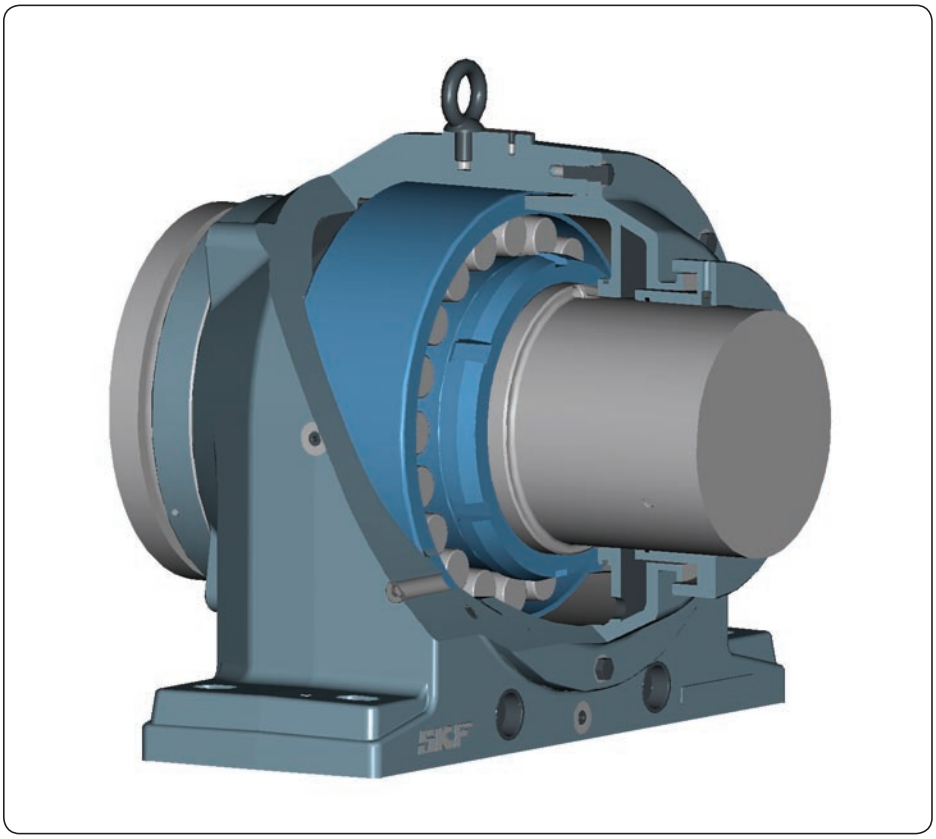
Technical data sheet



# SKF SBPN drying cylinder housings

The SKF range of SBPN housings has been optimized for the operating conditions found in the dryer section of modern paper machines. Developed for use with oil circulation lubrication systems and designed for paper machine speeds of up to 3 000 metres per minute, SBPN housings are equipped with maintenance-free, non-contact labyrinth seals that offer significantly improved protection against the ingress of liquid contaminants compared with gap seals found on older design housings. In addition, the SBPN's oil inlet position and ducts have been optimized to suit the high oil flow rates used in paper machines today and, like its predecessor the SBP design, it is highly resistant to oil leakage under such conditions.

With steam joint, shaft end and rope sheave variants in the range, SBPN housings together with SKF's unique self-aligning bearing system, incorporating a CARB toroidal roller bearing and an SKF Explorer spherical roller bearing, represent a comprehensive and superior solution for users looking for better performance, longer service life and reduced maintenance costs.

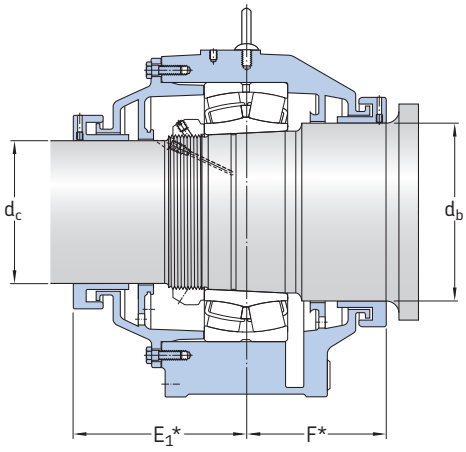
## Features

- Optimized design developed together with leading OEMs.
- Upgraded seal.
- Range includes steam joint connections, shaft ends and rope sheave variants.

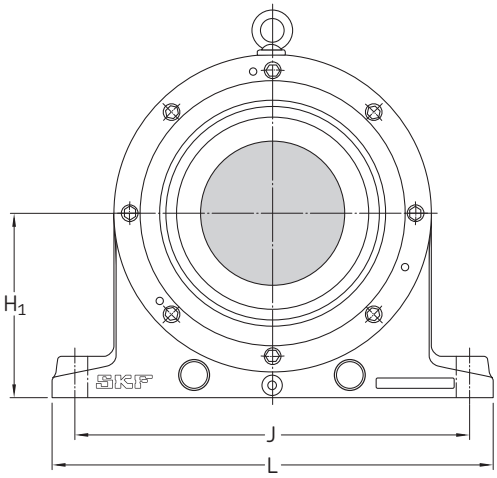
## Benefits

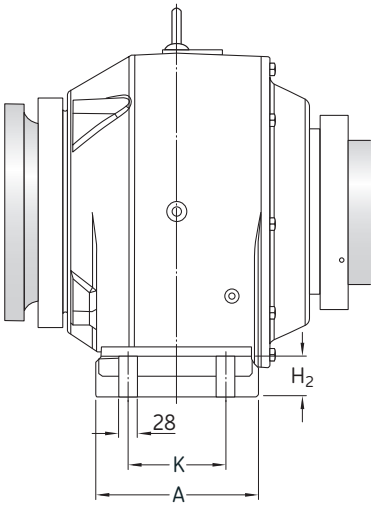
- Avoids ingress of liquid contaminants.
- Virtually eliminates leaks even with high oil flow rates.
- Base dimensions to SKF standards.
- A complete housing concept.

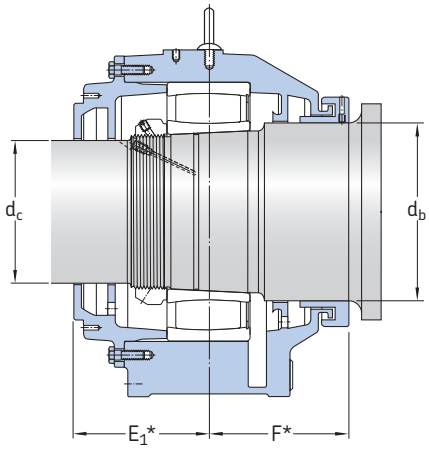
**Standard base design**
$d_b$ **200 – 360** mm



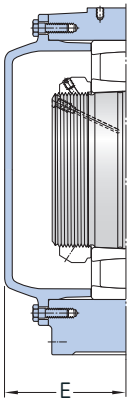

Drive side, through shaft




Front side with steam joint connection

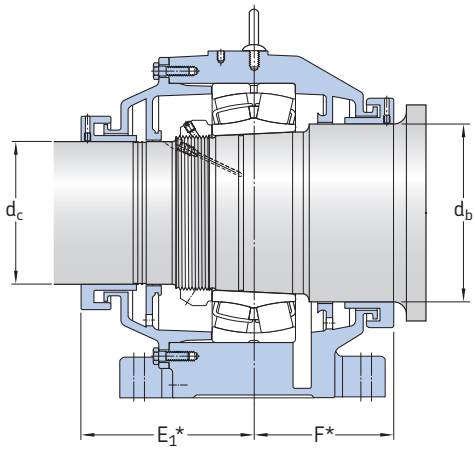



End cover design

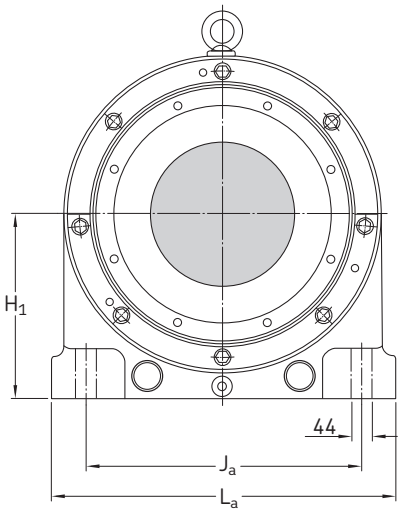
| **Drive side** Housing basic designation | Bearing basic designation | **Front side** Housing basic designation | Bearing basic designation | **Dimensions** Shaft $d_b$ | $d_c$ | E | $E_1$ | F | Housing $H_1$ | A | J | K | L | $H_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| – | | – | | mm | | | | | | | | | | |
| **SBPN 3136 F** | 23136 | **SBPN 3136 RA** | C 3136 | 200 | 160 | 155 | 230 | 195 | 220 | 170 | 440 | 90 | 520 | 50 |
| **SBPN 3140 F** | 23140 | **SBPN 3140 RA** | C 3140 | 230 | 180 | 165 | 240 | 200 | 240 | 200 | 485 | 115 | 570 | 55 |
| **SBPN 3144 F** | 23144 | **SBPN 3144 RA** | C 3144 | 250 | 200 | 175 | 255 | 200 | 265 | 235 | 550 | 135 | 640 | 60 |
| **SBPN 3148 F** | 23148 | **SBPN 3148 RA** | C 3148 | 275 | 220 | 190 | 265 | 215 | 285 | 250 | 580 | 150 | 680 | 65 |
| **SBPN 3152 F** | 23152 | **SBPN 3152 RA** | C 3152 | 300 | 240 | 200 | 280 | 225 | 310 | 265 | 620 | 160 | 720 | 75 |
| **SBPN 3160 F** | 23160 | **SBPN 3160 RA** | C 3160 | 340 | 280 | 215 | 290 | 235 | 335 | 300 | 720 | 180 | 820 | 85 |
| **SBPN 3164 F** | 23164 | **SBPN 3164 RA** | C 3164 | 360 | 300 | 225 | 300 | 255 | 360 | 320 | 760 | 200 | 880 | 85 |

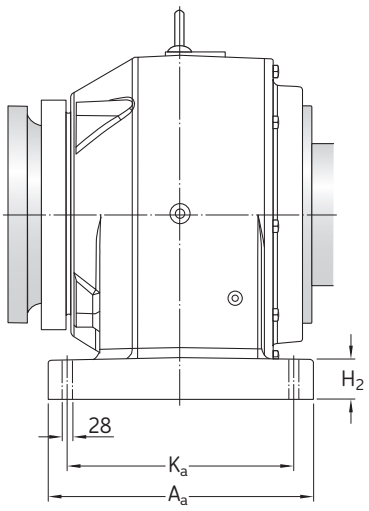
* The listed values for dimensions $E_1$ and F apply under operating conditions only

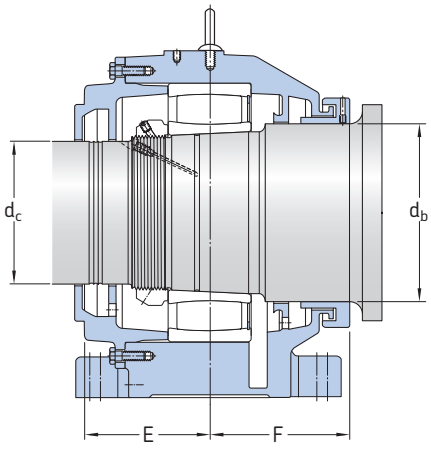
**Base design A (short, but wide base)**
$d_b$ **200 – 360** mm



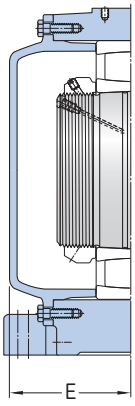

Drive side, through shaft




Front side with steam joint connection




End cover design

| **Drive side** | | **Front side** | | **Dimensions** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Housing basic designation | Bearing basic designation | Housing basic designation | Bearing basic designation | Shaft | | | | | Housing | | | | | |
| | | | | $d_b$ | $d_c$ | E | $E_1$ | F | $H_1$ | $A_a$ | $J_a$ | $K_a$ | $L_a$ | $H_2$ |
| – | | – | | mm | | | | | | | | | | |
| **ASBPN 3136 F** | 23136 | **ASBPN 3136 RA** | C 3136 | 200 | 160 | 155 | 230 | 195 | 220 | 350 | 320 | 280 | 400 | 50 |
| **ASBPN 3144 F** | 23144 | **ASBPN 3144 RA** | C 3144 | 250 | 200 | 175 | 255 | 200 | 265 | 410 | 380 | 340 | 490 | 60 |
| **ASBPN 3152 F** | 23152 | **ASBPN 3152 RA** | C 3152 | 300 | 240 | 200 | 280 | 225 | 310 | 445 | 470 | 375 | 580 | 75 |
| **ASBPN 3160 F** | 23160 | **ASBPN 3160 RA** | C 3160 | 340 | 280 | 215 | 290 | 235 | 335 | 480 | 560 | 410 | 670 | 85 |
| **ASBPN 3164 F** | 23164 | **ASBPN 3164 RA** | C 3164 | 360 | 300 | 225 | 300 | 255 | 360 | 500 | 580 | 430 | 710 | 85 |

* The listed values for dimensions $E_1$ and F apply under operating conditions only

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