

Common sizes / typical groove references

Item	Typical/specification (what B2B buyers expect)
Standard cylinder bores / associated rod diameters	Common pneumatic cylinder bores (ISO 15552 / standardized families): 32, 40, 50, 63, 80, 100, 125, 160, 200, 250, 320 mm (rod diameters correspond to piston rod sizes for each series). Smaller round cylinders (compact types) also cover Ø8...63 mm series.
Typical stocked rod seal diameter range	Vendors commonly stock rod seals for rod Ø from ≈6 - 8 mm up to >160 - 200 mm (metric) depending on product family; Trelleborg/SKF/Parker catalogs present continuous metric coverage for standard pneumatic sizes.
Example ordering format shown in catalogs	Typical format: d (rod Ø) × D (housing ID/OD) × L (axial groove width / height) or simplified as “Rod Ø — profile code — material” ; example: “d = 50 mm — Rod seal STD-R — ECOPUR / NBR — L = 8.3 mm” . Catalogs show the exact d×D×L values per profile.
Typical groove / gland references	Use the manufacturer’ s gland-dimension table (each profile has precise D, d, L, chamfer/c values and allowable extrusion gaps). Do not rely on a universal groove — always reference the profile drawing in the catalog.
Example groove / finish values	Catalogs commonly list sliding surface roughness ≤ 2.5 μm Rt (Ra 0.05 - 0.3 μm) and bottom/groove allowances ≤6.3 μm etc. ; they also specify chamfer angles and Rmax for rod edges.
Rod wipers / scrapers (recommended pairing)	For pneumatic rods, always include a rod wiper/scrapper (separate profile) to remove contaminants before they reach the rod seal — vendors sell matched wipers sized to the same rod Ø and groove family.
Example practical SKU / spec line for product page	Rod Ø: 50 mm — Seal profile: STD-R — Dimensions: 50 × 65 × 8.3 mm (d × D × L) — Material: ECOPUR (PU) with NBR energizer — Temp range: -20...+80 ° C.