taconite seal SuperTAC II TA



0019A247

## 13 Load carrying capacity

Guide values are given for the breaking load of pillow block housings and the maximum load carrying capacity of cap bolts for the upper and lower housing sections. The guide values are valid for purely static loading.

The guide values are only valid if the flatness of the mounting surface is in accordance with DIN EN ISO 1101 and corresponds to the tolerance grade IT7 in accordance with DIN EN ISO 286-1 (measured across the diagonal). A precondition for supporting loads is that the housing base surface is completely and rigidly supported.

When determining the permissible static load, safety factors must be applied. For general machine building, the safety factor 5, relative to the housing breaking load, is normally applied.

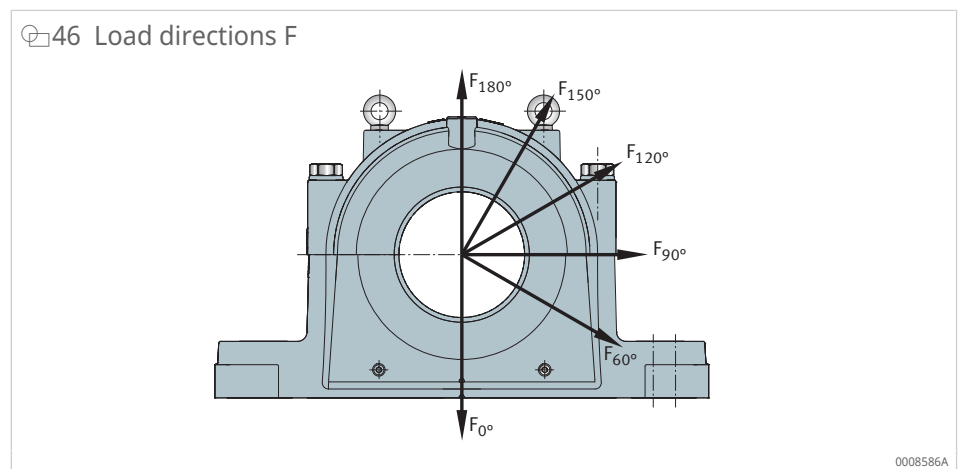
A safety factor is not required for the values given for the load carrying capacity of the cap bolts.

Additional factors influencing load carrying capacity:

- If the housing is subjected to axial load, the permissible axial load of the installed bearing must be taken into consideration.
- If an adapter sleeve is used to locate the bearing on the shaft, the axial retaining force of the bearing and adapter sleeve must also be taken into consideration.

If the load direction is between 60° and 120° or axial load is present, the housing must be secured in the load direction by means of stops.

The specified tightening torques are valid for cap bolts in accordance with SAE J 429 and ASTM A449 Grade 5.



11 Guide values for the breaking load of housings made from gray cast iron for spherical roller bearings 222..-K

Housing	Housing breaking load in load direction F						
	0°	60°	90°	120°	150°	180°	axial
	kN	kN	kN	kN	kN	kN	kN
SAF515	824	277	211	152	140	168	101
FSAF515	824	576	436	216	171	171	101
FSAF516	855	521	402	179	159	189	132
SAF517	956	312	229	168	154	185	132
FSAF517	956	612	395	236	189	189	132
SAF518	1047	342	251	184	169	202	146
FSAF518	1047	694	527	258	207	262	146
SAF520	1561	509	374	274	252	301	176

Housing	Housing breaking load in load direction F						
	0°	60°	90°	120°	150°	180°	axial
	kN	kN	kN	kN	kN	kN	kN
FSAF520	1561	1034	785	387	307	309	176
SAF522	1636	1086	823	405	322	325	203
SAF524	2090	1386	1052	518	414	414	203
SAF526	2882	1911	1450	714	569	572	247
SAF528	2432	1612	1223	603	480	563	292
SAF532	2818	1868	1419	698	556	558	343
SAF534	2762	1833	1390	685	545	547	426
SAF536	3013	1999	1517	747	596	596	490
SAF538	2931	1944	1475	727	578	580	533
SAF544	4863	3225	2449	1208	961	963	709

12 Guide values for the breaking load of housings made from ductile cast iron for spherical roller bearings 222 and 222..-K

Housing		Housing breaking load in load direction F						
		0°	60°	90°	120°	150°	180°	axial
		kN	kN	kN	kN	kN	kN	kN
SAFD509	-	614	373	238	104	83	136	87
SAFD510	-	728	350	217	132	144	172	87
SAFD511	-	681	380	252	153	167	200	118
SAFD513	-	1256	396	278	169	185	221	154
SAFD515	-	1256	423	322	232	214	256	154
FSAFD515	-	1256	878	665	329	261	261	154
SAFD516	SAFD216	1337	427	325	235	216	258	206
FSAFD516	FSAFD216	1337	815	629	280	249	296	206
SAFD517	SAFD217	1495	488	358	262	241	289	206
FSAFD517	FSAFD217	1495	957	618	369	296	296	206
SAFD518	SAFD218	1654	540	396	290	267	319	230
FSAFD518	FSAFD218	1654	1096	832	407	327	414	230
SAFD520	SAFD220	2511	819	601	441	405	485	283
FSAFD520	FSAFD220	2511	1663	1263	623	494	497	283
SAFD522	SAFD222	2669	1772	1342	660	526	530	332
SAFD524	SAFD224	3410	2260	1716	845	675	675	332
SAFD526	SAFD226	4791	3176	2411	1187	947	950	411
SAFD528	SAFD228	4109	2724	2067	1018	812	951	493
SAFD530	SAFD230	4352	2887	2189	1077	861	861	550
SAFD532	SAFD232	4836	3207	2435	1199	954	958	589
SAFD534	SAFD234	5101	3385	2567	1265	1006	1011	786
SAFD536	SAFD236	5354	3553	2695	1328	1059	1059	871
SAFD538	SAFD238	5251	3482	2641	1303	1036	1040	955
SAFD540	SAFD240	5991	3973	3016	1488	1186	1484	1060
SAFD544	SAFD244	8955	5939	4510	2224	1769	1774	1306

13 Tightening torques and maximum load carrying capacity of cap bolts


Housing			Cap bolts	Tightening torque		Maximum load carrying capacity in load direction F <sup>1)</sup>			
				M <sub>A</sub>		120°	150°	180°	axial
				ft-lbs	Nm				
SAF500 and FSAF500	SAFD200 and FSAFD200	SAFD0 and FSAFD0							
SAF509	-	-	7/16" - 14 UNC	35	45	345	181	147	173
SAF510	-	-	1/2" - 13 UNC	55	70	464	244	197	232
SAF511	-	-	1/2" - 13 UNC	55	70	464	244	197	232
SAF513	SAFD213	-	1/2" - 13 UNC	55	70	464	244	197	232

Housing			Cap bolts	Tightening torque		Maximum load carrying capacity in load direction F <sup>1)</sup>			
				M <sub>A</sub>			120°	150°	180°
SAF500 and FSAF500	SAFD200 and FSAFD200	SAFD0 and FSAFD0		ft-lbs	Nm	kN	kN	kN	kN
SAF513	SAFD213	-	1/2" - 13 UNC	55	70	464	244	197	232
SAF515	SAFD215	-	1/2" - 13 UNC	55	70	464	244	197	232
FSAF515	SAFD215	-	1/2" - 13 UNC	55	70	464	244	197	232
SAF516	SAFD516	-	5/8" - 11 UNC	105	140	464	244	197	232
FSAF516	SAFD216	-	5/8" - 11 UNC	105	140	464	244	197	232
SAF517	SAFD517	-	5/8" - 11 UNC	105	140	464	244	197	232
FSAF517	SAFD217	-	5/8" - 11 UNC	105	140	464	244	197	232
SAF518	SAFD518	-	5/8" - 11 UNC	105	140	725	260	230	240
FSAF518	SAFD218	-	5/8" - 11 UNC	105	140	725	260	230	240
SAF520	SAFD220	SAFD024	5/8" - 11 UNC	105	140	725	260	230	240
FSAF520	SAFD220	FSAFD024	5/8" - 11 UNC	105	140	725	260	230	240
SAF522	SAFD222	SAFD026	3/4" - 10 UNC	185	255	1094	574	465	547
SAF524	SAFD224	SAFD028	3/4" - 10 UNC	185	255	1094	574	465	547
SAF526	SAFD226	-	3/4" - 10 UNC	185	255	1094	574	465	547
-	-	SAFD030	3/4" - 10 UNC	185	255	1094	574	465	547
-	-	SAFD032	3/4" - 10 UNC	185	255	1094	574	465	547
SAF528	SAFD228	SAFD232	3/4" - 10 UNC	185	255	1094	574	465	547
SAF530	SAFD230	-	3/4" - 10 UNC	185	255	1094	574	465	547
SAF532	SAFD232	SAFD036	3/4" - 10 UNC	185	255	1094	574	465	547
-	-	SAFD038	3/4" - 10 UNC	185	255	1094	574	465	547
SAF534	SAFD234	SAFD040	3/4" - 10 UNC	185	255	1094	574	465	547
SAF536	SAFD236	-	1" - 8 UNC	450	610	1983	1041	843	992
SAF538	SAFD238	SAFD044	1" - 8 UNC	450	610	1983	1041	843	992
SAF540	SAFD240	SAFD048	1" - 8 UNC	450	610	1983	1041	843	992
SAF544	SAFD244	SAFD052	1 1/4" - 7 UNC	785	1065	2793	1466	1187	1396
-	-	SAFD056	1 1/4" - 7 UNC	785	1065	2793	1466	1187	1396

1) Maximum load carrying capacity in load direction F for maintaining contact at the parting surface between the upper housing section and lower housing section

## 14 Eye bolts

For certain housing sizes, each upper housing section has threaded holes for 2 eye bolts in accordance with ANSI B18.15. The eye bolts are intended as anchor points for mounting and dismounting of the housing. The load carrying capacity of the eye bolts allows lifting of the housing including the installed bearing.

-  The eye bolts must not be subjected to a mass greater than that of the housing together with the bearing fitted in the housing.

## 15 Base mounting bolts

Base mounting bolts are used to screw mount the housing to the locating surface. The base mounting bolts are not included in the scope of delivery of the housings.

The appropriate screw size is stated for each housing ►48 | 16.

The stated tightening torques are valid for base mounting bolts with unified coarse pitch thread according to ASTM A449 Grade 5 with a coefficient of friction of 0.15. This coefficient of friction can be assumed for steel screws oiled in accordance with ASTM A449.

■14 Tightening torques for base mounting bolts to ASTM A449 Grade 5

Base mounting bolts	Recommended tightening torque	
	$M_A$	
	ft-lbs	Nm
1/2" - 13 UNC	55	70
5/8" - 11 UNC	105	140
3/4" - 10 UNC	185	255
7/8" - 9 UNC	300	405
1" - 8 UNC	450	610
1 1/4" - 7 UNC	785	1065
1 1/2" - 6 UNC	1365	1850
1 5/8" - 5 1/2 UNC	1290	1745
1 7/8" - 5 UNC	2000	2710
2" - 4 1/2 UNC	2405	3260
2 1/4" - 4 1/2 UNC	3515	4770
2 1/2" - 4 UNC	4810	6525
3" - 4 UNC	8615	11680

## 16 Product tables

### 16.1 Explanations of the product tables

(1)	-	fixed bearing
(2)	-	floating bearing
a	inch	Base length
b	inch	Base width
c	inch	Base height
D	mm	Bearing outside diameter
d <sub>1</sub>	inch or mm	Shaft diameter
d <sub>2</sub>	inch or mm	larger diameter of stepped shaft
d <sub>3</sub>	inch or mm	smaller diameter of stepped shaft
e	inch	Bearing center offset
g	inch	Housing body width
G	-	Eye bolt thread
g <sub>T</sub>	inch	Total width, with 2 Taconite seals
g <sub>TD</sub>	inch	Total width, with Taconite seal and end cover
h	inch	Shaft axis spacing
h <sub>1</sub>	inch	Overall height
k	mm	Bearing seat width
m	inch	Fixing hole spacing
m	kg or lbs	Mass
n	inch	Hole pitch width
s	inch	Screw size
u	inch	Extended slot width
v	inch	Extended slot length

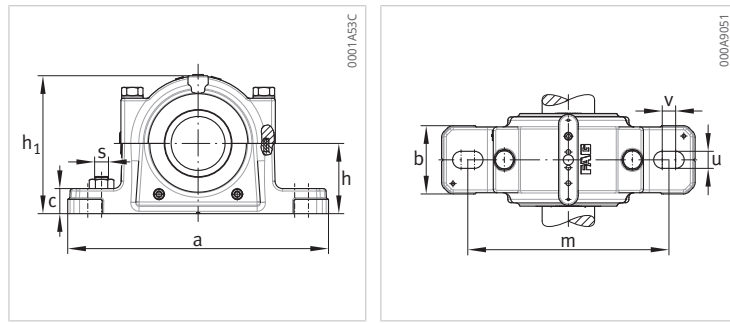




## 16.2 SAF0, Dimensioning

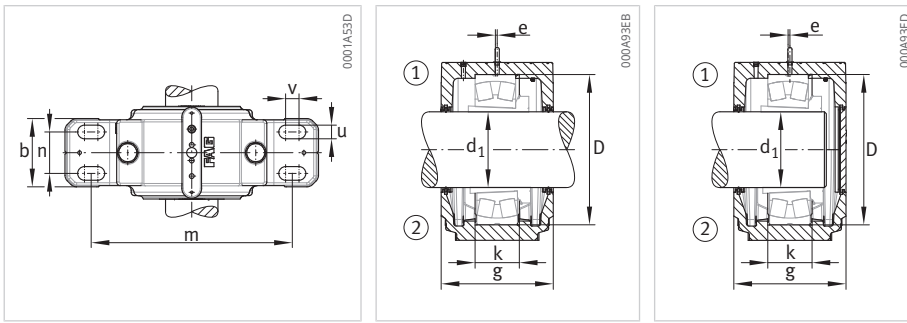
For spherical roller bearings with tapered bore and adapter sleeve

Inch size shaft



Housing	d <sub>1</sub>	h	h <sub>1</sub>	g	b	c
Ductile cast iron						
	inch	inch	inch	inch	inch	inch
SAFD024KX0403U	4.1875	4.5	8.4375	5.8125	4.375	1.75
FSAFD024KX0403U	4.1875	4.5	8.4375	5.8125	4.375	1.75
SAFD026KX0407U	4.4375	4.9375	9.625	6.4375	4.75	2
SAFD028KX0415U	4.9375	5.25	10.2	7.38	4.75	2.13
SAFD030KX0503U	5.1875	6	11.313	8.125	5.25	2.38
SAFD032KX0507U	5.375	6	11.313	8.125	5.25	2.38
SAFD034KX0515U	5.9375	6	11.75	7.375	5.875	2.375
SAFD036KX0607U	6.4375	6.6875	13.3125	8.5	6.25	2.625
SAFD038KX0615U	6.9375	6.6875	13.3125	8.5	6.25	2.625
SAFD040KX0703U	7.1875	7.0625	14.1875	9.25	6.75	2.75
SAFD044KX0715U	7.9375	7.875	15.5625	10.5	7.5	3.125
SAFD048KX0807U	8.4375	8.25	16.5	11	8	3.375
SAFD048KX0808U	8.5	8.25	16.5	11	8	3.375
SAFD048KX0815U	8.9375	8.25	16.5	11	8	3.375
SAFD048KX0900U	9	8.25	16.5	11	8	3.375
SAFD052KX0907U	9.4375	9.5	18.625	11.75	8.75	3.75
SAFD052KX0908U	9.5	9.5	18.625	11.75	8.75	3.75
SAFD056KX0915U	9.9375	9.875	19.5	13.4	9	4
SAFD056KX1000U	10	9.875	19.5	13.4	9	4
SAFD056KX1007U	10.4375	9.875	19.5	13.4	9	4
SAFD056KX1008U	10.5	9.875	19.5	13.4	9	4

16

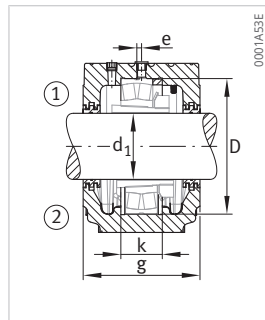


a	m	v	u	n	s	D	k	e	m
inch	inch	inch	inch	inch	inch	mm	mm	inch	kg
15.25	12.375	0.75	1	-	0.875	180	55.8	0.2	20.8
15.25	12.375	0.75	0.875	2.375	0.75	180	55.8	0.2	20.8
16.5	13.5625	0.9375	0.875	2.75	0.75	200	61.8	0.2	31.4
16.5	13.875	0.625	0.875	2.75	0.75	210	62.8	0.2	37
18.38	15.313	0.6875	1	3.25	0.875	225	65.8	0.2	51.6
18.38	15.313	0.6875	1	3.25	0.875	240	89.8	0.2	47.7
20.125	16.5	0.875	1.125	3.375	1	260	86.6	0.2	52
22	18.3125	0.9375	1.125	3.75	1	280	102.8	0.2	76
22	18.3125	0.9375	1.125	3.75	1	290	84.8	0.2	78.2
24.75	20.5	1.125	1.125	4.25	1	310	95.8	0.2	88.1
28	23	1.375	1.375	4.5	1.25	340	101.8	0.2	131
29.5	23.75	1.25	1.375	5	1.25	360	107.8	0.2	157.1
29.5	23.75	1.25	1.375	5	1.25	360	107.8	0.2	156.9
29.5	23.75	1.25	1.375	5	1.25	360	107.8	0.2	156.7
29.5	23.75	1.25	1.375	5	1.25	360	107.8	0.2	156.2
32.75	26.3125	1.5625	1.625	5.25	1.5	400	117.8	0.2	204
32.75	26.3125	1.5625	1.625	5.25	1.5	400	117.8	0.2	203.7
34.25	27.875	1.625	1.654	5.5	1.5	420	147.8	0.2	248.4
34.25	27.875	1.625	1.654	5.5	1.5	420	147.8	0.2	247.9
34.25	27.875	1.625	1.654	5.5	1.5	420	147.8	0.2	246.2
34.25	27.875	1.625	1.654	5.5	1.5	420	147.8	0.2	299.1

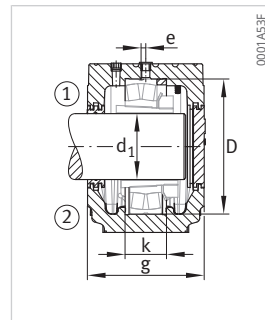
### 16.3 SAF0, Accessories

For spherical roller bearings with tapered bore and adapter sleeve

Inch size shaft



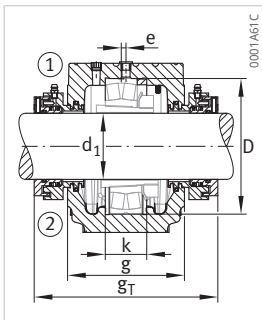
Labyrinth seal LER



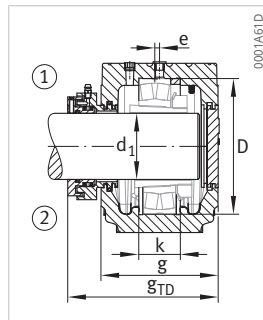
Labyrinth seal LER, end cover EC

Housing Ductile cast iron	d <sub>1</sub>	Spherical roller bearing <sup>1)</sup>	Adapter sleeve, thread <sup>1)</sup>		Locating ring	Quantity
			metric	inch		
	inch					
SAFD024KX0403U	4.1875	23024-E1-K	H3024×403	SNW3024×0403	SR-20-17	1
FSAFD024KX0403U	4.1875	23024-E1-K	H3024×403	SNW3024×0403	SR-20-17	1
SAFD026KX0407U	4.4375	23026-E1-K	H3026×407	SNW3026×0407	SR-22-19	1
SAFD028KX0415U	4.9375	23028-E1-K	H3028×415	SNW3028×0415	SR-0-20	2
SAFD030KX0503U	5.1875	23030-E1-K	H3030×503	SNW3030×0503	SR-0-21	1
SAFD032KX0507U	5.375	23032-E1-K	H3032×507	SNW3032×0507	SR-0-22	2
SAFD034KX0515U	5.9375	23034-E1-K	H3034×515	SNW3034×0515	SR-0-24	2
SAFD036KX0607U	6.4375	23036-E1-K	H3036×607	SNW3036×0607	SR-0-26-4	2
SAFD038KX0615U	6.9375	23038-E1-K	H3038×615	SNW3038×0615	SR-32-0-1	2
SAFD040KX0703U	7.1875	23040-E1-K	H3040×703	SNW3040×0703	SR-34-0-4	2
SAFD044KX0715U	7.9375	23044-E1-K	H3044XX715	SNW3044×0715	SR-38-32-2	2
SAFD048KX0807U	8.4375	23048-E1-K	H3048×807	SNP3048×0807	A8897	2
SAFD048KX0808U	8.5	23048-E1-K	H3048×808	SNP3048×0808	A8897	2
SAFD048KX0815U	8.9375	23048-E1-K	H3048×815	SNP3048×0815	A8897	2
SAFD048KX0900U	9	23048-E1-K	H3048×900	SNP3048×0900	A8897	2
SAFD052KX0907U	9.4375	23052-E1-K	H3052XX907	SNP3052×0907	A8898	2
SAFD052KX0908U	9.5	23052-E1-K	H3052XX908	SNP3052×0908	A8898	2
SAFD056KX0915U	9.9375	23056-E1-K	H3056×915	SNP3056×0915	A8819	2
SAFD056KX1000U	10	23056-E1-K	H3056×1000	SNP3056×1000	A8819	2
SAFD056KX1007U	10.4375	23056-E1-K	H3056×1007	SNP3056×1007	A8819	2
SAFD056KX1008U	10.5	23056-E1-K	H3056×1008	SNP3056×1008	A8819	2

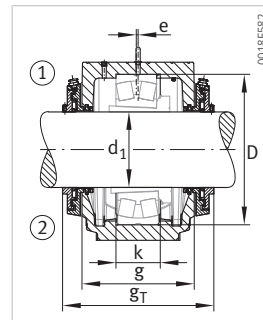
16



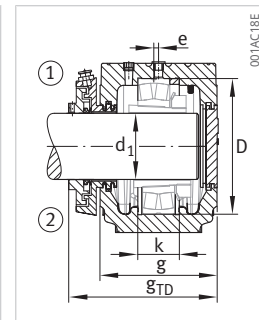
Taconite seal SuperTAC II TA



Taconite seal SuperTAC II TA, end cover EC



Taconite seal MaxTAC NTC



Taconite seal MaxTAC NTC, end cover EC

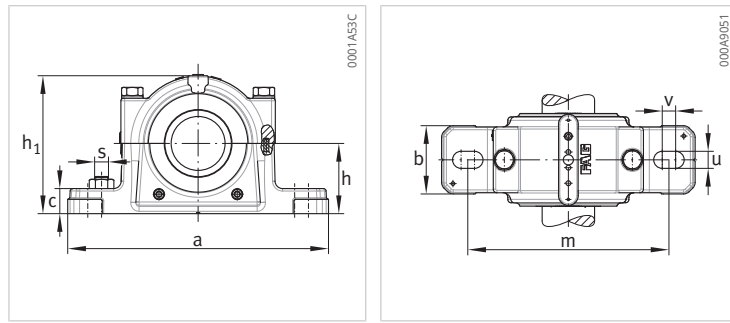
LER	EC	SuperTAC II TA <sup>1)</sup>			MaxTAC NTC <sup>1)</sup>		
			g <sub>T</sub>	g <sub>TD</sub>		g <sub>T</sub>	g <sub>TD</sub>
			inch	inch		inch	inch
2 pieces							
LER113×0403-G-A	EC524-R	TA113×0403	10.2	8.65	NTC113×403	10.1	8.6
LER113×0403-G-A	EC524-R	TA113×0403	10.2	8.65	NTC113×403	10.1	8.6
LER117×0407-G-A	EC526-R	TA117×0407	11.25	9.5	NTC117×407	10.75	9.25
LER122×0415-G-A	EC528-R	TA122×0415	10.85	9.1	NTC122×415	10.35	8.85
LER125×0503-G-A	EC530-R	TA125×0503	11.85	10	NTC125×503	11.25	9.7
LER130×0507-G-A	EC532-R	TA130×0507	12.15	10.35	NTC130×507	11.8	10.15
LER140×0515-G-A	EC534-R	TA140×0515	13.15	11.2	NTC140×515	12.9	11.1
LER148×0607-G-A	EC536-R	TA148×0607	13.55	11.6	NTC148×607	12.7	11.15
LER155×0615-G-A	EC538-R	TA155×0615	14.55	12.5	NTC155×615	13.8	12.15
LER159×0703-G-A	EC540-R	TA159×0703	15.3	13.15	NTC159×703	15.55	13.3
LER167×0715-G-A	EC544-R	TA167×0715	16.1	13.9	NTC167×715	16.25	14
LER550×0807-G-S	ECR1.3048-C	TA550×0807	15.6	13.3	NTC550×807	15.55	13.3
LER551×0808-G-S	ECR1.3048-C	TA551×0808	15.6	13.3	NTC551×808	15.55	13.3
LER552×0815-G-S	ECR1.3048-C	TA552×0815	15.6	13.3	NTC552×815	15.55	13.3
LER513×0900-G-S	ECR1.3048-C	TA513×0900	15.6	13.3	NTC513×900	15.55	13.3
LER553×0907-G-S	ECR3052-C	TA553×0907	16.1	13.95	NTC553×907	15.65	13.7
LER178×0908-G-S	ECR3052-C	TA178×0908	16.1	13.95	NTC178×908	15.65	13.7
LER607×0915-G-S	ECR2.3056-C	TA607×0915	16.8	14.6	NTC607×915	16.5	14.4
LER568×1000-G-S	ECR2.3056-C	TA568×1000	16.8	14.6	NTC568×1000	16.5	14.4
LER606×1007-G-S	ECR3.3056-C	TA606×1007	16.8	14.6	NTC606×1007	16.5	14.4
LER519×1008-G-S	ECR3.3056-C	TA519×1008	16.8	14.6	NTC519×1008	16.5	14.4

<sup>1)</sup> Accessories to be ordered separately

## 16.4 SAFD200, Dimensioning

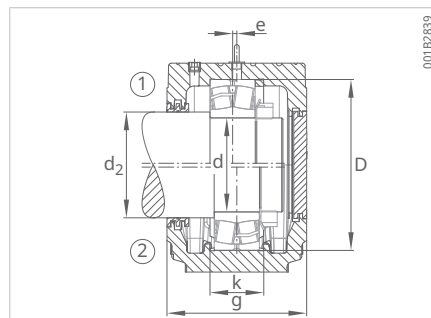
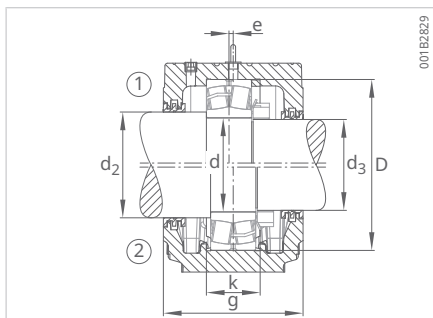
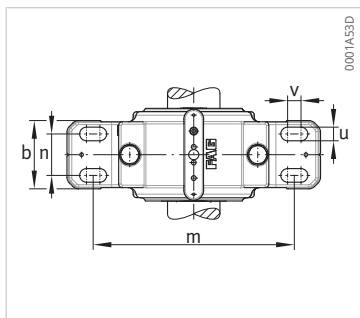
for spherical roller bearings with cylindrical bore and stepped shaft

Inch size shaft



Housing	d <sub>2</sub>	d <sub>3</sub>	h	h <sub>1</sub>	g	b	c
Ductile cast iron							
	inch	inch	inch	inch	inch	inch	inch
SAFD216U	3.625	3	3.5	6.875	4.75	3.5	1.25
FSAFD216U	3.625	3	3.5	6.875	4.75	3.5	1.25
SAFD217U	3.9375	3.1875	3.75	7.3125	4.8125	3.5	1.25
FSAFD217U	3.9375	3.1875	3.75	7.3125	4.8125	3.5	1.25
SAFD218U	4.125	3.375	4	7.75	5.5	3.875	1.625
FSAFD218U	4.125	3.375	4	7.75	5.5	3.875	1.625
SAFD220U	4.5	3.8125	4.5	8.4375	5.8125	4.375	1.75
FSAFD220U	4.5	3.8125	4.5	8.4375	5.8125	4.375	1.75
SAFD222U	4.875	4.1875	4.9375	9.625	6.4375	4.75	2
SAFD224U	5.3125	4.5625	5.25	10.25	7.125	4.75	2.125
SAFD226U	5.875	4.9375	6	11.5	7.75	5.125	3.375
SAFD228U	6.25	5.3125	6	11.75	7.375	5.875	2.375
SAFD230U	6.625	5.3125	6.3125	12.5	8.125	6.25	2.5
SAFD232U	7	6.0625	6.6875	13.3125	8.5	6.25	2.625
SAFD236U	7	6.0625	7.5	14.875	9.625	7.125	3
SAFD234U	7.4375	6.875	7.0625	14.1875	9.25	6.75	2.75
SAFD238U	8.375	7.25	7.875	15.5625	10.5	7.5	3.125
SAFD240U	8.75	7.625	8.25	16.5	11	8	3.375
SAFD244U	9.5625	8.3125	9.5	18.625	11.75	8.75	3.75

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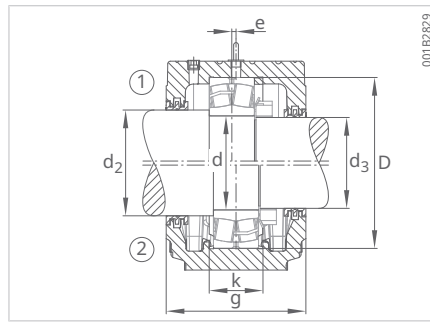


a	m	v	u	n	s	D	k	e	m
inch	inch	inch	inch	inch	inch	mm	mm	inch	kg
13	10.3125	0.6875	0.875	-	0.625	140	42.8	0.2	13.2
13	10.3125	0.6875	0.75	2.125	0.625	140	42.8	0.2	13.4
13	10.4375	0.625	0.875	-	0.625	150	45.8	0.2	13.3
13	10.4375	0.625	0.75	2.125	0.625	150	45.8	0.2	13.6
13.75	11	0.625	0.875	-	0.625	160	49.8	0.2	16.3
13.75	11	0.625	0.75	2.125	0.625	160	49.8	0.2	16.5
15.25	12.375	0.75	1	-	0.75	180	55.8	0.2	20.6
15.25	12.375	0.75	0.875	2.375	0.75	180	55.8	0.2	20.8
16.5	13.5625	0.9375	0.875	2.75	0.75	200	62.8	0.2	37.6
16.5	13.875	0.625	0.875	2.75	0.75	215	67.8	0.2	35.5
18.375	15.3125	0.6875	1	3.25	0.875	230	73.8	0.2	47.5
20.125	16.5	0.875	1.125	3.375	1	250	77.8	0.2	51
21.25	17.625	0.625	1.125	3.75	1	270	82.8	0.2	61.6
22	18.3125	0.9375	1.125	3.75	1	290	89.8	0.2	73.1
26.75	22.25	1.375	1.125	4.625	1	320	95.8	0.2	105.1
24.75	20.5	1.125	1.125	4.25	1	310	95.8	0.2	88.2
28	23	1.375	1.375	4.5	1.25	340	101.8	0.2	121.8
29.5	23.75	1.25	1.375	5	1.25	360	107.8	0.2	152.1
32.75	26.3125	1.5675	1.625	5.25	1.5	400	117.8	0.2	200.7

## 16.5 SAFD200, Accessories

for spherical roller bearings with cylindrical bore and stepped shaft

Inch size shaft

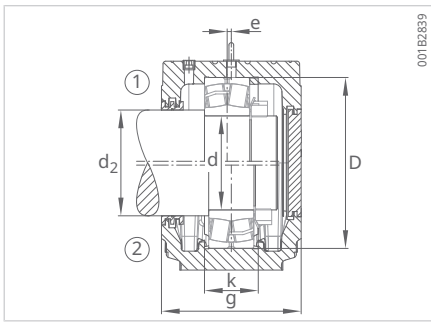


Labyrinth seal LER

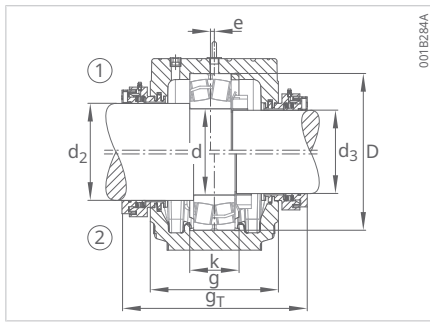
Housing Ductile cast iron	d <sub>2</sub>	d <sub>3</sub>	Spherical roller bearing <sup>1)</sup>	Locknut <sup>1)</sup>	Locking washer <sup>1)</sup>	Locating ring	
				inch	inch		Quantity
	inch	inch					
SAFD216U	3.625	3	22216-E1	W-16	AN16	SR-16-13	1
FSAFD216U	3.625	3	22216-E1	W-16	AN16	SR-16-13	1
SAFD217U	3.9375	3.1875	22217-E1	W-17	AN17	SR-17-14	1
FSAFD217U	3.9375	3.1875	22217-E1	W-17	AN17	SR-17-14	1
SAFD218U	4.125	3.375	22218-E1	W-18	AN18	SR-18-15	1
FSAFD218U	4.125	3.375	22218-E1	W-18	AN18	SR-18-15	1
SAFD220U	4.5	3.8125	22220-E1	W-20	AN20	SR-20-17	1
FSAFD220U	4.5	3.8125	22220-E1	W-20	AN20	SR-20-17	1
SAFD222U	4.875	4.1875	22222-E1	W-24	AN24	SR-22-19	1
SAFD224U	5.3125	4.5625	22224-E1	W-24	AN24	SR-24-20	1
SAFD226U	5.875	4.9375	22226-E1	W-26	AN26	SR-26-0	1
SAFD228U	6.25	5.3125	22228-E1	W-28	AN28	SR-28-0	1
SAFD230U	6.625	5.3125	22230-E1	W-30	AN30	SR-30-0	1
SAFD232U	7	6.0625	22232-E1	W-32	AN32	SR-32-0	1
SAFD236U	7	6.0625	22236-E1	W-36	AN36	SR-36-30	1
SAFD234U	7.4375	6.875	22234-E1	W-34	AN34	SR-34-0	1
SAFD238U	8.375	7.25	22238-E1	W-38	AN38	SR-38-32	1
SAFD240U	8.75	7.625	22240-E1	W-40	AN40	SR-40-34	1
SAFD244U	9.5625	8.3125	22244-E1	W-44	N44	SR-44-38	1

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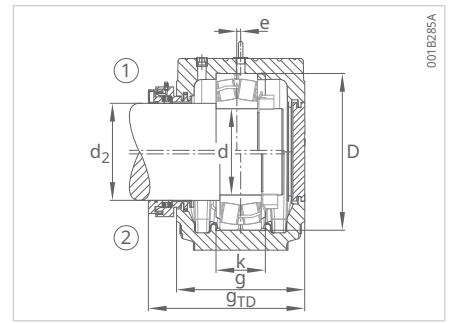




Labyrinth seal LER, end cover EC



Taconite seal SuperTAC II TA



Taconite seal SuperTAC II TA, end cover EC

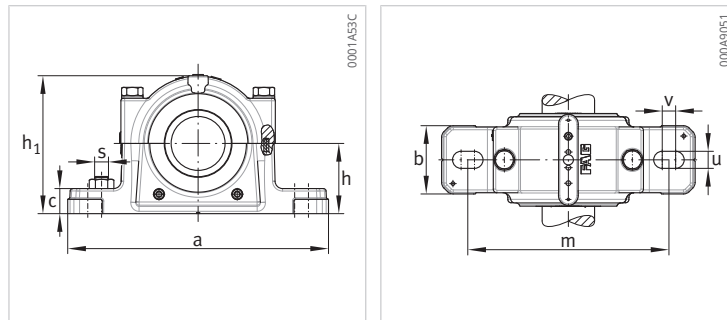
LER, d <sub>2</sub>	LER, d <sub>3</sub>	EC	SuperTAC II TA <sup>1)</sup> , d <sub>2</sub>	SuperTAC II TA <sup>1)</sup> , d <sub>3</sub>		
					g <sub>T</sub>	g <sub>TD</sub>
					inch	inch
LER82×0310-G-A	LER54×0300-G-A	EC216-R	TA82×0310	TA54×0300	7.85	6.05
LER82×0310-G-A	LER54×0300-G-A	EC216-R	TA82×0310	TA54×0300	7.85	6.05
LER89×0315-G-A	LER63×0303-G-A	EC217-R	TA89×0315	TA63×303	8.05	6.15
LER89×0315-G-A	LER63×0303-G-A	EC217-R	TA89×0315	TA63×303	8.05	6.15
LER112×0402-G-A	LER191×0306-G-A	EC518-R	TA112×0402	TA191×0306	8.8	6.55
LER112×0402-G-A	LER191×0306-G-A	EC518-R	TA112×0402	TA191×306	8.8	6.55
LER118×0408-G-A	LER106×0313-G-A	EC220-R	TA118×0408	TA106×0313	9.45	7.2
LER118×0408-G-A	LER106×0313-G-A	EC220-R	TA118×0408	TA106×0313	9.45	7.2
LER121×0414-G-A	LER113×0403-G-A	EC524-R	TA121×0414	TA113×0403	9.7	7.7
LER127×0505-G-A	LER119×0409-G-A	EC524-R	TA127×0505	TA119×0409	10.7	8.5
LER136×0514-G-A	LER122×0415-G-A	EC528-R	TA136×0514	TA122×0415	11.5	9.25
LER144×0604-G-A	LER127×0505-G-A	EC530-R	TA144×0604	TA127×0505	11.3	9.95
LER151×0610-G-A	LER134×0512-G-A	EC230-R	TA151×0610	TA134×0512	12.2	9.7
LER156×0700-G-A	LER142×0601-G-A	EC534-R	TA156×0700	TA142×0601	12.5	10
LER165×0713-G-A	LER154×0614-G-A	EC534-R	TA156×0700	TA142×0601	12.5	10
LER161×0707-G-A	LER148×0607-G-A	EC536-R	TA161×0707	TA148×607	13.2	10.75
LER171×0806-G-A	LER160×0704-G-A	EC540-R	TA171×0806	TA160×0704	14.8	12.15
LER175×0812-G-A	LER164×0710-G-A	EC240-R	TA175×0812	TA164×0710	15.35	12.65
LER179×0909-G-A	LER170×0805-G-A	EC244-R	TA179×0909	TA170×0805	16.75	14.1

<sup>1)</sup> Accessories to be ordered separately

## 16.6 SAF500, Preferred Sizes, Dimensioning

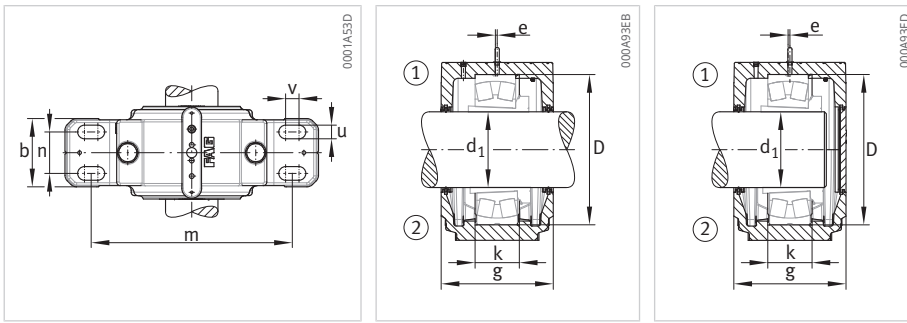
For spherical roller bearings with tapered bore and adapter sleeve

Inch size shaft



Housing		d <sub>1</sub>	h	h <sub>1</sub>	g	b	c
Ductile cast iron	Gray cast iron						
		inch	inch	inch	inch	inch	inch
SAFD509×0107U	-	1.4375	2.25	4.375	3.4375	2.375	0.8125
SAFD510×0111U	-	1.6875	2.5	4.75	3.4375	2.375	0.9375
SAFD511×0115U	-	1.9375	2.75	5.25	3.75	2.75	0.9375
SAFD513×0203U	-	2.1875	3	5.9375	4.25	3.125	1
FSAFD515×0207U	FSAF515×0207U	2.4375	3.25	6.375	4.625	3.125	1.125
SAFD515×0207U	SAF515×0207U	2.4375	3.25	6.375	4.625	3.125	1.125
SAFD516×0211U	-	2.6875	3.5	6.875	4.75	3.5	1.25
FSAFD517×0215U	FSAF517×0215U	2.9375	3.75	7.3125	4.8125	3.5	1.25
SAFD517×0215U	SAF517×0215U	2.9375	3.75	7.3125	4.8125	3.5	1.25
FSAFD518×0303U	FSAF518×0303U	3.1875	4	7.75	5.5	3.875	1.625
SAFD518×0303U	SAF518×0303U	3.1875	4	7.75	5.5	3.875	1.625
FSAFD520×0307U	FSAF520×0307U	3.4375	4.5	8.4375	5.8125	4.375	1.75
SAFD520×0307U	SAF520×0307U	3.4375	4.5	8.4375	5.8125	4.375	1.75
SAFD522×0315U	SAF522×0315U	3.9375	4.9375	9.625	6.4375	4.75	2
SAFD524×0403U	SAF524×0403U	4.1875	5.25	10.25	7.125	4.75	2.125
SAFD526×0407U	SAF526×0407U	4.4375	6	11.5	7.75	5.125	3.375
SAFD528×0415U	SAF528×0415U	4.9375	6	11.75	7.375	5.875	2.375
SAFD530×0503U	-	5.1875	6.3125	12.5	8.125	6.25	2.5
SAFD532×0507U	SAF532×0507U	5.4375	6.6875	13.3125	8.5	6.25	2.625
SAFD534×0515U	SAF534×0515U	5.9375	7.0625	14.1875	9.25	6.75	2.75
SAFD536×0607U	SAF536×0607U	6.4375	7.5	14.875	9.625	7.125	3
SAFD538×0615U	SAF538×0615U	6.9375	7.875	15.5625	10.5	7.5	3.125
SAFD540×0703U	-	7.1875	8.25	16.5	11	8	3.375
SAFD544×0715U	SAF544×0715U	7.9375	9.5	18.625	11.75	8.75	3.75

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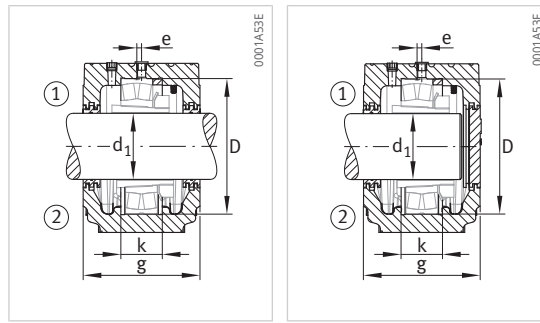


a	m	v	u	n	s	D	k	e	m
inch	inch	inch	inch	inch	inch	mm	mm	inch	kg
8.25	6.625	0.375	0.625	-	0.5	85	28.8	0.1	3.6
8.25	6.75	0.25	0.625	-	0.5	90	29.8	0.1	4
9.625	7.625	0.25	0.75	-	0.625	100	30.8	0.1	5.3
11	8.8125	0.6875	0.75	-	0.625	120	39	0.15	8.6
11.25	9.125	0.5	0.625	1.875	0.5	130	37	0.1	10.6
11.25	9.125	0.5	0.75	-	0.625	130	37	0.1	10
13	10.3125	0.6875	0.875	-	0.75	140	42.8	0.2	13.7
13	10.4375	0.56	0.75	2.125	0.625	150	45.8	0.2	14
13	10.4375	0.56	0.875	-	0.75	150	45.8	0.2	14
13.75	11	0.625	0.75	2.125	0.625	160	49.8	0.2	17
13.75	11	0.625	0.875	-	0.75	160	49.8	0.2	16.9
15.25	12.375	0.75	0.875	2.375	0.75	180	55.8	0.2	21.8
15.25	12.375	0.75	1	-	0.875	180	55.8	0.2	21.6
16.5	13.5625	0.9375	0.875	2.75	0.75	200	62.8	0.2	33.2
16.5	13.875	0.625	0.875	2.75	0.75	215	67.8	0.2	36.3
18.375	15.3125	0.6875	1	3.25	0.875	230	73.8	0.2	49.1
20.125	16.5	0.875	1.125	3.375	1	250	77.8	0.2	52.3
21.25	17.625	0.625	1.125	3.75	1	270	82.8	0.2	62.8
22	18.3125	0.9375	1.125	3.75	1	290	89.8	0.2	75
24.75	20.5	1.125	1.125	4.25	1	310	95.8	0.2	89.5
26.75	22.25	1.375	1.125	4.625	1	320	95.8	0.2	106.5
28	23	1.375	1.375	4.5	1.25	340	101.8	0.2	123.4
29.5	23.75	1.25	1.375	5	1.25	360	107.8	0.2	154
32.75	26.3125	1.5625	1.625	5.25	1.5	400	117.8	0.2	201.9

## 16.7 SAF500, Preferred Sizes, Accessories

For spherical roller bearings with tapered bore and adapter sleeve

Inch size shaft

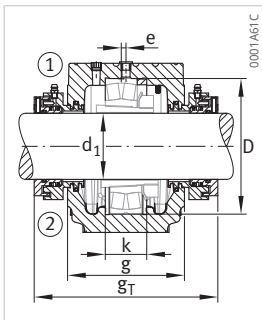


Labyrinth seal LER

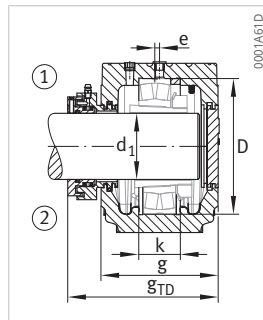
Labyrinth seal LER, end cover EC

Gehäuse		d <sub>1</sub>	Spherical roller bearing <sup>1)</sup>	Adapter sleeve, thread <sup>1)</sup>		Locating ring	
Ductile cast iron	Grey cast iron			metric	inch		Quantity
		inch					
SAFD509×0107U	-	1.4375	22209-E1-K	H309×0107	SNW09×0107	SR-9-9	1
SAFD510×0111U	-	1.6875	22210-E1-K	H310×0111	SNW10×0111	SR-10-0	1
SAFD511×0115U	-	1.9375	22211-E1-K	H311×0115	SNW11×0115	SR-11-0	1
SAFD513×0203U	-	2.1875	22213-E1-K	H313×0203	SNW13×0203	SR-13-0	1
FSAFD515×0207U	FSAF515×0207U	2.4375	22215-E1-K	H315×0207	SNW15×0207	SR-15-0	1
SAFD515×0207U	SAF515×0207U	2.4375	22215-E1-K	H315×0207	SNW15×0207	SR-15-0	1
SAFD516×0211U	-	2.6875	22216-E1-K	H316×0211	SNW16×0211	SR-16-13	1
FSAFD517×0215U	FSAF517×0215U	2.9375	22217-E1-K	H317×0215	SNW17×0215	SR-17-14	1
SAFD517×0215U	SAF517×0215U	2.9375	22217-E1-K	H317×0215	SNW17×0215	SR-17-14	1
FSAFD518×0303U	FSAF518×0303U	3.1875	22218-E1-K	H318×0303	SNW18×0303	SR-18-15	1
SAFD518×0303U	SAF518×0303U	3.1875	22218-E1-K	H318×0303	SNW18×0303	SR-18-15	1
FSAFD520×0307U	FSAF520×0307U	3.4375	22220-E1-K	H320×0307	SNW20×0307	SR-20-17	1
SAFD520×0307U	SAF520×0307U	3.4375	22220-E1-K	H320×0307	SNW20×0307	SR-20-17	1
SAFD522×0315U	SAF522×0315U	3.9375	22222-E1-K	H322×0315	SNW22×0315	SR-22-19	1
SAFD524×0403U	SAF524×0403U	4.1875	22224-E1-K	H3124×0403	SNW24×0403	SR-24-20	1
SAFD526×0407U	SAF526×0407U	4.4375	22226-E1-K	H3126×0407	SNW26×0407	SR-26-0	1
SAFD528×0415U	SAF528×0415U	4.9375	22228-E1-K	H3128×0415	SNW28×0415	SR-28-0	1
SAFD530×0503U	-	5.1875	22230-E1-K	H3130×0503	SNW30×0503	SR-30-0	1
SAFD532×0507U	SAF532×0507U	5.4375	22232-E1-K	H3132×0507	SNW32×0507	SR-32-0	1
SAFD534×0515U	SAF534×0515U	5.9375	22234-E1-K	H3134×0515	SNW34×0515	SR-34-0	1
SAFD536×0607U	SAF536×0607U	6.4375	22236-E1-K	H3136×0607	SNW37×0607	SR-36-30	1
SAFD538×0615U	SAF538×0615U	6.9375	22238-E1-K	H3138×0615	SNW38×0615	SR-38-32	1
SAFD540×0703U	-	7.1875	22240-E1-K	H3140×0703	SNW40×0703	SR-40-34	1
SAFD544×0715U	SAF544×0715U	7.9375	22244-E1-K	H3144×0715	SNW44×0715	SR-44-38	1

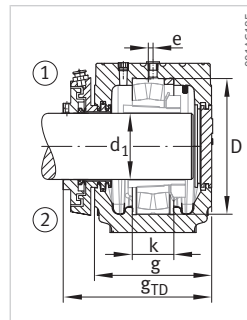
16



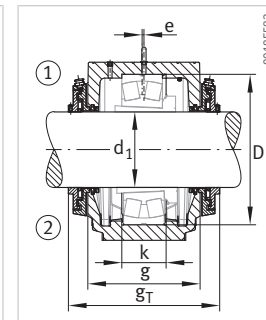
Taconite seal SuperTAC II TA



Taconite seal SuperTAC II TA, end cover EC



Taconite seal MaxTAC NTC, end cover EC



Taconite seal MaxTAC NTC

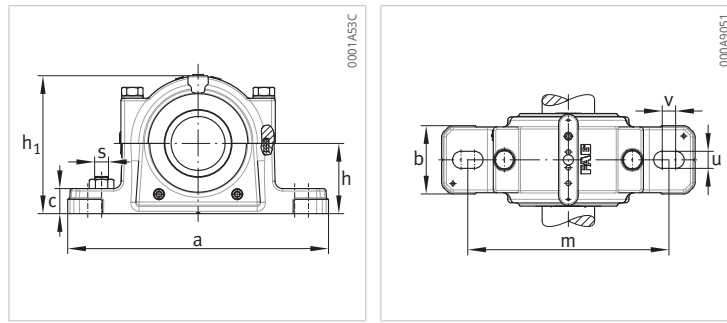
LER	EC	SuperTAC II TA <sup>1)</sup>		MaxTAC NTC <sup>1)</sup>			
		g <sub>T</sub>	g <sub>TD</sub>		g <sub>T</sub>	g <sub>TD</sub>	
							inch
<b>2 pieces</b>							
LER17×0107-G-A	EC509-R	TA17×0107	5.9	4.7	–	–	–
LER20×0111-G-A	EC510-R	TA20×0111	5.85	4.65	–	–	–
LER24×0115-G-A	EC511-R	TA24×0115	6.35	5.05	–	–	–
LER29×0203-G-A	EC513-R	TA29×0203	6.9	5.6	NTC29×203	6.65	5.45
LER37×0207-G-A	EC515-R	TA37×0207	7.35	6	NTC37×207	7.35	6
LER37×0207-G-A	EC515-R	TA37×0207	7.35	6	NTC37×207	7.35	6
LER44×0211-G-A	EC516-R	TA44×0211	7.45	6.15	NTC44×211	7.45	6.15
LER53×0215-G-A	EC517-R	TA53×0215	7.7	6.3	NTC53×215	7.7	6.3
LER53×0215-G-A	EC517-R	TA53×0215	7.7	6.3	NTC53×215	7.7	6.3
LER188×0303-G-A	EC518-R	TA188×0303	7.95	6.75	NTC188×303	8	6.75
LER188×0303-G-A	EC518-R	TA188×0303	7.95	6.75	NTC188×303	8	6.75
LER102×0307-G-A	EC520-R	TA102×0307	8.95	7.45	NTC102×307	8.7	7.3
LER102×0307-G-A	EC520-R	TA102×0307	8.95	7.45	NTC102×307	8.7	7.3
LER109×0315-G-A	EC522-R	TA109×0315	9.45	7.95	NTC109×315	9.3	7.85
LER113×0403-G-A	EC524-R	TA113×0403	10.2	8.65	NTC113×403	10.1	8.6
LER117×0407-G-A	EC526-R	TA117×0407	11.25	9.5	NTC117×407	10.75	9.25
LER122×0415-G-A	EC528-R	TA122×0415	10.85	9.1	NTC122×415	10.35	8.85
LER125×0503-G-A	EC530-R	TA125×0503	11.85	10	NTC125×503	11.25	9.7
LER130×0507-G-A	EC532-R	TA130×0507	12.15	10.35	NTC130×507	11.8	10.15
LER140×0515-G-A	EC534-R	TA140×0515	13.15	11.2	NTC140×515	12.9	11.1
LER148×0607-G-A	EC536-R	TA148×0607	13.55	11.6	NTC148×607	12.7	11.15
LER155×0615-G-A	EC538-R	TA155×0615	14.55	12.5	NTC155×615	13.8	12.15
LER159×0703-G-A	EC540-R	TA159×0703	15.3	13.15	NTC159×703	15.55	13.3
LER167×0715-G-A	EC544-R	TA167×0715	16.1	13.9	NTC167×715	16.25	14

<sup>1)</sup> Accessories to be ordered separately

## 16.8 SAF500, All Sizes, Dimensioning

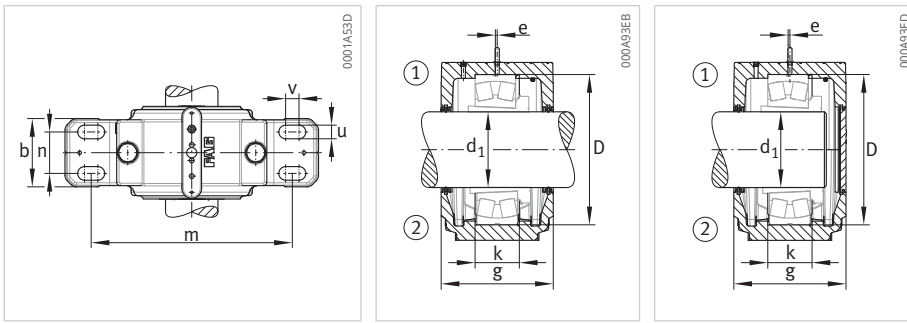
For spherical roller bearings with tapered bore and adapter sleeve

Inch size shaft



Housing		d <sub>1</sub>	h	h <sub>1</sub>	g	b	c
Ductile cast iron	Gray cast iron						
		inch	inch	inch	inch	inch	inch
SAFD509×0107U	-	1.375	2.25	4.375	3.4375	2.375	0.8125
SAFD509×0107U	-	1.4375	2.25	4.375	3.4375	2.375	0.8125
SAFD509×0107U	-	1.5	2.25	4.375	3.4375	2.375	0.8125
SAFD510×0111U	-	1.625	2.5	4.75	3.4375	2.375	0.9375
SAFD510×0111U	-	1.6875	2.5	4.75	3.4375	2.375	0.9375
SAFD510×0111U	-	1.75	2.5	4.75	3.4375	2.375	0.9375
SAFD511×0115U	-	1.8125	2.75	5.25	3.75	2.75	0.9375
SAFD511×0115U	-	1.875	2.75	5.25	3.75	2.75	0.9375
SAFD511×0115U	-	1.9375	2.75	5.25	3.75	2.75	0.9375
SAFD513×0203U	-	2	3	5.9375	4.25	3.125	1
SAFD511×0115U	-	2	2.75	5.25	3.75	2.75	0.9375
SAFD513×0203U	-	2.0625	3	5.9375	4.25	3.125	1
SAFD513×0203U	-	2.125	3	5.9375	4.25	3.125	1
SAFD513×0203U	-	2.1875	3	5.9375	4.25	3.125	1
SAFD513×0203U	-	2.25	3	5.9375	4.25	3.125	1
SAFD515×0207U	SAF515×0207U	2.375	3.25	6.375	4.625	3.125	1.125
FSAFD515×0207U	FSAF515×0207U	2.375	3.25	6.375	4.625	3.125	1.125
FSAFD515×0207U	FSAF515×0207U	2.4375	3.25	6.375	4.625	3.125	1.125
SAFD515×0207U	SAF515×0207U	2.4375	3.25	6.375	4.625	3.125	1.125
SAFD515×0207U	SAF515×0207U	2.5	3.25	6.375	4.625	3.125	1.125
FSAFD515×0207U	FSAF515×0207U	2.5	3.25	6.375	4.625	3.125	1.125
SAFD516×0211U	-	2.5625	3.5	6.875	4.75	3.5	1.25
FSAFD516×0211U	-	2.5625	3.5	6.875	4.75	3.5	1.25
SAFD516×0211U	-	2.625	3.5	6.875	4.75	3.5	1.25
FSAFD516×0211U	-	2.625	3.5	6.875	4.75	3.5	1.25
FSAFD516×0211U	-	2.6875	3.5	6.875	4.75	3.5	1.25
SAFD516×0211U	-	2.6875	3.5	6.875	4.75	3.5	1.25
SAFD516×0211U	-	2.75	3.5	6.875	4.75	3.5	1.25
FSAFD516×0211U	-	2.75	3.5	6.875	4.75	3.5	1.25
SAFD517×0215U	SAF517×0215U	2.9375	3.75	7.3125	4.8125	3.5	1.25
SAFD517×0215U	SAF517×0215U	2.9375	3.75	7.3125	4.8125	3.5	1.25
FSAFD517×0215U	FSAF517×0215U	2.9375	3.75	7.3125	4.8125	3.5	1.25
SAFD517×0215U	SAF517×0215U	2.9375	3.75	7.3125	4.8125	3.5	1.25
FSAFD517×0215U	FSAF517×0215U	3	3.75	7.3125	4.8125	3.5	1.25
FSAFD517×0215U	FSAF517×0215U	2.9375	3.75	7.3125	4.8125	3.5	1.25
FSAFD517×0215U	FSAF517×0215U	2.9375	3.75	7.3125	4.8125	3.5	1.25
SAFD517×0215U	SAF517×0215U	3	3.75	7.3125	4.8125	3.5	1.25
SAFD518×0303U	SAF518×0303U	3.215	4	7.75	5.5	3.875	1.625

16

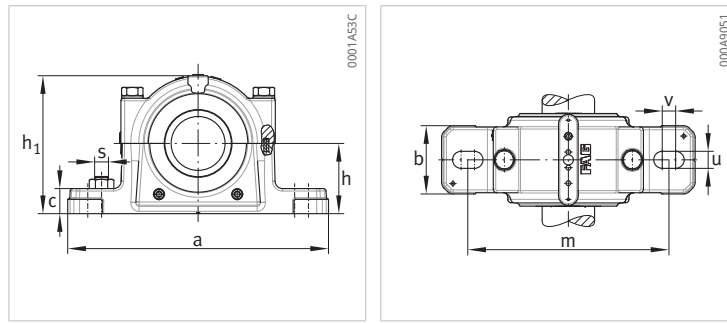


a	m	v	u	n	s	D	k	e	m
inch	inch	inch	inch	inch	inch	mm	mm	inch	kg
8.25	6.625	0.375	0.625	-	0.5	85	28.8	0.1	3.6
8.25	6.625	0.375	0.625	-	0.5	85	28.8	0.1	3.6
8.25	6.625	0.375	0.625	-	0.5	85	28.8	0.1	3.6
8.25	6.75	0.25	0.625	-	0.5	90	29.8	0.1	4
8.25	6.75	0.25	0.625	-	0.5	90	29.8	0.1	4
8.25	6.75	0.25	0.625	-	0.5	90	29.8	0.1	4
9.625	7.625	0.25	0.75	-	0.625	100	30.8	0.1	5.3
9.625	7.625	0.25	0.75	-	0.625	100	30.8	0.1	5.3
9.625	7.625	0.25	0.75	-	0.625	100	30.8	0.1	5.3
11	8.8125	0.6875	0.75	-	0.625	120	39	0.15	8.6
9.625	7.625	0.25	0.75	-	0.625	100	30.8	0.1	5.3
11	8.8125	0.6875	0.75	-	0.625	120	39	0.15	8.6
11	8.8125	0.6875	0.75	-	0.625	120	39	0.15	8.6
11	8.8125	0.6875	0.75	-	0.625	120	39	0.15	8.6
11	8.8125	0.6875	0.75	-	0.625	120	39	0.15	8.6
11.25	9.125	0.5	0.75	-	0.625	130	37	0.1	10
11.25	9.125	0.5	0.625	1.875	0.5	130	37	0.1	10.6
11.25	9.125	0.5	0.625	1.875	0.5	130	37	0.1	10.6
11.25	9.125	0.5	0.75	-	0.625	130	37	0.1	10
11.25	9.125	0.5	0.75	-	0.625	130	37	0.1	10
11.25	9.125	0.5	0.625	1.875	0.5	130	37	0.1	10.6
13	10.3125	0.6875	0.875	-	0.75	140	42.8	0.2	13.7
13	10.3125	0.6875	0.75	2.125	0.625	140	42.8	0.2	13.9
13	10.3125	0.6875	0.875	-	0.75	140	42.8	0.2	13.7
13	10.3125	0.6875	0.75	2.125	0.625	140	42.8	0.2	13.9
13	10.3125	0.6875	0.75	2.125	0.625	140	42.8	0.2	13.9
13	10.3125	0.6875	0.875	-	0.75	140	42.8	0.2	13.7
13	10.3125	0.6875	0.875	-	0.75	140	42.8	0.2	13.7
13	10.3125	0.6875	0.75	2.125	0.625	140	42.8	0.2	13.9
13	10.4375	0.56	0.875	-	0.75	150	45.8	0.2	14
13	10.4375	0.56	0.875	-	0.75	150	45.8	0.2	14
13	10.4375	0.56	0.75	2.125	0.625	150	45.8	0.2	14
13	10.4375	0.56	0.875	-	0.75	150	45.8	0.2	14
13	10.4375	0.56	0.75	2.125	0.625	150	45.8	0.2	14
13	10.4375	0.56	0.75	2.125	0.625	150	45.8	0.2	14
13	10.4375	0.56	0.75	2.125	0.625	150	45.8	0.2	14
13	10.4375	0.56	0.875	-	0.75	150	45.8	0.2	14
13.75	11	0.625	0.875	-	0.75	160	49.8	0.2	16.9

## 16.8 SAF500, All Sizes, Dimensioning

For spherical roller bearings with tapered bore and adapter sleeve

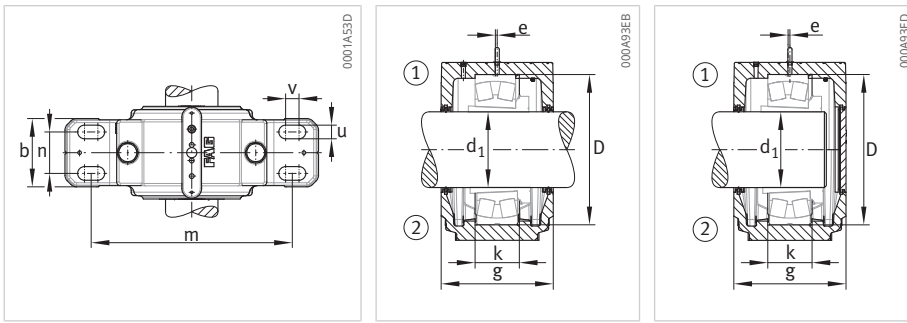
Inch size shaft



Housing		d <sub>1</sub>	h	h <sub>1</sub>	g	b	c
Ductile cast iron	Gray cast iron						
		inch	inch	inch	inch	inch	inch
FSAFD518×0303U	FSAF518×0303U	3.1875	4	7.75	5.5	3.875	1.625
SAFD518×0303U	SAF518×0303U	3.1875	4	7.75	5.5	3.875	1.625
FSAFD518×0303U	FSAF518×0303U	3.125	4	7.75	5.5	3.875	1.625
SAFD518×0303U	SAF518×0303U	3.25	4	7.75	5.5	3.875	1.625
FSAFD518×0303U	FSAF518×0303U	3.25	4	7.75	5.5	3.875	1.625
SAFD520×0307U	SAF520×0307U	3.3125	4.5	8.4375	5.8125	4.375	1.75
FSAFD520×0307U	FSAF520×0307U	3.3125	4.5	8.4375	5.8125	4.375	1.75
SAFD520×0307U	SAF520×0307U	3.375	4.5	8.4375	5.8125	4.375	1.75
FSAFD520×0307U	FSAF520×0307U	3.375	4.5	8.4375	5.8125	4.375	1.75
FSAFD520×0307U	FSAF520×0307U	3.4375	4.5	8.4375	5.8125	4.375	1.75
SAFD520×0307U	SAF520×0307U	3.4375	4.5	8.4375	5.8125	4.375	1.75
FSAFD520×0307U	FSAF520×0307U	3.4375	4.5	8.4375	5.8125	4.375	1.75
SAFD520×0307U	SAF520×0307U	3.5	4.5	8.4375	5.8125	4.375	1.75
SAFD522×0315U	SAF522×0315U	3.8125	4.9375	9.625	6.4375	4.75	2
SAFD522×0315U	SAF522×0315U	3.875	4.9375	9.625	6.4375	4.75	2
SAFD522×0315U	SAF522×0315U	3.9375	4.9375	9.625	6.4375	4.75	2
SAFD522×0315U	SAF522×0315U	4	4.9375	9.625	6.4375	4.75	2
SAFD524×0403U	SAF524×0403U	4.0625	5.25	10.25	7.125	4.75	2.125
SAFD524×0403U	SAF524×0403U	4.125	5.25	10.25	7.125	4.75	2.125
SAFD524×0403U	SAF524×0403U	4.1875	5.25	10.25	7.125	4.75	2.125
SAFD524×0403U	SAF524×0403U	4.25	5.25	10.25	7.125	4.75	2.125
SAFD526×0407U	SAF526×0407U	4.3125	6	11.5	7.75	5.125	3.375
SAFD526×0407U	SAF526×0407U	4.375	6	11.5	7.75	5.125	3.375
SAFD526×0407U	SAF526×0407U	4.4375	6	11.5	7.75	5.125	3.375
SAFD526×0407U	SAF526×0407U	4.5	6	11.5	7.75	5.125	3.375
SAFD528×0415U	SAF528×0415U	4.8125	6	11.75	7.375	5.875	2.375
SAFD528×0415U	SAF528×0415U	4.875	6	11.75	7.375	5.875	2.375
SAFD528×0415U	SAF528×0415U	4.9375	6	11.75	7.375	5.875	2.375
SAFD530×0503U	-	5.125	6.3125	12.5	8.125	6.25	2.5
SAFD530×0503U	-	5.1875	6.3125	12.5	8.125	6.25	2.5
SAFD530×0503U	-	5.25	6.3125	12.5	8.125	6.25	2.5
SAFD532×0507U	SAF532×0507U	5.375	6.6875	13.3125	8.5	6.25	2.625
SAFD532×0507U	SAF532×0507U	5.4375	6.6875	13.3125	8.5	6.25	2.625
SAFD532×0507U	SAF532×0507U	5.5	6.6875	13.3125	8.5	6.25	2.625
SAFD534×0515U	SAF534×0515U	5.8125	7.0625	14.1875	9.25	6.75	2.75
SAFD534×0515U	SAF534×0515U	5.875	7.0625	14.1875	9.25	6.75	2.75
SAFD534×0515U	SAF534×0515U	5.9375	7.0625	14.1875	9.25	6.75	2.75
SAFD534×0515U	SAF534×0515U	6	7.0625	14.1875	9.25	6.75	2.75

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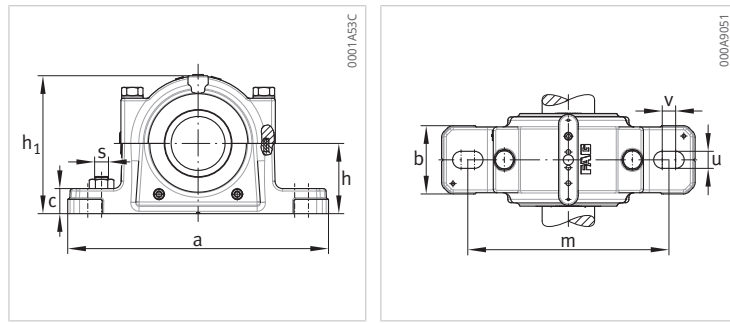


a	m	v	u	n	s	D	k	e	m
inch	inch	inch	inch	inch	inch	mm	mm	inch	kg
13.75	11	0.625	0.75	2.125	0.625	160	49.8	0.2	17
13.75	11	0.625	0.875	-	0.75	160	49.8	0.2	16.9
13.75	11	0.625	0.75	2.125	0.625	160	49.8	0.2	17
13.75	11	0.625	0.875	-	0.75	160	49.8	0.2	16.9
13.75	11	0.625	0.75	2.125	0.625	160	49.8	0.2	17
15.25	12.375	0.75	1	-	0.875	180	55.8	0.2	21.6
15.25	12.375	0.75	0.875	2.375	0.75	180	55.8	0.2	21.8
15.25	12.375	0.75	1	-	0.875	180	55.8	0.2	21.6
15.25	12.375	0.75	0.875	2.375	0.75	180	55.8	0.2	21.8
15.25	12.375	0.75	0.875	2.375	0.75	180	55.8	0.2	21.8
15.25	12.375	0.75	1	-	0.875	180	55.8	0.2	21.6
15.25	12.375	0.75	0.875	2.375	0.75	180	55.8	0.2	21.8
15.25	12.375	0.75	1	-	0.875	180	55.8	0.2	21.6
16.5	13.5625	0.9375	0.875	2.75	0.75	200	62.8	0.2	33.2
16.5	13.5625	0.9375	0.875	2.75	0.75	200	62.8	0.2	33.2
16.5	13.5625	0.9375	0.875	2.75	0.75	200	62.8	0.2	33.2
16.5	13.5625	0.9375	0.875	2.75	0.75	200	62.8	0.2	33.2
16.5	13.875	0.625	0.875	2.75	0.75	215	67.8	0.2	36.3
16.5	13.875	0.625	0.875	2.75	0.75	215	67.8	0.2	36.3
16.5	13.875	0.625	0.875	2.75	0.75	215	67.8	0.2	36.3
16.5	13.875	0.625	0.875	2.75	0.75	215	67.8	0.2	36.3
18.375	15.3125	0.6875	1	3.25	0.875	230	73.8	0.2	49.1
18.375	15.3125	0.6875	1	3.25	0.875	230	73.8	0.2	49.1
18.375	15.3125	0.6875	1	3.25	0.875	230	73.8	0.2	49.1
18.375	15.3125	0.6875	1	3.25	0.875	230	73.8	0.2	49.1
20.125	16.5	0.875	1.125	3.375	1	250	77.8	0.2	52.3
20.125	16.5	0.875	1.125	3.375	1	250	77.8	0.2	52.3
20.125	16.5	0.875	1.125	3.375	1	250	77.8	0.2	52.3
21.25	17.625	0.625	1.125	3.75	1	270	82.8	0.2	62.8
21.25	17.625	0.625	1.125	3.75	1	270	82.8	0.2	62.8
21.25	17.625	0.625	1.125	3.75	1	270	82.8	0.2	62.8
22	18.3125	0.9375	1.125	3.75	1	290	89.8	0.2	75
22	18.3125	0.9375	1.125	3.75	1	290	89.8	0.2	75
22	18.3125	0.9375	1.125	3.75	1	290	89.8	0.2	75
24.75	20.5	1.125	1.125	4.25	1	310	95.8	0.2	89.5
24.75	20.5	1.125	1.125	4.25	1	310	95.8	0.2	89.5
24.75	20.5	1.125	1.125	4.25	1	310	95.8	0.2	89.5
24.75	20.5	1.125	1.125	4.25	1	310	95.8	0.2	89.5

## 16.8 SAF500, All Sizes, Dimensioning

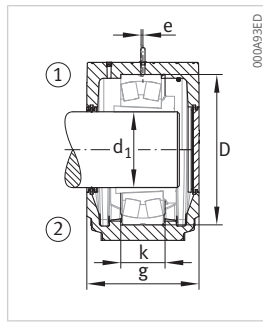
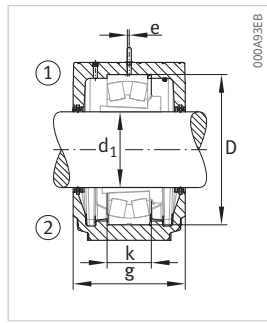
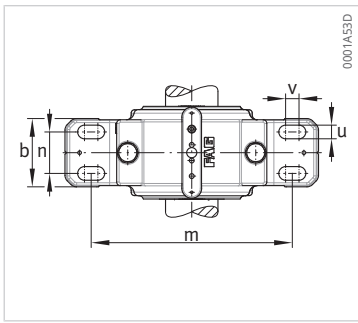
For spherical roller bearings with tapered bore and adapter sleeve

Inch size shaft



Housing		d <sub>1</sub>	h	h <sub>1</sub>	g	b	c
Ductile cast iron	Gray cast iron						
		inch	inch	inch	inch	inch	inch
SAFD536×0607U	SAF536×0607U	6.3125	7.5	14.875	9.625	7.125	3
SAFD536×0607U	SAF536×0607U	6.375	7.5	14.875	9.625	7.125	3
SAFD536×0607U	SAF536×0607U	6.4375	7.5	14.875	9.625	7.125	3
SAFD536×0607U	SAF536×0607U	6.5	7.5	14.875	9.625	7.125	3
SAFD538×0615U	SAF538×0615U	6.8125	7.875	15.5625	10.5	7.5	3.125
SAFD538×0615U	SAF538×0615U	6.875	7.875	15.5625	10.5	7.5	3.125
SAFD538×0615U	SAF538×0615U	6.9375	7.875	15.5625	10.5	7.5	3.125
SAFD538×0615U	SAF538×0615U	7	7.875	15.5625	10.5	7.5	3.125
SAFD540×0703U	-	7.125	8.25	16.5	11	8	3.375
SAFD540×0703U	-	7.1875	8.25	16.5	11	8	3.375
SAFD540×0703U	-	7.25	8.25	16.5	11	8	3.375
SAFD544×0715U	SAF544×0715U	7.5	9.5	18.625	11.75	8.75	3.75
SAFD544×0715U	SAF544×0715U	7.8125	9.5	18.625	11.75	8.75	3.75
SAFD544×0715U	SAF544×0715U	7.875	9.5	18.625	11.75	8.75	3.75
SAFD544×0715U	SAF544×0715U	7.9375	9.5	18.625	11.75	8.75	3.75
SAFD544×0715U	SAF544×0715U	8	9.5	18.625	11.75	8.75	3.75

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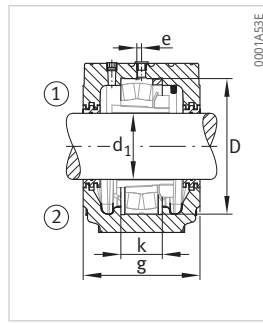


a	m	v	u	n	s	D	k	e	m
inch	inch	inch	inch	inch	inch	mm	mm	inch	kg
26.75	22.25	1.375	1.125	4.625	1	320	95.8	0.2	106.5
26.75	22.25	1.375	1.125	4.625	1	320	95.8	0.2	106.5
26.75	22.25	1.375	1.125	4.625	1	320	95.8	0.2	106.5
26.75	22.25	1.375	1.125	4.625	1	320	95.8	0.2	106.5
28	23	1.375	1.375	4.5	1.25	340	101.8	0.2	123.4
28	23	1.375	1.375	4.5	1.25	340	101.8	0.2	123.4
28	23	1.375	1.375	4.5	1.25	340	101.8	0.2	123.4
28	23	1.375	1.375	4.5	1.25	340	101.8	0.2	123.4
29.5	23.75	1.25	1.375	5	1.25	360	107.8	0.2	154
29.5	23.75	1.25	1.375	5	1.25	360	107.8	0.2	154
29.5	23.75	1.25	1.375	5	1.25	360	107.8	0.2	154
32.75	26.3125	1.5625	1.625	5.25	1.5	400	117.8	0.2	201.9
32.75	26.3125	1.5625	1.625	5.25	1.5	400	117.8	0.2	201.9
32.75	26.3125	1.5625	1.625	5.25	1.5	400	117.8	0.2	201.9
32.75	26.3125	1.5625	1.625	5.25	1.5	400	117.8	0.2	201.9
32.75	26.3125	1.5625	1.625	5.25	1.5	400	117.8	0.2	201.9

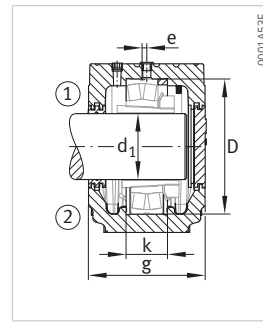
## 16.9 SAF500, All Sizes, Accessories

For spherical roller bearings with tapered bore and adapter sleeve

Inch size shaft

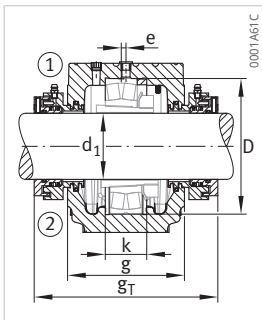


Labyrinth seal LER

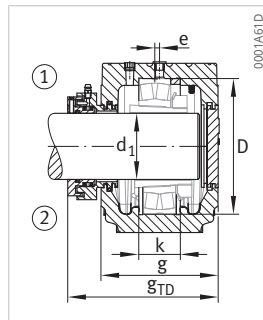


Labyrinth seal LER, end cover EC

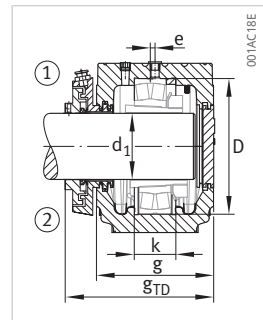
Housing		d <sub>1</sub>	Spherical roller bearing <sup>1)</sup>	Adapter sleeve, thread <sup>1)</sup>		Locating ring	
Ductile cast iron	Grey cast iron			metric	inch		Quantity
		inch					
SAFD509×0107U	-	1.375	22209-E1-K	H309×0106	SNW09×0106	SR-9-9	1
SAFD509×0107U	-	1.4375	22209-E1-K	H309×0107	SNW09×0107	SR-9-9	1
SAFD509×0107U	-	1.5	22209-E1-K	H309×0108	SNW09×0108	SR-9-9	1
SAFD510×0111U	-	1.625	22210-E1-K	H310×0110	SNW10×0110	SR-10-0	1
SAFD510×0111U	-	1.6875	22210-E1-K	H310×0111	SNW10×0111	SR-10-0	1
SAFD510×0111U	-	1.75	22210-E1-K	H310×0112	SNW10×0112	SR-10-0	1
SAFD511×0115U	-	1.8125	22211-E1-K	H311×0113	SNW11×0113	SR-11-0	1
SAFD511×0115U	-	1.875	22211-E1-K	H311×0114	SNW11×0114	SR-11-0	1
SAFD511×0115U	-	1.9375	22211-E1-K	H311×0115	SNW11×0115	SR-11-0	1
SAFD513×0203U	-	2	22213-E1-K	H313×0200	SNW13×0200	SR-13-0	1
SAFD511×0115U	-	2	22211-E1-K	H311×0200	SNW11×0200	SR-11-0	1
SAFD513×0203U	-	2.0625	22213-E1-K	H313×0201	SNW13×0201	SR-13-0	1
SAFD513×0203U	-	2.125	22213-E1-K	H313×0202	SNW13×0202	SR-13-0	1
SAFD513×0203U	-	2.1875	22213-E1-K	H313×0203	SNW13×0203	SR-13-0	1
SAFD513×0203U	-	2.25	22213-E1-K	H313×0204	SNW13×0204	SR-13-0	1
SAFD515×0207U	SAF515×0207U	2.375	22215-E1-K	H315×0206	SNW15×0206	SR-15-0	1
FSAFD515×0207U	FSAF515×0207U	2.375	22215-E1-K	H315×0206	SNW15×0206	SR-15-0	1
FSAFD515×0207U	FSAF515×0207U	2.4375	22215-E1-K	H315×0207	SNW15×0207	SR-15-0	1
SAFD515×0207U	SAF515×0207U	2.4375	22215-E1-K	H315×0207	SNW15×0207	SR-15-0	1
SAFD515×0207U	SAF515×0207U	2.5	22215-E1-K	H315×0208	SNW15×0208	SR-15-0	1
FSAFD515×0207U	FSAF515×0207U	2.5	22215-E1-K	H315×0208	SNW15×0208	SR-15-0	1
SAFD516×0211U	-	2.5625	22216-E1-K	H316×0209	SNW16×0209	SR-16-13	1
FSAFD516×0211U	-	2.5625	22216-E1-K	H316×0209	SNW16×0209	SR-16-13	1
SAFD516×0211U	-	2.625	22216-E1-K	H316×0210	SNW16×0210	SR-16-13	1
FSAFD516×0211U	-	2.625	22216-E1-K	H316×0210	SNW16×0210	SR-16-13	1
FSAFD516×0211U	-	2.6875	22216-E1-K	H316×0211	SNW16×0211	SR-16-13	1
SAFD516×0211U	-	2.6875	22216-E1-K	H316×0211	SNW16×0211	SR-16-13	1
SAFD516×0211U	-	2.75	22216-E1-K	H316×0212	SNW16×0212	SR-16-13	1
FSAFD516×0211U	-	2.75	22216-E1-K	H316×0212	SNW16×0212	SR-16-13	1
SAFD517×0215U	SAF517×0215U	2.9375	22217-E1-K	H317×0213	SNW17×0213	SR-17-14	1
SAFD517×0215U	SAF517×0215U	2.9375	22217-E1-K	H317×0214	SNW17×0214	SR-17-14	1
FSAFD517×0215U	FSAF517×0215U	2.9375	22217-E1-K	H317×0215	SNW17×0215	SR-17-14	1
SAFD517×0215U	SAF517×0215U	2.9375	22217-E1-K	H317×0215	SNW17×0215	SR-17-14	1
FSAFD517×0215U	FSAF517×0215U	3	22217-E1-K	H317×0300	SNW17×0300	SR-17-14	1
FSAFD517×0215U	FSAF517×0215U	2.9375	22217-E1-K	H317×0214	SNW17×0214	SR-17-14	1
FSAFD517×0215U	FSAF517×0215U	2.9375	22217-E1-K	H317×0213	SNW17×0213	SR-17-14	1
SAFD517×0215U	SAF517×0215U	3	22217-E1-K	H317×0300	SNW17×0300	SR-17-14	1
SAFD518×0303U	SAF518×0303U	3.215	22218-E1-K	H318×0302	SNW18×0302	SR-18-15	1



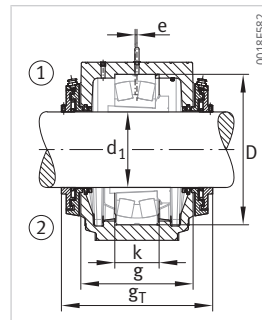
Taconite seal SuperTAC II TA



Taconite seal SuperTAC II TA, end cover EC



Taconite seal MaxTAC NTC, end cover EC



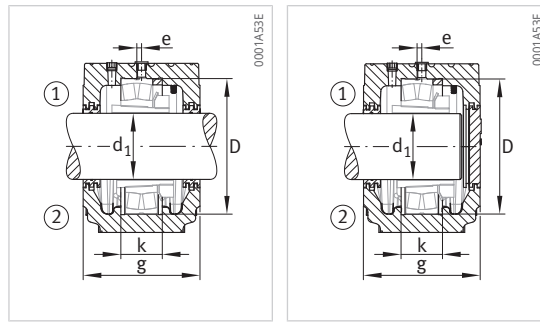
Taconite seal MaxTAC NTC

LER	EC	LER <sup>1)</sup>	SuperTAC II TA <sup>1)</sup>			MaxTAC NTC <sup>1)</sup>		
2 pieces		2 pieces		g <sub>T</sub>	g <sub>TD</sub>		g <sub>T</sub>	g <sub>TD</sub>
				inch	inch		inch	inch
LER17×0107-G-A	EC509-R	LER16×0106-G-A	-	-	-	-	-	-
LER17×0107-G-A	EC509-R	-	TA17×0107	5.9	4.7	-	-	-
LER17×0107-G-A	EC509-R	LER18×0108-G-A	-	-	-	-	-	-
LER20×0111-G-A	EC510-R	LER19×0110-G-A	-	-	-	-	-	-
LER20×0111-G-A	EC510-R	-	TA20×0111	5.85	4.65	-	-	-
LER20×0111-G-A	EC510-R	LER21×0112-G-A	-	-	-	-	-	-
LER24×0115-G-A	EC511-R	LER22×0113-G-A	-	-	-	-	-	-
LER24×0115-G-A	EC511-R	LER23×0114-G-A	-	-	-	-	-	-
LER24×0115-G-A	EC511-R	-	TA24×0115	6.35	5.05	-	-	-
LER29×0203-G-A	EC513-R	LER26×0200-G-A	-	-	-	-	-	-
LER24×0115-G-A	EC511-R	LER25×0200-G-A	-	-	-	-	-	-
LER29×0203-G-A	EC513-R	LER27×0201-G-A	-	-	-	-	-	-
LER29×0203-G-A	EC513-R	LER28×0202-G-A	-	-	-	-	-	-
LER29×0203-G-A	EC513-R	-	TA29×0203	6.9	5.6	NTC29×203	6.65	5.45
LER29×0203-G-A	EC513-R	LER30×0204-G-A	-	-	-	-	-	-
LER37×0207-G-A	EC515-R	LER36×0206-G-A	-	-	-	-	-	-
LER37×0207-G-A	EC515-R	LER36×0206-G-A	-	-	-	-	-	-
LER37×0207-G-A	EC515-R	-	TA37×0207	7.35	6	NTC37×207	7.35	6
LER37×0207-G-A	EC515-R	-	TA37×0207	7.35	6	NTC37×207	7.35	6
LER37×0207-G-A	EC515-R	LER38×0208-G-A	-	-	-	-	-	-
LER37×0207-G-A	EC515-R	LER38×0208-G-A	-	-	-	-	-	-
LER44×0211-G-A	EC516-R	LER42×0209-G-A	-	-	-	-	-	-
LER44×0211-G-A	EC516-R	LER42×0209-G-A	-	-	-	-	-	-
LER44×0211-G-A	EC516-R	LER43×0210-G-A	-	-	-	-	-	-
LER44×0211-G-A	EC516-R	LER43×0210-G-A	-	-	-	-	-	-
LER44×0211-G-A	EC516-R	-	TA44×0211	7.45	6.15	NTC44×211	7.45	6.15
LER44×0211-G-A	EC516-R	-	TA44×0211	7.45	6.15	NTC44×211	7.45	6.15
LER44×0211-G-A	EC516-R	LER45×0212-G-A	-	-	-	-	-	-
LER44×0211-G-A	EC516-R	LER45×0212-G-A	-	-	-	-	-	-
LER53×0215-G-A	EC517-R	LER51×0213-G-A	-	-	-	-	-	-
LER53×0215-G-A	EC517-R	LER52×0214-G-A	-	-	-	-	-	-
LER53×0215-G-A	EC517-R	-	TA53×0215	7.7	6.3	NTC53×215	7.7	6.3
LER53×0215-G-A	EC517-R	-	TA53×0215	7.7	6.3	NTC53×215	7.7	6.3
LER53×0215-G-A	EC517-R	LER54×0300-G-A	-	-	-	-	-	-
LER53×0215-G-A	EC517-R	LER52×0214-G-A	-	-	-	-	-	-
LER53×0215-G-A	EC517-R	LER51×0213-G-A	-	-	-	-	-	-
LER53×0215-G-A	EC517-R	LER54×0300-G-A	-	-	-	-	-	-
LER188×0303-G-A	EC518-R	LER187×0302-G-A	-	-	-	-	-	-

## 16.9 SAF500, All Sizes, Accessories

For spherical roller bearings with tapered bore and adapter sleeve

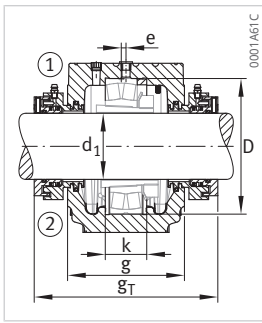
Inch size shaft



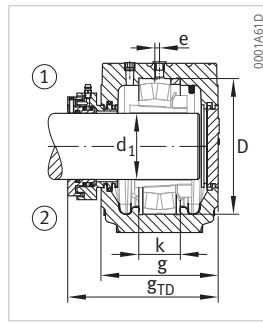
Labyrinth seal LER

Labyrinth seal LER, end cover EC

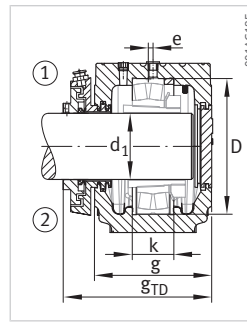
Housing		d <sub>1</sub>	Spherical roller bearing <sup>1)</sup>	Adapter sleeve, thread <sup>1)</sup>		Locating ring	
Ductile cast iron	Grey cast iron			metric	inch		Quantity
		inch					
FSAFD518×0303U	FSAF518×0303U	3.1875	22218-E1-K	H318×0303	SNW18×0303	SR-18-15	1
SAFD518×0303U	SAF518×0303U	3.1875	22218-E1-K	H318×0303	SNW18×0303	SR-18-15	1
FSAFD518×0303U	FSAF518×0303U	3.125	22218-E1-K	H318×0302	SNW18×0302	SR-18-15	1
SAFD518×0303U	SAF518×0303U	3.25	22218-E1-K	H318×0304	SNW18×0304	SR-18-15	1
FSAFD518×0303U	FSAF518×0303U	3.25	22218-E1-K	H318×0304	SNW18×0304	SR-18-15	1
SAFD520×0307U	SAF520×0307U	3.3125	22220-E1-K	H320×0305	SNW20×0305	SR-20-17	1
FSAFD520×0307U	FSAF520×0307U	3.3125	22220-E1-K	H320×0305	SNW20×0305	SR-20-17	1
SAFD520×0307U	SAF520×0307U	3.375	22220-E1-K	H320×0306	SNW20×0306	SR-20-17	1
FSAFD520×0307U	FSAF520×0307U	3.375	22220-E1-K	H320×0306	SNW20×0306	SR-20-17	1
FSAFD520×0307U	FSAF520×0307U	3.4375	22220-E1-K	H320×0307	SNW20×0307	SR-20-17	1
SAFD520×0307U	SAF520×0307U	3.4375	22220-E1-K	H320×0307	SNW20×0307	SR-20-17	1
FSAFD520×0307U	FSAF520×0307U	3.4375	22220-E1-K	H320×0308	SNW20×0308	SR-20-17	1
SAFD520×0307U	SAF520×0307U	3.5	22220-E1-K	H320×0308	SNW20×0308	SR-20-17	1
SAFD522×0315U	SAF522×0315U	3.8125	22222-E1-K	H322×0313	SNW22×0313	SR-22-19	1
SAFD522×0315U	SAF522×0315U	3.875	22222-E1-K	H322×0314	SNW22×0314	SR-22-19	1
SAFD522×0315U	SAF522×0315U	3.9375	22222-E1-K	H322×0315	SNW22×0315	SR-22-19	1
SAFD522×0315U	SAF522×0315U	4	22222-E1-K	H322×0400	SNW22×0400	SR-22-19	1
SAFD524×0403U	SAF524×0403U	4.0625	22224-E1-K	H3124×0401	SNW24×0401	SR-24-20	1
SAFD524×0403U	SAF524×0403U	4.125	22224-E1-K	H3124×0402	SNW24×0402	SR-24-20	1
SAFD524×0403U	SAF524×0403U	4.1875	22224-E1-K	H3124×0403	SNW24×0403	SR-24-20	1
SAFD524×0403U	SAF524×0403U	4.25	22224-E1-K	H3124×0404	SNW24×0404	SR-24-20	1
SAFD526×0407U	SAF526×0407U	4.3125	22226-E1-K	H3126×0405	SNW26×0405	SR-26-0	1
SAFD526×0407U	SAF526×0407U	4.375	22226-E1-K	H3126×0406	SNW26×0406	SR-26-0	1
SAFD526×0407U	SAF526×0407U	4.4375	22226-E1-K	H3126×0407	SNW26×0407	SR-26-0	1
SAFD526×0407U	SAF526×0407U	4.5	22226-E1-K	H3126×0408	SNW26×0408	SR-26-0	1
SAFD528×0415U	SAF528×0415U	4.8125	22228-E1-K	H3128×0413	SNW28×0413	SR-28-0	1
SAFD528×0415U	SAF528×0415U	4.875	22228-E1-K	H3128×0414	SNW28×0414	SR-28-0	1
SAFD528×0415U	SAF528×0415U	4.9375	22228-E1-K	H3128×0415	SNW28×0415	SR-28-0	1
SAFD530×0503U	-	5.125	22230-E1-K	H3130×0502	SNW30×0502	SR-30-0	1
SAFD530×0503U	-	5.1875	22230-E1-K	H3130×0503	SNW30×0503	SR-30-0	1
SAFD530×0503U	-	5.25	22230-E1-K	H3130×0504	SNW30×0504	SR-30-0	1
SAFD532×0507U	SAF532×0507U	5.375	22232-E1-K	H3132×0506	SNW32×0506	SR-32-0	1
SAFD532×0507U	SAF532×0507U	5.4375	22232-E1-K	H3132×0507	SNW32×0507	SR-32-0	1
SAFD532×0507U	SAF532×0507U	5.5	22232-E1-K	H3132×0508	SNW32×0508	SR-32-0	1
SAFD534×0515U	SAF534×0515U	5.8125	22234-E1-K	H3134×0513	SNW34×0513	SR-34-0	1
SAFD534×0515U	SAF534×0515U	5.875	22234-E1-K	H3134×0514	SNW34×0514	SR-34-0	1
SAFD534×0515U	SAF534×0515U	5.9375	22234-E1-K	H3134×0515	SNW34×0515	SR-34-0	1
SAFD534×0515U	SAF534×0515U	6	22234-E1-K	H3134×0600	SNW34×0600	SR-34-0	1



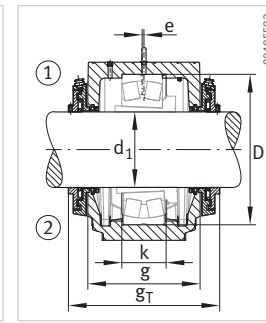
Taconite seal SuperTAC II TA



Taconite seal SuperTAC II TA, end cover EC



Taconite seal MaxTAC NTC, end cover EC



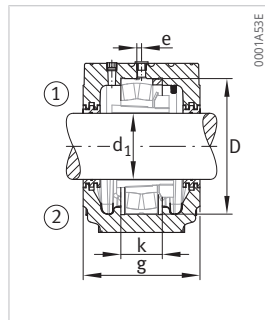
Taconite seal MaxTAC NTC

LER	EC	LER <sup>1)</sup>	SuperTAC II TA <sup>1)</sup>			MaxTAC NTC <sup>1)</sup>		
			2 pieces	g <sub>T</sub>	g <sub>TD</sub>	g <sub>T</sub>	g <sub>TD</sub>	
								inch
LER188×0303-G-A	EC518-R	-	TA188×0303	7.95	6.75	NTC188×303	8	6.75
LER188×0303-G-A	EC518-R	-	TA188×0303	7.95	6.75	NTC188×303	8	6.75
LER188×0303-G-A	EC518-R	LER187×0302-G-A	-	-	-	-	-	-
LER188×0303-G-A	EC518-R	LER189×0304-G-A	-	-	-	-	-	-
LER188×0303-G-A	EC518-R	LER189×0304-G-A	-	-	-	-	-	-
LER102×0307-G-A	EC520-R	LER100×0305-G-A	-	-	-	-	-	-
LER102×0307-G-A	EC520-R	LER100×0305-G-A	-	-	-	-	-	-
LER102×0307-G-A	EC520-R	LER101×0306-G-A	-	-	-	-	-	-
LER102×0307-G-A	EC520-R	LER101×0306-G-A	-	-	-	-	-	-
LER102×0307-G-A	EC520-R	-	TA102×0307	8.95	7.45	NTC102×307	8.7	7.3
LER102×0307-G-A	EC520-R	-	TA102×0307	8.95	7.45	NTC102×307	8.7	7.3
LER102×0307-G-A	EC520-R	LER103×0308-G-A	-	-	-	-	-	-
LER102×0307-G-A	EC520-R	LER103×0308-G-A	-	-	-	-	-	-
LER109×0315-G-A	EC522-R	LER107×0313-G-A	-	-	-	-	-	-
LER109×0315-G-A	EC522-R	LER108×0314-G-A	-	-	-	-	-	-
LER109×0315-G-A	EC522-R	-	TA109×0315	9.45	7.95	NTC109×315	9.3	7.85
LER109×0315-G-A	EC522-R	LER110×0400-G-A	-	-	-	-	-	-
LER113×0403-G-A	EC524-R	LER111×0401-G-A	-	-	-	-	-	-
LER113×0403-G-A	EC524-R	LER112×0402-G-A	-	-	-	-	-	-
LER113×0403-G-A	EC524-R	-	TA113×0403	10.2	8.65	NTC113×403	10.1	8.6
LER113×0403-G-A	EC524-R	LER114×0404-G-A	-	-	-	-	-	-
LER117×0407-G-A	EC526-R	LER115×0405-G-A	-	-	-	-	-	-
LER117×0407-G-A	EC526-R	LER116×0406-G-A	-	-	-	-	-	-
LER117×0407-G-A	EC526-R	-	TA117×0407	11.25	9.5	NTC117×407	10.75	9.25
LER117×0407-G-A	EC526-R	LER118×0408-G-A	-	-	-	-	-	-
LER122×0415-G-A	EC528-R	LER120×0413-G-A	-	-	-	-	-	-
LER122×0415-G-A	EC528-R	LER121×0414-G-A	-	-	-	-	-	-
LER122×0415-G-A	EC528-R	-	TA122×0415	10.85	9.1	NTC122×415	10.35	8.85
LER125×0503-G-A	EC530-R	LER124×0502-G-A	-	-	-	-	-	-
LER125×0503-G-A	EC530-R	-	TA125×0503	11.85	10	NTC125×503	11.25	9.7
LER125×0503-G-A	EC530-R	LER126×0504-G-A	-	-	-	-	-	-
LER130×0507-G-A	EC532-R	LER129×0506-G-A	-	-	-	-	-	-
LER130×0507-G-A	EC532-R	-	TA130×0507	12.15	10.35	NTC130×507	11.8	10.15
LER130×0507-G-A	EC532-R	LER131×0508-G-A	-	-	-	-	-	-
LER140×0515-G-A	EC534-R	LER138×0513-G-A	-	-	-	-	-	-
LER140×0515-G-A	EC534-R	LER139×0514-G-A	-	-	-	-	-	-
LER140×0515-G-A	EC534-R	-	TA140×0515	13.15	11.2	NTC140×515	12.9	11.1
LER140×0515-G-A	EC534-R	LER141×0600-G-A	-	-	-	-	-	-

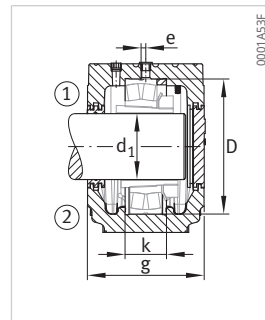
## 16.9 SAF500, All Sizes, Accessories

For spherical roller bearings with tapered bore and adapter sleeve

Inch size shaft



Labyrinth seal LER

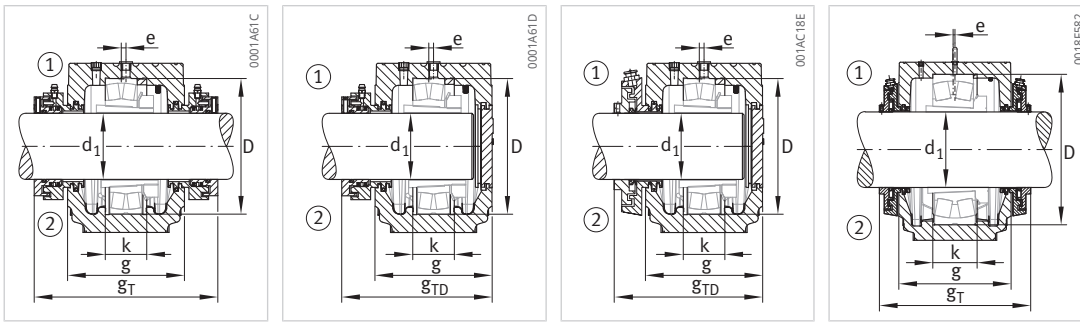


Labyrinth seal LER, end cover EC

Housing		d <sub>1</sub>	Spherical roller bearing <sup>1)</sup>	Adapter sleeve, thread <sup>1)</sup>		Locating ring	
Ductile cast iron	Grey cast iron			metric	inch		Quantity
		inch					
SAFD536×0607U	SAF536×0607U	6.3125	22236-E1-K	H3136×0605	SNW36×0605	SR-36-30	1
SAFD536×0607U	SAF536×0607U	6.375	22236-E1-K	H3136×0606	SNW36×0606	SR-36-30	1
SAFD536×0607U	SAF536×0607U	6.4375	22236-E1-K	H3136×0607	SNW37×0607	SR-36-30	1
SAFD536×0607U	SAF536×0607U	6.5	22236-E1-K	H3136×0608	SNW36×0608	SR-36-30	1
SAFD538×0615U	SAF538×0615U	6.8125	22238-E1-K	H3138×0613	SNW38×0613	SR-38-32	1
SAFD538×0615U	SAF538×0615U	6.875	22238-E1-K	H3138×0614	SNW38×0614	SR-38-32	1
SAFD538×0615U	SAF538×0615U	6.9375	22238-E1-K	H3138×0615	SNW38×0615	SR-38-32	1
SAFD538×0615U	SAF538×0615U	7	22238-E1-K	H3138×0700	SNW38×0700	SR-38-32	1
SAFD540×0703U	-	7.125	22240-E1-K	H3140×0702	SNW40×0702	SR-40-34	1
SAFD540×0703U	-	7.1875	22240-E1-K	H3140×0703	SNW40×0703	SR-40-34	1
SAFD540×0703U	-	7.25	22240-E1-K	H3140×0704	SNW40×0704	SR-40-34	1
SAFD544×0715U	SAF544×0715U	7.5	22244-E1-K	H3144×0708	SNW44×0708	SR-44-38	1
SAFD544×0715U	SAF544×0715U	7.8125	22244-E1-K	H3144×0713	SNW44×0713	SR-44-38	1
SAFD544×0715U	SAF544×0715U	7.875	22244-E1-K	H3144×0714	SNW44×0714	SR-44-38	1
SAFD544×0715U	SAF544×0715U	7.9375	22244-E1-K	H3144×0715	SNW44×0715	SR-44-38	1
SAFD544×0715U	SAF544×0715U	8	22244-E1-K	H3144×0800	SNW44×0800	SR-44-38	1

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Taconite seal SuperTAC II TA

Taconite seal SuperTAC II TA, end cover EC

Taconite seal MaxTAC NTC, end cover EC

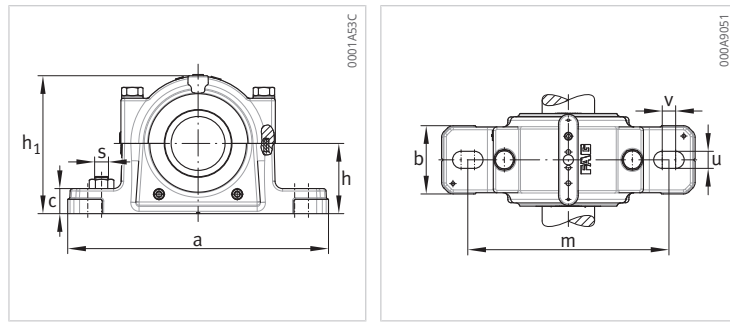
Taconite seal MaxTAC NTC

LER	EC	LER <sup>1)</sup>	SuperTAC II TA <sup>1)</sup>				MaxTAC NTC <sup>1)</sup>		
			2 pieces		2 pieces		2 pieces		2 pieces
			$g_T$	$g_{TD}$	$g_T$	$g_{TD}$	$g_T$	$g_{TD}$	$g_T$
			inch	inch	inch	inch	inch	inch	
LER148×0607-G-A	EC536-R	LER146×0605-G-A	-	-	-	-	-	-	
LER148×0607-G-A	EC536-R	LER147×0606-G-A	-	-	-	-	-		
LER148×0607-G-A	EC536-R	-	TA148×0607	13.55	11.6	NTC148×607	12.7	11.15	
LER148×0607-G-A	EC536-R	LER149×0608-G-A	-	-	-	-	-		
LER155×0615-G-A	EC538-R	LER153×0613-G-A	-	-	-	-	-		
LER155×0615-G-A	EC538-R	LER154×0614-G-A	-	-	-	-	-		
LER155×0615-G-A	EC538-R	-	TA155×0615	14.55	12.5	NTC155×615	13.8	12.15	
LER155×0615-G-A	EC538-R	LER156×0700-G-A	-	-	-	-	-		
LER159×0703-G-A	EC540-R	LER158×0702-G-A	-	-	-	-	-		
LER159×0703-G-A	EC540-R	-	TA159×0703	15.3	13.15	NTC159×703	15.55	13.3	
LER159×0703-G-A	EC540-R	LER160×0704-G-A	-	-	-	-	-		
LER167×0715-G-A	EC544-R	LER584×0708-G-A	-	-	-	-	-		
LER167×0715-G-A	EC544-R	LER165×0713-G-A	-	-	-	-	-		
LER167×0715-G-A	EC544-R	LER166×0714-G-A	-	-	-	-	-		
LER167×0715-G-A	EC544-R	-	TA167×0715	16.1	13.9	NTC167×715	16.25	14	
LER167×0715-G-A	EC544-R	LER168×0800-G-A	-	-	-	-	-		

<sup>1)</sup> Accessories to be ordered separately

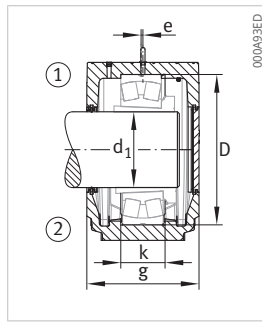
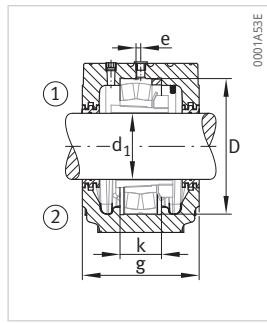
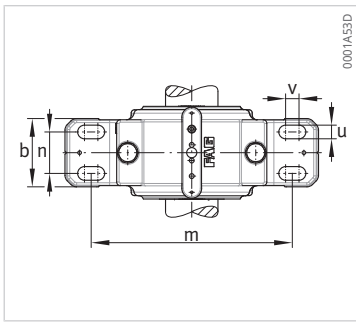
## 16.10 SAF500-WS, Dimensioning

For sealed spherical roller bearings with tapered bore and adapter sleeve  
Inch size shaft



Housing	d <sub>1</sub>	h	h <sub>1</sub>	g	b	c
Ductile cast iron						
	inch	inch	inch	inch	inch	inch
SAFD513×0203U-WS	2.1875	3	5.9375	4.25	3.125	1
FSAFD515×0207U-WS	2.4375	3.25	6.375	4.625	3.125	1.125
SAFD515×0207U-WS	2.4375	3.25	6.375	4.625	3.125	1.125
SAFD516×0211U-WS	2.6875	3.5	6.875	4.75	3.5	1.25
FSAFD516×0211U-WS	2.6875	3.5	6.875	4.75	3.5	1.25
SAFD517×0215U-WS	2.9375	3.75	7.3125	5	3.5	1.25
FSAFD517×0215U-WS	2.9375	3.75	7.3125	5	3.5	1.25
SAFD518×0303U-WS	3.1875	4	7.75	5.875	3.875	1.625
FSAFD518×0303U-WS	3.1875	4	7.75	5.875	3.875	1.625
SAFD520×0307U-WS	3.4375	4.5	8.4375	6.125	4.375	1.75
FSAFD520×0307U-WS	3.4375	4.5	8.4375	6.125	4.375	1.75
SAFD522×0315U-WS	3.9375	4.9375	9.625	6.4375	4.75	2
SAFD524×0403U-WS	4.1875	5.25	10.25	7.375	4.75	2.125
SAFD526×0407U-WS	4.4375	6	11.5	7.75	5.125	3.375

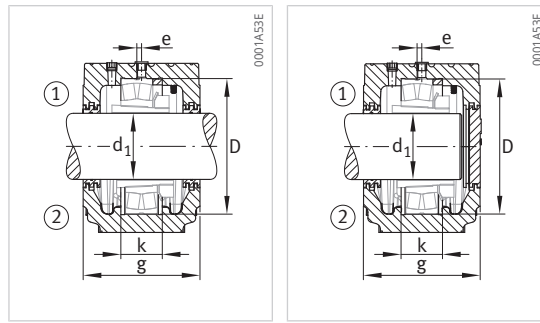
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a	m	v	u	n	s	D	k	e	m
inch	inch	inch	inch	inch	inch	mm	mm	inch	kg
11	8.8125	0.6875	0.75	-	0.625	120	42	0.1	8.6
11.25	9.125	0.5	0.625	1.875	0.5	130	44	0.1	10.1
11.25	9.125	0.5	0.75	-	0.625	130	44	0.1	10
13	10.3125	0.6875	0.875	-	0.75	140	44.9	0.2	13.6
13	10.3125	0.6875	0.75	2.125	0.625	140	44.9	0.2	13.8
13	10.4375	0.56	0.875	-	0.75	150	48.9	0.2	14.7
13	10.4375	0.56	0.75	2.125	0.625	150	48.9	0.2	14.7
13.75	11	0.625	0.875	-	0.75	160	52.9	0.1	17.8
13.75	11	0.625	0.75	2.125	0.625	160	52.9	0.1	18.2
15.25	12.375	0.75	1	-	0.875	180	59.9	0.1	21.4
15.25	12.375	0.75	0.875	2.375	0.75	180	59.9	0.1	21.6
16.5	13.5625	0.9375	0.875	2.75	0.75	200	67.9	0.15	32.4
16.5	13.875	0.625	0.875	2.75	0.75	215	73.9	0.1	37.2
18.375	15.3125	0.6875	1	3.25	0.875	230	84.8	0.2	49.8

## 16.11 SAF500-WS, Accessories

For sealed spherical roller bearings with tapered bore and adapter sleeve  
Inch size shaft

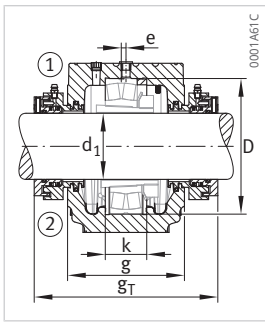


Labyrinth seal LER

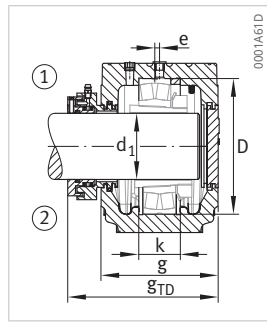
Labyrinth seal LER, end cover EC

Housing Ductile cast iron	d <sub>1</sub>	Spherical roller bearing <sup>1)</sup>	Adapter sleeve, thread <sup>1)</sup>	Locating ring	
					Quantity
			metric		
	inch				
SAFD513×0203U-WS	2.1875	WS22213-E1-K	H313×203-T-WS	FRM120/4	1
FSAFD515×0207U-WS	2.4375	WS22215-E1-K	H315×207-T-WS	SR-15-0	1
SAFD515×0207U-WS	2.4375	WS22215-E1-K	H315×207-T-WS	SR-15-0	1
SAFD516×0211U-WS	2.6875	WS22216-E1-K	H316×211-T-WS	SR-16-13-1	1
FSAFD516×0211U-WS	2.6875	WS22216-E1-K	H316×211-T-WS	SR-16-13-1	1
SAFD517×0215U-WS	2.9375	WS22217-E1-K	H317×215-T-WS	SR-17-14-1	1
FSAFD517×0215U-WS	2.9375	WS22217-E1-K	H317×215-T-WS	SR-17-14-1	1
SAFD518×0303U-WS	3.1875	WS22218-E1-K	H318×303-T-WS	SR-18-15-1	1
FSAFD518×0303U-WS	3.1875	WS22218-E1-K	H318×303-T-WS	SR-18-15-1	1
SAFD520×0307U-WS	3.4375	WS22220-E1-K	H320×307-T-WS	SR-20-17-1	1
FSAFD520×0307U-WS	3.4375	WS22220-E1-K	H320×307-T-WS	SR-20-17-1	1
SAFD522×0315U-WS	3.9375	WS22222-E1-K	H322×315-T-WS	SR-22-19-1	1
SAFD524×0403U-WS	4.1875	WS22224-E1-K	H3124×403-T-WS	SR-24-20-1	1
SAFD526×0407U-WS	4.4375	WS22226-E1-K	H3126×407-T-WS	SR-26-0	1

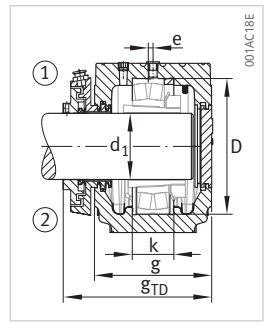
16



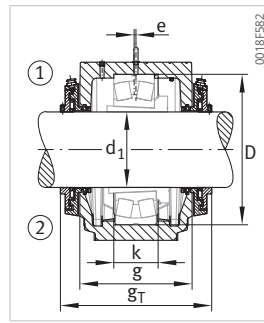
Taconite seal SuperTAC II TA



Taconite seal SuperTAC II TA, end cover EC



Taconite seal MaxTAC NTC, end cover EC



Taconite seal MaxTAC NTC

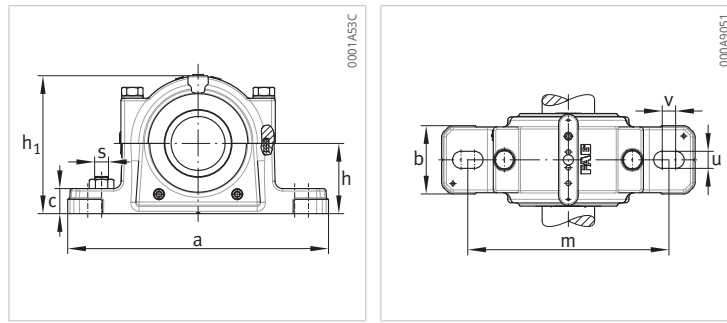
LER	EC	SuperTAC II TA <sup>1)</sup>		MaxTAC NTC <sup>1)</sup>			
		g <sub>T</sub>	g <sub>TD</sub>	g <sub>T</sub>	g <sub>TD</sub>		
						inch	inch
2 pieces							
LER29×0203-G-A	EC513-R	TA29×0203	6.9	5.6	NTC29×203	6.65	5.45
LER37×0207-G-A	EC515-R	TA37×0207	7.35	6	NTC37×207	7.35	6
LER37×0207-G-A	EC515-R	TA37×0207	7.35	6	NTC37×207	7.35	6
LER44×0211-G-A	EC516-R	TA44×0211	7.45	6.15	NTC44×211	7.45	6.15
LER44×0211-G-A	EC516-R	TA44×0211	7.45	6.15	NTC44×211	7.45	6.15
LER53×0215-G-A	EC517-R	TA53×0215	7.7	6.3	NTC53×215	7.7	6.3
LER53×0215-G-A	EC517-R	TA53×0215	7.7	6.3	NTC53×215	7.7	6.3
LER188×0303-G-A	EC518-R	TA188×0303	7.95	6.75	NTC188×303	8	6.75
LER188×0303-G-A	EC518-R	TA188×0303	7.95	6.75	NTC188×303	8	6.75
LER102×0307-G-A	EC520-R	TA102×0307	8.95	7.45	NTC102×307	8.7	7.3
LER102×0307-G-A	EC520-R	TA102×0307	8.95	7.45	NTC102×307	8.7	7.3
LER109×0315-G-A	EC522-R	TA109×0315	9.45	7.95	NTC109×315	9.3	7.85
LER113×0403-G-A	EC524-R	TA113×0403	10.2	8.65	NTC113×403	10.1	8.6
LER117×0407-G-A	EC526-R	TA117×0407	11.25	9.5	NTC117×407	10.75	9.25

<sup>1)</sup> Accessories to be ordered separately

## 16.12 SAF1500, Preferred Sizes, Dimensioning

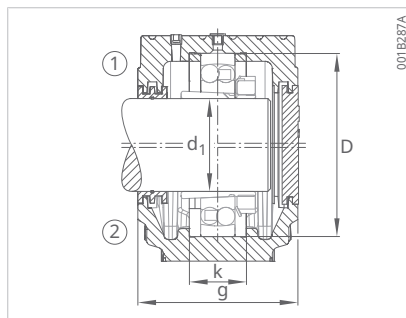
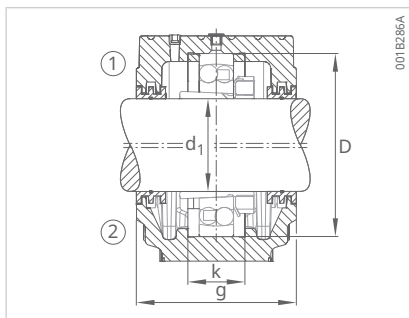
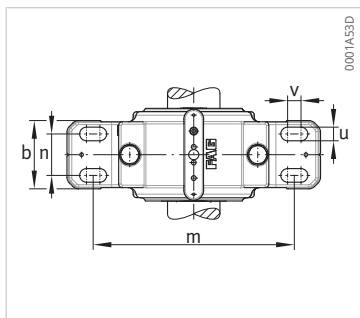
For self-aligning ball bearings with tapered bore and adapter sleeve

Inch size shaft



Housing		d <sub>1</sub>	h	h <sub>1</sub>	g	b	c
Ductile cast iron	Gray cast iron						
		inch	inch	inch	inch	inch	inch
SAFD1509×0107U	-	1.4375	2.25	4.375	3.4375	2.375	0.8125
SAFD1510×0111U	-	1.6875	2.5	4.75	3.4375	2.375	0.9375
SAFD1511×0115U	-	1.9375	2.75	5.25	3.75	2.75	0.9375
SAFD1513×0203U	-	2.1875	3	5.9375	4.25	3.125	1
SAFD1515×0207U	SAF515×0207U	2.4375	3.25	6.375	4.625	3.125	1.125
FSAFD1515×0207U	FSAF515×0207U	2.4375	3.25	6.375	4.625	3.125	1.125
SAFD1516×0211U	-	2.6875	3.5	6.875	4.75	3.5	1.25
FSAFD1516×0211U	-	2.6875	3.5	6.875	4.75	3.5	1.25
SAFD1517×0215U	SAF517×0215U	2.9375	3.75	7.3125	4.8125	3.5	1.25
FSAFD1517×0215U	FSAF517×0215U	2.9375	3.75	7.3125	4.8125	3.5	1.25
SAFD1518×0303U	SAF518×0303U	3.1875	4	7.75	5.5	3.875	1.625
FSAFD1518×0303U	FSAF518×0303U	3.1875	4	7.75	5.5	3.875	1.625
SAFD1520×0307U	SAF520×0307U	3.4375	4.5	8.4375	5.8125	4.375	1.75
FSAFD1520×0307U	FSAF520×0307U	3.4375	4.5	8.4375	5.8125	4.375	1.75
SAFD1522×0315U	SAF522×0315U	3.9375	4.9375	9.625	6.4375	4.75	2

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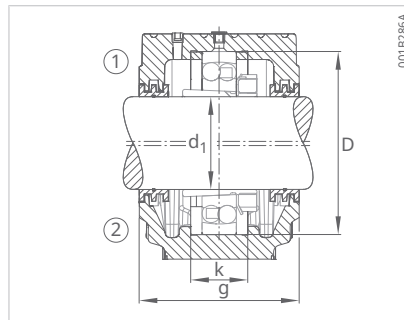


a	m	v	u	n	s	D	k	m
inch	inch	inch	inch	inch	inch	mm	mm	kg
8.25	6.625	0.375	0.625	-	0.5	85	28.8	3.6
8.25	6.75	0.25	0.625	-	0.5	90	29.8	4
9.625	7.625	0.25	0.75	-	0.625	100	30.8	5.3
11	8.8125	0.6875	0.75	-	0.625	120	39	8.6
11.25	9.125	0.5	0.75	-	0.625	130	37	10
11.25	9.125	0.5	0.625	1.875	0.5	130	37	10.6
13	10.3125	0.6875	0.875	-	0.75	140	42.8	13.7
13	10.3125	0.6875	0.75	2.125	0.625	140	42.8	13.9
13	10.4375	0.56	0.875	-	0.75	150	45.8	14
13	10.4375	0.56	0.75	2.125	0.625	150	45.8	14
13.75	11	0.625	0.875	-	0.75	160	49.8	16.9
13.75	11	0.625	0.75	2.125	0.625	160	49.8	17
15.25	12.375	0.75	1	-	0.875	180	55.8	21.6
15.25	12.375	0.75	0.875	2.375	0.75	180	55.8	21.8
16.5	13.5625	0.9375	0.875	2.75	0.75	200	62.8	33.2

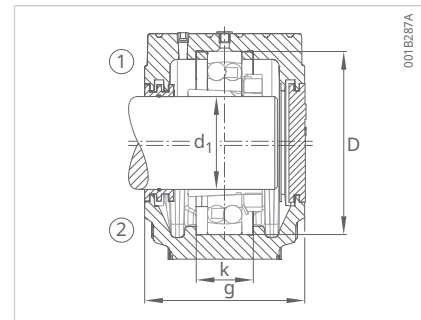
### 16.13 SAF1500, Preferred Sizes, Accessories

For self-aligning ball bearings with tapered bore and adapter sleeve

Inch size shaft



Labyrinth seal LER

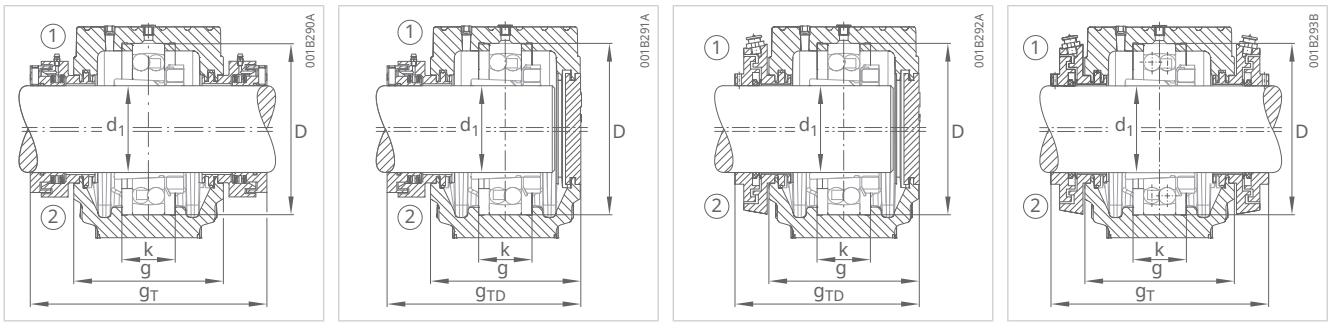


Labyrinth seal LER, end cover EC

Gehäuse		d <sub>1</sub>	Spherical roller bearing <sup>1)</sup>	Adapter sleeve, thread <sup>1)</sup>		Locating ring	
Ductile cast iron	Grey cast iron			metric	inch		Quantity
		inch					
SAFD1509×0107U	-	1.4375	1209-K-TVH	H209×107	SNW09×0107	SR-9-0	1
SAFD1510×0111U	-	1.6875	1210-K-TVH	H210×111	SNW10×0111	SR-10-8	1
SAFD1511×0115U	-	1.9375	1211-K-TVH	H211×115	SNW11×0115	SR-11-9	1
SAFD1513×0203U	-	2.1875	1213-K-TVH	H213×203	SNW13×0203	SR-13-0	2
SAFD1515×0207U	SAF515×0207U	2.4375	1215-K-TVH	H215×207	SNW15×0207	SR-15-0	2
FSAFD1515×0207U	FSAF515×0207U	2.4375	1215-K-TVH	H215×207	SNW15×0207	SR-15-0	2
SAFD1516×0211U	-	2.6875	1216-K-TVH	H216×211	SNW16×0211	SR-1516	2
FSAFD1516×0211U	-	2.6875	1216-K-TVH	H216×211	SNW16×0211	SR-1516	2
SAFD1517×0215U	SAF517×0215U	2.9375	1217-K-TVH	H217×215	SNW17×0215	SR-1517	2
FSAFD1517×0215U	FSAF517×0215U	2.9375	1217-K-TVH	H217×215	SNW17×0215	SR-1517	2
SAFD1518×0303U	SAF518×0303U	3.1875	1218-K-TVH	H218×303	SNW18×0303	SR-1518	2
FSAFD1518×0303U	FSAF518×0303U	3.1875	1218-K-TVH	H218×303	SNW18×0303	SR-1518	2
SAFD1520×0307U	SAF520×0307U	3.4375	1220-K-M	H220×307	SNW20×0307	SR-1520	2
FSAFD1520×0307U	FSAF520×0307U	3.4375	1220-K-M	H220×307	SNW20×0307	SR-1520	2
SAFD1522×0315U	SAF522×0315U	3.9375	1222-K-M	H222×315	SNW22×0315	SR-1522	2

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Taconite seal SuperTAC II TA

Taconite seal SuperTAC II TA, end cover EC

Taconite seal MaxTAC NTC, end cover EC

Taconite seal MaxTAC NTC

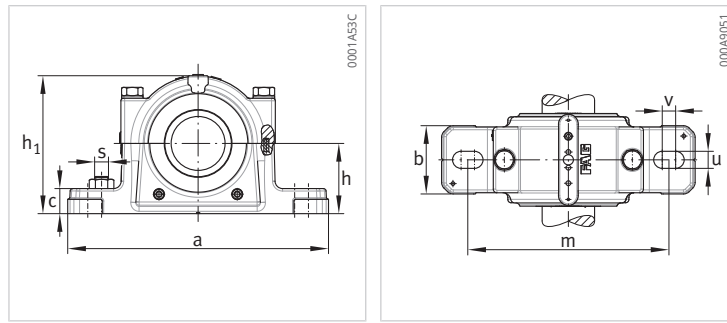
LER	EC	SuperTAC II TA <sup>1)</sup>	MaxTAC NTC <sup>1)</sup>				
			$g_T$	$g_{TD}$		$g_T$	$g_{TD}$
2 pieces			inch	inch		inch	inch
LER17×0107-G-A	EC509-R	TA17×0107	5.9	4.7	–	–	–
LER20×0111-G-A	EC510-R	TA20×0111	5.85	4.65	–	–	–
LER24×0115-G-A	EC511-R	TA24×0115	6.35	5.05	–	–	–
LER29×0203-G-A	EC513-R	TA29×0203	6.9	5.6	NTC29×203	6.65	5.45
LER37×0207-G-A	EC515-R	TA37×0207	7.35	6	NTC37×207	7.35	6
LER37×0207-G-A	EC515-R	TA37×0207	7.35	6	NTC37×207	7.35	6
LER44×0211-G-A	EC516-R	TA44×0211	7.45	6.15	NTC44×211	7.45	6.15
LER44×0211-G-A	EC516-R	TA44×0211	7.45	6.15	NTC44×211	7.45	6.15
LER53×0215-G-A	EC517-R	TA53×0215	7.7	6.3	NTC53×215	7.7	6.3
LER53×0215-G-A	EC517-R	TA53×0215	7.7	6.3	NTC53×215	7.7	6.3
LER188×0303-G-A	EC518-R	TA188×0303	7.95	6.75	NTC188×303	8	6.75
LER188×0303-G-A	EC518-R	TA188×0303	7.95	6.75	NTC188×303	8	6.75
LER102×0307-G-A	EC520-R	TA102×0307	8.95	7.45	NTC102×307	8.7	7.3
LER102×0307-G-A	EC520-R	TA102×0307	8.95	7.45	NTC102×307	8.7	7.3
LER109×0315-G-A	EC522-R	TA109×0315	9.45	7.95	NTC109×315	9.3	7.85

<sup>1)</sup> Accessories to be ordered separately

## 16.14 SAF1500, All Sizes, Dimensioning

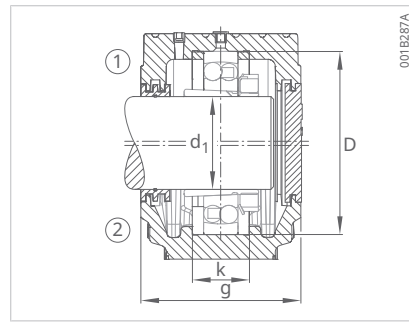
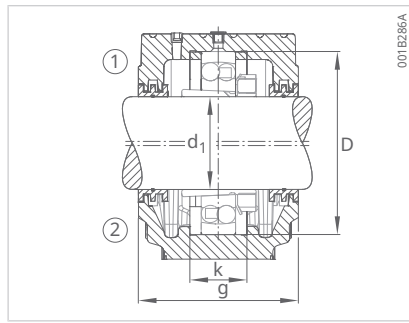
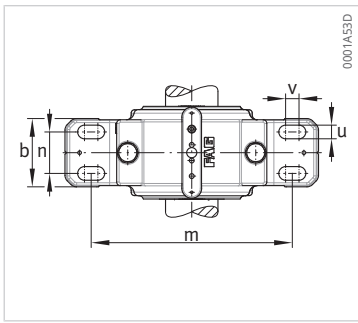
For self-aligning ball bearings with tapered bore and adapter sleeve

Inch size shaft



Housing		d <sub>1</sub>	h	h <sub>1</sub>	g	b	c
Ductile cast iron	Gray cast iron						
		inch	inch	inch	inch	inch	inch
SAFD1509×0107U	-	1.4375	2.25	4.375	3.4375	2.375	0.8125
SAFD1509×0107U	-	1.5	2.25	4.375	3.4375	2.375	0.8125
SAFD1510×0111U	-	1.6875	2.5	4.75	3.4375	2.375	0.9375
SAFD1510×0111U	-	1.75	2.5	4.75	3.4375	2.375	0.9375
SAFD1511×0115U	-	1.9375	2.75	5.25	3.75	2.75	0.9375
SAFD1511×0115U	-	2	2.75	5.25	3.75	2.75	0.9375
SAFD1513×0203U	-	2.1875	3	5.9375	4.25	3.125	1
SAFD1513×0203U	-	2.25	3	5.9375	4.25	3.125	1
SAFD1515×0207U	SAF515×0207U	2.4375	3.25	6.375	4.625	3.125	1.125
FSAFD1515×0207U	FSAF515×0207U	2.4375	3.25	6.375	4.625	3.125	1.125
SAFD1515×0207U	SAF515×0207U	2.5	3.25	6.375	4.625	3.125	1.125
FSAFD1515×0207U	FSAF515×0207U	2.5	3.25	6.375	4.625	3.125	1.125
SAFD1516×0211U	-	2.6875	3.5	6.875	4.75	3.5	1.25
FSAFD1516×0211U	-	2.6875	3.5	6.875	4.75	3.5	1.25
SAFD1516×0211U	-	2.75	3.5	6.875	4.75	3.5	1.25
FSAFD1516×0211U	-	2.75	3.5	6.875	4.75	3.5	1.25
SAFD1517×0215U	SAF517×0215U	2.9375	3.75	7.3125	4.8125	3.5	1.25
FSAFD1517×0215U	FSAF517×0215U	3	3.75	7.3125	4.8125	3.5	1.25
FSAFD1517×0215U	FSAF517×0215U	2.9375	3.75	7.3125	4.8125	3.5	1.25
SAFD1517×0215U	SAF517×0215U	3	3.75	7.3125	4.8125	3.5	1.25
SAFD1518×0303U	SAF518×0303U	3.1875	4	7.75	5.5	3.875	1.625
FSAFD1518×0303U	FSAF518×0303U	3.1875	4	7.75	5.5	3.875	1.625
SAFD1518×0303U	SAF518×0303U	3.25	4	7.75	5.5	3.875	1.625
FSAFD1518×0303U	FSAF518×0303U	3.25	4	7.75	5.5	3.875	1.625
SAFD1520×0307U	SAF520×0307U	3.4375	4.5	8.4375	5.8125	4.375	1.75
FSAFD1520×0307U	FSAF520×0307U	3.4375	4.5	8.4375	5.8125	4.375	1.75
SAFD1520×0307U	SAF520×0307U	3.5	4.5	8.4375	5.8125	4.375	1.75
FSAFD1520×0307U	FSAF520×0307U	3.5	4.5	8.4375	5.8125	4.375	1.75
SAFD1522×0315U	SAF522×0315U	3.9375	4.9375	9.625	6.4375	4.75	2
SAFD1522×0315U	SAF522×0315U	4	4.9375	9.625	6.4375	4.75	2

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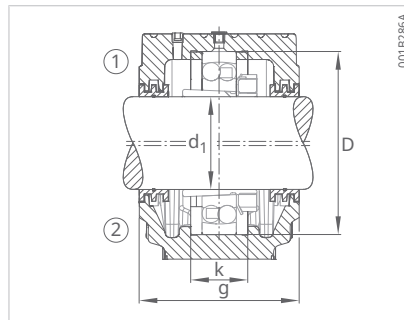


a	m	v	u	n	s	D	k	m
inch	inch	inch	inch	inch	inch	mm	mm	kg
8.25	6.625	0.375	0.625	-	0.5	85	28.8	3.6
8.25	6.625	0.375	0.625	-	0.5	85	28.8	3.6
8.25	6.75	0.25	0.625	-	0.5	90	29.8	4
8.25	6.75	0.25	0.625	-	0.5	90	29.8	4
9.625	7.625	0.25	0.75	-	0.625	100	30.8	5.3
9.625	7.625	0.25	0.75	-	0.625	100	30.8	5.3
11	8.8125	0.6875	0.75	-	0.625	120	39	8.6
11	8.8125	0.6875	0.75	-	0.625	120	39	8.6
11.25	9.125	0.5	0.75	-	0.625	130	37	10
11.25	9.125	0.5	0.625	1.875	0.5	130	37	10.6
11.25	9.125	0.5	0.75	-	0.625	130	37	10
11.25	9.125	0.5	0.625	1.875	0.5	130	37	10.6
13	10.3125	0.6875	0.875	-	0.75	140	42.8	13.7
13	10.3125	0.6875	0.75	2.125	0.625	140	42.8	13.9
13	10.3125	0.6875	0.875	-	0.75	140	42.8	13.7
13	10.3125	0.6875	0.75	2.125	0.625	140	42.8	13.9
13	10.4375	0.56	0.875	-	0.75	150	45.8	14
13	10.4375	0.56	0.75	2.125	0.625	150	45.8	14
13	10.4375	0.56	0.75	2.125	0.625	150	45.8	14
13	10.4375	0.56	0.875	-	0.75	150	45.8	14
13.75	11	0.625	0.875	-	0.75	160	49.8	16.9
13.75	11	0.625	0.75	2.125	0.625	160	49.8	17
13.75	11	0.625	0.875	-	0.75	160	49.8	16.9
13.75	11	0.625	0.75	2.125	0.625	160	49.8	17
15.25	12.375	0.75	1	-	0.875	180	55.8	21.6
15.25	12.375	0.75	0.875	2.375	0.75	180	55.8	21.8
15.25	12.375	0.75	1	-	0.875	180	55.8	21.6
15.25	12.375	0.75	0.875	2.375	0.75	180	55.8	21.8
16.5	13.5625	0.9375	0.875	2.75	0.75	200	62.8	33.2
16.5	13.5625	0.9375	0.875	2.75	0.75	200	62.8	33.2

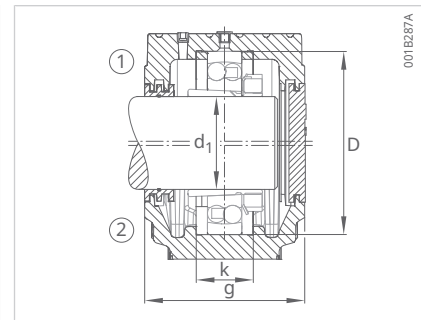
### 16.15 SAF1500, All Sizes, Accessories

For self-aligning ball bearings with tapered bore and adapter sleeve

Inch size shaft



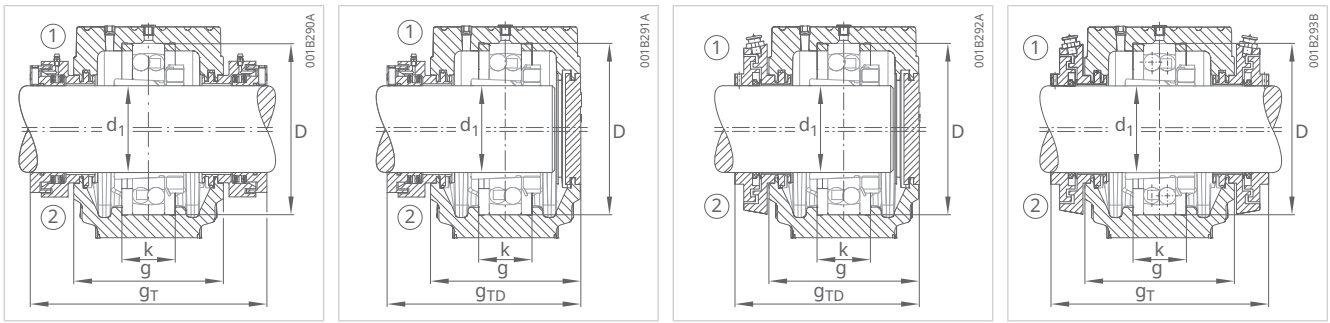
Labyrinth seal LER



Labyrinth seal LER, end cover EC

Housing		d <sub>1</sub>	Spherical roller bearing <sup>1)</sup>	Adapter sleeve, thread <sup>1)</sup>		Locating ring	
Ductile cast iron	Gray cast iron			metric	inch		Quantity
		inch					
SAFD1509×0107U	-	1.4375	1209-K-TVH	H209×107	SNW09×0107	SR-9-0	1
SAFD1509×0107U	-	1.5	1209-K-TVH	H209×108	SNW09×0108	SR-9-0	1
SAFD1510×0111U	-	1.6875	1210-K-TVH	H210×111	SNW10×0111	SR-10-8	1
SAFD1510×0111U	-	1.75	1210-K-TVH	H210×112	SNW10×0112	SR-10-8	1
SAFD1511×0115U	-	1.9375	1211-K-TVH	H211×115	SNW11×0115	SR-11-9	1
SAFD1511×0115U	-	2	1211-K-TVH	H211×200	SNW11×0200	SR-11-9	1
SAFD1513×0203U	-	2.1875	1213-K-TVH	H213×203	SNW13×0203	SR-13-0	2
SAFD1513×0203U	-	2.25	1213-K-TVH	H213×204	SNW13×0204	SR-13-0	2
SAFD1515×0207U	SAF515×0207U	2.4375	1215-K-TVH	H215×207	SNW15×0207	SR-15-0	2
FSAFD1515×0207U	FSAF515×0207U	2.4375	1215-K-TVH	H215×207	SNW15×0207	SR-15-0	2
SAFD1515×0207U	SAF515×0207U	2.5	1215-K-TVH	H215×208	SNW15×0208	SR-15-0	2
FSAFD1515×0207U	FSAF515×0207U	2.5	1215-K-TVH	H215×208	SNW15×0208	SR-15-0	2
SAFD1516×0211U	-	2.6875	1216-K-TVH	H216×211	SNW16×0211	SR-1516	2
FSAFD1516×0211U	-	2.6875	1216-K-TVH	H216×211	SNW16×0211	SR-1516	2
SAFD1516×0211U	-	2.75	1216-K-TVH	H216×212	SNW16×0212	SR-1516	2
FSAFD1516×0211U	-	2.75	1216-K-TVH	H216×212	SNW16×0212	SR-1516	2
SAFD1517×0215U	SAF517×0215U	2.9375	1217-K-TVH	H217×215	SNW17×0215	SR-1517	2
FSAFD1517×0215U	FSAF517×0215U	3	1217-K-TVH	H217×300	SNW17×0300	SR-1517	2
FSAFD1517×0215U	FSAF517×0215U	2.9375	1217-K-TVH	H217×215	SNW17×0215	SR-1517	2
SAFD1517×0215U	SAF517×0215U	3	1217-K-TVH	H217×300	SNW17×0300	SR-1517	2
SAFD1518×0303U	SAF518×0303U	3.1875	1218-K-TVH	H218×303	SNW18×0303	SR-1518	2
FSAFD1518×0303U	FSAF518×0303U	3.1875	1218-K-TVH	H218×303	SNW18×0303	SR-1518	2
SAFD1518×0303U	SAF518×0303U	3.25	1218-K-TVH	H218×304	SNW18×0304	SR-1518	2
FSAFD1518×0303U	FSAF518×0303U	3.25	1218-K-TVH	H218×304	SNW18×0304	SR-1518	2
SAFD1520×0307U	SAF520×0307U	3.4375	1220-K-M	H220×307	SNW20×0307	SR-1520	2
FSAFD1520×0307U	FSAF520×0307U	3.4375	1220-K-M	H220×307	SNW20×0307	SR-1520	2
SAFD1520×0307U	SAF520×0307U	3.5	1220-K-M	H220×308	SNW20×0308	SR-1520	2
FSAFD1520×0307U	FSAF520×0307U	3.5	1220-K-M	H220×308	SNW20×0308	SR-1520	2
SAFD1522×0315U	SAF522×0315U	3.9375	1222-K-M	H222×315	SNW22×0315	SR-1522	2
SAFD1522×0315U	SAF522×0315U	4	1222-K-M	H222×0400	SNW22×0400	SR-1522	2

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Taconite seal SuperTAC II TA

Taconite seal SuperTAC II TA, end cover EC

Taconite seal MaxTAC NTC, end cover EC

Taconite seal MaxTAC NTC

LER	EC	LER <sup>1)</sup>	SuperTAC II TA <sup>1)</sup>			MaxTAC NTC <sup>1)</sup>		
			2 pieces		2 pieces		2 pieces	
			$g_T$	$g_{TD}$	$g_T$	$g_{TD}$	$g_T$	$g_{TD}$
			inch	inch		inch	inch	
LER17×0107-G-A	EC509-R	-	TA17×0107	5.9	4.7	-	-	-
LER17×0107-G-A	EC509-R	LER18×0108-G-A	-	-	-	-	-	-
LER20×0111-G-A	EC510-R	-	TA20×0111	5.85	4.65	-	-	-
LER20×0111-G-A	EC510-R	LER21×0112-G-A	-	-	-	-	-	-
LER24×0115-G-A	EC511-R	-	TA24×0115	6.35	5.05	-	-	-
LER24×0115-G-A	EC511-R	LER25×0200-G-A	-	-	-	-	-	-
LER29×0203-G-A	EC513-R	-	TA29×0203	6.9	5.6	NTC29×203	6.65	5.45
LER29×0203-G-A	EC513-R	LER30×0204-G-A	-	-	-	-	-	-
LER37×0207-G-A	EC515-R	-	TA37×0207	7.35	6	NTC37×207	7.35	6
LER37×0207-G-A	EC515-R	-	TA37×0207	7.35	6	NTC37×207	7.35	6
LER37×0207-G-A	EC515-R	LER38×0208-G-A	-	-	-	-	-	-
LER37×0207-G-A	EC515-R	LER38×0208-G-A	-	-	-	-	-	-
LER44×0211-G-A	EC516-R	-	TA44×0211	7.45	6.15	NTC44×211	7.45	6.15
LER44×0211-G-A	EC516-R	-	TA44×0211	7.45	6.15	NTC44×211	7.45	6.15
LER44×0211-G-A	EC516-R	LER45×0212-G-A	-	-	-	-	-	-
LER44×0211-G-A	EC516-R	LER45×0212-G-A	-	-	-	-	-	-
LER53×0215-G-A	EC517-R	-	TA53×0215	7.7	6.3	NTC53×215	7.7	6.3
LER53×0215-G-A	EC517-R	LER54×0300-G-A	-	-	-	-	-	-
LER53×0215-G-A	EC517-R	-	TA53×0215	7.7	6.3	NTC53×215	7.7	6.3
LER53×0215-G-A	EC517-R	LER54×0300-G-A	-	-	-	-	-	-
LER188×0303-G-A	EC518-R	-	TA188×0303	7.95	6.75	NTC188×303	8	6.75
LER188×0303-G-A	EC518-R	-	TA188×0303	7.95	6.75	NTC188×303	8	6.75
LER188×0303-G-A	EC518-R	LER189×0304-G-A	-	-	-	-	-	-
LER188×0303-G-A	EC518-R	LER189×0304-G-A	-	-	-	-	-	-
LER102×0307-G-A	EC520-R	-	TA102×0307	8.95	7.45	NTC102×307	8.7	7.3
LER102×0307-G-A	EC520-R	-	TA102×0307	8.95	7.45	NTC102×307	8.7	7.3
LER102×0307-G-A	EC520-R	LER103×0308-G-A	-	-	-	-	-	-
LER102×0307-G-A	EC520-R	LER103×0308-G-A	-	-	-	-	-	-
LER109×0315-G-A	EC522-R	-	TA109×0315	9.45	7.95	NTC109×315	9.3	7.85
LER109×0315-G-A	EC522-R	LER110×0400-G-A	-	-	-	-	-	-

<sup>1)</sup> Accessories to be ordered separately

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