Product parameters — Shaft Sleeves / Shaft Seals

Parameter	Typical / recommended values / notes
Primary function	Protect worn or new shafts at the sealing contact; provide a uniform, wear-resistant sealing counterface for lip seals, mechanical seals or packing; facilitate repair without re-machining shaft.
Typical constructions / types	Thin-walled stainless steel repair sleeves (removable flange), press-fit wear sleeves, chrome-plated thin sleeves (Quick Sleeve types), full split sleeves for assembly-ease; sleeves may be removable (flanged) or slip-on.
Common materials	Stainless steel (AISI 304/316), chrome-plated stainless, hard chrome plated steels for wear resistance, sometimes bronze or nickel alloys for specialty service (material depends on corrosion/wear needs).
Standard size coverage (shaft Ø)	Vendor standard ranges vary; examples: SKF Speedi-Sleeve standard range 11.99 mm → 203.33 mm (0.472″ → 8″); Parker references typical shaft coverage from 0.125″ (≈3 mm) up to 16″ (≈406 mm) in rotary/shaft product guidance.
Product / part geometry features	Many sleeves include a detachable/removable assembly flange to allow push-on installation and then removal of the flange; sleeves can be supplied with a finished seal contact surface to minimize directional finish and optimize lip-seal life.
Typical dimensional tolerances & fit	Sleeves are offered in discrete nominal sizes that fit a range of actual shaft diameters (a nominal sleeve size will normally cover a small shaft diameter band so sleeve can be press-fitted without adhesive in many cases). Always refer to the vendor size table for the exact shaft Ø → sleeve part mapping.
Installation tooling & service notes	Many suppliers supply an installation tool and recommend using the supplied assembly sleeve / driver; removable flanges are detached after installation. This enables fast field repair without shaft re-machining.
Where rotating parts mount	Mechanical seal rotating faces and other rotating components can be installed on a sleeve or directly on the shaft depending on design — check seal vendor guidance whether a sleeve is required.
Buyer / procurement expectations	B2B buyers expect: datasheet/PDF, size table (shaft Ø → sleeve part), material spec (grade of SS / plating), surface finish spec for the sealing run, installation tool included or ordered separately, CAD (STEP/DWG), MOQ & lead time.