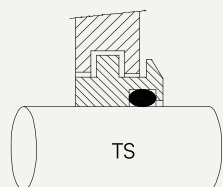


SD3100

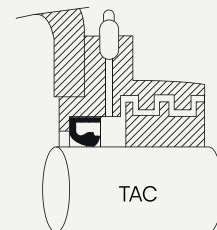




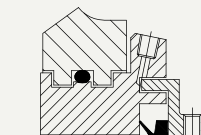
-  Ideally suited
-  Suitable
-  Less suitable
-  Unsuitable



SD



SD



TNF

SD

	°C m/s	..-40..+200°C<15m/s <0,3°	..-40..+100°C<10m/s <0,5°	..-40..+100°C<10m/s <0,5°
Max grade				
Relubricateable				
Friction				
Axial displacement				
Vertical installation				
Spray water				
Fine dust				
Dust				
Rough particle				
Sharp particle				
UV resistance				



Housing Size	Grease quantity First filling gr.
34	1700
36	2100
38	2800
40	3600
44	4200
48	5200
52	6700
56	7000
60	10000
64	12000
68	18000
72	18000
76	23000
80	23000
84	32000

Grease lubrication / initial grease filling / relubrication

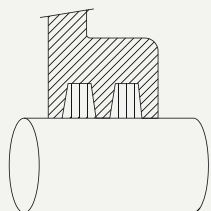
The housings are designed for grease lubrication and can be relubricated via a grease nipple. The following table provides information on the recommended grease quantity for initial filling. Please note that the housings are filled with max. 60% grease during operation, the bearings are filled to 100%.

Grease change

If the achievable fatigue life of the bearing is significantly longer than the grease operating life, a grease change with re-greasing must be provided.

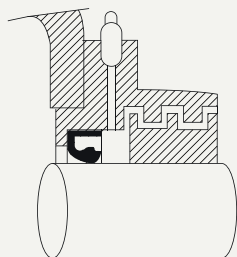
Grease relubrication

If the operating speed is below 80% of the maximum speed, grease is slowly injected until fresh grease emerges at the labyrinths or grease outlet holes. Relubrication should be carried out during running at operating speed. If possible, central lubrication lines should be used to avoid danger to persons. If the operating speed is above 80% of the maximum speed, the bearing temperature must be monitored during relubrication. If very strong deviations are detected, it is recommended to remove the used grease from the bearing and replace it with new grease. The higher temperature level resulting from the whaling work of the grease during relubrication will drop back to the initial value after a few hours of running.



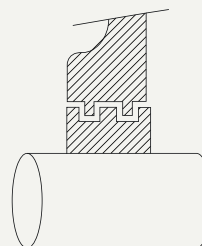
Housing with felt seal

max. peripheral speed = 4 m/s
permissible operating temperature = -40°C to +100°C
permissible skew = 0.5°



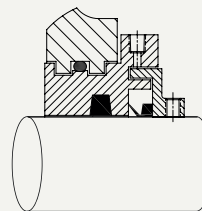
Housing with taconite seal

max. circumferential speed = 12 m/s
permissible operating temperature = -40°C to +100°C
permissible skew = 0.5°



Housing with labyrinth seal

max. circumferential speed
= depending on bearing and lubrication
permissible operating temperature
= depending on bearing and lubrication
permissible misalignment = 0.3°



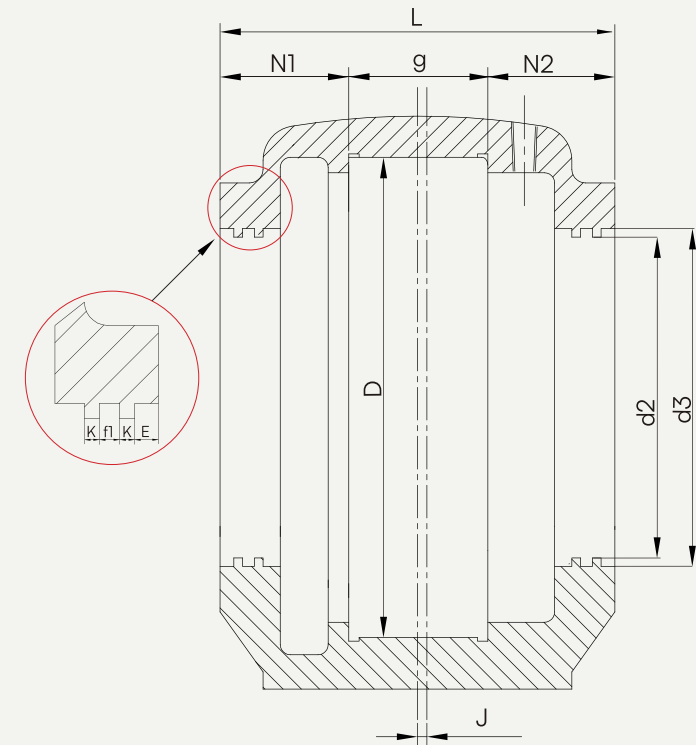
Housing with TNF seal

max. circumferential speed = 5 m/s
permissible operating temperature = -40°C to +100°C
permissible skew = 1° to 1.5°

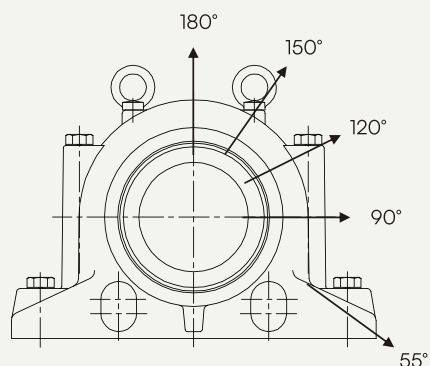
Seal groove



Reference	Dimensions												
	d	L	D	g	h	N1	N2	E	f1	K	J	d2	d3
SD3134	150	230	280	180	170	75	42	7	7	5	14	187	197
SD3134-G												222	237
SD3136	160	240	300	116	180	77	47	7	7	5	15	195	205
SD3136-G												246	265
SD3138	170	260	320	124	190	78	58	7	10	8	10	217	230
SD3138-G												246	265
SD3140	180	280	340	132	210	84	64	7	10	8	10	222	237
SD3140-G												265	285
SD3144	200	290	370	140	220	87	63	7	11	8	12	246	265
SD3144-G												285	305
SD3148	220	310	400	148	240	93	69	7	11	8	12	265	285
SD3148-G												307	327
SD3152	240	320	440	164	260	91	65	7	11	8	13	285	305
SD3152-G												325	345
SD3156	260	320	460	166	280	93	61	7	11	8	16	307	327
SD3156-G												345	365
SD3160	280	350	500	180	300	107	63	7	11	8	22	325	345
SD3160-G												368	390
SD3164	300	370	540	196	320	110	64	7	11	8	23	345	365
SD3164-G												388	408
SD3168	320	390	580	210	340	115	65	6	11	8	25	368	390
SD3168-G												409	429
SD3172	340	400	600	212	350	124	64	7	11	8	30	388	408
SD3172-G												429	449
SD3176	360	400	620	214	360	123	63	8	11	8	30	409	429
SD3176-G												429	449
SD3180	380	430	650	220	380	135	75	8	11	8	30	429	449
SD3180-G												479	499
SD3184	400	460	700	244	410	143	73	8	11	8	35	429	449
SD3184-G												479	499

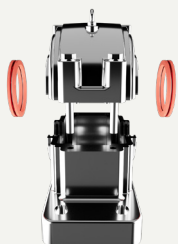


Breaking loads

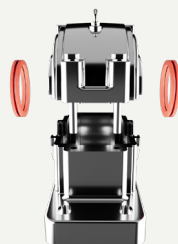


In general for compensation of the housing breaking load value a safety factor of 6 is recommended.
*use 70% of this value

	Housing size SD-Series	Breaking load					Connecting screw	Max load capacity			Max thightening	Bolt	Max thightening	
		55°	90°	120°	150°	180°								
	34	2400	1050	760	880	950	M20x130	520	300	260	430	M24	710	
	36	2550	1200	900	950	1000	M20x130	520	300	260	430	M24	710	
	38	2800	1300	1150	1100	1150	M20x130	520	300	260	430	M24	710	
	40	3700	1620	1350	1350	1500	M24x150	720	420	360	710	M30	1450	
	44	4050	1900	1400	1450	1700	M24x150	720	420	360	710	M30	1450	
	48	4200	2200	1600	1550	1800	M24x150	720	420	360	710	M30	1450	
	52	5300	2500	1950	1750	2100	M30x180	1280	740	640	1450	M36	2600	
	56	6400	2850	2150	2000	2400	M30x180	1280	740	640	1450	M36	2600	
	60	7500	3100	2600	2400	2900	M30x200	1280	740	640	1450	M36	2600	
	64	8000	3550	3000	2800	3100	M30x220	1280	740	640	1450	M36	2600	
	68	8800	4000	3200	3000	3500	M30x220	1280	740	640	1450	M36	2600	
	72	9300	4500	3300	3200	3800	M30x230	1280	740	640	1450	M36	2600	
	76	10300	4800	3400	3300	4150	M30x240	1280	740	640	1450	M36	2600	
	80	10500	5000	3500	3400	4300	M36x240	1600	920	800	2600	M42	4000	
	84	11800	5700	4000	3750	4800	M36x240	1600	920	800	2600	M42	4000	



SD500
SD500 - TS



SD600
SD600 - TS



SD3000
SD3000 - G



SD3100
SD3100 - G

The housing type SD3000/3100/3200 is specifically designed for the use of 231K series self-aligning roller bearings. The standard material for these housings is gray cast iron. The bearing seat inside the housing is precision-machined to the G7 tolerance class. The sealing is achieved through TS labyrinth seals. Upon customer request, these housings can also be adapted for cylindrical bearings and supplied in a different material.

SD3100 / SD3100 - G
SD3000 / SD3000 - G
SD500 + SD500 - TS
SD600 + SD600 - TS



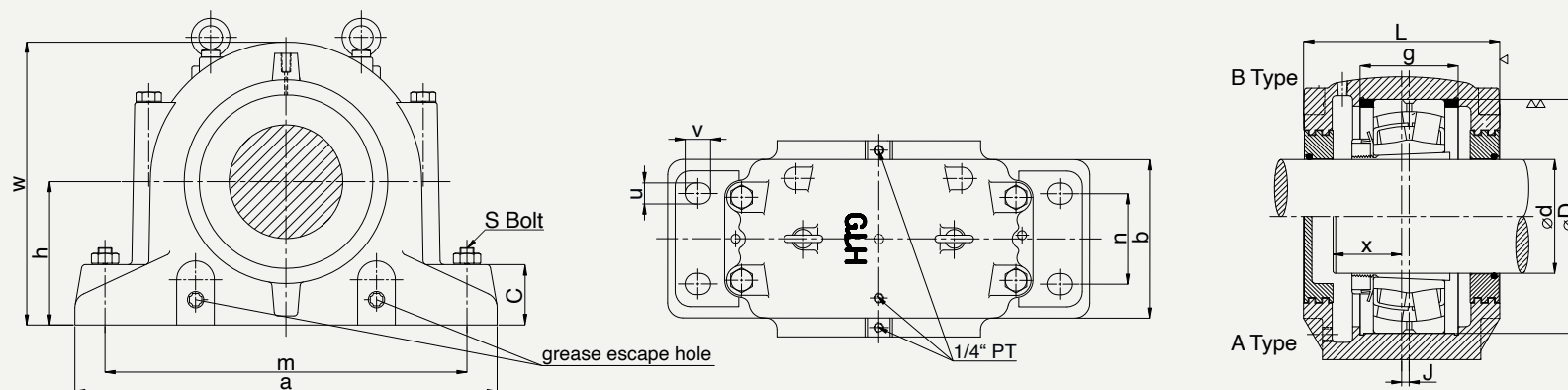
70kg - 930kg



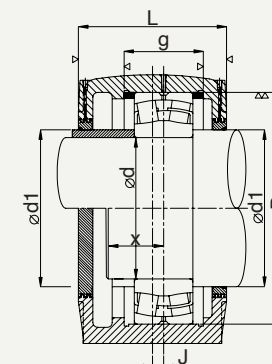
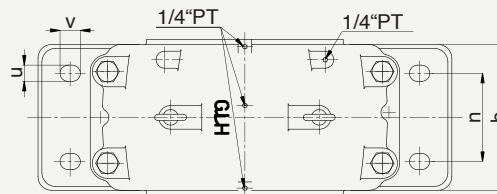
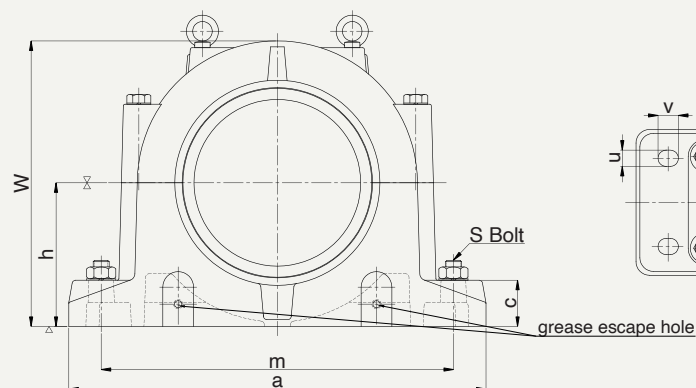
150mm - 480mm



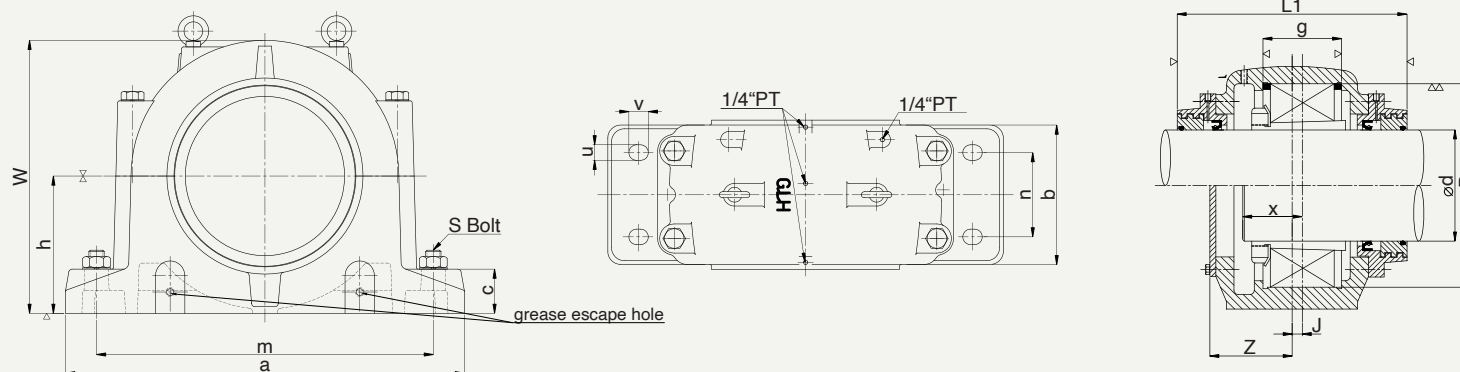
4m/s - 30m/s



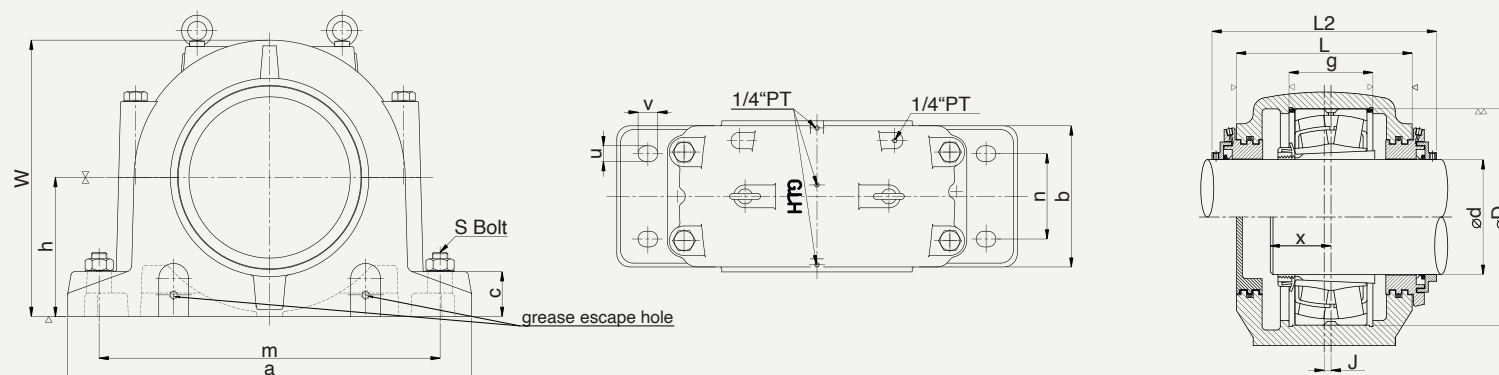
Article	d	D	a	b	c	g	h	L	w	m	n	J	x	S Bolt	kg	Bearing	Sleeve	Locating-Ring	Seal	End cover	Grease kg	u	v
SD3134	150	280	510	180	70	108	170	230	335	430	100	14	65	M24	70	23134K	H3134	2xFR280x10	TS34	TSA34	1,7	30	42
SD3136	160	300	530	190	75	116	180	240	355	450	110	15	68	M24	72	23136K	H3136	2xFR300x10	TS36	TSA36	2,1	30	42
SD3138	170	320	560	210	80	124	190	260	375	480	120	10	80	M24	88	23138K	H3138	2xFR320x10	TS38	TSA38	2,8	30	42
SD3140	180	340	610	230	85	132	210	280	410	510	130	10	82	M30	122	23140K	H3140	2xFR340x10	TS40	TSA40	3,6	37	51
SD3144	200	370	640	240	90	140	220	290	435	540	140	12	90	M30	136	23144K	H3144	2xFR370x10	TS44	TSA44	4,2	37	51
SD3148	220	400	700	260	95	148	240	310	475	600	150	12	100	M30	190	23148K	HOH3148	2xFR400x10	TS48	TSA48	5,2	37	51
SD3152	240	440	770	280	100	164	260	320	515	650	160	13	105	M36	238	23152K	HOH3152	2xFR440x10	TS52	TSA52	6,7	43	60
SD3156	260	460	790	280	105	166	280	320	550	670	160	16	105	M36	252	23156K	HOH3156	2xFR460x10	TS56	TSA56	7	43	60
SD3160	280	500	830	310	110	180	300	350	590	710	190	22	110	M36	290	23160K	HOH3160	2xFR500x10	TS60	TSA60	10	43	60
SD3164	300	540	880	330	115	196	320	370	630	750	200	23	120	M36	340	23164K	HOH3164	2xFR540x10	TS64	TSA64	12	43	51
SD3168	320	580	950	360	120	210	340	400	675	810	220	24	155	M36	380	23168K	HOH3168	2xFR580x10	TS68	TSA68	18	43	51
SD3172	340	600	1000	360	120	212	350	400	695	840	220	30	160	M36	420	23172K	HOH3172	2xFR600x10	TS72	TSA72	18	43	51
SD3176	360	620	1040	360	120	214	360	400	715	870	220	30	165	M36	490	23176K	HOH3176	2xFR620x10	TS76	TSA76	23	43	51
SD3180	380	650	1120	390	125	220	380	430	755	950	240	30	160	M42	570	23180K	HOH3180	2xFR650x10	TS80	TSA80	23	43	51
SD3184	400	700	1170	420	130	244	410	460	810	1000	260	35	175	M42	610	23184K	HOH3184	2xFR700x10	TS84	TSA84	32	50	70
SD3188	410	720	1220	430	135	246	420	460	835	1030	260	35	175	M42	770	23188K	HOH3188	2xFR720x10	TS88	TSA84	32	48	60
SD3192	430	760	1280	440	148	260	440	480	875	1070	260	35	188	M42	830	23192K	HOH3192	2xFR760x10	TS92	TSA84	40	48	60
SD3196	450	790	1330	440	155	268	460	480	920	1110	260	35	192	M42	930	23196K	HOH3196	2xFR790x10	TS96	TSA96	40	56	70



Article	d	d1	D	a	b	c	g	h	L	w	m	n	J	S Bolt	kg	Bearing	Locating-Ring	Seal	End cover	Grease kg	u	v	x
SD3134-G	170	180	280	510	180	70	108	170	230	335	430	100	14	M24	70	23134	2xFR280x10	TS40	TSA40	1,7	30	42	65
SD3136-G	180	200	300	530	190	75	116	180	240	355	450	110	15	M24	72	23136	2xFR300x10	TS44	TSA44	2,1	30	42	68
SD3138-G	190	200	320	560	210	80	124	190	260	375	480	120	10	M24	88	23138	2xFR320x10	TS44	TSA44	2,8	30	42	80
SD3140-G	200	220	340	610	230	85	132	210	280	410	510	130	10	M30	122	23140	2xFR340x10	TS48	TSA48	3,6	37	51	82
SD3144-G	220	240	370	640	240	90	140	220	290	435	540	140	12	M30	136	23144	2xFR370x10	TS52	TSA52	4,2	37	51	90
SD3148-G	240	260	400	700	260	95	148	240	310	475	600	150	12	M30	190	23148	2xFR400x10	TS56	TSA56	5,2	37	51	100
SD3152-G	260	280	440	770	280	100	164	260	320	515	650	160	13	M36	238	23152	2xFR440x10	TS60	TSA60	6,7	43	60	105
SD3156-G	280	300	460	790	280	105	166	280	320	550	670	160	16	M36	252	23156	2xFR460x10	TS64	TSA64	7	43	60	105
SD3160-G	300	320	500	830	310	110	180	300	350	590	710	190	22	M36	290	23160	2xFR500x10	TS68	TSA68	10	43	60	110
SD3164-G	320	340	540	880	330	115	196	320	370	630	750	200	23	M36	340	23164	2xFR540x10	TS72	TSA72	12	43	51	120
SD3168-G	340	360	580	950	360	120	210	340	400	675	810	220	24	M36	380	23168	2xFR580x10	TS76	TSA76	18	43	51	148
SD3172-G	360	380	600	1000	360	120	212	350	400	695	840	220	30	M36	420	23172	2xFR600x10	TS80	TSA80	18	43	51	148
SD3176-G	380	400	620	1040	360	120	214	360	400	715	870	220	30	M36	490	23176	2xFR620x10	TS84	TSA84	23	43	51	150
SD3180-G	400	430	650	1120	390	125	220	380	430	755	950	240	30	M42	570	23180	2xFR650x10	TS92	TSA92	23	43	51	160
SD3184-G	420	450	700	1170	420	130	244	410	460	810	1000	260	35	M42	610	23184	2xFR700x10	TS96	TSA96	32	50	70	175
SD3188-G	440	470	720	1220	430	135	246	420	460	835	1030	260	35	M42	770	23188	2xFR720x10	TS500	TSA500	32	48	60	175
SD3192-G	460	500	760	1280	440	148	260	440	480	875	1070	260	35	M42	830	23192	2xFR760x10	TS530	TSA530	40	48	60	188
SD3196-G	480	520	790	1330	440	155	268	460	480	920	1110	260	35	M42	930	23196	2xFR790x10	TS560	TSA560	40	56	70	192



Article	d	D	a	b	c	g	h	L1	w	m	n	J	x	Z	S Bolt	kg	Bearing	Sleeve	Locating-Ring	Seal	End cover	u	v
SD3134-TAC	150	280	510	180	70	108	170	308	335	430	100	14	65	123	M24	70	23134K	H3134	2xFR280x10	TAC34	EP-34	30	42
SD3136-TAC	160	300	530	190	75	116	180	318	355	450	110	15	68	128	M24	72	23136K	H3136	2xFR300x10	TAC36	EP-36	30	42
SD3138-TAC	170	320	560	210	80	124	190	336	375	480	120	10	80	129	M24	88	23138K	H3138	2xFR320x10	TAC38	EP-38	30	42
SD3140-TAC	180	340	610	230	85	132	210	356	410	510	130	10	82	139	M30	122	23140K	H3140	2xFR340x10	TAC40	EP-40	37	51
SD3144-TAC	200	370	640	240	90	140	220	368	435	540	140	12	90	143	M30	136	23144K	H3144	2xFR370x10	TAC44	EP-44	37	51
SD3148-TAC	220	400	700	260	95	148	240	388	475	600	150	12	100	153	M30	190	23148K	HOH3148	2xFR400x10	TAC48	EP-48	37	51
SD3152-TAC	240	440	770	280	100	164	260	400	515	650	160	13	105	162	M36	238	23152K	HOH3152	2xFR440x10	TAC52	EP-52	43	60
SD3156-TAC	260	460	790	280	105	166	280	400	550	670	160	16	105	162	M36	252	23156K	HOH3156	2xFR460x10	TAC56	EP-56	43	60
SD3160-TAC	280	500	830	310	110	180	300	426	590	710	190	22	110	175	M36	290	23160K	HOH3160	2xFR500x10	TAC60	EP-60	43	60
SD3164-TAC	300	540	880	330	115	196	320	448	630	750	200	23	120	186	M36	340	23164K	HOH3164	2xFR540x10	TAC64	EP-64	43	51
SD3168-TAC	320	580	950	360	120	210	340	492	675	810	220	24	155	206	M36	380	23168K	HOH3168	2xFR580x10	TAC68	EP-68	43	51
SD3172-TAC	340	600	1000	360	120	212	350	498	695	840	220	30	160	218	M36	420	23172K	HOH3172	2xFR600x10	TAC72	EP-72	43	51
SD3176-TAC	360	620	1040	360	120	214	360	518	715	870	220	30	165	222	M36	490	23176K	HOH3176	2xFR620x10	TAC76	EP-76	43	51
SD3180-TAC	380	650	1120	390	125	220	380	548	755	950	240	30	160	233	M42	570	23180K	HOH3180	2xFR650x10	TAC80	EP-80	43	51
SD3184-TAC	400	700	1170	420	130	244	410	554	810	1000	260	35	175	238	M42	610	23184K	HOH3184	2xFR700x10	TAC84	EP-84	50	70
SD3188-TAC	410	720	1220	430	135	246	420	552	835	1030	260	35	175	242	M42	770	23188K	HOH3188	2xFR720x10	TAC88	EP-84	48	60
SD3192-TAC	430	760	1280	440	148	260	440	578	875	1070	260	35	188	248	M42	830	23192K	HOH3192	2xFR760x10	TAC92	EP-84	48	60
SD3196-TAC	450	790	1330	440	155	268	460	586	920	1110	260	35	192	252	M42	930	23196K	HOH3196	2xFR790x10	TAC96	EP-96	56	70



Article	d	D	a	b	c	g	h	L	L2	w	m	n	J	x	S Bolt	kg	Bearing	Sleeve	Locating-Ring	Seal	End cover	u	v
SD3134-TNF	150	280	510	180	70	108	170	230	275	335	430	100	14	65	M24	70	23134K	H3134	2xFR280x10	TNF34	TSA34	30	42
SD3136-TNF	160	300	530	190	75	116	180	240	284	355	450	110	15	68	M24	72	23136K	H3136	2xFR300x10	TNF36	TSA36	30	42
SD3138-TNF	170	320	560	210	80	124	190	260	305	375	480	120	10	80	M24	88	23138K	H3138	2xFR320x10	TNF38	TSA38	30	42
SD3140-TNF	180	340	610	230	85	132	210	280	325	410	510	130	10	82	M30	122	23140K	H3140	2xFR340x10	TNF40	TSA40	37	51
SD3144-TNF	200	370	640	240	90	140	220	290	335	435	540	140	12	90	M30	136	23144K	H3144	2xFR370x10	TNF44	TSA44	37	51
SD3148-TNF	220	400	700	260	95	148	240	310	355	475	600	150	12	100	M30	190	23148K	HOH3148	2xFR400x10	TNF48	TSA48	37	51
SD3152-TNF	240	440	770	280	100	164	260	320	365	515	650	160	13	105	M36	238	23152K	HOH3152	2xFR440x10	TNF52	TSA52	43	60
SD3156-TNF	260	460	790	280	105	166	280	320	365	550	670	160	16	105	M36	252	23156K	HOH3156	2xFR460x10	TNF56	TSA56	43	60
SD3160-TNF	280	500	830	310	110	180	300	350	394	590	710	190	22	110	M36	290	23160K	HOH3160	2xFR500x10	TNF60	TSA60	43	60
SD3164-TNF	300	540	880	330	115	196	320	370	415	630	750	200	23	120	M36	340	23164K	HOH3164	2xFR540x10	TNF64	TSA64	43	51
SD3168-TNF	320	580	950	360	120	210	340	400	445	675	810	220	24	155	M36	380	23168K	HOH3168	2xFR580x10	TNF68	TSA68	43	51
SD3172-TNF	340	600	1000	360	120	212	350	400	445	695	840	220	30	160	M36	420	23172K	HOH3172	2xFR600x10	TNF72	TSA72	43	51
SD3176-TNF	360	620	1040	360	120	214	360	400	445	715	870	220	30	165	M36	490	23176K	HOH3176	2xFR620x10	TNF76	TSA76	43	51
SD3180-TNF	380	650	1120	390	125	220	380	430	475	755	950	240	30	160	M42	570	23180K	HOH3180	2xFR650x10	TNF80	TSA80	43	51
SD3184-TNF	400	700	1170	420	130	244	410	460	505	810	1000	260	35	175	M42	610	23184K	HOH3184	2xFR700x10	TNF84	TSA84	50	70
SD3188-TNF	410	720	1220	430	135	246	420	460	505	835	1030	260	35	175	M42	770	23188K	HOH3188	2xFR720x10	TNF88	TSA84	48	60
SD3192-TNF	430	760	1280	440	148	260	440	480	542	875	1070	260	35	188	M42	830	23192K	HOH3192	2xFR760x10	TNF92	TSA84	48	60
SD3196-TNF	450	790	1330	440	155	268	460	480	542	920	1110	260	35	192	M42	930	23196K	HOH3196	2xFR790x10	TNF96	TSA96	56	70



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