

Text index

A

- A
- FNL flanged housings 533, 535, 546–551
- SBD plummer block housings 487, 494, 502–525
- SBFN felt roll housings 591
- SBPN drying cylinder housings (p) 591, 608–610, 612–613
- SBPN drying cylinder housings (s) 591, 606–612
- SED plummer block housings 333, 337
- THD take-up housings 487, 494, 526–529
- abutments → shaft abutments
- adapter rings
 - in SBD plummer block housings 487, 490–491, 501
 - in SONL plummer block housings 356
 - in THD take-up housings 487, 490–491, 501
- adapter sleeve mounting
 - applicable housings 30–32
 - axial load carrying capacity 44
 - compared with other shaft-bearing combinations 42
 - shaft specifications 45
- adapter sleeves 25
- adapters 48
- air handling units 666
- angular contact ball bearings
 - applicable housings 32
 - in PD two-bearing housings 555–556, 560–563, 576–577
 - suitability for SKF housings 40
- application-specific housings 34
- attachment bolt holes 24
 - per housing series 30–34
- attachment bolts 24
 - tightening 50
- automatic lubricators 47
- axial displacement → axial shaft displacement
- axial loads
 - breaking loads 44
 - induced 41
 - on bearings on sleeves 44
- axial movement → axial shaft displacement
- axial position measuring systems 632
- axial shaft displacement 40
 - relubrication via the outer ring 46

B

- B
- FNL flanged housings 533, 535, 546–551
- SBD plummer block housings 487, 494, 502–525
- SBFN felt roll housings 591
- SBPN drying cylinder housings 591, 606–612
- SED plummer block housings 333, 337
- THD take-up housings 487, 494, 526–529
- B..
 - SBPN drying cylinder housings 591, 594, 606–612
 - SDM Yankee cylinder housings 591, 594, 606–612
- back-up collars 662–663

- base ends 24
- base planes 24
- base sides 24
- bases 24
- bearing arrangements 40–41
 - in PD two-bearing housings 564
- bearing housings → housings
- bearing seats 25
 - distortion 50
 - in locating/non-locating housings 40, 50
 - shaft specifications 45
 - with non-standard tolerance classes 35
- bearing units → roller bearing units
- bearings
 - index 742–777
 - per housing series 30–34
 - suitability for SKF housings 35, 40
- biodegradable greases 39, 46
- blowers 666
- bolt tensioners 50
- breaking loads 44
- bushings 626, 631

C

- C 487, 493, 495
- cap bolts 24
 - yield strength 44
- caps 24
- CARB toroidal roller bearings
 - applicable housings 30–34
 - in FNL flanged housings 539, 543, 546–551
 - in SAF pillow blocks 410, 414, 430–433, 444–447
 - in SBD plummer block housings 490, 498
 - in SBFN felt roll housings 592, 598–599
 - in SBPN drying cylinder housings 592, 598–599, 606–613
 - in SDAF pillow blocks 463
 - in SDM Yankee cylinder housings 592, 598–599, 614–621
 - in SKND converter trunnion housings 626–627, 630, 634–637
 - in SNL 2, 3, 5 & 6 plummer block housings 72, 80, 86–137
 - in SNL 30, 31 & 32 plummer block housings 204, 214, 222–329
 - in SNLN plummer block housings 168, 174, 180–187
 - in SONL plummer block housings 356, 360, 367, 370–381
 - in THD take-up housings 490, 498
 - in the SKF self-aligning bearing system 39, 41
 - suitability for SKF housings 40
 - with locating (stabilizing) rings 41, 51
- cast iron
 - applicable housings 30–34
 - types 29
- cast steel 30–32
- centralized lubrication systems 47–49
- centre line markings 24
- centring recesses
 - in FNL flanged housings 537, 540

Note: Designation prefixes and suffixes for housings, pillow blocks and units are shown in **bold**.

18.1 Text index

in FYNT flanged units (SKF ConCentra) 683
 circulating oil lubrication
 in PD two-bearing housings 567
 in SAF pillow blocks 414
 in SAW pillow blocks 414
 in SBFN felt roll housings 602
 in SBPN drying cylinder housings 602
 in SDAF pillow blocks 469
 in SDM Yankee cylinder housings 602
 in SED plummer block housings 336, 342
 in SNL 30, 31 & 32 plummer block housings 198, 200, 215–218
 in SONL plummer block housings 356, 366–367
 circumferential speeds 37–38
 clamping bands 647
 ConCentra roller bearing units → SKF ConCentra roller bearing units
 concentric locking
 for inch roller bearing units 696
 for metric roller bearing units 663, 664
 condensation 37
 condition monitoring 52
 contact (radial shaft) seals
 applicable housings 30–31, 33
 for inch roller bearing units 697–699
 for metric roller bearing units 667–668
 for SAF pillow blocks 389–400
 for SAW pillow blocks 389–400
 for SDAF pillow blocks 454–462
 contact elements
 for SAF pillow blocks 400–401
 for SAW pillow blocks 400–401
 for SDAF pillow blocks 460, 462
 contamination
 effect on initial grease fills 46
 sealing solutions 36, 39
 SKF three-barrier solution 39
 converters → SKND converter trunnion housings
 conveyors
 and metric roller bearing units 666
 and SBD plummer block housings 485
 and SED plummer block housings 331
 and THD take-up housings 485
 cooling tubes → oil cooling tubes
 corrosivity categories 36–37
 cover bolts 25
 covers 25
 cross-located bearing arrangements 562, 564
 crushers
 and SBD plummer block housings 485
 and SED plummer block housings 331
 and THD take-up housings 485
 cyclic loads 44
 cylindrical roller bearings
 applicable housings 32
 in PD two-bearing housings 555–556, 560–563, 576–579
 suitability for SKF housings 40
 cylindrical seat mounting
 applicable housings 30–32, 34
 compared with other shaft-bearing combinations 43
 shaft specifications 45
 cylindricity 45

D

DD 556, 562
 deep groove ball bearings
 applicable housings 32
 in PD two-bearing housings 556, 560–563, 572–575, 578–579
 suitability for SKF housings 40
 designation systems
 for FNL flanged housings 533–534
 for FSDR... K mill trunnion housings 641

for FYE flanged units (collar-mount) 693
 for FYNT flanged units (SKF ConCentra) 661
 for FYR(P) flanged units (collar-mount) 693
 for PD two-bearing housings 555–556
 for SAF pillow blocks 385
 for SAW pillow blocks 385
 for SBD plummer block housings 487
 for SBFN felt roll housings 591
 for SBPN drying cylinder housings 591
 for SDAF pillow blocks 451
 for SDM Yankee cylinder housings 591
 for SE plummer block housings 141–142
 for SED plummer block housings 333
 for SKND converter trunnion housings 625
 for SNL 2, 3, 5 & 6 plummer block housings 57–58
 for SNL 30, 31 & 32 plummer block housings 191–192
 for SNLN plummer block housings 153–154
 for SONL plummer block housings 351–352
 for SYE pillow block units (SKF ConCentra / collar-mount) 693
 for SYNT plummer block units (SKF ConCentra) 661
 for SYR pillow block units (SKF ConCentra / collar-mount) 693
 for THD take-up housings 487
 dimensional tolerances 45
 dimples 24
 dismounting 42–43
 displacement → axial shaft displacement
 double-lip seals
 applicable housings 32–34
 for FNL flanged housings 536, 538
 for metric roller bearing units 667–668
 for SKND converter trunnion housings 629
 for SNL 2, 3, 5 & 6 plummer block housings 66
 for SNLN plummer block housings 160
 grease escape holes 46
 drive side 598–599
 drying cylinders
 SBPN drying cylinder housings 592, 606–613
 SNL... TURP plummer block housings 200
 dual fan housings → PD two-bearing housings
 ductile iron (spheroidal graphite cast iron)
 applicable housings 30–32, 34
 material properties 29

E

E 487, 493, 495, 514–519
 electromagnetic clutches 365
 end covers (plugs) 25
 for FNL flanged housings 535
 for inch roller bearing units 697–699
 for metric roller bearing units 667–668
 for SAF pillow blocks 389–401
 for SAW pillow blocks 389–401
 for SBD plummer block housings 494
 for SBFN felt roll housings 596
 for SBPN drying cylinder housings 596
 for SDAF pillow blocks 454–461
 for SE plummer block housings 142
 for SED plummer block housings 337
 for SNL 2, 3, 5 & 6 plummer block housings 58, 64–65, 68
 for SNL 30, 31 & 32 plummer block housings 192, 196–198
 for SNLN plummer block housings 154, 160, 163–164
 for SONL plummer block housings 351, 357–359
 for THD take-up housings 494
 end plates
 for PD two-bearing housings 564, 568
 for SBD plummer block housings 494
 for THD take-up housings 494
 end plugs (covers) 25
 for FNL flanged housings 535
 for inch roller bearing units 697–699
 for metric roller bearing units 667–668
 for SAF pillow blocks 389–401
 for SAW pillow blocks 389–401

Note: Designation prefixes and suffixes for housings, pillow blocks and units are shown in **bold**.

- for SBD plummer block housings 494
- for SBFN felt roll housings 596
- for SBPN drying cylinder housings 596
- for SDAF pillow blocks 454–461
- for SE plummer block housings 142
- for SED plummer block housings 337
- for SNL 2, 3, 5 & 6 plummer block housings 58, 64–65, 68
- for SNL 30, 31 & 32 plummer block housings 192, 196–198
- for SNLN plummer block housings 154, 160, 163–164
- for SONL plummer block housings 351, 357–359
- for THD take-up housings 494
- environmental conditions 36–37
- escape holes → grease escape holes
- eye bolts 24
 - load carrying capacity 50

F

F

- FYE flanged units (collar-mount) 693
- FYNT flanged units (SKF ConCentra) 661, 670
- FYR(P) flanged units (collar-mount) 693
- SAF pillow blocks 385
- SBD plummer block housings 487, 494, 502–525
- SBFN felt roll housings 591, 598
- SBPN drying cylinder housings 591, 598, 606–613
- SDM Yankee cylinder housings 591, 598, 614–621
- SE plummer block housings 141
- SED plummer block housings 333, 338
- SKND converter trunnion housings 625, 626
- SNL 2, 3, 5 & 6 plummer block housings 57, 62
- SNL 30, 31 & 32 plummer block housings 191, 204
- SYE pillow block units (SKF ConCentra / collar-mount) 693
- SYNT plummer block units (SKF ConCentra) 661, 670
- SYR pillow block units (SKF ConCentra / collar-mount) 693
- THD take-up housings 487, 494, 526–529
- fans
 - and metric roller bearing units 666
 - and SONL plummer block housings 366
- felt rolls
 - SBFN felt roll housings 592
 - SNL ... TURP plummer block housings 200
- felt seals
 - applicable housings 30–32
 - for SNL 2, 3, 5 & 6 plummer block housings 64–66, 70, 80
 - for SNLN plummer block housings 160, 162–164, 166, 176
 - installation 51
- felt strips
 - applicable housings 30–32
 - for PD two-bearing housings 558–559
 - for SNL 2, 3, 5 & 6 plummer block housings 64–66, 70
 - installation 51
- fits 45
- flanged housings 23, 25
 - FNL series 531–551
 - FYE series (collar-mount) 694–695, 716–717
 - FYNT series (SKF ConCentra) 662, 688–689
 - FYR(P) series (collar-mount) 694–695, 718–721
 - housing selection 27, 32–33
- flanges 25
- flatness 45
- floating bearing arrangements → cross-located bearing arrangements
- Flowline → SKF Flowline
- flywheels 349
- FNL flanged housings 531–551
 - accessories 544
 - adapter sleeve mounting 539, 546–551
 - alignment 536
 - attachment bolt recommendations 541, 544
 - axial loads 540
 - axial shaft displacement 538
 - bearing types and dimension series 531
 - breaking loads 540

- compared with other non-split housings 32
- condition monitoring 544
- contamination 538
- corrosion protection 536
- cover bolts 544
- covers 535
- design considerations 539–541
- designation systems 533–534
- designs and variants 535–537
- dimension standards 537
- features and benefits 536
- grease escape holes 537, 542
- grease fittings 542
- grease guiding system 536, 543
- housing selection 32
- initial grease fills 542
- interchangeability 537
- ISO standards 536, 541
- load carrying capacity 540
- locating (stabilizing) rings 534, 539
- locating and non-locating bearing positions 539
- lubrication 542–543
- materials 536, 538, 540
- misalignment 538
- mounting 536, 544
- operating speed 538, 541
- operating temperature 538, 540
- ordering information 545
- paint specifications 536, 540
- plugs 542
- product tables 546–551
- relubrication 536, 542–543
- sealing solutions 533, 538
- shaft diameter range 531
- shaft specifications 538
- shaft-bearing combinations 539
- support 540
- torque specifications 544
- vertical shaft arrangements 538
- four-lip seals
 - applicable housings 30
 - for SNL 2, 3, 5 & 6 plummer block housings 64–66, 78, 80
 - for SNLN plummer block housings 160, 162, 173, 176
 - grease escape holes 46
- front side 598–599
- FSDR .. K mill trunnion housings 639–657
 - accessories 653
 - alignment 643
 - attachment bolt holes 642
 - attachment bolt recommendations 649
 - axial shaft displacement 646, 648
 - bearing types and dimension series 639
 - cap bolts 649
 - compared with other application-specific housings 34
 - condition monitoring 653
 - contamination 646
 - corrosion protection 644
 - cover bolts 652
 - covers 642–643, 645
 - design considerations 648–649
 - designation systems 641
 - designs and variants 642–644
 - dimension standards 644
 - eye bolts and lifting holes 642, 652
 - features and benefits 642–643
 - initial grease fills 650
 - ISO standards 644, 649, 652, 653
 - load carrying capacity 648, 652
 - locating and non-locating bearing positions 648
 - lubrication 643, 650–651, 653
 - materials 644, 646, 649
 - misalignment 646
 - mounting 652
 - operating speed 646, 649
 - operating temperature 646, 649
 - ordering information 654

Note: Designation prefixes and suffixes for housings, pillow blocks and units are shown in **bold**.

18.1 Text index

paint specifications 644, 649
 product tables 656–657
 relubrication 643, 651
 sealing solutions 642–643, 645–647, 650–651
 shaft diameter range 639
 shaft specifications 646, 649
 shaft-bearing combinations 648
 stops 648, 652
 support 648, 652
 torque specifications 649, 652
 ventilating valves 643, 652
 FYE flanged units → inch roller bearing units
 FYNT flanged units → metric roller bearing units
 FYR(P) flanged units → inch roller bearing units

G

G

SBD plummer block housings 487, 493, 495, 520–525
 SED plummer block housings 333
 SNL 30, 31 & 32 plummer block housings 191, 200, 202
 gap-type seals
 applicable housings 34
 for SDM Yankee cylinder housings 596–597
 garter spring seals → radial shaft (contact) seals
 geometrical tolerances 45
 grease escape holes 25, 46
 grease fills → initial grease fills
 grease fitting kits 145, 148
 grease fittings 25
 caps and tags 48–49
 grease guiding system
 in FNL flanged housings 536, 543
 in SE plummer block housings 146
 in SNL 2, 3, 5 & 6 plummer block housings 60, 80
 in SNLN plummer block housings 156, 174
 grease lubrication 46
 applicable housings 30–34
 for the SKF three-barrier solution 39
 in FNL flanged housings 542–543
 in FSDR .. K mill trunnion housings 650–651
 in PD two-bearing housings 567, 569
 in SAF pillow blocks 400–401, 408–410
 in SAW pillow blocks 400–401, 408–410
 in SBD plummer block housings 490, 498–501
 in SDAF pillow blocks 456–457, 460, 467–468
 in SED plummer block housings 342
 in SNL 2, 3, 5 & 6 plummer block housings 78–81
 in SNL 30, 31 & 32 plummer block housings 197–198, 212–215, 221
 in SNLN plummer block housings 173–176
 in THD take-up housings 490, 498–501
 SKF tools and products 47–49
 grease meters 47
 grease sampling slots 631
 grey cast iron
 applicable housings 30–34
 material properties 29
 grinding mills → mills
 grub (set) screws
 in inch roller bearing units 696, 704, 707
 in metric roller bearing units 662–664, 672, 682
 guide rings
 for FNL flanged housings 537, 540
 for FYNT flanged units (SKF ConCentra) 683

H

H

FYE flanged units (collar-mount) 693, 700
 FYR(P) flanged units (collar-mount) 693, 700
 SYE pillow block units (SKF ConCentra / collar-mount) 693, 700
 SYR pillow block units (SKF ConCentra / collar-mount) 693, 700
 high-temperature seals
 for SAF pillow blocks 401
 for SAW pillow blocks 401
 for SDAF pillow blocks 462
 for SNL 2, 3, 5 & 6 plummer block housings 70
 for SNLN plummer block housings 166
 housing bodies 25
 housing bore 25
 housing seats 25
 housings
 assortment 27–34, 36
 design considerations 40–45
 function 22
 selection process 35
 terminology 22–26
 humidity
 under operating conditions 37
 under storage conditions 52
 HYDROCAM hydraulic bolt tensioners 50

I

imbalance 44
 inch housings
 FYE flanged units (collar-mount) 694–695, 716–717
 FYR(P) flanged units (collar-mount) 694–695, 718–721
 SAF pillow blocks 383–447
 SAW pillow blocks 383–447
 SDAF pillow blocks 449–483
 SYE pillow block units (SKF ConCentra / collar-mount) 694, 708–715
 SYR pillow block units (SKF ConCentra / collar-mount) 694, 708–715
 inch roller bearing units 690–721
 accessories 707
 attachment bolt holes 696
 attachment bolt recommendations 705, 708–721
 axial loads 703–704
 axial shaft displacement 699–700
 bearing life 700–701
 bearing types and dimension series 691
 condition monitoring 707
 contamination 699
 corrosion protection 697
 design considerations 700–705
 designation system 693
 designs and variants 694–697
 features and benefits 696–697
 flanged housings (piloted) 694–695, 718–721
 flanged housings (round) 694–695, 718–721
 flanged housings (square) 694–695, 716–717
 grease fittings 706, 707
 initial grease fills 706
 internal clearance 704
 ISO standards 697, 707
 load carrying capacity 703–704
 locating and non-locating bearing positions 700
 lubrication 706–707
 markings 696
 materials 697, 699, 705
 misalignment 699
 mounting 696, 707
 operating speed 699, 705
 operating temperature 699, 705

Note: Designation prefixes and suffixes for housings, pillow blocks and units are shown in **bold**.

ordering information 707
 paint specifications 697, 705
 pillow block housings (four-bolt) 694, 714–715
 pillow block housings (two-bolt) 694, 708–713
 product tables 708–721
 relubrication 706–707
 ribs 696
 safe loads 702–703
 sealing solutions 697–699
 set (grub) screws 696, 704, 707
 shaft diameter range 691
 shaft specifications 705
 shaft-bearing combinations 700
 stiffness 696
 support 703
 torque specifications 704
 vertical shaft arrangements 699
 inch shafts (for metric housings)
 for SNL 2, 3, 5 & 6 plummer block housings 58, 100–118
 for SNL 30, 31 & 32 plummer block housings 198, 260–301
 inch thread connections
 for FSDR .. K mill trunnion housings 644
 for SBFN felt roll housings 594, 604
 for SBPN drying cylinder housings 594, 604, 610–613
 for SDM Yankee cylinder housings 594, 604, 618–621
 induced loads 41
 initial grease fills 46
 for the SKF three-barrier solution 39
 inspection 52
 installation → mounting
 interchangeability
 between housings and bearing units 35
 between SKF and non-SKF plummer block housings 30–31
 ISO standards
 for corrosivity categories 36–37
 for plummer (pillow) block housings 30–31
 for support surfaces 45

K

K 641, 648

L

L
 FYNT flanged units (SKF ConCentra) 661, 670
 SBD plummer block housings 487, 494, 502–525
 SED plummer block housings 333, 338
 SKND converter trunnion housings 625, 626, 631
 SNL 30, 31 & 32 plummer block housings 191, 204
 SYNT plummer block units (SKF ConCentra) 661, 670
 THD take-up housings 487, 494, 526–529
 labyrinth seals
 applicable housings 30–34
 for inch roller bearing units 697–699
 for metric roller bearing units 667–668
 for SBD plummer block housings 490–491
 for SDAF pillow blocks 454–460, 462
 for SNL 2, 3, 5 & 6 plummer block housings 64–66
 for SNL 30, 31 & 32 plummer block housings 196–198, 200, 212
 for SNLN plummer block housings 160, 163–164, 173
 for SONL plummer block housings 356–357, 362, 364
 for THD take-up housings 490–491
 for the SKF three-barrier solution 39
 lip seals
 applicable housings 30–34
 grease escape holes 46
 load carrying capacity 44
 locating (stabilizing) rings 25
 for CARB toroidal roller bearings 41, 51
 in locating/non-locating bearing arrangements 40

mounting considerations 50–51
 locating bearing position 40–41
 locating/non-locating bearing arrangements 40
 lock nuts 25
 lock washers 24
 locking collar method 696
 locking collars 696, 707
 locking methods
 locking collar method 696
 per roller bearing unit series 33
 SKF ConCentra (inch) 696
 SKF ConCentra (metric) 663
 low friction seals 536, 538
 lubrication 46
 per housing series 30–34
 SKF tools and products 47–49

M

machined recesses → centring recesses
 magnetic plugs 354, 365
 materials 29
 per housing series 30–34
 metric roller bearing units (SKF ConCentra) 659–689
 accessories 684
 applications 666
 attachment bolt holes 662, 664
 attachment bolt recommendations 674
 axial loads 672, 673, 684
 axial shaft displacement 668, 670
 bearing life 670
 bearing types and dimension series 659
 breaking loads 670–672
 compared with other roller bearing units 33
 condition monitoring 684
 corrosion protection 665
 design considerations 670–674
 designation systems 661
 designs and variants 662–666
 dimension standards 665
 dimples 664
 dowel pins and holes 673, 682–683
 flanged housings 662, 688–689
 grub (set) screws 662–664, 672, 682
 guide rings 683
 initial grease fills 675
 interchangeability 665
 internal clearance 663, 673
 ISO standards 665, 673, 674
 load carrying capacity 670–673, 683
 locating and non-locating bearing positions 670
 lubrication 675–681, 684
 markings 664
 mounting 663, 664, 682–683
 ordering information 685
 paint specifications 665, 673
 plummer block housings 662, 686–687
 product tables 686–689
 relubrication 675–679
 relubrication-free units 666, 675, 680–681
 safety factors 670
 sealing solutions 667–669
 shaft diameter range 659
 shaft end lengths 669
 shaft specifications 673
 shaft-bearing combinations 670
 stiffness 664
 torque specifications 674, 682
 vertical shaft arrangements 668, 678
 mills
 FSDR .. K mill trunnion housings 639–657
 SED plummer block housings 331
 misalignment
 considerations for bearing selection 40–41

Note: Designation prefixes and suffixes for housings, pillow blocks and units are shown in **bold**.

18.1 Text index

considerations for seal selection 36
 mounting 50–51
 for various shaft-bearing combinations 42–43
 from the end of a shaft 27
 mounting collars
 for inch roller bearing units 696, 707
 for metric roller bearing units 662–663

MS1

SE plummer block housings 141
 SNL 2, 3, 5 & 6 plummer block housings 57, 62–63
 SNLN plummer block housings 153, 158–159

MS2

SE plummer block housings 141
 SNL 2, 3, 5 & 6 plummer block housings 57, 63
 SNLN plummer block housings 153, 158–159

MultiPoint → SKF MultiPoint

multi-seals 30–31

N

N

inch roller bearing units 693, 694, 708–713

N9

FSDR .. K mill trunnion housings 641, 644
 SBFN felt roll housings 591, 594, 604
 SBPN drying cylinder housings 591, 594, 604, 610–613
 SDM Yankee cylinder housings 591, 594, 604, 618–621

non-locating bearing position 40–41

non-split housings 23

FNL flanged housings 535
 housing selection 27, 32
 PD two-bearing housings 557
 SBD plummer block housings 488
 SBFN felt roll housings 592
 SBPN drying cylinder housings 592
 THD take-up housings 488

O

oil bath lubrication

 in PD two-bearing housings 567
 in SAF pillow blocks 411–413
 in SAW pillow blocks 411
 in SDAF pillow blocks 468
 in SNL 30, 31 & 32 plummer block housings 198, 215–217
 in SONL plummer block housings 356, 364–367
 inspection 52

oil circulating units 366

oil cooling tubes 352, 365–366

oil inlet holes 24

oil level gauges 24, 26

 for SONL plummer block housings 354, 362, 364–365

oil levellers 48

oil levels

 in SAF pillow blocks 412–413
 in SAW pillow blocks 411
 in SNL 30, 31 & 32 plummer block housings 216–218
 in SONL plummer block housings 356, 364–365, 367

oil lubrication

 applicable housings 30–34
 in PD two-bearing housings 567
 in SAF pillow blocks 411–414
 in SAW pillow blocks 411–414
 in SBFN felt roll housings 602
 in SBPN drying cylinder housings 602
 in SDAF pillow blocks 456–457, 468–469
 in SDM Yankee cylinder housings 602
 in SED plummer block housings 342
 in SNL 2, 3, 5 & 6 plummer block housings 64
 in SNL 30, 31 & 32 plummer block housings 197–198, 215–218
 in SONL plummer block housings 356, 364–367

oil outlet holes 24

oil pick-up rings 352, 356, 364–365

oil reservoirs → oil sumps

oil seals

 for SNL 2, 3, 5 & 6 plummer block housings 64
 for SNL 30, 31 & 32 plummer block housings 198, 215

oil sumps

 in SAF pillow blocks 387, 410
 in SAW pillow blocks 387, 410
 in SDAF pillow blocks 468–469
 in SNL 2, 3, 5 & 6 plummer block housings 64
 in SONL plummer block housings 354, 356, 364

one-piece housings → non-split housings

operating speed

 conversion table 37–38
 effect on initial grease fills 46

ordering

FNL flanged housings 545
 FSDR .. K mill trunnion housings 654
 FYE flanged units (collar-mount) 707
 FYNT flanged units (SKF ConCentra) 685
 FYR(P) flanged units (collar-mount) 707
 PD two-bearing housings 570
 SAF pillow blocks 416
 SAW pillow blocks 416
 SBD plummer block housings 501
 SBFN felt roll housings 605
 SBPN drying cylinder housings 605
 SDAF pillow blocks 470
 SDM Yankee cylinder housings 605
 SE plummer block housings 149
 SED plummer block housings 343
 SKND converter trunnion housings 633
 SNL 2, 3, 5 & 6 plummer block housings 84
 SNL 30, 31 & 32 plummer block housings 221
 SNLN plummer block housings 179
 SONL plummer block housings 369
 SYE pillow block units (SKF ConCentra / collar-mount) 707
 SYNT plummer block units (SKF ConCentra) 685
 SYR pillow block units (SKF ConCentra / collar-mount) 707
 THD take-up housings 501

O-rings

 for PD two-bearing housings 562
 for SAF pillow blocks 392–398, 400–401
 for SAW pillow blocks 392–398, 400–401
 for SDAF pillow blocks 454–455, 458, 462
 for SED plummer block housings 349
 for SONL plummer block housings 356, 359

outer ring rotation 678

overhanging loads 28

P

P 533, 537

P..

FSDR .. K mill trunnion housings 641, 644
 SBFN felt roll housings 591, 594
 SBPN drying cylinder housings 591, 594
 SDM Yankee cylinder housings 591, 594
 SED plummer block housings 333

painting 36

paper machines

 SBFN felt roll housings 592
 SBPN drying cylinder housings 592, 606–613
 SDM Yankee cylinder housings 592–593, 614–621
 SNL ... TURP plummer block housings 200
 SONL plummer block housings 349

PD two-bearing housings 552–587

 accessories 569

 attachment bolt holes 557

 attachment bolt recommendations 566

 axial loads 560, 562, 564, 568

 bearing arrangements 560–563

 bearing types and dimension series 553, 555–556

Note: Designation prefixes and suffixes for housings, pillow blocks and units are shown in **bold**.

- compared with other non-split housings 32
 - condition monitoring 569
 - contamination 559
 - corrosion protection 557
 - cover bolts 557, 566
 - design considerations 560–566
 - designation systems 555–556
 - designs and variants 557–558
 - dimension standards 557
 - eye bolts 557, 575–579
 - features and benefits 557
 - flinger rings 567
 - grease fittings 567
 - housing selection 28
 - initial grease fills 567
 - ISO standards 557, 566, 568
 - load carrying capacity 557, 560, 562, 564
 - lubrication 558, 567, 569
 - markings 568
 - materials 557, 559, 564
 - misalignment 557
 - mounting 568
 - operating speed 559, 564
 - operating temperature 559, 564
 - ordering information 570
 - paint specifications 557, 564
 - PDN series 557, 560–562, 568, 572–575
 - PDP series 557, 560–561, 576–577
 - PDR series 557, 562, 578–579
 - product tables 572–587
 - sealing solutions 558–559
 - shaft specifications 559, 564–565, 580–587
 - shaft-bearing combinations 560
 - torque specifications 566
 - units 556, 567, 568, 432–439
 - vertical shaft arrangements 558, 567
 - PD two-bearing units 556, 567, 568, 432–439
 - peripheral speeds → circumferential speeds
 - permissible speed → operating speed
 - perpendicularity 45
 - pick-up rings → oil pick-up rings
 - pillow (plummer) block housings 24–25
 - FSDR .. K series 639–657
 - SAF series 383–447
 - SAW series 383–447
 - SBD series 485–525
 - SDAF series 449–483
 - SE series 139–149
 - SED series 331–347
 - SKND series 623–637
 - SNL 2, 3, 5 & 6 series 55–137
 - SNL 30, 31 & 32 series 189–329
 - SNLN series 151–187
 - SONL series 349–381
 - split versus non-split 27
 - SYE series (SKF ConCentra / collar-mount) 694, 708–715
 - SYNT series (SKF ConCentra) 662, 686–687
 - SYR series (SKF ConCentra / collar-mount) 694, 708–715
 - plain shafts 42
 - plugs 25
 - plummer (pillow) block housings 24–25
 - FSDR .. K series 639–657
 - SAF series 383–447
 - SAW series 383–447
 - SBD series 485–525
 - SDAF series 449–483
 - SE series 139–149
 - SED series 331–347
 - SKND series 623–637
 - SNL 2, 3, 5 & 6 series 55–137
 - SNL 30, 31 & 32 series 189–329
 - SNLN series 151–187
 - SONL series 349–381
 - split versus non-split 27
 - SYE series (SKF ConCentra / collar-mount) 694, 708–715
 - SYNT series (SKF ConCentra) 662, 686–687
 - SYR series (SKF ConCentra / collar-mount) 694, 708–715
 - pollution 37
 - Pop Release units → SKF ConCentra roller bearing units
 - PosiTrac (Plus) seals
 - for SAF pillow blocks 389–390, 400
 - for SAW pillow blocks 389–390, 400
 - for SDAF pillow blocks 454–456, 460
 - power generators 349
 - pry slots
 - in SAF pillow blocks 387
 - in SAW pillow blocks 387
 - in SE plummer block housings 145
 - pumps 366
- ## R
- ### RA
- SBFN felt roll housings 591, 598
 - SBPN drying cylinder housings 591, 598, 606–613
 - SDM Yankee cylinder housings 591, 598, 614–621
 - SONL plummer block housings 351, 356, 367
 - radial shaft (contact) seals
 - applicable housings 30–31, 33
 - for inch roller bearing units 697–699
 - for metric roller bearing units 667–668
 - for SAF pillow blocks 389–400
 - for SAW pillow blocks 389–400
 - for SDAF pillow blocks 454–462
 - ready-to-mount
 - inch roller bearing units 696
 - metric roller bearing units 664
 - PD two-bearing units 557
 - recesses → centring recesses
 - relubrication 46
 - relubrication holes 26
 - relubrication-free 666, 675, 680–681
 - replacement 30–34
 - rigid bearings 28, 40
 - benefits for PD two-bearing housings 557
 - rocker housings 593, 599
 - roller bearing units 23
 - equivalent housing series 35
 - FYE flanged units (collar-mount) 694–695, 716–717
 - FYNT flanged units (SKF ConCentra) 662, 688–689
 - FYR(P) flanged units (collar-mount) 694–695, 718–721
 - housing selection 28, 33
 - storage 52
 - SYE pillow block units (SKF ConCentra / collar-mount) 694, 708–715
 - SYNT plummer block units (SKF ConCentra) 662, 686–687
 - SYR pillow block units (SKF ConCentra / collar-mount) 694, 708–715
 - roller beds 485
 - rope sheaves 595
 - rotating outer ring load
 - on metric roller bearing units 678
 - on SNL 2, 3, 5 & 6 plummer block housings 64
 - on SNL 30, 31 & 32 plummer block housings 196
 - on SNLN plummer block housings 158
 - on SONL plummer block housings 356
 - rotational speeds 37–38
 - RT** 333, 336, 342
 - runout 45
- ## S
- ### S
- SE plummer block housings 141
 - SNL 2, 3, 5 & 6 plummer block housings 57, 63, 74
 - SNLN plummer block housings 153, 158–159
 - SAF pillow blocks 383–447
 - accessories 415

Note: Designation prefixes and suffixes for housings, pillow blocks and units are shown in **bold**.

18.1 Text index

- adapter sleeve mounting 402, 418–433
- alignment 387
- attachment bolt holes 386
- attachment bolt recommendations 408
- axial loads 403, 407
- axial shaft displacement 390–391
- bearing types and dimension series 383, 385, 401
- cap bolts 403–406
- compared with other split housings 31
- condition monitoring 388, 415
- contamination 390–391, 400–401, 408
- corrosion protection 387
- cylindrical seat mounting 402, 434–447
- design considerations 402–408
- designation system 385
- designs and variants 386–388
- dimples 407, 410, 415
- dowel pins 387, 407
- features and benefits 387
- grease fittings 385
- initial grease fills 408–409
- interchangeability 387
- ISO standards 387, 415
- load carrying capacity 403–407
- locating and non-locating bearing positions 403
- lubrication 387, 390–391, 408–414, 415
- markings 387
- materials 387–388, 390–391, 407
- misalignment 390–391
- mounting 387, 414–415
- operating speed 390–391, 393–399, 401, 407
- operating temperature 390–391, 401, 407
- ordering information 416
- paint specifications 387, 407
- plugs 410
- product tables 418–447
- relubrication 390, 410
- safe loads 403–406
- safety factors 403
- sealing solutions 389–401
- shaft diameter range 383
- shaft end lengths 418–433
- shaft specifications 408
- shaft-bearing combinations 402
- stabilizing (locating) rings 403
- stops 407, 414–415
- support 407, 414
- torque specifications 404–406
- vertical shaft arrangements 390–391
- safe loads 44
- safety factors 44
- SAW pillow blocks 383–447
 - accessories 415
 - adapter sleeve mounting 402, 422–429
 - alignment 387
 - attachment bolt holes 386
 - attachment bolt recommendations 408
 - axial loads 403, 407
 - axial shaft displacement 386, 390–391
 - bearing types and dimension series 383, 385, 401
 - cap bolts 403, 407
 - compared with other split housings 31
 - condition monitoring 388, 415
 - contamination 390–391, 400–401, 408
 - corrosion protection 387
 - cylindrical seat mounting 402, 436–443
 - design considerations 402–408
 - designation system 385
 - designs and variants 386–388
 - dimples 407, 410, 415
 - dowel pins 387, 407
 - features and benefits 387
 - grease fittings 385
 - initial grease fills 408–409
 - interchangeability 387
 - ISO standards 387, 415
 - load carrying capacity 403, 407
 - locating and non-locating bearing positions 403
 - lubrication 387, 390–391, 408–414, 415
 - markings 387
 - materials 387–388, 390–391, 407
 - misalignment 390–391
 - mounting 387, 414–415
 - operating speed 390–391, 393–399, 401, 407
 - operating temperature 390–391, 401, 407
 - ordering information 416
 - paint specifications 387, 407
 - plugs 410
 - product tables 418–447
 - relubrication 390, 410
 - safe loads 403–406
 - safety factors 403
 - sealing solutions 389–401
 - shaft diameter range 383
 - shaft end lengths 418–433
 - shaft specifications 408
 - shaft-bearing combinations 402
 - stabilizing (locating) rings 403
 - stops 407, 414–415
 - support 407, 414
 - torque specifications 404–406
 - vertical shaft arrangements 390–391
- load carrying capacity 403, 407
- locating and non-locating bearing positions 403
- lubrication 387, 390–391, 408–414, 415
- markings 387
- materials 387–388, 390–391, 407
- misalignment 390–391
- mounting 387, 414–415
- operating speed 390–391, 393–399, 401, 407
- operating temperature 390–391, 401, 407
- ordering information 416
- paint specifications 387, 407
- plugs 410
- product tables 422–429, 436–444
- relubrication 390, 410
- safe loads 403, 407
- safety factors 403
- sealing solutions 389–401
- shaft diameter range 383
- shaft end lengths 422–429
- shaft specifications 408
- shaft-bearing combinations 402
- stabilizing (locating) rings 403
- stops 407, 414–415
- support 407, 414
- torque specifications 407
- vertical shaft arrangements 390–391
- SBD plummer block housings 485–525
 - accessories 501
 - adapter rings 487, 490–491, 501
 - adapter sleeve mounting 493, 502–513
 - alignment 489
 - applications 485
 - attachment bolt holes 488
 - attachment bolt recommendations 495, 500
 - axial shaft displacement 491, 494
 - bearing types and dimension series 485, 492
 - breaking loads 494, 496–497
 - compared with other non-split housings 32
 - condition monitoring 501
 - contamination 491–492, 498
 - corrosion protection 489
 - cover bolts 488, 500
 - covers 488, 494
 - cylindrical seat mounting 493, 514–525
 - design considerations 493–497
 - designation systems 487
 - designs and variants 488–490
 - dimension standards 489
 - eye bolts 489, 503–525
 - features and benefits 489
 - grease fittings 498
 - initial grease fills 498–499
 - load carrying capacity 485, 494–497
 - locating and non-locating bearing positions 494
 - lubrication 490, 498–501
 - materials 489, 491, 495
 - misalignment 491
 - mounting 501
 - operating speed 491, 495, 498
 - operating temperature 491, 495, 498
 - ordering information 501
 - paint specifications 489, 495
 - product tables 502–525
 - ribs 488
 - safety factors 494
 - sealing solutions 490–492
 - shaft diameter range 485
 - shaft specifications 491, 495
 - shaft-bearing combinations 493–494
 - stiffness 489
 - stops 489, 494–495
 - support 494–495
 - torque specifications 491, 500
 - withdrawal sleeve mounting 490
- SBF felt roll housings 593, 599
- SBFN felt roll housings 589–605

Note: Designation prefixes and suffixes for housings, pillow blocks and units are shown in **bold**.

- attachment bolt holes 592, 595
- attachment bolt recommendations 601
- bearing types and dimension series 589
- compared with other application-specific housings 34
- condition monitoring 604
- contamination 593, 597
- corrosion protection 593
- design considerations 598–601
- designation system 591
- designs and variants 592–595
- dimension standards 593
- inch thread connections 594, 604
- load carrying capacity 598
- locating and non-locating bearing positions 598–599
- lubrication 602
- materials 593
- misalignment 597
- mounting 592–593, 595, 600, 603
- operating speed 600
- operating temperature 597, 600
- ordering information 605
- paint specifications 593, 594, 600
- sealing solutions 593, 596–597
- shaft diameter range 589
- shaft specifications 597, 600
- shaft-bearing combinations 598
- wet section 594–595
- SBP** drying cylinder housings 593, 599
- SBPN** drying cylinder housings 589–613
 - attachment bolt holes 592
 - attachment bolt recommendations 601
 - bearing types and dimension series 589
 - compared with other application-specific housings 34
 - condition monitoring 604
 - contamination 593, 597
 - corrosion protection 593
 - design considerations 598–601
 - designation system 591
 - designs and variants 592–595
 - dimension standards 593
 - inch thread connections 594, 604, 610–613
 - load carrying capacity 598
 - locating and non-locating bearing positions 598–599
 - lubrication 602
 - materials 593
 - misalignment 597
 - mounting 592, 600, 603
 - operating speed 600
 - operating temperature 597, 600
 - ordering information 605
 - paint specifications 593, 594, 600
 - product tables 606–613
 - rope sheaves 595
 - sealing solutions 593, 596–597
 - shaft diameter range 589
 - shaft specifications 597, 600
 - shaft-bearing combinations 598
 - steam joint connections 594, 605–613
 - torque specifications 601
- SD** plummer block housings 31
- SDAF** pillow blocks 449–483
 - adapter sleeve mounting 462–463, 472–473, 476–479
 - attachment bolt holes 452, 453
 - attachment bolt recommendations 466
 - axial loads 464–465
 - axial shaft displacement 456–457
 - bearing types and dimension series 449, 451
 - cap bolts 464–465, 470
 - compared with other split housings 31
 - condition monitoring 470
 - contamination 456–457, 460, 467
 - corrosion protection 453
 - cylindrical seat mounting 462–463, 474–475, 480–483
 - design considerations 462–466
 - designation system 451
 - designs and variants 452–453
- dowel pins and holes 465
- eye bolts 452
- features and benefits 452
- grease fittings 451
- initial grease fills 467
- interchangeability 452
- ISO standards 453
- load carrying capacity 452, 463–465
- locating and non-locating bearing positions 463
- lubrication 456–457, 467–469
- markings 452
- materials 453, 456–457, 466
- misalignment 456–457
- mounting 470
- operating speed 456–460, 462, 466
- operating temperature 456–457, 462, 466, 469
- ordering information 470
- paint specifications 453, 466
- plugs 468
- product tables 472–483
- safe loads 464–465
- sealing solutions 454–462
- shaft diameter range 449
- shaft specifications 466
- shaft-bearing combinations 462–463
- stabilizing (locating) rings 463
- stiffness 452
- stops 465, 470
- support 465, 470
- torque specifications 464–465
- vertical shaft arrangements 456–457
- SDD** plummer block housings 31
- SDM** Yankee cylinder housings 589–605, 614–621
 - attachment bolt holes 592
 - attachment bolt recommendations 601
 - bearing types and dimension series 589
 - cap bolts 601
 - compared with other application-specific housings 34
 - condition monitoring 604
 - contamination 597
 - corrosion protection 593
 - design considerations 598–601
 - designation system 591
 - designs and variants 592–595
 - dimension standards 593
 - inch thread connections 594, 604, 618–621
 - load carrying capacity 598–599
 - locating and non-locating bearing positions 598–599
 - lubrication 602
 - materials 593
 - misalignment 597
 - mounting 592, 600, 603
 - operating speed 600
 - operating temperature 597, 600
 - ordering information 605
 - paint specifications 593, 594, 600
 - product tables 614–621
 - rockers 593, 599
 - sealing solutions 593, 596–597
 - shaft diameter range 589
 - shaft specifications 597, 600
 - shaft-bearing combinations 598
 - steam joint connections 594
 - torque specifications 601
- SE** plummer block housings 139–149
 - attachment bolt holes 62–63, 143, 144
 - attachment bolt recommendations 62, 77
 - bearing types and dimension series 139
 - breaking loads 75
 - compared with other split housings 30
 - corrosion protection 147, 148
 - design 143–148
 - design considerations 148
 - designation systems 141–142
 - dimension standards 148
 - dimples 145

Note: Designation prefixes and suffixes for housings, pillow blocks and units are shown in **bold**.

18.1 Text index

- dismounting 145
- dowel pins and holes 82, 145
- features and benefits 144–147
- grease escape holes 81, 147
- grease fitting kits 145, 148
- grease guiding system 146
- initial grease fills 78, 145–146
- interchangeability 144, 148
- ISO standards 147, 148
- locating (stabilizing) rings 142
- lubrication 146
- markings 144–146
- materials 148
- mounting 145
- ordering information 149
- paint specifications 148
- product tables 86–137
- ribs 144
- safe loads 76
- seal groove dimensions 68
- sealing solutions 142
- shaft end lengths 69
- stiffness 144
- torque specifications 62, 77
- seal counterfaces
 - accuracy requirements 45
 - repair possibilities 51
- seal grooves 25
- seal kits 351, 358–359
- sealed bearings
 - in SAF pillow blocks 401, 408
 - in SAW pillow blocks 401, 408
 - in SBD plummer block housings 492
 - in SNL 2, 3, 5 & 6 plummer block housings 68, 78
 - in SNL 30, 31 & 32 plummer block housings 200, 213
 - in SNLN plummer block housings 164, 173
 - in THD take-up housings 492
 - in the SKF three-barrier solution 39
- sealing solutions 36–39
 - installation 51
 - per housing series 30–34
 - SKF three-barrier solution 39
- SED plummer block housings 331–347
 - accessories 343
 - alignment 334–335, 342
 - applications 331
 - attachment bolt holes 334, 336
 - attachment bolt recommendations 340–341
 - compared with other split housings 31
 - condition monitoring 343
 - corrosion protection 336
 - designation systems 333
 - designs and variants 334–336
 - dimension standards 336
 - eye bolts and lifting holes 334–335, 342
 - features and benefits 334–335
 - grease/oil escape holes 334–335, 342
 - grease fittings 342
 - initial grease fills 342
 - ISO standards 336, 339, 340, 342
 - load carrying capacity 338–339, 342
 - locating and non-locating bearing positions 338
 - lubrication 342
 - materials 336, 337, 340
 - mounting 334, 342–343
 - operating speed 337, 340
 - operating temperature 337, 340
 - ordering information 343
 - paint specifications 336, 340
 - product tables 344–347
 - relubrication 337, 342
 - sealing solutions 337
 - shaft specifications 337
 - shaft-bearing combinations 338
 - stiffness 334–335
 - stops 339, 342
 - support 339, 342
 - torque specifications 339, 340, 342
- self-aligning ball bearings
 - applicable housings 30–34
 - in FNL flanged housings 543, 546–551
 - in SAF pillow blocks 410, 414, 418–421, 434–435
 - in SNL 2, 3, 5 & 6 plummer block housings 69, 80, 86–137
 - in SONL plummer block housings 356, 367, 370–381
 - suitability for SKF housings 40
- self-aligning bearing system → SKF self-aligning bearing system
- sensor positions → condition monitoring
- serial numbers
 - on SAF pillow blocks 387
 - on SAW pillow blocks 387
 - on SE plummer block housings 144
 - on SNL 2, 3, 5 & 6 plummer block housings 60–61
 - on SNL 30, 31 & 32 plummer block housings 194
 - on SNLN plummer block housings 157
 - on SONL plummer block housings 355
- set (grub) screws
 - in inch roller bearing units 696, 704, 707
 - in metric roller bearing units 662–664, 672, 682
- shaft abutments 26
 - accuracy requirements 45
- shaft arrangements 25–26
- shaft diameter 24
 - per housing series 30–34
- shaft displacement → axial shaft displacement
- shaft roughness → surface roughness
- shaft sleeves 26
 - for FSDR .. K mill trunnion housings 645
 - for PD two-bearing housings 570
 - for SONL plummer block housings 356–359, 360, 362, 364
 - in shaft-bearing combinations 42–43
- shaft-bearing combinations
 - comparison table 42–43
 - per housing series 30–34
- shafts 24
 - specifications 45
- shims 50–51
- SKF ConCentra locking method
 - for inch roller bearing units 696
 - for metric roller bearing units 663
- SKF ConCentra roller bearing units
 - FYNT flanged units (metric) 662, 688–689
 - SYE .. N pillow block units (inch) 694, 708–715
 - SYNT plummer block units (metric) 662, 686–687
 - SYR .. N pillow block units (inch) 694, 708–715
- SKF Flowline 48–49, 366
- SKF Housing Select 35
- SKF Multilube 48–49
- SKF MultiPoint 47
- SKF self-aligning bearing system 41
 - and the SKF three-barrier solution 39
- SKF SPEEDI-SLEEVE 51
- SKF SYSTEM 24 47
- SKF three-barrier solution 39
- SKND converter trunnion housings 623–637
 - accessories 632–633
 - alignment 628
 - attachment bolt holes 626
 - axial loads 623, 632
 - axial shaft displacement 630, 632
 - bearing types and dimension series 623, 626
 - cap bolts 628
 - compared with other application-specific housings 34
 - condition monitoring 632–633
 - contamination 628, 629, 631
 - corrosion protection 629
 - covers 626
 - design considerations 630
 - designation systems 625
 - designs and variants 626–629
 - features and benefits 628
 - grease sampling slots 631

Note: Designation prefixes and suffixes for housings, pillow blocks and units are shown in **bold**.

- initial grease fills 631
- ISO standards 629
- load carrying capacity 630
- locating and non-locating bearing positions 626
- lubrication 631
- materials 629
- mounting 628, 632
- operating temperature 630
- ordering information 633
- paint specifications 629
- product table 634–637
- sealing solutions 629
- stops 632
- support 632
- sleeve mounting
 - accuracy requirements 45
 - applicable housings 30–32, 34
 - axial load carrying capacity 44
 - compared with other shaft-bearing combinations 42–43
 - shaft specifications 45
- slippage 44
- SM-100 Oil Circulating Unit 366
- SN**
 - SNL 2, 3, 5 & 6 plummer block housings 57
 - SNL 30, 31 & 32 plummer block housings 191
 - SNLN plummer block housings 153
- SN plummer block housings 30
- SNA plummer block housings 30
- SNH plummer block housings 30
- SNL 2, 3, 5 & 6 plummer block housings 55–137
 - accessories 60–61, 84
 - adapter sleeve mounting (inch shafts) 72–73, 100–119
 - adapter sleeve mounting (metric shafts) 72–73, 86–99
 - alignment 60
 - attachment bolt holes 59–60, 62–63
 - attachment bolt recommendations 62, 77
 - axial loads 74
 - axial shaft displacement 65, 70
 - bearing types and dimension series 55, 68
 - breaking loads 74–75
 - cap bolts 74, 77
 - compared with other split housings 30
 - condition monitoring 60–61, 83
 - contamination 65–66, 68, 78
 - corrosion protection 61
 - cylindrical seat mounting 72–73, 120–137
 - design considerations 72–77
 - designation systems 57–58
 - designs and variants 59–64
 - dimension standards 61
 - dimples 60–61, 62–63, 78–79
 - dowel pins and holes 60–61, 62, 74, 82
 - equivalent roller bearing units 35
 - eye bolts 60
 - features and benefits 60–61
 - grease escape holes 80–81
 - grease fittings 57, 78–79
 - heat dissipation 60
 - initial grease fills 78
 - interchangeability 60, 61
 - ISO standards 61, 77, 83
 - load carrying capacity 73–77, 82
 - locating (stabilizing) rings 58, 72
 - locating and non-locating bearing positions 72
 - lubrication 64, 78–81, 84
 - markings 60–61
 - materials 61, 62, 65, 74
 - misalignment 65–66, 70
 - mounting 60–61, 66, 82
 - operating speed 65–66, 70, 74, 78
 - operating temperature 65–66, 68, 70, 74
 - ordering information 84
 - paint specifications 61, 74
 - plugs 78–79
 - product tables 86–137
 - relubrication 60, 78–81
 - ribs 60
 - safe loads 74, 76
 - safety factors 74
 - seal groove dimensions 68
 - sealing solutions 58, 64–71, 80–81
 - shaft diameter range 55
 - shaft end lengths 69
 - shaft specifications 65, 69, 70
 - shaft-bearing combinations 72–73
 - splash plates 80–81
 - stiffness 60
 - stops 74, 82
 - support 74, 82
 - support rings 66–67
 - torque specifications 62, 77
 - vertical shaft arrangements 65–66
 - vibration 64
 - withdrawal sleeve mounting 72–73
- SNL 30, 31 & 32 plummer block housings 189–329
 - accessories 194–195, 221
 - adapter sleeve mounting (inch shafts) 203, 260–301
 - adapter sleeve mounting (metric shafts) 203, 222–259
 - alignment 194–195
 - attachment bolt holes 193–194
 - attachment bolt recommendations 210–212, 212
 - axial shaft displacement 197–198, 200
 - bearing types and dimension series 189
 - breaking loads 204–206
 - cap bolts 210–211
 - compared with other split housings 31
 - condition monitoring 194–195, 220
 - contamination 197–198, 200, 212
 - cylindrical seat mounting 203, 302–329
 - design considerations 203–212
 - designation systems 191–192
 - designs and variants 193–196
 - dimension standards 195
 - dimples 194–195, 213
 - dowel pins and holes 195, 204, 219
 - eye bolts 194, 223–329
 - features and benefits 194
 - grease escape holes 214–215
 - grease fittings 213
 - heat dissipation 194
 - initial grease fills 212–213
 - interchangeability 194, 195
 - ISO standards 195, 212, 220
 - load carrying capacity 204–211, 219
 - locating (stabilizing) rings 192, 204
 - locating and non-locating bearing positions 204
 - lubrication 197–198, 212–218
 - markings 194–195, 212
 - materials 195–196, 197, 212
 - misalignment 197
 - mounting 194, 219
 - operating speed 197, 212
 - operating temperature 197, 212
 - ordering information 221
 - paint specifications 195, 212
 - plugs 213
 - product tables 222–329
 - relubrication 197, 212, 213–214
 - ribs 194
 - safe loads 204, 207–209
 - safety factors 204
 - seal groove dimensions 201–202
 - sealing solutions 196–202
 - shaft diameter range 189
 - shaft end lengths 199
 - shaft specifications 197, 199
 - shaft-bearing combinations 203
 - stiffness 194
 - stops 204, 219
 - support 204, 219
 - torque specifications 210–211
 - vertical shaft arrangements 197

Note: Designation prefixes and suffixes for housings, pillow blocks and units are shown in **bold**.

18.1 Text index

- vibration 196
- withdrawal sleeve mounting 203
- SNLN plummer block housings 151–187
 - accessories 157, 178
 - adapter sleeve mounting 168–169, 180–183
 - alignment 157
 - attachment bolt holes 155–156, 158–159
 - attachment bolt recommendations 171–172
 - axial loads 171
 - axial shaft displacement 162–163, 166
 - bearing types and dimension series 151, 164
 - breaking loads 170–171
 - cap bolts 171–172
 - compared with other split housings 30
 - condition monitoring 157, 178
 - contamination 162–163, 164, 173
 - corrosion protection 158
 - cylindrical seat mounting 168–169, 184–187
 - design considerations 168–172
 - designation systems 153–154
 - designs and variants 155–159
 - dimension standards 158
 - dimples 157, 174–175, 177
 - dowel pins and holes 157, 171, 177
 - eye bolts 157
 - grease escape holes 176
 - grease fittings 153, 174–175
 - heat dissipation 156
 - initial grease fills 173
 - interchangeability 157, 158
 - ISO standards 158, 172, 178
 - load carrying capacity 170–172, 177
 - locating (stabilizing) rings 154, 168
 - locating and non-locating bearing positions 168
 - lubrication 173–176, 178
 - markings 157
 - materials 158, 162–163
 - misalignment 162–163, 166
 - mounting 157, 177
 - operating speed 162–164, 166, 172, 173
 - operating temperature 162–164, 166, 172
 - ordering information 179
 - paint specifications 158, 172
 - plugs 174–175
 - product tables 180–187
 - relubrication 156, 174–176
 - ribs 156
 - seal groove dimensions 167
 - sealing solutions 154, 160–167, 176
 - shaft diameter range 151
 - shaft end lengths 165
 - shaft specifications 162–163, 165, 166
 - shaft-bearing combinations 168–169
 - spacer sleeves 168
 - splash plates 176
 - stiffness 156
 - stops 171, 177
 - support rings 161
 - torque specifications 171
 - vertical shaft arrangements 161, 162–163
 - vibration 158
 - withdrawal sleeve mounting 168–169
- SOFN plummer block housings 31
- SONL plummer block housings 349–381
 - accessories 369
 - adapter sleeve mounting (inch shafts) 356, 360, 362, 374–377
 - adapter sleeve mounting (metric shafts) 356, 360, 362, 370–373
 - alignment 354
 - attachment bolt holes 353
 - attachment bolt recommendations 363
 - axial loads 362
 - axial shaft displacement 357
 - bearing types and dimension series 349
 - breaking loads 361–362
 - cap bolts 362–363
 - compared with other split housings 31
 - condition monitoring 368–369
 - contamination 365
 - corrosion protection 355
 - cylindrical seat mounting 356, 360, 378–381
 - design considerations 360–363
 - designation systems 351–352
 - designs and variants 353–356
 - dimension standards 355
 - dimples 354
 - dowel pins and holes 354, 362, 368
 - eye bolts 354, 371–377
 - features and benefits 354–355
 - interchangeability 355
 - ISO standards 355, 363, 368–369
 - load carrying capacity 361–362, 368
 - locating (stabilizing) rings 352, 360
 - locating and non-locating bearing positions 360
 - lubrication 356, 364–367
 - magnetic plugs 354, 365
 - markings 355, 364
 - materials 355–356, 357, 362
 - misalignment 357
 - mounting 354, 368
 - oil fills 364
 - oil inlet holes 367
 - oil level 356, 364–365, 367
 - oil level gauges 352, 354, 362, 364–365
 - oil outlet holes 365, 367
 - operating speed 362, 366
 - operating temperature 354, 356, 357, 362
 - ordering information 369
 - paint specifications 355, 362
 - product tables 370–381
 - sealing solutions 351, 356–359
 - shaft diameter range 349
 - shaft specifications 357, 362
 - shaft-bearing combinations 360
 - start-up 364–365
 - stops 362, 368
 - torque specifications 363
- spacer sleeves 26
 - axial location 42–43
- spacing washers 534, 539
- speed → operating speed
- spherical roller bearings
 - applicable housings 30–34
 - in FNL flanged housings 539, 543, 546–551
 - in PD two-bearing housings 556, 562–563
 - in SAF pillow blocks 410, 414, 422–429, 436–443
 - in SAW pillow blocks 410, 414, 422–429, 436–443
 - in SBD plummer block housings 492, 498, 502–525
 - in SBFN felt roll housings 592, 598–599
 - in SBPN drying cylinder housings 592, 598–599, 606–621
 - in SDAF pillow blocks 468, 472–483
 - in SDM Yankee cylinder housings 592, 598–599, 606–621
 - in SKND converter trunnion housings 626–627, 634–637
 - in SNL 2, 3, 5 & 6 plummer block housings 80, 86–137
 - in SNLN plummer block housings 174, 180–187
 - in SONL plummer block housings 356, 367, 370–381
 - in THD take-up housings 492, 498, 526–529
 - in the SKF self-aligning bearing system 41
 - relubrication via the outer ring 46
 - suitability for SKF housings 40
- spheroidal graphite cast iron (ductile iron)
 - applicable housings 30–32, 34
 - material properties 29
- split housings 23
 - FSDR .. K mill trunnion housings 642
 - housing selection 27, 30–31
 - load carrying capacity 44
 - SAF pillow blocks 386
 - SAW pillow blocks 386
 - SDAF pillow blocks 452
 - SDM Yankee cylinder housings 592

Note: Designation prefixes and suffixes for housings, pillow blocks and units are shown in **bold**.

SE plummer block housings 143
SED plummer block housings 334
SKND converter trunnion housings 626
SNL 2, 3, 5 & 6 plummer block housings 59
SNL 30, 31 & 32 plummer block housings 193
SNLN plummer block housings 155
SONL plummer block housings 353
split seals 51
split spherical roller bearings 626
split surfaces 24
stabilizing (locating) rings 25
 for CARB toroidal roller bearings 41, 51
 in locating/non-locating bearing systems 40
 mounting considerations 50–51
steam joint connections
 for SBPN drying cylinder housings 594, 605–613
 for SDM Yankee cylinder housings 594
steel converters → SKND converter trunnion housings
stepped shafts 42–43
stepped sleeves
 for inch roller bearing units 696
 for metric roller bearing units 662–663
stick-slip 41
storage 52
sumps → oil sumps
Superbolt tensioners
 for SED plummer block housings 334–335, 339, 340
 for SKND converter trunnion housings 628
support surfaces 24
 specifications 45
surface roughness 45
SYE pillow block units → inch roller bearing units
SYNT plummer block units → metric roller bearing units (SKF ConCentra)
SYR pillow block units → inch roller bearing units
SYSTEM 24 → SKF SYSTEM 24

T

T

SAF pillow blocks 385
SAW pillow blocks 385
SDAF pillow blocks 451, 461
SE plummer block housings 141
SNL 2, 3, 5 & 6 plummer block housings 57, 70
SNL 30, 31 & 32 plummer block housings 191
SNLN plummer block housings 153, 166

T(V)A

SAF pillow blocks 385
SAW pillow blocks 385
SDAF pillow blocks 451

T(V)B

SAF pillow blocks 385
SAW pillow blocks 385
SDAF pillow blocks 451

taconite seals

applicable housings 30–31
for SBD plummer block housings 490, 492
for SDAF pillow blocks 454–461
for SNL 2, 3, 5 & 6 plummer block housings 64–66, 70, 78
for SNL 30, 31 & 32 plummer block housings 196–198, 200, 212
for SNLN plummer block housings 154, 160, 163–164, 166
for THD take-up housings 490, 492
for the SKF three-barrier solution 39

take-up housings → THD take-up housings

tapered seat mounting 34

TD

SE plummer block housings 141
SNL 2, 3, 5 & 6 plummer block housings 57, 70
SNL 30, 31 & 32 plummer block housings 191
SNLN plummer block housings 153, 166

temperature → operating temperature

terminology 22–26

textile machines 666

TF 661, 666

THD take-up housings 485–501, 526–529

accessories 501
adapter rings 487, 490–491, 501
adapter sleeve mounting 493, 526–529
applications 485
axial shaft displacement 491, 494
bearing types and dimension series 485, 492
breaking loads 494
compared with other non-split housings 28, 32
condition monitoring 501
contamination 491–492, 498
corrosion protection 489
cover bolts 488, 500
covers 488, 494
design considerations 493–497
designation systems 487
designs and variants 488–490
dimension standards 489
features and benefits 489
grease fittings 498
initial grease fills 498–499
load carrying capacity 485, 494
locating and non-locating bearing positions 494
lubrication 490, 498–501
materials 489, 491, 495
misalignment 491
mounting 501
operating speed 491, 495, 498
operating temperature 491, 495, 498
ordering information 501
paint specifications 489, 495
product tables 526–529
safety factors 494
sealing solutions 490–492
shaft diameter range 485
shaft specifications 491, 495
shaft-bearing combinations 493–494
stiffness 489
torque specifications 491, 500
thermal elongation 40–41

thermal elongation 40–41

three-barrier solution → SKF three-barrier solution

TLC 385

torque wrenches 50

TriGard seals 697–699

triple ring seals 400

triple-lip seals 697–699

trunnion bearing housings

 for converters in steel making 623–637

 for grinding mills 639–657

TS 661, 666

TURA 191, 198, 215–217

TURP 191, 200, 215

TURT 191, 198, 215–218

TURU 57, 64

TV

SAF pillow blocks 385

SAW pillow blocks 385

SDAF pillow blocks 451

two-bearing housings → PD two-bearing housings

U

U 556

unit conversion table 10

units

 inch roller bearing units 690–721

 metric roller bearing units (SKF ConCentra) 659–689

 PD two-bearing units 556, 567, 568, 432–439

unthreaded sleeve mounting 34

Note: Designation prefixes and suffixes for housings, pillow blocks and units are shown in **bold**.

18.1 Text index

V

V

- FNL flanged housings 533, 537, 542
- SE plummer block housings 141, 147
- SED plummer block housings 333
- SNL 2, 3, 5 & 6 plummer block housings 57, 80
- SNL 30, 31 & 32 plummer block housings 191, 214
- SNLN plummer block housings 153, 176
- VC** 625, 626
- ventilating valves 643, 652
- vertical shaft arrangements
 - with FNL flanged housings 538
 - with inch roller bearing units 699
 - with metric roller bearing units 668, 678
 - with SAF pillow blocks 390–391
 - with SAW pillow blocks 390–391
 - with SDAF pillow blocks 456–457
 - with SNL 2, 3, 5 & 6 plummer block housings 65–66
 - with SNL 30, 31 & 32 plummer block housings 197
 - with SNLN plummer block housings 161, 162–163
- vibration
 - and SNL 2, 3, 5 & 6 plummer block housings 64
 - and SNL 30, 31 & 32 plummer block housings 196
 - and SNLN plummer block housings 158
 - and SONL plummer block housings 356
 - and the SKF self-aligning system 41
- vibration analysis 52
- V-ring seals
 - applicable housings 30–32, 34
 - for PD two-bearing housings 558–559
 - for SNL 2, 3, 5 & 6 plummer block housings 64–67, 70, 78, 80–81
 - for SNL 30, 31 & 32 plummer block housings 197–198
 - for SNLN plummer block housings 160–162, 164, 166, 176
- VZ...**
 - SAF pillow blocks 385
 - SAW pillow blocks 385
 - SDAF pillow blocks 451

W

- W** 661, 666
- washing 36
- wave spring washers 557, 560, 564
- wave springs 662–663
- wear sleeves 51
- wet section 594–595
- withdrawal sleeve mounting
 - applicable housings 30–32, 34
 - axial load carrying capacity 44
 - compared with other shaft-bearing combinations 43
 - shaft specifications 45

Y

Y

- FYE flanged units (collar-mount) 693, 698
- FYR(P) flanged units (collar-mount) 693, 698
- SAF pillow blocks 385
- SAW pillow blocks 385
- SDAF pillow blocks 451
- SYE pillow block units (SKF ConCentra / collar-mount) 693, 698
- SYR pillow block units (SKF ConCentra / collar-mount) 693, 698
- Yankee cylinder housings → SDM Yankee cylinder housings

Note: Designation prefixes and suffixes for housings, pillow blocks and units are shown in **bold**.

