

Sturdi® Sleeve

Shaft Repair - Stainless Steel

Shaft Repair Sleeves are highly engineered components that press-fit onto a shaft, which will help deter damage to shafts & spindles. They provide a protective seal running surface and reduce the need for complex and expensive shaft matching, repair, or replacement.



Features

- **Cost effective** alternative to repairing or replacing a damaged shaft
- **Easy to install**, which reduces equipment downtime and saves time
- **Ultra-thin**, no need to change seal size
- **Extremely durable**, corrosion free sealing surface
- **Extends seal life** so you get more bang for your buck from your seals

Wide Application range

Industrial

- Industrial gearboxes & motor shafts
- For construction and agricultural applications
- Industrial pumps and heavy industry
- Crushers, conveyors, motors, reducers, fans and pumps.

Automotive

- Engine crankshaft front & rear
- Transmission front & rear
- Transfer case input & output shaft (AWD)
- Pinion differential / yokes
- Harmonic balancer, camshaft, timing cover
- Wheel
- Steering sector / shift shaft

Installation

1. Clean the old seal surface thoroughly and file down burrs and rough areas
2. Determine sleeve position necessary to cover the seal wear tracks. Measure to a convenient point or mark directly on the shaft.
3. Sturdi® shaft repair sleeves may be installed to any depth. Check whether the supplied tool will reach this position. If not, a tool can be fabricated using tubing or pipe to make deeper installations.
4. Fill any deep scores on the shaft with the thread repair compound. Make sure to install the sleeve prior to the filler hardening.
5. Gently pound the center of the installation tool sleeve until it reaches the previously measured point on the shaft.



6. If clearance is required after installation, the Sturdi® Sleeve's flange can be removed. Prior to installation, use side cutters to cut through the flange to the pre-cut line. After the sleeve is installed, pry flange away from the seal surface. The flange will peel away along the pre-cut line.

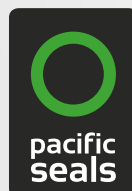
Suggested methods of sleeve removal:

1. Application of heat will cause the sleeve to expand and permit removal.
2. Wire cutters may be used to "tear" the sleeve from the shaft using a twisting motion.
3. With the flange removed, tapping the sleeve with a hammer may cause stretching on the sleeve and allow for removal.

Distributed by

Pacific Seals, 1D Quadrant Drive, Gracefield, Lower Hutt www.pacificseals.co.nz 04 566 3180

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Shaft Repair Sleeve



Material	Stainless Steel SAE / AISI 304
Properties	Good chemical and corrosion resistance
Hardness	Over 220HV (95 HRB)
Wall thickness	0.28mm 0/-0.05
Surface roughness	Ra 0.20~0.50 um
Lead specification	Zero ± 0.05 degree

Part number	ID (mm)	Height (mm)	Part number	ID (mm)	Height (mm)	Part number	ID (mm)	Height (mm)	Part number	ID (mm)	Height (mm)
99049	6.00	6.00	99163	41.00	12.70	99248	63.50	12.70	99360	91.97	20.65
99050	12.70	6.35	99166	42.00	11.30	99250	63.50	19.84	99362	92.08	20.65
99055	14.00	6.35	99167	42.88	7.95	99253	63.50	14.10	99363	92.08	12.70
99056	14.30	6.35	99168	42.88	14.30	99254	65.00	19.99	99364	95.07	11.91
99058	16.00	7.95	99169	42.00	14.30	99262	66.68	19.84	99366	94.74	19.84
99059	15.00	5.00	99170	44.17	9.53	99266	68.00	19.05	99369	95.00	21.01
99060	17.37	7.95	99171	43.66	14.30	99268	69.34	19.84	99393	100.00	20.65
99062	15.88	7.95	99172	44.45	9.53	99269	69.85	28.58	99395	101.60	15.24
99068	17.00	8.00	99174	44.45	14.30	99272	69.85	10.31	99399	101.60	20.65
99076	19.05	7.95	99175	44.45	19.05	99273	69.67	19.84	99400	101.60	16.51
99078	20.00	8.00	99177	45.00	14.00	99274	69.85	19.84	99401	101.60	12.70
99082	18.00	8.00	99180	44.45	13.49	99275	69.85	19.84	99412	104.78	20.65
99083	20.65	9.53	99181	46.00	14.30	99276	69.85	19.99	99413	105.00	19.99
99084	22.00	6.58	99182	43.00	12.70	99282	72.09	12.70	99418	106.38	20.65
99085	22.00	8.00	99184	47.63	9.53	99284	72.01	19.05	99424	107.95	20.65
99086	21.82	6.35	99187	47.63	14.30	99287	73.03	19.84	99434	110.01	11.38
99087	22.23	7.95	99188	47.63	7.49	99289	75.01	15.09	99435	109.93	12.93
99092	24.00	7.95	99189	48.03	14.00	99290	74.63	12.70	99437	111.13	20.65
99098	25.00	7.95	99190	47.63	4.45	99293	74.68	19.84	99450	114.30	20.65
99100	25.40	7.95	99193	49.23	14.30	99294	75.01	22.00	99452	115.00	20.65
99103	26.00	8.00	99196	50.01	14.00	99300	76.20	20.65	99463	117.48	25.40
99106	27.00	7.95	99199	50.80	14.30	99303	76.20	15.88	99465	117.48	11.13
99111	28.00	9.53	99200	50.80	22.23	99306	78.00	19.05	99471	120.00	8.00
99112	28.58	7.95	99204	52.00	12.70	99315	80.01	21.01	99472	122.00	20.00
99114	30.00	8.00	99212	53.98	19.84	99317	80.01	11.00	99473	120.00	20.00
99116	28.58	9.53	99215	54.99	19.99	99322	82.55	20.65	99475	120.65	12.70
99125	31.75	7.95	99218	55.58	19.84	99324	82.55	15.11	99487	123.83	15.88
99128	32.00	8.00	99219	58.00	20.00	99325	82.55	20.65	99490	124.99	10.01
99133	34.93	7.95	99220	56.00	12.70	99326	82.55	17.48	99491	130.18	22.00
99138	34.93	12.70	99224	56.00	20.00	99332	84.89	16.99	99492	124.99	26.01
99139	34.93	13.00	99225	57.15	19.84	99333	84.89	21.01	99494	129.90	19.05
99143	36.53	14.30	99226	56.90	19.41	99334	85.01	10.13	99498	127.00	17.48
99144	36.53	9.53	99227	57.15	7.95	99337	85.73	20.65	99499	127.00	20.65
99147	38.00	13.00	99229	56.64	12.70	99338	85.73	9.53	99501	127.00	13.72
99149	38.10	14.30	99230	56.64	19.84	99346	88.90	15.88	99513	130.18	20.65
99150	38.10	9.53	99233	59.13	19.05	99347	88.90	7.95	99525	133.35	20.65
99152	38.68	11.13	99235	60.00	19.99	99349	88.90	15.88	99549	139.70	20.65
99153	40.00	9.91	99237	60.33	19.84	99350	88.90	20.65	99550	139.70	13.16
99155	39.42	11.13	99238	60.33	15.09	99351	89.00	18.03	99552	140.00	20.65
99156	39.67	14.30	99240	60.33	13.36	99352	89.00	11.13	99571	145.00	19.05
99160	40.77	12.70	99241	60.00	9.40	99353	89.00	13.36	99599	152.40	25.40
99161	41.28	7.95	99242	61.93	12.70	99354	89.00	23.01	99601	152.40	12.70
99162	41.28	14.30	99244	62.00	12.70	99359	94.74	11.91			

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