



**FAG**



## Ductile Iron Pillow Block Housings General and Heavy Duty

**SCHAEFFLER GROUP**  
INDUSTRIAL

# Ductile Iron Housings

Selecting the most appropriate housing material should be the result of careful analysis of the operating and environmental conditions of the application. When the demands placed upon the pillow block do not allow for compromises, the material choice becomes increasingly obvious: ductile iron.

## Optimum Material, Maximum Performance

FAG utilizes ductile iron as a high grade material for standard housing production. This remarkably versatile material possesses a number of engineering advantages, including:

- the fluid casting properties of cast iron
- superb material consistency comparable to carbon cast steel, with the inherent high tensile and yield strengths (see chart)
- tremendous resistance to corrosion
- the strength to withstand substantial mechanical shock
- resilient to brittle fracture at low temperatures
- extended service life in severe operating conditions

## Series Availability

FAG offers an extensive standard selection of ductile iron pillow blocks for general duty and heavy duty applications. Series SAF...D and AFD general duty housings are designed for shafts ranging from 1 $\frac{1}{16}$ " to 7 $\frac{1}{16}$ ", whereas heavy duty series SDD accommodate shaft diameters as great as 43 inches.

In addition to standard series production, FAG also utilizes ductile iron for special design housings unique to their specific industrial applications.



## Comparison: Housing Material Properties

| Material     | A.S.T.M. Designation | Grade    | Tensile Strength psi | Yield Strength psi | Elongation (% in 2 in.) |
|--------------|----------------------|----------|----------------------|--------------------|-------------------------|
| Cast Iron    | A48-64               | 30       | 30,000               | —                  | —                       |
| Ductile Iron | A-536                | 65-45-12 | 65,000               | 45,000             | 12                      |
| Cast Steel   | A27                  | 65-35    | 65,000               | 35,000             | 24                      |

### General Duty Series SAF...D

- series SAF...D housings are designed to accept a full range of shaft diameters from 1 $\frac{1}{16}$ " to 7 $\frac{15}{16}$ "
- housing sizes within this standard production program are machined to accommodate inch or metric shaft dimensions
- housings are supplied with a central grease inlet and nipple for relubrication of the bearing, and an outlet hole on each side of the block for drainage
- housings are equipped with a 2-bolt base for shaft sizes up to and including 3 $\frac{7}{16}$ " (SAF520D), and with a 4-bolt base thereafter; 4-bolt bases are also available by specifying FSAF...D for shafts ranging from 2 $\frac{3}{16}$ " to 3 $\frac{7}{16}$ " (FSAF513D to FSAF520D)
- series SAF...D housings can be supplied with triple seal rings for normal service conditions, or SuperTac II taconite seals for severe service conditions
- bearings can be installed as floating bearings, or located with fixing rings

*For detailed SAF...D assembly components and dimensions, see pages 6 & 7*



SAF...D housing assembly featuring FAG SuperTac II taconite seals

### General Duty Series AFD

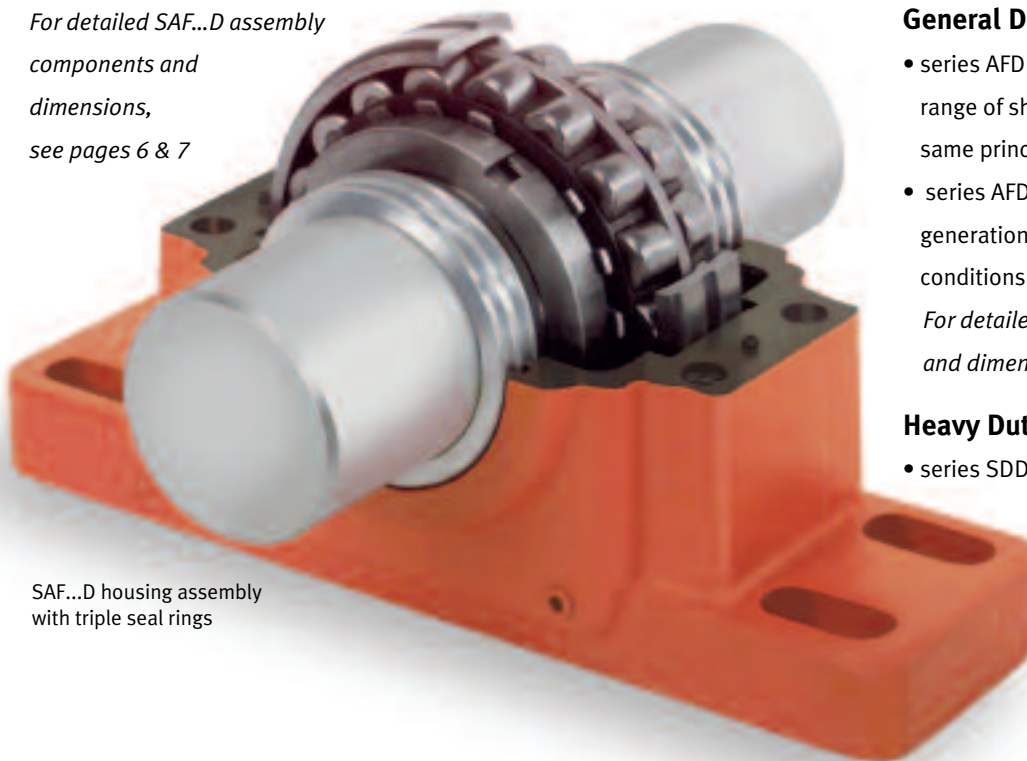
- series AFD housings are available for the same range of shaft sizes as series SAFD, and with the same principle design features
- series AFD housings are equipped with 1st generation taconite seals for severe service conditions without substitution

*For detailed AFD assembly components and dimensions, see pages 8 & 9*

### Heavy Duty Series SDD

- series SDD housings are available for larger shaft diameters as great as 43 inches

*For SDD housing dimensions and bearing selection, see pages 10 & 11*

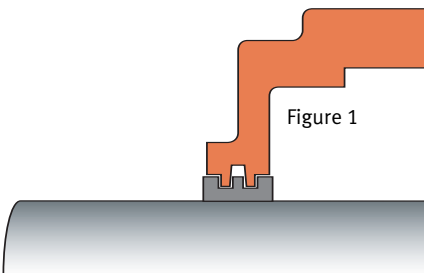


SAF...D housing assembly with triple seal rings

# Seals and Endcovers

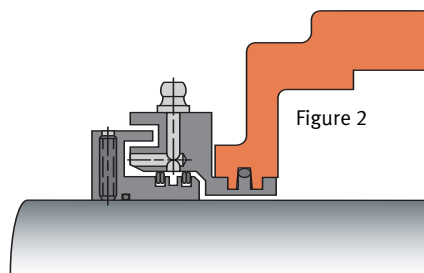
## Triple Seal Rings

- series SAF...D and SDD housings are generally equipped with an efficient non-contact radial labyrinth seal commonly referred to as a triple seal ring (series LER for SAF...D and TSG for SDD housings)
- this rotating ring automatically locates itself relative to the labyrinth groove of the housing (Figure 1)



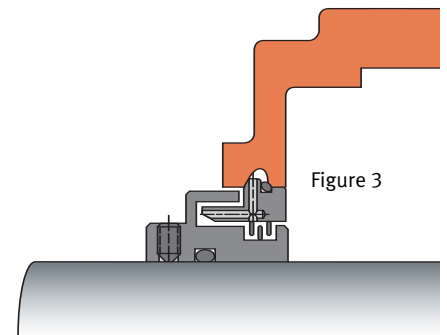
## Taconite Seals

- for severe service conditions, SAF...D housings can be equipped with SuperTac II taconite seals (Figure 2) without any modification to the housing (see additional information below and opposite)
- series AFD housings are standardly equipped with 1st generation FAG taconite seals (Figure 3) without substitution



- taconite seals are also available for series SDD housings, and in special designs

If any housing is to be closed on one side, an endcover is installed in the annular groove of the housing.



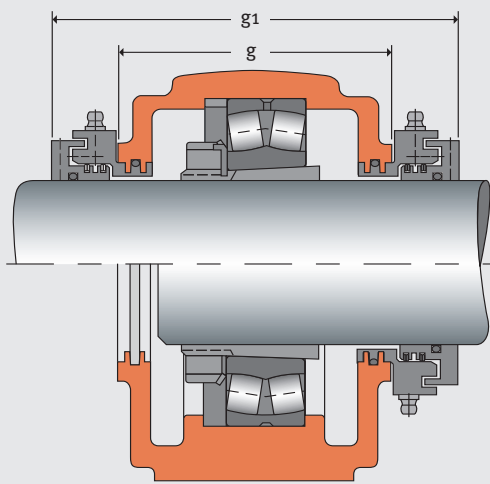
## At the Sign of Contamination, the Seal that Delivers: SuperTac II

### Design Features

- FAG SuperTac II seals are manufactured from high grade steel with black oxide coating as standard; special design option of nickel plating is available upon request
- the internal design features a radial / axial web barrier to external contaminants
- a grease packed radial labyrinth is formed by high grade spring steel lamina rings that align into two close running barriers, separated by a lubricant distribution channel
- working together with the grease purged axial labyrinth, the result is a web that stands virtually impenetrable
- the seal flinger is equipped with 2 set screws spaced at a 65° interval for maximum holding power to the shaft
- an o-ring in the flinger bore prevents the ingress of fluids between the seal and shaft







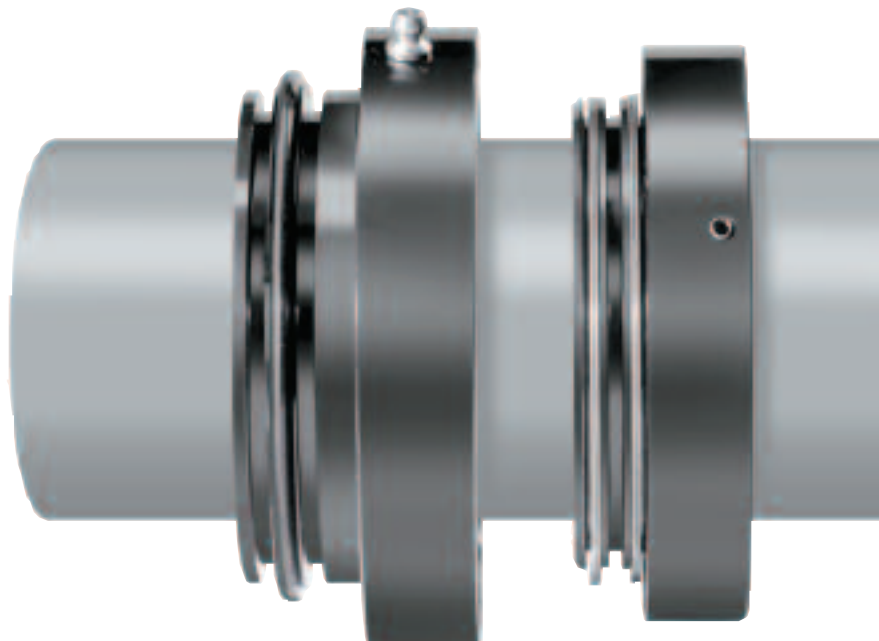
Dimensions “g” and “g1” apply to SuperTac II seals installed with FAG series SAF5..D pillow blocks. Dimensions may vary when using SuperTac II seals with non-ductile iron FAG SAF series pillow blocks, or with a non-FAG pillow block. SuperTac II seals are unavailable for some metric shaft sizes due to inadequate space between the shaft and housing seal grooves to accommodate the seal design.

### FAG Super Tac II Taconite Seals

| Shaft<br>in./mm                       | Pillow Block | FAG Seal No.       | Dimensions   |              | Shaft<br>in./mm                       | Pillow Block | FAG Seal No.       | Dimensions    |               |
|---------------------------------------|--------------|--------------------|--------------|--------------|---------------------------------------|--------------|--------------------|---------------|---------------|
|                                       |              |                    | g<br>in./mm  | g1<br>in./mm |                                       |              |                    | g<br>in./mm   | g1<br>in./mm  |
| 1 <sup>1</sup> / <sub>16</sub>        | SAF509       | TA17A              | 3.420<br>87  | 5.910<br>150 | 4 <sup>3</sup> / <sub>16</sub>        | SAF524       | TA113A             | 7.125<br>181  | 10.314<br>262 |
| 1 <sup>1</sup> / <sub>16</sub>        | SAF510       | TA20A              | 3.420<br>87  | 5.910<br>150 | 4 <sup>7</sup> / <sub>16</sub><br>115 | SAF526       | TA117A<br>TA117A.M | 7.750<br>197  | 11.214<br>285 |
| 1 <sup>1</sup> / <sub>16</sub><br>50  | SAF511       | TA24A<br>TA24A.M   | 3.750<br>95  | 6.269<br>159 | 4 <sup>1</sup> / <sub>16</sub><br>125 | SAF528       | TA122A<br>TA122A.M | 7.375<br>187  | 10.818<br>275 |
| 2 <sup>3</sup> / <sub>16</sub>        | SAF513       | TA29A              | 4.250<br>108 | 6.782<br>172 | 5 <sup>3</sup> / <sub>16</sub><br>135 | SAF530       | TA125A<br>TA125A.M | 8.125<br>206  | 11.890<br>302 |
| 2 <sup>7</sup> / <sub>16</sub>        | SAF515       | TA37A              | 4.625<br>117 | 7.367<br>187 | 5 <sup>7</sup> / <sub>16</sub><br>140 | SAF532       | TA130A<br>TA130A.M | 8.500<br>216  | 12.215<br>310 |
| 2 <sup>1</sup> / <sub>16</sub><br>70  | SAF516       | TA44A<br>TA44A.M   | 4.750<br>121 | 7.520<br>191 | 5 <sup>1</sup> / <sub>16</sub><br>150 | SAF534       | TA140A<br>TA140A.M | 9.250<br>235  | 13.150<br>334 |
| 2 <sup>1</sup> / <sub>16</sub><br>75  | SAF517       | TA53A<br>TA53A.M   | 4.813<br>122 | 7.740<br>197 | 6 <sup>1</sup> / <sub>16</sub><br>160 | SAF536       | TA148A<br>TA148A.M | 9.625<br>244  | 13.720<br>348 |
| 3 <sup>3</sup> / <sub>16</sub><br>80  | SAF518       | TA188A<br>TA188A.M | 5.500<br>140 | 8.138<br>207 | 6 <sup>1</sup> / <sub>16</sub><br>170 | SAF538       | TA155A<br>TA155A.M | 10.500<br>267 | 14.671<br>373 |
| 3 <sup>7</sup> / <sub>16</sub><br>90  | SAF520       | TA102A<br>TA102A.M | 5.813<br>148 | 9.025<br>229 | 7 <sup>3</sup> / <sub>16</sub><br>180 | SAF540       | TA159A<br>TA159A.M | 11.000<br>279 | 15.417<br>392 |
| 3 <sup>1</sup> / <sub>16</sub><br>100 | SAF522       | TA109A<br>TA109A.M | 6.438<br>164 | 9.682<br>246 | 7 <sup>1</sup> / <sub>16</sub><br>200 | SAF544       | TA167A<br>TA167A.M | 11.750<br>298 | 16.265<br>413 |

### Operating Benefits

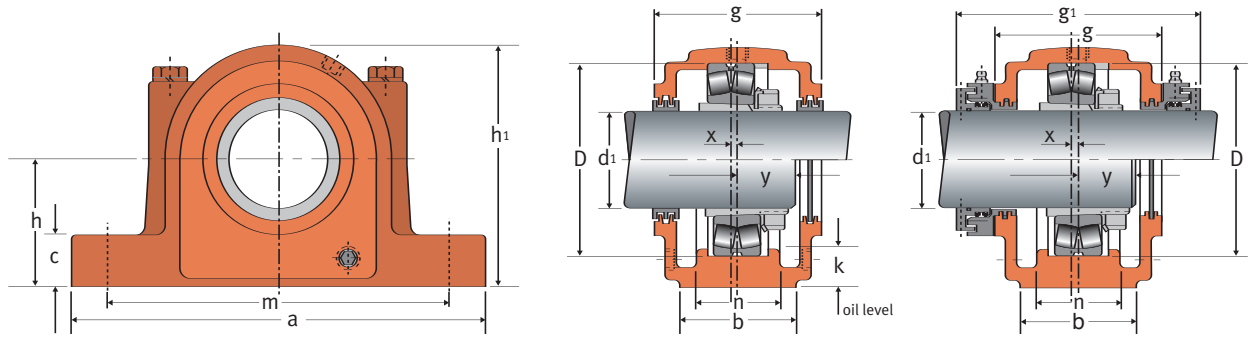
- FAG SuperTac II is designed as a drop-in fit to the seal grooves of FAG series SAF pillow blocks, as well as many competitive designs, eliminating the need for special housing features
- the non-contact seal design eliminates shaft wear common to competitive designs
- SuperTac II seals accept greater misalignments than lip seals
- exceptional speed characteristics: equivalent to bearing speed limits



# Series SAF...D Housings

## SAF...D Assembly Components and Dimensions

| Shaft Diameter<br>mm/in.               | Pillow Block<br>No. | Basic Bearing<br>No. | Split Bearing<br>No.  | Adapter Sleeve<br>No. | Triple Seal Ring<br>No.    | Super Tac II Seal<br>No. | End Cover<br>No. | Fixing Ring<br>No. | pcs. | Complete Weight (approx) |       |
|--|---------------------|----------------------|-----------------------|-----------------------|----------------------------|--------------------------|------------------|--------------------|------|--------------------------|-------|
|  |                     |                      |                       |                       |                            |                          |                  |                    |      | lbs.                     | kgs.  |
| 40<br>1 <sup>7</sup> / <sub>16</sub>   | SAF509-D            | 22209-E1-K           |                       | H309<br>H309X107      | LER20.M40<br>LER17.0107    | TA17A                    | EC509.D2         | FRM85/6            | 1    | 10.5                     | 4.8   |
| 45<br>1 <sup>11</sup> / <sub>16</sub>  | SAF510-D            | 22210-E1-K           |                       | H310<br>H310X111      | LER20.M45<br>LER20.0111    | TA20A                    | EC510.D2         | FRM90/7            | 1    | 11.5                     | 5.2   |
| 50<br>1 <sup>15</sup> / <sub>16</sub>  | SAF511-D            | 22211-E1-K           |                       | H311<br>H311X115      | LER24.M50<br>LER24.0115    | TA24A.M<br>TA24A         | EC511.D2         | FRM100/6           | 1    | 13.5                     | 6.1   |
| 60<br>2 <sup>3</sup> / <sub>16</sub>   | SAF513-D            | 22213-E1-K           |                       | H313<br>H313X203      | LER35.M60<br>LER29.0203    | TA29A                    | EC513.D2         | FRM120/8           | 1    | 21                       | 9.5   |
| 65<br>2 <sup>7</sup> / <sub>16</sub>   | SAF515-D            | 22215-E1-K           | 222SM.65<br>222S.207  | H315<br>H315X207      | LER38.M65<br>LER37.0207    | TA37A                    | EC515.D2         | FRM130/6           | 1    | 24                       | 10.9  |
| 70<br>2 <sup>11</sup> / <sub>16</sub>  | SAF516-D            | 22216-E1-K           | 222SM.70<br>222S.211  | H316<br>H316X211      | LER44.M70<br>LER44.0211    | TA44A.M<br>TA44A         | EC516.D2         | FRM140/10          | 1    | 32                       | 14.5  |
| 75<br>2 <sup>15</sup> / <sub>16</sub>  | SAF517-D            | 22217-E1-K           | 222SM.75<br>222S.215  | H317<br>H317X215      | LER53.M75<br>LER53.0215    | TA53A.M<br>TA53A         | EC517.D2         | FRM150/10          | 1    | 35                       | 15.9  |
| 80<br>3 <sup>1</sup> / <sub>16</sub>   | SAF518-D            | 22218-E1-K           | 222SM.80<br>222S.303  | H318<br>H318X303      | LER188.M80<br>LER188.0303  | TA188A.M<br>TA188A       | EC518.D2         | FRM160/10          | 1    | 44                       | 20.0  |
| 90<br>3 <sup>5</sup> / <sub>16</sub>   | SAF520-D            | 22220-E1-K           | 222SM.90<br>222S.307  | H320<br>H320X307      | LER102.M90<br>LER102.0307  | TA102A.M<br>TA102A       | EC520.D2         | FRM180/10          | 1    | 74                       | 33.6  |
| 100<br>3 <sup>15</sup> / <sub>16</sub> | SAF522-D            | 22222-E1-K           | 222SM.100<br>222S.315 | H322<br>H322X315      | LER109.M100<br>LER109.0315 | TA109A.M<br>TA109A       | EC522.D2         | FRM200/10          | 1    | 97                       | 44.0  |
| 110<br>4 <sup>1</sup> / <sub>16</sub>  | SAF524-D            | 22224-E1-K           | 222SM.110<br>222S.403 | H3124<br>H3124X403    | LER113.M110<br>LER113.0403 | TA113A                   | EC524.D2         | FRM215/10          | 1    | 121                      | 54.9  |
| 115<br>4 <sup>5</sup> / <sub>16</sub>  | SAF526-D            | 22226-E1-K           | 222SM.115<br>222S.407 | H3126<br>H3126X407    | LER117.M115<br>LER117.0407 | TA117A.M<br>TA117A       | EC526.D2         | FRM230/10          | 1    | 161                      | 73.1  |
| 125<br>4 <sup>15</sup> / <sub>16</sub> | SAF528-D            | 22228-E1-K           | 222SM.125<br>222S.415 | H3128<br>H3128X415    | LER122.M125<br>LER122.0415 | TA122A.M<br>TA122A       | EC528.D2         | FRM250/10          | 1    | 174                      | 79.0  |
| 135<br>5 <sup>1</sup> / <sub>16</sub>  | SAF530-D            | 22230-E1-K           | 222SM.135<br>222S.503 | H3130<br>H3130X503    | LER125.M135<br>LER125.0503 | TA125A.M<br>TA125A       | EC530.D2         | FRM270/10          | 1    | 221                      | 100.3 |
| 140<br>5 <sup>5</sup> / <sub>16</sub>  | SAF532-D            | 22232-E1-K           | 222SM.140<br>222S.507 | H3132<br>H3132X507    | LER130.M140<br>LER130.0507 | TA130A.M<br>TA130A       | EC532.D2         | FRM290/10          | 1    | 246                      | 111.7 |
| 150<br>5 <sup>15</sup> / <sub>16</sub> | SAF534-D            | 22234-E1-K           | 222SM.150<br>222S.515 | H3134<br>H3134X515    | LER140.M150<br>LER140.0515 | TA140A.M<br>TA140A       | EC534.D2         | FRM310/10          | 1    | 310                      | 140.7 |
| 160<br>6 <sup>1</sup> / <sub>16</sub>  | SAF536-D            | 22236-E1-K           | 222SM.160<br>222S.607 | H3136<br>H3136X607    | LER148.M160<br>LER148.0607 | TA148A.M<br>TA148A       | EC536.D2         | FRM320/10          | 1    | 345                      | 156.6 |
| 170<br>6 <sup>15</sup> / <sub>16</sub> | SAF538-D            | 22238-K              | 222SM.170<br>222S.615 | H3138<br>H3138X615    | LER155.M170<br>LER155.0615 | TA155A.M<br>TA155A       | EC538.D2         | FRM340/10          | 1    | 400                      | 181.6 |
| 180<br>7 <sup>1</sup> / <sub>16</sub>  | SAF540-D            | 22240-K              | 222SM.180<br>222S.703 | H3140<br>H3140X703    | LER159.M180<br>LER159.0703 | TA159A.M<br>TA159A       | EC540.D2         | FRM360/10          | 1    | 492                      | 223.4 |
| 200<br>7 <sup>15</sup> / <sub>16</sub> | SAF544-D            | 22244-K              | 222SM.200<br>222S.715 | H3144<br>H3144X715    | LER167.M200<br>LER167.0715 | TA167A.M<br>TA167A       | EC544.D2         | FRM400/10          | 1    | 672                      | 305.1 |



| D   | h<br>mm/in.                               | a<br>mm/in. | b<br>mm/in. | c<br>mm/in.                          | m<br>Max.<br>mm/in. | Min.<br>mm/in. | n<br>mm/in. | h1<br>mm/in.                            | g<br>mm/in.                            | g1<br>mm/in.                            | x<br>mm/in. | k<br>(Static)<br>mm/in.               | y<br>mm/in.                           | Mounting Bolts<br>2 pcs.<br>mm/in. | 4 pcs.<br>mm/in. |
|-----|---|-------------|-------------|--------------------------------------|---------------------|----------------|-------------|---|--|---|-------------|---------------------------------------|---------------------------------------|------------------------------------|------------------|
| 85  | 57.15<br>2¼                               | 210<br>8¾   | 60<br>2¾    | 21<br>13/16                          | 178<br>7            | 159<br>6¼      |             | 111<br>4¾                               | 87<br>3⅓                               | 150<br>5 <sup>15</sup> / <sub>16</sub>  | 3.0<br>.118 | 25<br>3 <sup>3</sup> / <sub>32</sub>  | 30<br>1¾                              | M12<br>½                           |                  |
| 90  | 63.50<br>2½                               | 210<br>8¾   | 60<br>2¾    | 24<br>15/16                          | 178<br>7            | 165<br>6½      |             | 121<br>4¾                               | 87<br>3⅓                               | 150<br>5 <sup>15</sup> / <sub>16</sub>  | 3.5<br>.138 | 28<br>1 <sup>3</sup> / <sub>32</sub>  | 30<br>1¾                              | M12<br>½                           |                  |
| 100 | 69.85<br>2¾                               | 244<br>9⅞   | 70<br>2¾    | 24<br>15/16                          | 200<br>7⅞           | 187<br>7⅞      |             | 133<br>5¼                               | 95<br>3¾                               | 159<br>6¼                               | 3.0<br>.118 | 32<br>1 <sup>3</sup> / <sub>16</sub>  | 32<br>1¼                              | M16<br>⅝                           |                  |
| 120 | 76.20<br>3                                | 279<br>11   | 79<br>3⅞    | 25<br>1                              | 241<br>9½           | 206<br>8⅞      | 51<br>2     | 151<br>5 <sup>15</sup> / <sub>16</sub>  | 108<br>4¼                              | 172<br>6 <sup>13</sup> / <sub>16</sub>  | 4.0<br>.157 | 32<br>1 <sup>3</sup> / <sub>32</sub>  | 37<br>1 <sup>1</sup> / <sub>16</sub>  | M16<br>⅝                           | M12<br>½         |
| 130 | 82.55<br>3¼                               | 286<br>11¼  | 79<br>3⅞    | 29<br>1⅞                             | 244<br>9⅞           | 219<br>8⅞      | 48<br>1⅞    | 162<br>6⅜                               | 117<br>4⅞                              | 187<br>7⅞                               | 3.0<br>.118 | 32<br>1⅞                              | 38<br>1½                              | M16<br>⅝                           | M12<br>½         |
| 140 | 88.90<br>3½                               | 330<br>13   | 89<br>3½    | 30<br>1 <sup>3</sup> / <sub>16</sub> | 279<br>11           | 244<br>9⅞      | 54<br>2⅞    | 175<br>6⅞                               | 121<br>4¾                              | 191<br>7½                               | 5.0<br>.197 | 35<br>1¼                              | 41<br>1⅞                              | M20<br>¾                           | M16<br>⅝         |
| 150 | 95.25<br>3¾                               | 330<br>13   | 89<br>3½    | 32<br>1¼                             | 279<br>11           | 251<br>9⅞      | 54<br>2⅞    | 186<br>7 <sup>5</sup> / <sub>16</sub>   | 122<br>4 <sup>13</sup> / <sub>16</sub> | 197<br>7¾                               | 5.0<br>.197 | 37<br>1⅜                              | 43<br>1 <sup>1</sup> / <sub>16</sub>  | M20<br>¾                           | M16<br>⅝         |
| 160 | 101.60<br>4                               | 349<br>13¾  | 98<br>3⅞    | 33<br>1 <sup>5</sup> / <sub>16</sub> | 295<br>11⅞          | 264<br>10⅞     | 54<br>2⅞    | 197<br>7¾                               | 140<br>5½                              | 207<br>8⅞                               | 5.0<br>.197 | 40<br>1½                              | 44<br>1¾                              | M20<br>¾                           | M16<br>⅝         |
| 180 | 114.30<br>4½                              | 387<br>15¼  | 111<br>4⅞   | 44<br>1¾                             | 333<br>13⅞          | 295<br>11⅞     | 60<br>2⅞    | 213<br>8⅞                               | 148<br>5 <sup>13</sup> / <sub>16</sub> | 229<br>9                                | 5.0<br>.197 | 45<br>1 <sup>2</sup> / <sub>32</sub>  | 51<br>2                               | M24<br>⅞                           | M20<br>¾         |
| 200 | 125.41<br>4 <sup>15</sup> / <sub>16</sub> | 419<br>16½  | 121<br>4¾   | 51<br>2                              | 368<br>14½          | 321<br>12⅞     | 70<br>2¾    | 244<br>9⅞                               | 164<br>6⅓                              | 246<br>9 <sup>11</sup> / <sub>16</sub>  | 5.0<br>.197 | 48<br>1 <sup>29</sup> / <sub>32</sub> | 54<br>2⅞                              |                                    | M20<br>¾         |
| 215 | 133.35<br>5¼                              | 419<br>16½  | 121<br>4¾   | 54<br>2⅞                             | 368<br>14½          | 337<br>13¾     | 70<br>2¾    | 260<br>10¼                              | 181<br>7⅞                              | 262<br>10 <sup>5</sup> / <sub>16</sub>  | 5.0<br>.197 | 51<br>1 <sup>27</sup> / <sub>32</sub> | 59<br>2 <sup>7</sup> / <sub>16</sub>  |                                    | M20<br>¾         |
| 230 | 152.40<br>6                               | 467<br>18⅜  | 130<br>5⅞   | 60<br>2⅞                             | 406<br>16           | 371<br>14⅞     | 83<br>3¼    | 292<br>11½                              | 197<br>7¾                              | 285<br>11 <sup>3</sup> / <sub>16</sub>  | 5.0<br>.197 | 63<br>2 <sup>11</sup> / <sub>32</sub> | 62<br>2 <sup>7</sup> / <sub>16</sub>  |                                    | M24<br>⅞         |
| 250 | 152.40<br>6                               | 511<br>20⅞  | 149<br>5⅞   | 60<br>2⅞                             | 435<br>17⅞          | 406<br>16      | 86<br>3⅞    | 298<br>11¾                              | 187<br>7⅞                              | 275<br>10 <sup>13</sup> / <sub>16</sub> | 5.0<br>.197 | 56<br>2 <sup>7</sup> / <sub>32</sub>  | 65<br>2 <sup>7</sup> / <sub>16</sub>  |                                    | M24<br>1         |
| 270 | 160.34<br>6 <sup>5</sup> / <sub>16</sub>  | 540<br>21¼  | 159<br>6¼   | 64<br>2½                             | 464<br>18¾          | 432<br>17      | 95<br>3¾    | 318<br>12½                              | 206<br>8⅞                              | 302<br>11⅞                              | 5.0<br>.197 | 56<br>2                               | 70<br>2¾                              |                                    | M24<br>1         |
| 290 | 169.86<br>6 <sup>11</sup> / <sub>16</sub> | 559<br>22   | 159<br>6¼   | 67<br>2⅞                             | 489<br>19¼          | 441<br>17⅞     | 95<br>3¾    | 338<br>13 <sup>3</sup> / <sub>16</sub>  | 216<br>8½                              | 310<br>12 <sup>3</sup> / <sub>16</sub>  | 5.0<br>.197 | 57<br>2 <sup>7</sup> / <sub>16</sub>  | 75<br>2 <sup>15</sup> / <sub>16</sub> |                                    | M24<br>1         |
| 310 | 179.39<br>7 <sup>1</sup> / <sub>16</sub>  | 630<br>24¾  | 171<br>6¾   | 70<br>2¾                             | 549<br>21⅞          | 492<br>19⅞     | 108<br>4¼   | 360<br>14 <sup>3</sup> / <sub>16</sub>  | 235<br>9¼                              | 334<br>13⅞                              | 5.0<br>.197 | 61<br>2 <sup>5</sup> / <sub>32</sub>  | 79<br>3⅞                              |                                    | M24<br>1         |
| 320 | 190.50<br>7½                              | 679<br>26¾  | 181<br>7⅞   | 76<br>3                              | 600<br>23⅞          | 530<br>20⅞     | 117<br>4⅞   | 378<br>14⅞                              | 244<br>9⅞                              | 348<br>13¾                              | 5.0<br>.197 | 67<br>2⅞                              | 79<br>3⅞                              |                                    | M24<br>1         |
| 340 | 200.03<br>7⅞                              | 711<br>28   | 191<br>7½   | 79<br>3⅞                             | 619<br>24⅞          | 549<br>21⅞     | 114<br>4½   | 398<br>15 <sup>11</sup> / <sub>16</sub> | 267<br>10½                             | 373<br>14 <sup>11</sup> / <sub>16</sub> | 5.0<br>.197 | 69<br>2 <sup>7</sup> / <sub>16</sub>  | 84<br>3 <sup>1</sup> / <sub>16</sub>  |                                    | M30<br>1¼        |
| 360 | 209.55<br>8¼                              | 749<br>29½  | 203<br>8    | 86<br>3⅞                             | 635<br>25           | 572<br>22½     | 127<br>5    | 419<br>16½                              | 279<br>11                              | 392<br>15 <sup>5</sup> / <sub>16</sub>  | 5.0<br>.197 | 71<br>2 <sup>15</sup> / <sub>32</sub> | 89<br>3½                              |                                    | M30<br>1¼        |
| 400 | 241.30<br>9½                              | 832<br>32¾  | 222<br>8¾   | 95<br>3¾                             | 708<br>27⅞          | 629<br>24¾     | 133<br>5¼   | 473<br>18⅞                              | 298<br>11¾                             | 413<br>16¼                              | 5.0<br>.197 | 88<br>3⅞                              | 97<br>3 <sup>1</sup> / <sub>16</sub>  |                                    | M36<br>1½        |

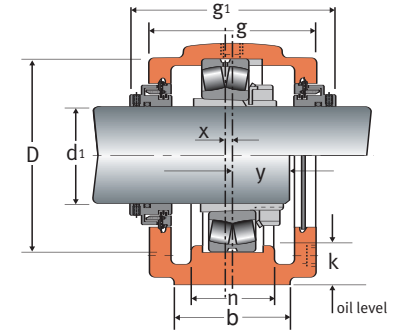
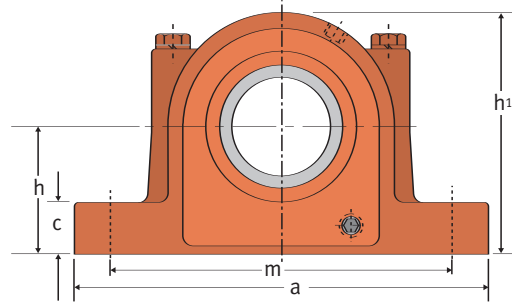
- Dimensions "g1" specific to SAF...D housings with SuperTac II seals
- Specify FSAF...D when ordering 4-bolt bases for pillow block sizes 513 to 520

# Series AFD Housings

## AFD Assembly Components and Dimensions

| Shaft Diameter<br>mm/in.               | Pillow Block<br>No. | Basic Bearing<br>No. | Split Bearing<br>No.  | Adapter Sleeve<br>No. | Taconite Seal<br>No.    | End Cover<br>No. | Fixing Ring<br>No. | pcs. | Complete Weight (approx) |       | D   | h<br>mm/in.                               |
|--|---------------------|----------------------|-----------------------|-----------------------|-------------------------|------------------|--------------------|------|--------------------------|-------|-----|---|
|  |                     |                      |                       |                       |                         |                  |                    |      | lbs.                     | kgs.  |     |   |
| 40<br>1 <sup>7</sup> / <sub>16</sub>   | AFD509.D2           | 22209-E1-K           |                       | H309<br>H309X107      | TA509.M40<br>TA509.107  | AC509S           | FRM85/8            | 1    | 12                       | 5.4   | 85  | 57.15<br>2 <sup>1</sup> / <sub>4</sub>    |
| 45<br>1 <sup>11</sup> / <sub>16</sub>  | AFD510.D2           | 22210-E1-K           |                       | H310<br>H310X111      | TA510.M45<br>TA510.111  | AC510S           | FRM90/10           | 1    | 13                       | 5.9   | 90  | 63.5<br>2 <sup>1</sup> / <sub>2</sub>     |
| 50<br>1 <sup>15</sup> / <sub>16</sub>  | AFD511.D2           | 22211-E1-K           |                       | H311<br>H311X115      | TA511.M50<br>TA511.115  | AC511S           | FRM100/10          | 1    | 18                       | 8.2   | 100 | 69.85<br>2 <sup>3</sup> / <sub>4</sub>    |
| 60<br>2 <sup>3</sup> / <sub>16</sub>   | AFD513.D2           | 22213-E1-K           |                       | H313<br>H313X203      | TA513.M60<br>TA513.203  | AC513S           | FRM120/10          | 1    | 26                       | 11.8  | 120 | 76.2<br>3                                 |
| 65<br>2 <sup>7</sup> / <sub>16</sub>   | AFD515.D2           | 22215-E1-K           | 222SM.65<br>222S.207  | H315<br>H315X207      | TA515.M65<br>TA515.207  | AC515S           | FRM130/10          | 1    | 31                       | 14.1  | 130 | 82.55<br>3 <sup>1</sup> / <sub>4</sub>    |
| 70<br>2 <sup>11</sup> / <sub>16</sub>  | AFD516.D2           | 22216-E1-K           | 222SM.70<br>222S.211  | H316<br>H316X211      | TA516.M70<br>TA516.211  | AC516S           | FRM140/10          | 1    | 38                       | 17.2  | 140 | 88.9<br>3 <sup>1</sup> / <sub>2</sub>     |
| 75<br>2 <sup>15</sup> / <sub>16</sub>  | AFD517.D2           | 22217-E1-K           | 222SM.75<br>222S.215  | H317<br>H317X215      | TA517.M75<br>TA517.215  | AC517S           | FRM150/10          | 1    | 45                       | 20.4  | 150 | 95.25<br>3 <sup>3</sup> / <sub>4</sub>    |
| 80<br>3 <sup>1</sup> / <sub>16</sub>   | AFD518.D2           | 22218-E1-K           | 222SM.80<br>222S.303  | H318<br>H318X303      | TA518.M80<br>TA518.303  | AC518S           | FRM160/10          | 1    | 51                       | 23.1  | 160 | 101.6<br>4                                |
| 90<br>3 <sup>5</sup> / <sub>16</sub>   | AFD520.D2           | 22220-E1-K           | 222SM.90<br>222S.307  | H320<br>H320X307      | TA520.M90<br>TA520.307  | AC520S           | FRM180/10          | 1    | 72                       | 32.7  | 180 | 114.3<br>4 <sup>1</sup> / <sub>2</sub>    |
| 100<br>3 <sup>15</sup> / <sub>16</sub> | AFD522.D2           | 22222-E1-K           | 222SM.100<br>222S.315 | H322<br>H322X315      | TA522.M100<br>TA522.315 | AC522S           | FRM200/10          | 1    | 100                      | 45.4  | 200 | 125.41<br>4 <sup>15</sup> / <sub>16</sub> |
| 110<br>4 <sup>3</sup> / <sub>16</sub>  | AFD524.D2           | 22224-E1-K           | 222SM.110<br>222S.403 | H3124<br>H3124X403    | TA524.M110<br>TA524.403 | AC524S           | FRM215/10          | 1    | 126                      | 57.2  | 215 | 133.35<br>5 <sup>1</sup> / <sub>4</sub>   |
| 115<br>4 <sup>7</sup> / <sub>16</sub>  | AFD526.D2           | 22226-E1-K           | 222SM.115<br>222S.407 | H3126<br>H3126X407    | TA526.M115<br>TA526.407 | AC526S           | FRM230/10          | 1    | 151                      | 68.5  | 230 | 152.4<br>6                                |
| 125<br>4 <sup>15</sup> / <sub>16</sub> | AFD528.D2           | 22228-E1-K           | 222SM.125<br>222S.415 | H3128<br>H3128X415    | TA528.M125<br>TA528.415 | AC528S           | FRM250/10          | 1    | 184                      | 83.5  | 250 | 152.4<br>6                                |
| 135<br>5 <sup>3</sup> / <sub>16</sub>  | AFD530.D2           | 22230-E1-K           | 222SM.135<br>222S.503 | H3130<br>H3130X503    | TA530.M135<br>TA530.503 | AC530S           | FRM270/10          | 1    | 234                      | 106.1 | 270 | 160.34<br>6 <sup>5</sup> / <sub>16</sub>  |
| 140<br>5 <sup>7</sup> / <sub>16</sub>  | AFD532.D2           | 22232-E1-K           | 222SM.140<br>222S.507 | H3132<br>H3132X507    | TA532.M140<br>TA532.507 | AC532S           | FRM290/10          | 1    | 283                      | 128.4 | 290 | 169.86<br>6 <sup>11</sup> / <sub>16</sub> |
| 150<br>5 <sup>15</sup> / <sub>16</sub> | AFD534.D2           | 22234-E1-K           | 222SM.150<br>222S.515 | H3134<br>H3134X515    | TA534.M150<br>TA534.515 | AC534S           | FRM310/10          | 1    | 347                      | 157.4 | 310 | 179.39<br>7 <sup>1</sup> / <sub>16</sub>  |
| 160<br>6 <sup>1</sup> / <sub>16</sub>  | AFD536.D2           | 22236-E1-K           | 222SM.160<br>222S.607 | H3136<br>H3136X607    | TA536.M160<br>TA536.607 | AC536S           | FRM320/10          | 1    | 382                      | 173.3 | 320 | 190.5<br>7 <sup>1</sup> / <sub>2</sub>    |
| 170<br>6 <sup>15</sup> / <sub>16</sub> | AFD538.D2           | 22238-K              | 222SM.170<br>222S.615 | H3138<br>H3138X615    | TA538.M170<br>TA538.615 | AC538S           | FRM340/10          | 1    | 464                      | 210.5 | 340 | 200.03<br>7 <sup>7</sup> / <sub>8</sub>   |
| 180<br>7 <sup>3</sup> / <sub>16</sub>  | AFD540.D2           | 22240-K              | 222SM.180<br>222S.703 | H3140<br>H3140X703    | TA540.M180<br>TA540.703 | AC540S           | FRM360/10          | 1    | 536                      | 243.1 | 360 | 209.55<br>8 <sup>1</sup> / <sub>4</sub>   |
| 200<br>7 <sup>15</sup> / <sub>16</sub> | AFD544.D2           | 22244-K              | 222SM.200<br>222S.715 | H3144<br>H3144X715    | TA544.M200<br>TA544.715 | AC544S           | FRM400/10          | 1    | 730                      | 331.1 | 400 | 241.3<br>9 <sup>1</sup> / <sub>2</sub>    |





| a      | b      | c      | m           |             | n      | h1      | g      | g1     | x      | k               | y      | Mounting Bolts |               |
|--------|--------|--------|-------------|-------------|--------|---------|--------|--------|--------|-----------------|--------|----------------|---------------|
| mm/in. | mm/in. | mm/in. | Max. mm/in. | Min. mm/in. | mm/in. | mm/in.  | mm/in. | mm/in. | mm/in. | (Static) mm/in. | mm/in. | 2 pcs. mm/in.  | 4 pcs. mm/in. |
| 210    | 60     | 21     | 178         | 159         |        | 110     | 89     | 113    | 4      | 25              | 30     | M12            |               |
| 8¼     | 2¾     | 13/16  | 7           | 6¼          |        | 47/16   | 3½     | 47/16  | 0.157  | 1               | 13/16  | ½              |               |
| 210    | 60     | 29     | 178         | 165         |        | 121     | 92     | 120    | 5      | 28              | 30     | M12            |               |
| 8¼     | 2¾     | 1⅞     | 7           | 6½          |        | 4¾      | 3⅞     | 4¾     | 0.197  | 1⅞              | 13/16  | ½              |               |
| 251    | 70     | 29     | 200         | 187         |        | 133     | 98     | 127    | 5      | 32              | 32     | M16            |               |
| 9⅞     | 2¾     | 1⅞     | 7⅞          | 7⅞          |        | 5¼      | 3⅞     | 5      | 0.197  | 1¼              | 1¼     | ⅝              |               |
| 279    | 79     | 30     | 241         | 206         |        | 151     | 114    | 146    | 5      | 32              | 37     | M16            |               |
| 11     | 3⅞     | 13/16  | 9½          | 8⅞          |        | 515/16  | 4½     | 5¾     | 0.197  | 1¼              | 11/16  | ⅝              |               |
| 286    | 79     | 30     | 244         | 219         | 48     | 160     | 114    | 148    | 5      | 32              | 38     | M16            | M12           |
| 11¼    | 3⅞     | 13/16  | 9⅞          | 8⅞          | 1⅞     | 67/16   | 4½     | 513/16 | 0.197  | 1¼              | 1½     | ⅝              | ½             |
| 330    | 89     | 32     | 279         | 244         | 54     | 171     | 127    | 159    | 5      | 35              | 41     | M20            | M16           |
| 13     | 3½     | 1¼     | 11          | 9⅞          | 2⅞     | 6¾      | 5      | 6¾     | 0.197  | 1⅜              | 1⅞     | ¾              | ⅝             |
| 324    | 89     | 32     | 279         | 251         | 54     | 186     | 132    | 171    | 5      | 37              | 43     | M20            | M16           |
| 12¾    | 3½     | 1¼     | 11          | 9⅞          | 2⅞     | 77/16   | 57/16  | 6¾     | 0.197  | 17/16           | 111/16 | ¾              | ⅝             |
| 349    | 98     | 35     | 295         | 264         | 54     | 197     | 152    | 185    | 5      | 40              | 44     | M20            | M16           |
| 13¾    | 3⅞     | 1⅞     | 11⅞         | 10⅞         | 2⅞     | 7¾      | 6      | 7¾     | 0.197  | 19/16           | 1¼     | ¾              | ⅝             |
| 387    | 111    | 40     | 333         | 295         | 60     | 219     | 159    | 198    | 5      | 45              | 51     | M24            | M20           |
| 15¼    | 4⅞     | 17/16  | 13⅞         | 11⅞         | 2⅞     | 8⅞      | 6¼     | 713/16 | 0.197  | 1¾              | 2      | ⅞              | ¾             |
| 419    | 121    | 44     | 368         | 321         | 70     | 243     | 176    | 216    | 5      | 48              | 54     |                | M20           |
| 16½    | 4¾     | 1¾     | 14½         | 12⅞         | 2¾     | 97/16   | 615/16 | 8½     | 0.197  | 1⅞              | 2⅞     |                | ¾             |
| 419    | 121    | 44     | 368         | 337         | 70     | 260     | 187    | 229    | 5      | 51              | 59     |                | M20           |
| 16½    | 4¾     | 1¾     | 14½         | 13¾         | 2¾     | 10¼     | 7⅞     | 9      | 0.197  | 2               | 27/16  |                | ¾             |
| 467    | 130    | 52     | 406         | 371         | 83     | 289     | 192    | 232    | 5      | 63              | 62     |                | M24           |
| 18⅞    | 5⅞     | 27/16  | 16          | 14⅞         | 3¼     | 11⅞     | 77/16  | 9⅞     | 0.197  | 2½              | 27/16  |                | ⅞             |
| 511    | 149    | 52     | 435         | 406         | 86     | 302     | 205    | 248    | 5      | 56              | 65     |                | M24           |
| 20 1/8 | 5⅞     | 27/16  | 17⅞         | 16          | 3⅞     | 117/8   | 87/16  | 9¾     | 0.197  | 23/16           | 27/16  |                | 1             |
| 540    | 159    | 60     | 464         | 432         | 95     | 322     | 219    | 267    | 5      | 55              | 70     |                | M24           |
| 21¼    | 6¼     | 2⅞     | 18¾         | 17          | 3¾     | 1211/16 | 8⅞     | 10½    | 0.197  | 23/16           | 2¾     |                | 1             |
| 559    | 159    | 60     | 489         | 441         | 95     | 344     | 235    | 283    | 5      | 57              | 75     |                | M24           |
| 22     | 6¼     | 2⅞     | 19¼         | 17⅞         | 3¾     | 137/16  | 9¼     | 111/8  | 0.197  | 2¼              | 215/16 |                | 1             |
| 629    | 171    | 70     | 549         | 492         | 108    | 368     | 241    | 295    | 5      | 61              | 79     |                | M24           |
| 24¾    | 6¾     | 2¾     | 21⅞         | 19⅞         | 4¼     | 14½     | 9½     | 11⅞    | 0.197  | 2⅞              | 3⅞     |                | 1             |
| 679    | 181    | 76     | 600         | 530         | 117    | 381     | 254    | 306    | 5      | 67              | 79     |                | M24           |
| 26¾    | 7⅞     | 3      | 23⅞         | 20⅞         | 4⅞     | 15      | 10     | 127/16 | 0.197  | 2⅞              | 3⅞     |                | 1             |
| 711    | 191    | 70     | 619         | 549         | 114    | 412     | 270    | 321    | 5      | 69              | 84     |                | M30           |
| 28     | 7½     | 2¾     | 24⅞         | 21⅞         | 4½     | 16¼     | 10⅞    | 12⅞    | 0.197  | 211/16          | 37/16  |                | 1¼            |
| 749    | 205    | 76     | 635         | 572         | 127    | 435     | 279    | 337    | 5      | 71              | 89     |                | M30           |
| 29½    | 87/16  | 3      | 25          | 22½         | 5      | 17⅞     | 11     | 13¾    | 0.197  | 2¾              | 3½     |                | 1¼            |
| 832    | 222    | 95     | 708         | 629         | 133    | 484     | 298    | 356    | 5      | 88              | 97     |                | M36           |
| 32¾    | 8¾     | 3¾     | 27⅞         | 24¾         | 5¼     | 197/16  | 11¾    | 14     | 0.197  | 37/16           | 313/16 |                | 1½            |

# Series SDD Housing

## Heavy Duty Series SDD

Servicing requirements for large size pillow blocks has become a standard practice for FAG, as demonstrated with a complete standard series of extra large ductile iron housings.

Substantiating that size does not prohibit flexibility, series SDD housings are designed to:

- accept shaft diameters as large as 43"
- accommodate a wide variety of spherical roller bearing options
- provide the optional seal designs and other engineered features relative to FAG general duty housings

## SDD Housing Selection

Essentially, SDD housing size is determined by the outside diameter of the bearing. Each housing size can be machined to accept a range of outside diameters and therefore a variety of bearings as illustrated in the table opposite.

This table allows basic housing dimensions to be established when bearing selection has already been made from one of the eight common bearing series.

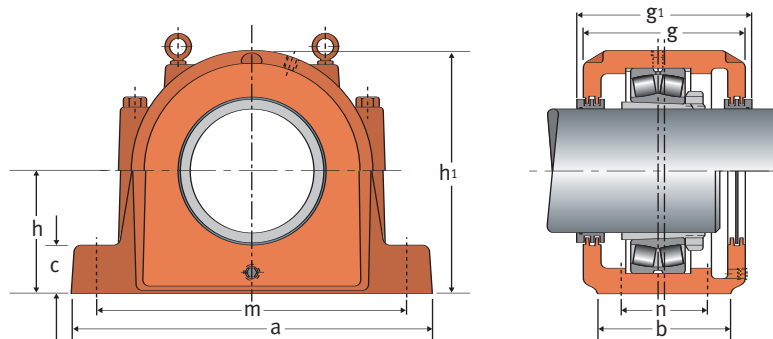
For final details, such as seal design, float requirement, or any optional feature, please consult an FAG engineering representative.

## Housing Dimensions by Bearing Selection

| Bearing O.D.<br>mm |      | Basic Bearing Number |                           |                           |                    |
|--------------------|------|----------------------|---------------------------|---------------------------|--------------------|
|                    |      | Series 239..         | *Series 230..             | Series 240..              | *Series 231..      |
| 270                | 280  | 23940                | 23036                     | 24036                     | 23132<br>23134     |
| 290                | 300  | 23944                | 23038                     | 24038                     | 23136              |
| 310                | 320  | 23948                | 23040                     | 24040                     | 23138              |
|                    | 340  |                      | 23044                     | 24044                     | 23140              |
| 360                | 370  | 23952                | 23048                     | 24048                     | 23144              |
| 400                | 420  | 23960                | 23052<br>23056            | 24052<br>24056            | 23148              |
|                    | 440  | 23964                |                           |                           | 23152              |
| 460                | 480  | 23968<br>23972       | 23060<br>23064            | 24060<br>24064            | 23156              |
| 480                | 520  | 23976                | 23068                     | 24068                     | 23160              |
| 540                | 560  | 23980<br>23984       | 23072<br>23076            | 24072<br>24076            | 23164              |
| 580                | 600  | 23988                | 23080                     | 24080                     | 23168<br>23172     |
| 620                | 650  | 23992<br>23996       | 23084<br>23088            | 24084<br>24088            | 23176<br>23180     |
| 680                | 720  | 239/530              | 23092<br>23096<br>230/500 | 24092<br>24096<br>240/500 | 23184<br>23188     |
| 760                | 800  | 239/600              | 230/530                   | 240/530                   | 23192<br>23196     |
| 820                | 870  | 239/630              | 230/560<br>230/600        | 240/560<br>240/600        | 231/500<br>231/530 |
| 920                | 980  | 239/710              | 230/630<br>230/670        | 240/630<br>240/670        | 231/560<br>231/600 |
| 1030               | 1090 | 239/800              | 230/710<br>230/750        | 240/710<br>240/750        | 231/630<br>231/670 |

\* Preferred bearing series





| Series 241..       | Series 222..       | *Series 232..      | Series 223..       | Housing Dimensions |   |   |  |   |   |  |   |   |   | Mounting Bolts mm/in.                |
|--------------------|--------------------|--------------------|--------------------|--------------------|---|---|--|---|---|--|---|---|---|--------------------------------------|
|                    |                    |                    |                    | h mm/in.           | a mm/in.                                | b mm/in.                                | c mm/in.                               | m                                       |   | n mm/in.                               | h1 mm/in.                               | g mm/in.                                | g1 mm/in.                               |                                      |
|                    | 22230              | 23230              | 22326              | 170<br>6.693       | 510<br>20 <sup>7</sup> / <sub>16</sub>  | 180<br>7 <sup>1</sup> / <sub>8</sub>    | 70<br>2 <sup>7</sup> / <sub>4</sub>    | 436<br>17 <sup>3</sup> / <sub>16</sub>  | 424<br>16 <sup>11</sup> / <sub>16</sub> | 100<br>3 <sup>15</sup> / <sub>16</sub> | 335<br>13 <sup>3</sup> / <sub>16</sub>  | 230<br>9 <sup>1</sup> / <sub>16</sub>   | 240<br>9 <sup>7</sup> / <sub>16</sub>   | M24<br>1                             |
|                    | 22232              | 23232              | 22328              | 180<br>7.087       | 530<br>20 <sup>7</sup> / <sub>8</sub>   | 190<br>7 <sup>1</sup> / <sub>2</sub>    | 75<br>3                                | 456<br>18                               | 444<br>17 <sup>1</sup> / <sub>2</sub>   | 110<br>4 <sup>11</sup> / <sub>32</sub> | 355<br>14                               | 240<br>9 <sup>7</sup> / <sub>16</sub>   | 250<br>9 <sup>27</sup> / <sub>32</sub>  | M24<br>1                             |
| 24138              | 22234<br>22236     | 23234<br>23236     | 22330              | 190<br>7.480       | 560<br>22 <sup>1</sup> / <sub>16</sub>  | 210<br>8 <sup>1</sup> / <sub>4</sub>    | 80<br>3 <sup>5</sup> / <sub>32</sub>   | 486<br>19 <sup>1</sup> / <sub>8</sub>   | 474<br>18 <sup>21</sup> / <sub>32</sub> | 120<br>4 <sup>23</sup> / <sub>32</sub> | 375<br>14 <sup>3</sup> / <sub>4</sub>   | 260<br>10 <sup>1</sup> / <sub>4</sub>   | 270<br>10 <sup>5</sup> / <sub>8</sub>   | M24<br>1                             |
| 24140              | 22238              | 23238              | 22332              | 210<br>8.268       | 610<br>24                               | 230<br>9 <sup>1</sup> / <sub>16</sub>   | 85<br>3 <sup>11</sup> / <sub>32</sub>  | 517<br>20 <sup>11</sup> / <sub>32</sub> | 503<br>19 <sup>13</sup> / <sub>16</sub> | 130<br>5 <sup>1</sup> / <sub>8</sub>   | 410<br>16 <sup>5</sup> / <sub>32</sub>  | 280<br>11 <sup>1</sup> / <sub>32</sub>  | 290<br>11 <sup>13</sup> / <sub>32</sub> | M30<br>1 <sup>1</sup> / <sub>4</sub> |
| 24144              | 22240              | 23240              | 22334              | 220<br>8.661       | 640<br>25 <sup>3</sup> / <sub>16</sub>  | 240<br>9 <sup>1</sup> / <sub>16</sub>   | 90<br>3 <sup>17</sup> / <sub>32</sub>  | 547<br>21 <sup>17</sup> / <sub>32</sub> | 533<br>21                               | 140<br>5 <sup>1</sup> / <sub>2</sub>   | 435<br>17 <sup>3</sup> / <sub>8</sub>   | 290<br>11 <sup>13</sup> / <sub>32</sub> | 300<br>11 <sup>13</sup> / <sub>16</sub> | M30<br>1 <sup>1</sup> / <sub>4</sub> |
|                    | 22244              | 23244              | 22338<br>22340     | 240<br>9.449       | 700<br>27 <sup>9</sup> / <sub>16</sub>  | 260<br>10 <sup>1</sup> / <sub>4</sub>   | 95<br>3 <sup>3</sup> / <sub>4</sub>    | 607<br>23 <sup>29</sup> / <sub>32</sub> | 593<br>23 <sup>11</sup> / <sub>32</sub> | 150<br>5 <sup>29</sup> / <sub>32</sub> | 475<br>18 <sup>23</sup> / <sub>32</sub> | 310<br>12 <sup>7</sup> / <sub>32</sub>  | 326<br>12 <sup>27</sup> / <sub>32</sub> | M30<br>1 <sup>1</sup> / <sub>4</sub> |
|                    | 22248              | 23248              |                    | 260<br>10.236      | 775<br>30 <sup>1</sup> / <sub>2</sub>   | 280<br>11 <sup>1</sup> / <sub>32</sub>  | 100<br>3 <sup>15</sup> / <sub>16</sub> | 658<br>25 <sup>29</sup> / <sub>32</sub> | 642<br>25 <sup>9</sup> / <sub>32</sub>  | 160<br>6 <sup>5</sup> / <sub>16</sub>  | 515<br>20 <sup>9</sup> / <sub>32</sub>  | 320<br>12 <sup>19</sup> / <sub>32</sub> | 337<br>13 <sup>3</sup> / <sub>4</sub>   | M36<br>1 <sup>1</sup> / <sub>2</sub> |
|                    | 22252              |                    | 22344              | 280<br>11.024      | 790<br>31 <sup>1</sup> / <sub>8</sub>   | 280<br>11 <sup>1</sup> / <sub>32</sub>  | 105<br>4 <sup>1</sup> / <sub>8</sub>   | 678<br>26 <sup>11</sup> / <sub>16</sub> | 662<br>26 <sup>1</sup> / <sub>16</sub>  | 160<br>6 <sup>5</sup> / <sub>16</sub>  | 550<br>21 <sup>5</sup> / <sub>8</sub>   | 335<br>13 <sup>3</sup> / <sub>16</sub>  | 354<br>13 <sup>15</sup> / <sub>16</sub> | M36<br>1 <sup>1</sup> / <sub>2</sub> |
| 24160              | 22256              | 23252<br>23256     | 22348              | 300<br>11.811      | 830<br>32 <sup>11</sup> / <sub>16</sub> | 310<br>12 <sup>7</sup> / <sub>32</sub>  | 110<br>4 <sup>11</sup> / <sub>32</sub> | 718<br>28 <sup>1</sup> / <sub>4</sub>   | 702<br>27 <sup>5</sup> / <sub>8</sub>   | 190<br>7 <sup>1</sup> / <sub>2</sub>   | 590<br>23 <sup>1</sup> / <sub>4</sub>   | 350<br>13 <sup>25</sup> / <sub>32</sub> | 360<br>14 <sup>3</sup> / <sub>16</sub>  | M36<br>1 <sup>1</sup> / <sub>2</sub> |
|                    | 22260              | 23260              | 22352              | 320<br>12.598      | 885<br>34 <sup>27</sup> / <sub>32</sub> | 330<br>13                               | 115<br>4 <sup>17</sup> / <sub>32</sub> | 758<br>29 <sup>27</sup> / <sub>32</sub> | 742<br>29 <sup>7</sup> / <sub>32</sub>  | 200<br>7 <sup>7</sup> / <sub>8</sub>   | 630<br>24 <sup>13</sup> / <sub>16</sub> | 370<br>14 <sup>9</sup> / <sub>16</sub>  | 380<br>14 <sup>31</sup> / <sub>32</sub> | M36<br>1 <sup>1</sup> / <sub>2</sub> |
| 24168<br>24172     | 22264              | 23264              | 22356              | 360<br>14.173      | 1000<br>39 <sup>3</sup> / <sub>8</sub>  | 370<br>14 <sup>9</sup> / <sub>16</sub>  | 120<br>4 <sup>23</sup> / <sub>32</sub> | 872<br>34 <sup>11</sup> / <sub>32</sub> | 848<br>33 <sup>3</sup> / <sub>8</sub>   | 230<br>9 <sup>1</sup> / <sub>16</sub>  | 705<br>27 <sup>3</sup> / <sub>4</sub>   | 410<br>16 <sup>1</sup> / <sub>8</sub>   | 418<br>16 <sup>7</sup> / <sub>16</sub>  | M45<br>1 <sup>1</sup> / <sub>4</sub> |
|                    | 22268<br>22272     | 23268<br>23272     | 22360              | 390<br>15.354      | 1118<br>44                              | 394<br>15 <sup>1</sup> / <sub>2</sub>   | 127<br>5                               | 978<br>38 <sup>1</sup> / <sub>2</sub>   | 952<br>37 <sup>1</sup> / <sub>2</sub>   | 235<br>9 <sup>1</sup> / <sub>4</sub>   | 762<br>30                               | 457<br>18                               | 468<br>18 <sup>7</sup> / <sub>16</sub>  | M50<br>2                             |
| 24184              | 22276<br>22280     | 23276<br>23280     |                    | 425<br>16.732      | 1200<br>47 <sup>1</sup> / <sub>4</sub>  | 420<br>16 <sup>17</sup> / <sub>32</sub> | 127<br>5                               | 1048<br>41 <sup>1</sup> / <sub>4</sub>  | 1022<br>40 <sup>1</sup> / <sub>4</sub>  | 251<br>9 <sup>7</sup> / <sub>8</sub>   | 841<br>33 <sup>3</sup> / <sub>8</sub>   | 500<br>19 <sup>11</sup> / <sub>16</sub> | 510<br>20 <sup>1</sup> / <sub>16</sub>  | M50<br>2                             |
| 24192<br>24196     | 22284<br>22288     | 23284<br>23288     | 22376              | 470<br>18.504      | 1454<br>57 <sup>1</sup> / <sub>4</sub>  | 470<br>18 <sup>1</sup> / <sub>2</sub>   | 146<br>5 <sup>3</sup> / <sub>4</sub>   | 1257<br>49 <sup>3</sup> / <sub>2</sub>  | 1232<br>48 <sup>1</sup> / <sub>2</sub>  | 260<br>10 <sup>1</sup> / <sub>4</sub>  | 940<br>37                               | 562<br>22 <sup>1</sup> / <sub>8</sub>   | 574<br>22 <sup>19</sup> / <sub>32</sub> | M56<br>2 <sup>1</sup> / <sub>4</sub> |
| 241/500            | 22292<br>22296     | 23292<br>23296     | 22380              | 520<br>20.472      | 1530<br>60 <sup>3</sup> / <sub>4</sub>  | 520<br>20 <sup>1</sup> / <sub>2</sub>   | 160<br>6 <sup>5</sup> / <sub>16</sub>  | 1314<br>51 <sup>3</sup> / <sub>4</sub>  | 1286<br>50 <sup>5</sup> / <sub>8</sub>  | 270<br>10 <sup>5</sup> / <sub>8</sub>  | 1030<br>40 <sup>9</sup> / <sub>16</sub> | 620<br>24 <sup>1</sup> / <sub>16</sub>  | 626<br>24 <sup>5</sup> / <sub>8</sub>   | M56<br>2 <sup>1</sup> / <sub>4</sub> |
| 241/560<br>241/600 | 222/500<br>222/530 | 232/500<br>232/530 | 22392<br>22396     | 575<br>22.638      | 1676<br>66                              | 565<br>22 <sup>1</sup> / <sub>4</sub>   | 175<br>6 <sup>5</sup> / <sub>8</sub>   | 1455<br>57 <sup>1</sup> / <sub>4</sub>  | 1430<br>56 <sup>3</sup> / <sub>16</sub> | 292<br>11 <sup>1</sup> / <sub>2</sub>  | 1140<br>44 <sup>3</sup> / <sub>8</sub>  | 673<br>26 <sup>1</sup> / <sub>2</sub>   | 704<br>27 <sup>23</sup> / <sub>32</sub> | M64<br>2 <sup>1</sup> / <sub>2</sub> |
| 241/630<br>241/670 | 222/560<br>222/600 | 232/560<br>232/600 | 223/500<br>223/530 | 625<br>24.606      | 1830<br>72                              | 610<br>24                               | 185<br>7 <sup>1</sup> / <sub>4</sub>   | 1632<br>64 <sup>1</sup> / <sub>4</sub>  | 1600<br>63                              | 314<br>12 <sup>3</sup> / <sub>8</sub>  | 1245<br>49                              | 730<br>28 <sup>3</sup> / <sub>4</sub>   | 740<br>29 <sup>5</sup> / <sub>8</sub>   | M64<br>2 <sup>1</sup> / <sub>2</sub> |

- This table applies only to SDD series housings
- Bearing series 241.. can be used for direct shaft mount only, without locknut

# Special Designs

When the size or application requirements of a bearing housing lie outside the parameter of standard series production, the design concept, the material selection and the manufacturing process require specialized insight and experience. Venturing into new technical territory to solve complex applications is a unique area of expertise for the FAG engineering group.

From meeting special sealing and lubrication requirements to accommodating unique bearing arrangements and mountings, FAG lends its engineering versatility towards functional design innovations that improve long term serviceability and operating costs.



Pillow block housing for wood grinding machinery

Vertically mounted pillow blocks for dryer rolls

Split pillow block for dryer rolls

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