



Large Diameter wear sleeves product listings (LDSLV4)

Understanding key table elements

Designed to be user-friendly, CR Seals and product listings convey a good deal of information on every line. As you familiarize yourself with the tables, keep these need-to-know basics in mind:

Seal and product sizes

All size listings for all CR Seals products are arranged by ascending shaft diameters, segregated as inch sizes (green bars) and metric sizes (blue bars). All bore and width sizes listed under the green bars are in inches, while all sizes listed under blue bars are in mm.

Bore / width

Once you have selected the right shaft size, you will need to identify the seals with a matching bore size. The recommended tolerance ranges for shaft and bore can be found on **pages 46-49**. While it is important to choose a seal with a close match to shaft and bore, it is less important to choose a seal with a predetermined width. As long as the seal is short enough not to protrude out of the bore, it will work just fine.

Preferred designs

Highlighted in bold in the “Part Number” and “Seal Type” columns, preferred seal design listings represent the highest performing or otherwise best suited sealing solution for a given shaft diameter.

Lip Material

R = NBR (nitrile rubber)

RG = NBR with advanced oil resistance and pumping ability

D = XNBR (carboxylated nitrile)

H = HNBR (hydrogenated nitrile)

V = FKM (fluorocarbon rubber)

P = ACM (polyacrylate elastomer)

T = PTFE (polytetrafluoroethylene)

Seal technologies

W = SKF Wave: Featuring the patented SKF Wave lip design, these are the most robust standard seals ever made.

E = SKF Edge: SKF Edge shaft seals HMS5 and HMSA10 combine an SKF-developed NBR compound with a rubber outside diameter according to ISO/DIN global design standards – primarily available in metric sizes.

F = SKF Flex: SKF Flex seals deliver heavy-duty performance in fully customizable sizes and features to fit and perform in the application.

S = Standard oil seal: SKF carries some older designs that do not have the modern advancements of the SKF Edge or SKF Wave lips, but may be adequate for some applications. Use these when SKF Edge or SKF Wave seals are not available in the size needed.

G = Grease seal: Oil seals can handle oil or grease applications, but grease seals do not have the garter spring needed for oil retention, so they are for grease only. Normally you point the lip away from grease if the main concern is water/dirt ingressions, which also allows the grease to purge if needed.

Key features

▲ **WasteWatcher:** Indicates that the product is most likely to be in stock at our distributors and our own SKF warehouses. The CR Seals Waste-Watcher program helps distributors optimize seal inventories.

■ **Bore-Tite:** Indicates the seal uses SKF Bore-Tite, a green, water-based acrylic sealant used as a coating on the outside diameter of the seal.

▼ **SS Case:** Indicates the seal has a stainless steel seal case.

◎ **SS Spring:** Indicates the seal has a stainless steel seal lip spring.

◆ **Pressure seal up to 50 psi:** Suitable for higher-pressure sealing applications; typical industrial shaft seals can handle only up to 5 or 10 psi.

◇ **Cover plate required:** Proper seal installation and operation requires a cover plate, which clamps down axially on an all-rubber seal to hold it in place in many large diameter seal applications.

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Section of PUB 810-701 · February 2018

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LDSLV wear sleeves for heavy industrial applications

Over time, contaminants trapped between a rotating shaft and a seal can cause severe shaft damage. Rather than repairing or replacing the damaged shaft, an LDSLV wear sleeve can take it from scored to restored in just minutes – or eliminate the need to finish it during manufacturing.

Heavy-duty protection

LDSLV wear sleeves are recommended for applications where seals are exposed to heavy contaminants and harsh operating conditions, as in rolling mills, metal plants and chemical processing facilities. In applications where seal wear and shaft damage is common, SKF recommends installing the sleeves before the machine is operational. Installing LDSLV wear sleeves from the outset will eliminate the need to rework the shaft when installing a replacement sleeve; it will also allow the original seal size to be used as the replacement.

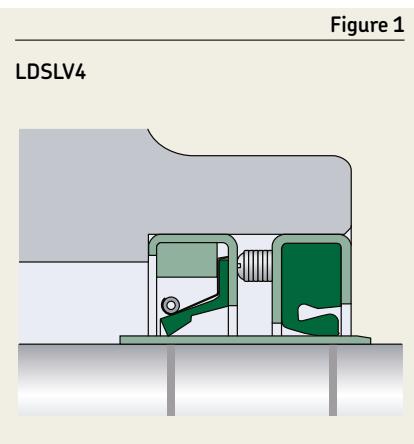


Figure 1

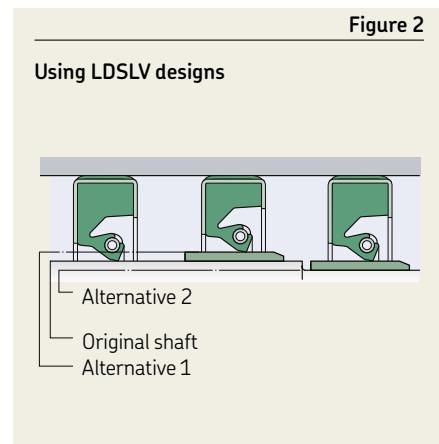


Figure 2

Size range

LDSLV wear sleeves for heavy industrial applications for shaft diameters ranging from 8.313 to 45 in. (211.15 to 1,143 mm). The sleeves are made to order for shaft diameters within the primary ranges listed in **Table 1**.

Design features

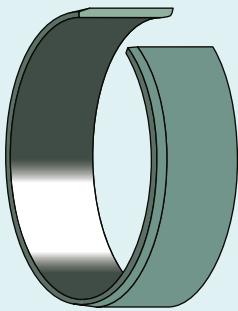
LDSLV4 wear sleeves (**→ Fig. 1**) feature SAE 1008 chromium-plated carbon steel to enhance wear and corrosion resistance. Other sleeve materials are available to meet specific application demands. The sleeve outside diameter is specially ground to provide a precision bore surface for the seal. The wall thickness of the standard sleeves is 0.094 in. (2.39 mm).

Applications

There are two alternative ways of using LDSLV4 wear sleeves for heavy industrial applications (**→ fig. 2**):

- 1 The sleeve is positioned on the shaft until it covers the damaged part and a new seal, designed for a 0.188 in. (4.78 mm) larger shaft diameter, is used.
- 2 The shaft is machined down by 0.188 in. (4.78 mm) in diameter, the sleeve is installed and the original seal size is used. The reworked shaft surface for the sleeve should have a surface roughness between Ra 100 to 125 μ in (2.5 and 3.2 μ m).

NOTE: The shaft tolerances for LDSLV designs, due to their heated slip-fit installation, are different from those for rotary shaft seals. Contact SKF for assistance if the sleeves are to be used in systems with sustained temperatures higher than 165 °F (75 °C) and surface speeds in excess of 3,900 ft/min (20 m/s).

Table 1**Primary dimension range of LDSLV4**

Shaft range		Width ¹⁾	
over	incl.	min	max
in. (mm)		in. (mm)	
8.313	29.000	0.500	2.500
211.15	736.60	12.70	63.50
29.000	45.000	0.750	2.500
736.60	1,143.00	19.05	63.50

¹⁾ Total width (b), 1.5 to 2 in. (38.10 to 50.80 mm) at 45 in. (1,143.00 mm) shaft diameter
Contact SKF for LDSLV4 designs outside the primary size range.

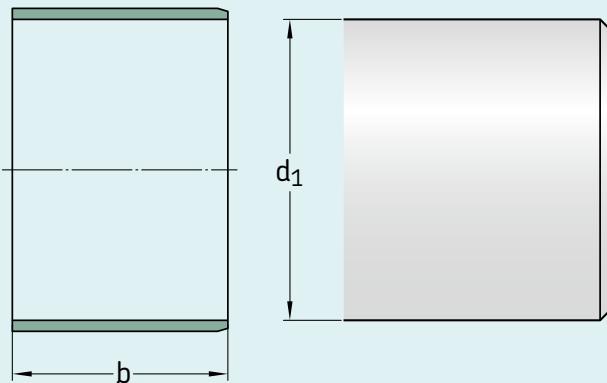
Table 2**LDSLV4 interference fit and tolerances**

Shaft	Sleeve (metal I.D.)		
Diameter	Tolerance	Nominal press fit	I.D. tolerance
3.001 to 5.000 in. 76.2 to 127 mm	0.0015 in. 0.038 mm	0.005 in. 0.127 mm	+ 0.002 in. – 0.004 in. + 0.051 mm – 0.102 mm
5.001 to 7.000 in. 127 mm to 177.8 mm	0.0015 in. 0.038 mm	0.006 in. 0.152 mm	+ 0.002 in. – 0.004 in. + 0.051 mm – 0.102 mm
7.001 to 12.000 in. 177.8mm to 304.8 mm	0.002 in. 0.051 mm	0.007 in. 0.178 mm	+ 0.002 in. – 0.005 in. + 0.051 mm – 0.127 mm
12.001 to 20.000 in. 304.8mm to 508 mm	+ 0.004 in. – 0.002 in. + 0.102 mm – 0.051 mm	0.008 in. 0.203 mm	+ 0.002 in. – 0.008 in. + 0.051 mm – 0.203 mm
20.001 to 40.000 in. 508 mm to 1016 mm	+ 0.008 in. – 0.002 in. + 0.203 mm – 0.051 mm	0.008 in. 0.203 mm	+ 0.002 in. – 0.008 in. + 0.051 mm – 0.203 mm
40.001 to 60.000 in. 1016 mm to 1524 mm	+ 0.010 in. – 0.002 in. + 0.254 mm – 0.051 mm	0.008 in. 0.203 mm	+ 0.002 in. – 0.010 in. + 0.081 mm – 0.254 mm

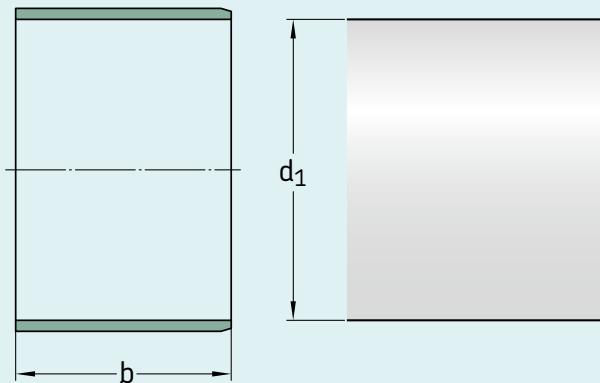
NOTE: Please contact us for recommendations concerning large diameter wear sleeves that will operate in systems with sustained oil sump temperatures greater than 170 °F (76.7 °C) and surface speed in excess of 3950 FPM (20.07 M/S).

Installation/removal

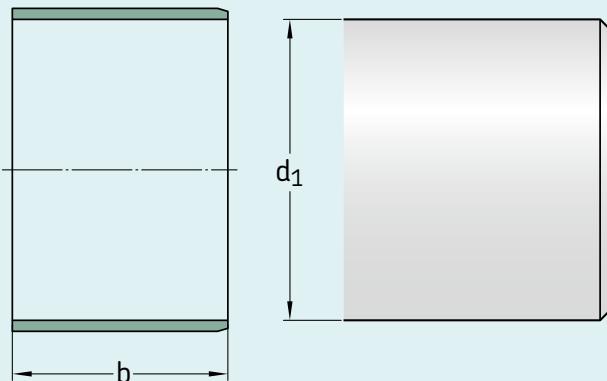
See **page 23** in this handbook.



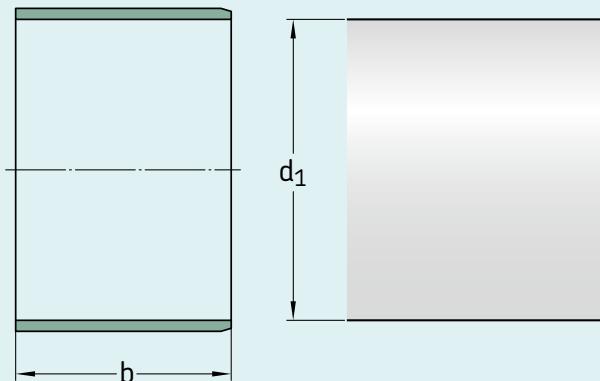
SKF Part Number	Inch				Metric (mm)			
	Shaft min. d1	Shaft max. d1	Reference Installed OD D	Width b	Shaft min. d1	Shaft max. d1	Reference Installed OD D	Width b
91780	4.3255	4.3285	4.515	2.000	109.87	109.94	114.68	50.8
91284	4.3305	4.3335	4.520	1.200	109.99	110.07	114.81	30.5
91374	8.065	8.069	8.255	0.787	204.85	204.95	209.68	20
91375	8.068	8.072	8.258	0.787	204.93	205.03	209.75	20
91366	8.078	8.082	8.268	0.984	205.18	205.28	210	25
90812	8.078	8.082	8.268	1.299	205.18	205.28	210	33
90813	8.078	8.082	8.268	1.575	205.18	205.28	210	40
91703	8.266	8.270	8.456	1.574	209.96	210.06	214.78	40
85885	8.311	8.315	8.500	1.250	211.10	211.20	215.90	31.8
91338	8.463	8.467	8.653	1.000	214.96	215.06	219.79	25.4
90885	8.471	8.475	8.661	1.969	215.16	215.27	220	50
91326	8.498	8.502	8.688	1.000	215.85	215.95	220.68	25.4
91333	8.498	8.502	8.688	1.250	215.85	215.95	220.68	31.8
90874	8.659	8.663	8.849	0.787	219.94	220.04	224.76	20
87319	8.659	8.663	8.849	1.000	219.94	220.04	224.76	25.4
87143	8.659	8.663	8.849	1.181	219.94	220.04	224.76	30
91730	8.659	8.663	8.849	1.574	219.94	220.04	224.76	40
90822	8.659	8.663	8.849	1.960	219.94	220.04	224.76	50
86551	8.810	8.814	9.000	2.000	223.77	223.88	228.60	50.8
87166	8.864	8.868	9.054	2.500	225.15	225.25	229.97	63.5
87462	8.865	8.869	9.055	1.000	225.17	225.27	230	25.4
85846	8.998	9.002	9.188	1.750	228.55	228.65	233.38	44.5
87089	9.053	9.057	9.243	2.500	229.95	230.05	234.77	63.5
85931	9.061	9.065	9.250	1.500	230.15	230.25	234.95	38.1
87784	9.248	9.252	9.438	0.625	234.90	235.00	239.73	15.9
84643	9.248	9.252	9.438	0.875	234.90	235.00	239.73	22.2
87789	9.258	9.262	9.449	1.102	235.15	235.25	240	28
90835	9.258	9.262	9.449	1.181	235.15	235.25	240	30
90952	9.259	9.263	9.449	0.709	235.18	235.28	240	18
91382	9.267	9.271	9.449	1.732	235.38	235.48	240	44
91351	9.447	9.451	9.637	0.591	239.95	240.06	244.78	15
91317	9.447	9.451	9.637	0.709	239.95	240.06	244.78	18
91396	9.447	9.451	9.637	0.787	239.95	240.06	244.78	20
91736	9.447	9.451	9.637	1.000	239.95	240.06	244.78	25.4
87144	9.447	9.451	9.637	1.181	239.95	240.06	244.78	30
87911	9.455	9.459	9.646	1.732	240.16	240.26	245	44
91348	9.498	9.502	9.688	0.956	241.25	241.35	246.08	24.3
86562	9.498	9.502	9.688	2.500	241.25	241.35	246.08	63.5
91733	9.651	9.655	9.843	2.500	245.14	245.24	250	63.5
91318	9.652	9.656	9.843	1.330	245.16	245.26	250	34
84965	9.748	9.752	9.938	1.438	247.60	247.70	252.43	36.5
85045	9.748	9.752	9.938	2.250	247.60	247.70	252.43	57.2
86413	9.811	9.815	10.000	1.125	249.20	249.30	254	28.6
87067	9.811	9.815	10.000	2.000	249.20	249.30	254	50.8
90773	9.833	9.837	10.023	1.575	249.76	249.86	254.58	40
90890	9.841	9.845	10.031	1.181	249.96	250.06	254.79	30
91385	9.841	9.845	10.031	1.417	249.96	250.06	254.79	36
91383	10.037	10.041	10.227	2.244	254.94	255.04	259.77	57
86000	10.061	10.065	10.250	2.250	255.55	255.65	260.35	57.2



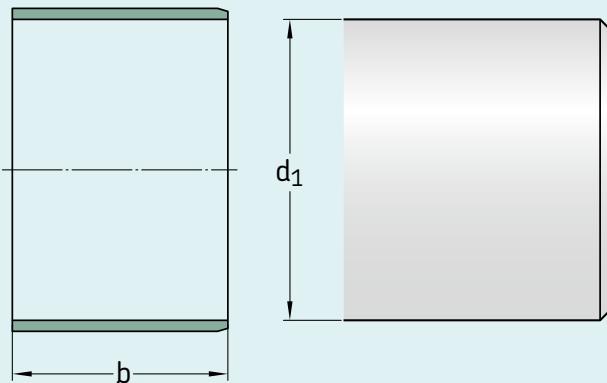
SKF Part Number	Inch				Metric (mm)			
	Shaft min. d1	Shaft max. d1	Reference Installed OD D	Width b	Shaft min. d1	Shaft max. d1	Reference Installed OD D	Width b
84962	10.186	10.190	10.375	1.125	258.72	258.83	263.53	28.6
91704	10.225	10.229	10.415	1.299	259.72	259.82	264.54	33
90896	10.234	10.238	10.424	0.787	259.94	260.05	264.77	20
90898	10.234	10.238	10.424	0.787	259.94	260.05	264.77	20
91337	10.234	10.238	10.424	1.181	259.94	260.05	264.77	30
85629	10.311	10.315	10.500	2.000	261.90	262.00	266.70	50.8
86798	10.439	10.443	10.629	2.165	265.15	265.25	269.98	55
85839	10.498	10.502	10.688	1.500	266.65	266.75	271.48	38.1
86013	10.498	10.502	10.688	2.750	266.65	266.75	271.48	69.9
86544	10.560	10.564	10.750	1.813	268.22	268.33	273.05	46.1
87768	10.561	10.565	10.750	1.500	268.25	268.35	273.05	38.1
86435	10.748	10.752	10.938	2.500	273.00	273.10	277.83	63.5
90870	10.810	10.814	11.000	1.575	274.57	274.68	279.40	40
85033	10.811	10.815	11.000	2.000	274.60	274.70	279.40	50.8
90546	10.825	10.829	11.024	0.866	274.96	275.06	280	22
90875	10.833	10.837	11.023	0.500	275.16	275.26	279.98	12.7
86601	10.844	10.848	11.034	0.709	275.44	275.54	280.26	18
84510	10.873	10.877	11.063	2.000	276.17	276.28	281	50.8
91301	10.982	10.986	11.172	2.500	278.94	279.04	283.77	63.5
91322	10.998	11.002	11.188	0.687	279.35	279.45	284.18	17.5
86486	10.998	11.002	11.188	1.500	279.35	279.45	284.18	38.1
91321	10.998	11.002	11.188	1.732	279.35	279.45	284.18	44.0
86454	10.998	11.002	11.188	2.500	279.35	279.45	284.18	63.5
87142	11.021	11.025	11.211	1.181	279.93	280.04	284.76	30
90437	11.022	11.026	11.220	1.772	279.96	280.06	285	45
85212	11.186	11.190	11.375	2.250	284.12	284.23	288.93	57.2
90238	11.227	11.231	11.417	2.500	285.17	285.27	290	63.5
86145	11.373	11.377	11.563	2.250	288.87	288.98	293.70	57.2
86441	11.415	11.419	11.605	1.750	289.94	290.04	294.77	44.5
90761	11.498	11.502	11.688	0.750	292.05	292.15	296.88	19.1
91342	11.498	11.502	11.688	1.688	292.05	292.15	296.88	42.9
91391	11.612	11.616	11.802	0.787	294.94	295.05	299.77	20
91365	11.612	11.616	11.811	1.260	294.94	295.05	300	32
90889	11.612	11.616	11.802	1.575	294.94	295.05	299.77	40
90895	11.809	11.813	12.000	0.787	299.95	300.05	304.80	20
90897	11.809	11.813	12.000	0.787	299.95	300.05	304.80	20
90853	11.809	11.813	12.000	0.984	299.95	300.05	304.80	25
86687	11.810	11.814	12.000	1.125	299.97	300.08	304.80	28.6
85046	11.811	11.815	12.000	2.250	300.00	300.10	304.80	57.2
85844	11.811	11.815	12.000	2.750	300.00	300.10	304.80	69.9
90849	11.998	12.002	12.188	1.000	304.75	304.85	309.58	25.4
85577	11.998	12.002	12.188	2.250	304.75	304.85	309.58	57.2
91302	12.005	12.011	12.195	2.500	304.93	305.08	309.75	63.5
91323	12.015	12.021	12.205	1.969	305.18	305.33	310.01	50
91324	12.015	12.021	12.205	2.047	305.18	305.33	310.01	52
85418	12.061	12.067	12.250	0.625	306.35	306.50	311.15	15.9
91721	12.061	12.067	12.250	2.500	306.35	306.50	311.15	63.5
91376	12.172	12.178	12.362	0.945	309.17	309.32	313.99	24
91387	12.203	12.209	12.393	0.709	309.96	310.11	314.78	18
90174	12.310	12.316	12.500	1.500	312.67	312.83	317.50	38.1



SKF Part Number	Inch				Metric (mm)			
	Shaft min. d1	Shaft max. d1	Reference Installed OD D	Width b	Shaft min. d1	Shaft max. d1	Reference Installed OD D	Width b
83760	12.311	12.317	12.500	0.750	312.70	312.85	317.50	19.1
90155	12.407	12.413	12.598	2.500	315.14	315.29	320	63.5
91390	12.596	12.602	12.786	1.574	319.94	320.09	324.76	40
90198	12.596	12.602	12.795	2.500	319.94	320.09	325	63.5
87513	12.748	12.754	12.938	0.688	323.80	323.95	328.63	17.5
91367	12.802	12.808	12.992	0.787	325.17	325.32	330	20
90239	12.802	12.808	12.992	2.500	325.17	325.32	330	63.5
91386	12.990	12.996	13.180	1.102	329.95	330.10	334.77	28
91729	12.990	12.996	13.180	1.889	329.95	330.10	334.77	48
85535	12.998	13.004	13.188	1.750	330.15	330.30	334.98	25.4
84963	13.061	13.067	13.250	1.125	331.75	331.90	336.55	28.6
91352	13.116	13.122	13.307	1.594	333.15	333.30	338	40.5
90801	13.196	13.202	13.386	1.969	335.18	335.33	340	50
87463	13.311	13.317	13.501	1.500	338.10	338.25	342.93	38.1
91731	13.383	13.389	13.583	1.968	339.93	340.08	345	50
91305	13.384	13.390	13.574	0.800	339.95	340.11	344.78	20
91309	13.384	13.390	13.574	1.693	339.95	340.11	344.78	43
91310	13.589	13.595	13.780	0.787	345.16	345.31	350	20
90887	13.811	13.817	14.001	1.181	350.80	350.95	355.63	30
90778	13.982	13.988	14.173	1.000	355.14	355.30	360	25.4
90785	13.982	13.988	14.173	1.969	355.14	355.30	360	50
86153	13.998	14.004	14.188	2.000	355.55	355.70	360.38	50.8
87445	14.171	14.177	14.361	1.000	359.94	360.10	364.77	25.4
91353	14.171	14.177	14.370	1.732	359.94	360.10	365	44
90788	14.180	14.186	14.370	1.772	360.17	360.32	365	45
86429	14.311	14.317	14.500	1.500	363.50	363.65	368.30	38.1
91368	14.748	14.754	14.938	1.000	374.60	374.75	379.43	25.4
90841	14.770	14.776	14.961	1.575	375.16	375.31	380	40
87723	14.811	14.817	15.000	1.500	376.20	376.35	381	38.1
91327	14.959	14.965	15.149	1.181	379.96	380.11	384.78	30
90272	15.060	15.066	15.250	0.750	382.52	382.68	387.35	19.1
91330	15.117	15.123	15.307	1.500	383.97	384.12	388.80	38.1
90891	15.155	15.161	15.354	1.575	384.94	385.09	390	40
87569	15.186	15.192	15.375	2.500	385.72	385.88	390.53	63.5
82458	15.498	15.504	15.688	1.500	393.65	393.80	398.48	38.1
91398	15.558	15.564	15.748	1.181	395.17	395.33	400	30
87461	15.558	15.564	15.748	2.500	395.17	395.33	400	63.5
85181	15.811	15.817	16.000	2.000	401.60	401.75	406.40	50.8
85900	15.998	16.004	16.188	2.000	406.35	406.50	411.18	50.8
86175	16.061	16.067	16.250	1.250	407.95	408.10	412.75	31.8
86426	16.061	16.067	16.250	1.300	407.95	408.10	412.75	33.0
86575	16.061	16.067	16.250	2.000	407.95	408.10	412.75	50.8
90866	16.140	16.146	16.330	2.461	409.96	410.11	414.78	62.5
90899	16.494	16.500	16.684	2.500	418.95	419.10	423.77	63.5
91312	16.533	16.539	16.723	2.500	419.94	420.09	424.76	63.5
84616	16.811	16.817	17.000	2.250	427.00	427.15	431.80	57.2
87916	17.132	17.138	17.323	2.500	435.15	435.31	440	63.5
91350	17.133	17.139	17.323	1.730	435.18	435.33	440	44
86430	17.311	17.317	17.500	1.500	439.70	439.85	444.50	38.1



SKF Part Number	Inch				Metric (mm)			
	Shaft min. d1	Shaft max. d1	Reference Installed OD D	Width b	Shaft min. d1	Shaft max. d1	Reference Installed OD D	Width b
91300	17.714	17.720	17.904	2.500	449.94	450.09	454.76	63.5
90867	17.715	17.721	17.905	2.500	449.96	450.11	454.79	63.5
91349	17.723	17.729	17.913	2.165	450.16	450.32	454.99	55
90888	17.810	17.816	18.000	1.181	452.37	452.53	457.20	30
87271	17.810	17.816	18.000	2.125	452.37	452.53	457.20	54.0
90347	17.920	17.926	18.110	1.181	455.17	455.32	460	30
91705	18.108	18.114	18.298	1.969	459.94	460.10	464.77	50
91357	18.108	18.114	18.298	2.362	459.94	460.10	464.77	60
87921	18.706	18.712	18.898	0.787	475.13	475.28	480	20
87924	18.810	18.816	19.000	1.575	477.77	477.93	482.60	40.0
86563	18.811	18.817	19.000	1.750	477.80	477.95	482.60	44.5
86716	18.811	18.817	19.000	2.500	477.80	477.95	482.60	63.5
91392	18.895	18.901	19.094	1.969	479.93	480.09	485	50
90259	19.464	19.470	19.654	0.945	494.39	494.54	499.21	24
90886	19.494	19.500	19.685	2.000	495.15	495.30	500	50.8
91732	19.683	19.689	19.873	1.574	499.95	500.10	504.77	40
91370	19.683	19.689	19.873	1.575	499.95	500.10	504.77	40
91336	19.683	19.689	19.873	1.970	499.95	500.10	504.77	50
84781	19.811	19.817	20.000	1.250	503.20	503.35	508	31.8
91308	20.310	20.320	20.500	1.750	515.87	516.13	520.70	44.5
90892	20.470	20.480	20.660	0.984	519.94	520.19	524.76	25
91339	20.810	20.820	21.000	1.000	528.57	528.83	533.40	25.4
85367	20.811	20.821	21.000	2.125	528.60	528.85	533.40	54.0
90805	20.863	20.873	21.053	2.250	529.92	530.17	534.75	57.2
87783	20.864	20.874	21.063	0.787	529.95	530.20	535	20
87069	21.801	21.811	21.991	2.362	553.75	554.00	558.57	60
85222	21.811	21.821	22.000	2.000	554.00	554.25	558.80	50.8
84590	21.811	21.821	22.000	2.250	554.00	554.25	558.80	57.2
91329	21.857	21.867	22.047	0.787	555.17	555.42	560	20
91399	22.045	22.055	22.235	1.181	559.94	560.20	564.77	30
87070	22.301	22.311	22.491	2.362	566.45	566.70	571.27	60
90163	22.810	22.820	23.000	2.000	579.37	579.63	584.20	50.8
90146	22.998	23.008	23.188	2.000	584.15	584.40	588.98	50.8
90840	23.431	23.441	23.622	2.500	595.15	595.40	600	63.5
87777	23.432	23.442	23.622	0.984	595.17	595.43	600	25
89997	23.432	23.442	23.622	2.500	595.17	595.43	600	63.5
91313	23.620	23.630	23.819	1.969	599.95	600.20	605	50
87922	23.810	23.820	24.000	0.750	604.77	605.03	609.60	19.1
90814	23.810	23.820	24.000	1.250	604.77	605.03	609.60	31.8
91395	23.998	24.008	24.188	2.500	609.55	609.80	614.38	63.5
86567	24.998	25.008	25.188	2.500	634.95	635.20	639.78	63.5
91700	25.589	25.599	25.787	2.500	649.96	650.21	655	63.5
91364	25.805	25.815	25.995	2.250	655.45	655.70	660.27	57.2
91343	25.810	25.820	26.000	2.244	655.57	655.83	660.40	57
90799	26.187	26.197	26.378	1.772	665.15	665.40	670	45
90809	26.310	26.320	26.500	1.375	668.27	668.53	673.10	34.9
86974	26.811	26.821	27.000	2.000	681.00	681.25	685.80	50.8
85531	26.811	26.821	27.000	2.250	681.00	681.25	685.80	57.2
84764	27.061	27.071	27.250	2.250	687.35	687.60	692.15	57.2
91331	27.311	27.321	27.500	2.250	693.70	693.95	698.50	57.2



SKF Part Number	Inch				Metric (mm)			
	Shaft min. d1	Shaft max. d1	Reference Installed OD D	Width b	Shaft min. d1	Shaft max. d1	Reference Installed OD D	Width b
91328	27.360	27.370	27.559	2.500	694.94	695.20	700	63.5
90838	27.368	27.378	27.559	2.500	695.15	695.40	700	63.5
85122	27.431	27.441	27.625	1.500	696.75	697.00	701.68	38.1
91358	27.557	27.567	27.747	2.362	699.95	700.20	704.77	60
89922	27.806	27.816	27.996	2.500	706.27	706.53	711.10	63.5
91340	27.810	27.820	28.000	1.250	706.37	706.63	711.20	31.8
91371	28.310	28.320	28.500	2.313	719.07	719.33	723.90	58.8
90884	28.747	28.757	28.937	2.500	730.17	730.43	735	63.5
90872	28.810	28.820	29.000	1.535	731.77	732.03	736.60	39
84641	28.811	28.821	29.000	2.250	731.80	732.05	736.60	57.2
89949	28.944	28.954	29.134	2.480	735.18	735.43	740	63
91359	29.526	29.536	29.716	2.362	749.96	750.21	754.79	60
87605	30.318	30.328	30.508	1.375	770.08	770.33	774.90	34.9
90893	30.518	30.528	30.709	1.969	775.16	775.41	780	50
90894	30.707	30.717	30.897	2.480	779.96	780.21	784.78	63
91303	31.277	31.287	31.467	2.362	794.44	794.69	799.26	60
91360	31.494	31.504	31.684	2.500	799.95	800.20	804.77	63.5
90869	31.560	31.570	31.750	1.969	801.62	801.88	806.45	50
91320	31.748	31.758	31.938	0.874	806.40	806.65	811.23	22.2
91304	31.748	31.758	31.938	1.960	806.40	806.65	811.23	50
91319	31.748	31.758	31.938	1.968	806.40	806.65	811.23	50.0
91335	31.748	31.758	31.938	2.480	806.40	806.65	811.23	63
90810	31.810	31.820	32.000	2.500	807.97	808.23	812.80	63.5
86090	32.311	32.321	32.501	2.000	820.70	820.95	825.53	50.8
89996	32.761	32.771	32.953	2.500	832.13	832.38	837	63.5
87529	34.310	34.320	34.500	1.750	871.47	871.73	876.30	44.5
91389	35.234	35.244	35.433	1.969	894.94	895.20	900	50
91707	37.498	37.508	37.688	0.750	952.45	952.70	957.28	19.1
87945	38.270	38.280	38.460	2.500	972.06	972.31	976.88	63.5
85123	38.811	38.821	39.000	2.125	985.80	986.05	990.60	54.0
81826	39.811	39.821	40.000	2.125	1011.20	1011.45	1016	54
91737	39.959	39.969	40.149	2.500	1014.96	1015.21	1019.78	63.5
90852	39.966	39.976	40.156	1.181	1015.14	1015.39	1019.96	30
91728	40.155	40.167	40.345	2.500	1019.94	1020.24	1024.76	63.5
90830	41.310	41.322	41.496	1.575	1049.27	1049.58	1054	40
89948	41.310	41.322	41.500	1.968	1049.27	1049.58	1054.10	50
89947	41.310	41.322	41.496	2.362	1049.27	1049.58	1054	60
87379	42.310	42.322	42.500	1.250	1074.67	1074.98	1079.50	31.8
89946	43.313	43.325	43.504	2.480	1100.15	1100.46	1105	63
91708	44.998	45.010	45.188	1.000	1142.95	1143.25	1147.78	25.4