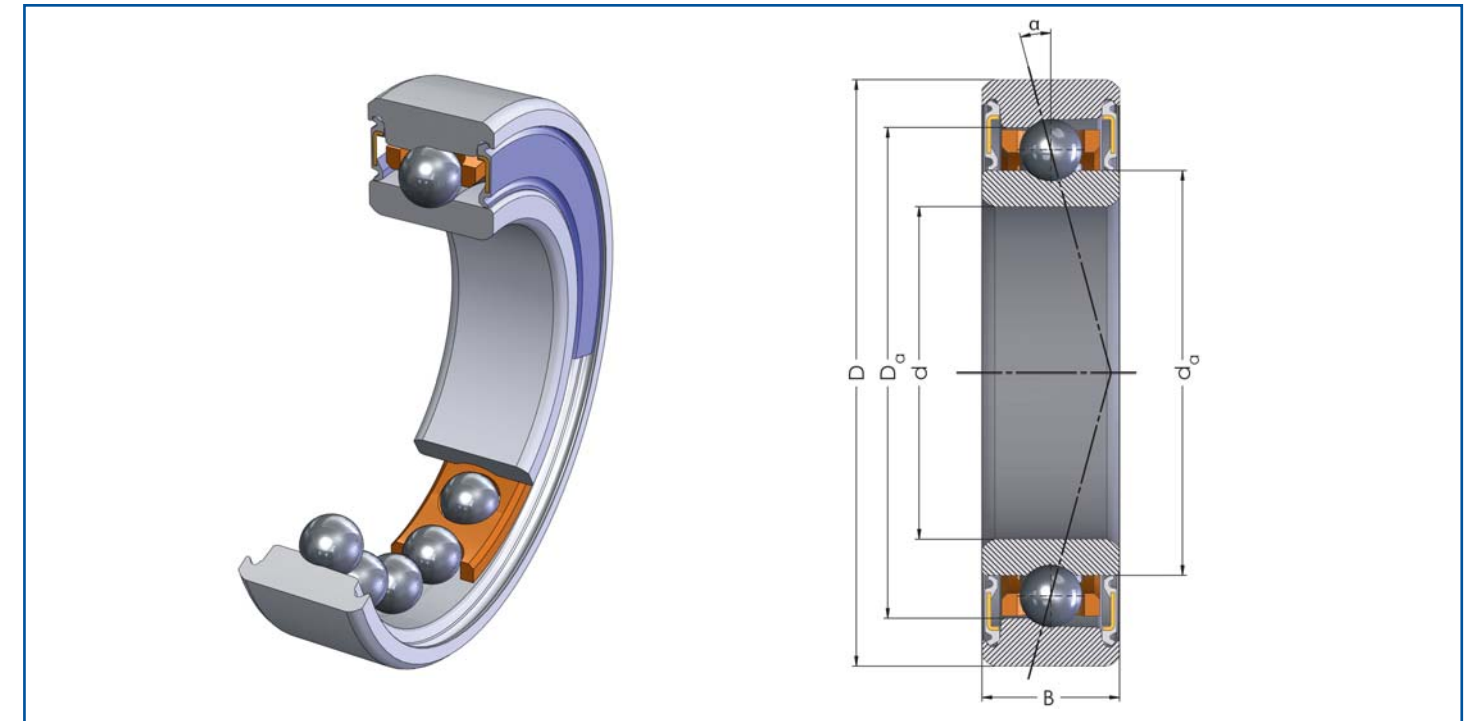
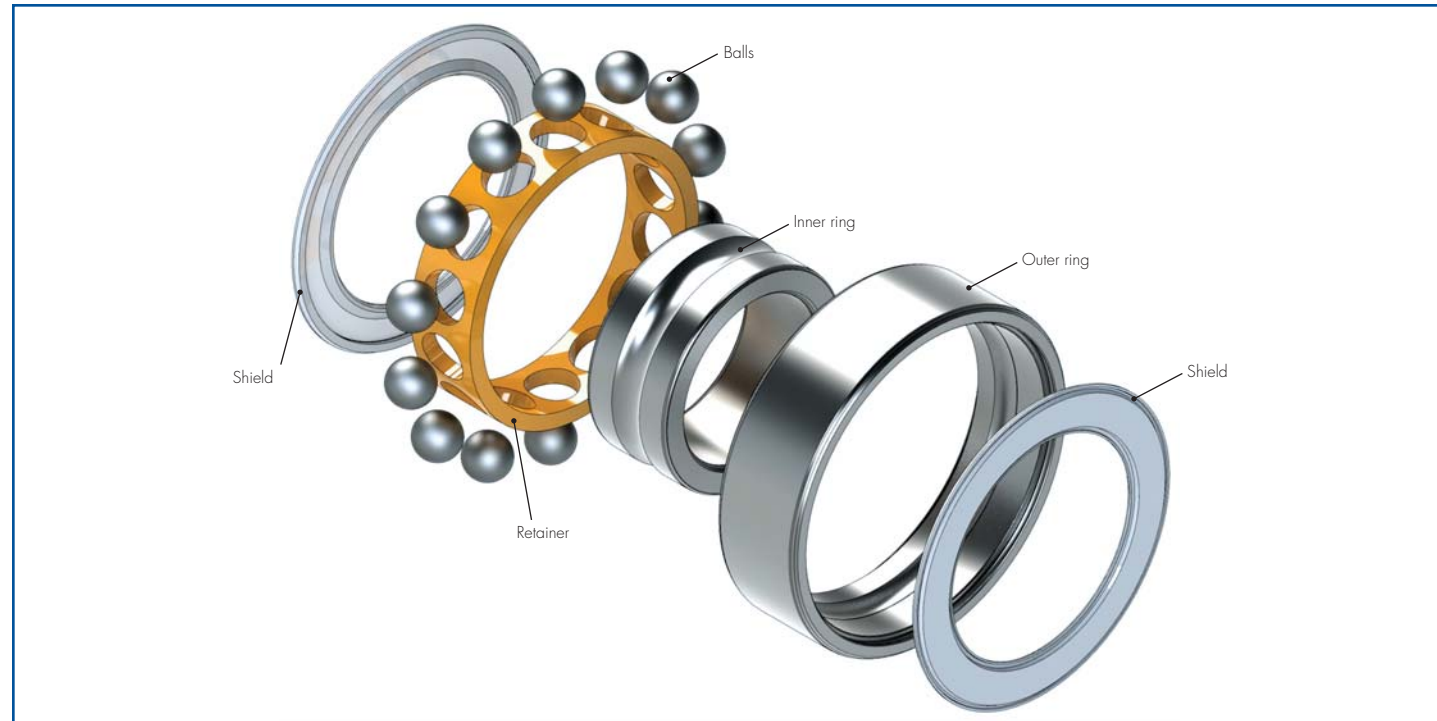


Designation system for spindle ball bearings



Ball material	Ring material	Basic mark	Closure	Contact angle	Quality class
-	-	705	-	C	P4
HY	SS	7000	-Z	E	P4S
ZO	SV	795	-2Z	D = ... °	
		7900	-VZ		
		705B	-2VZ		
- steel balls	- 100Cr6	70.. Series 10	- open ball bearing	C 15°	P4 acc. to DIN 620-2
HY ceramic balls made of Si ₃ N ₄	SS X65Cr13	79.. Series 19	-Z one metal shield	E 25°	P4S dimension accuracy P4, running accuracy P2, acc. to DIN 620-2
ZO ceramic balls made of ZrO ₂	SV X30CrMoN15-1 Standard	705B Modified internal design	-2Z two metal shields -VZ one Viton shield -2VZ two Viton shields	other contact angles available on request, e.g. D = 20°	
All Variants are non-contact closures					

Retainer design	Diameter grading	Duplex type	Preload value	Lubricant quantity	Lubricants
TA	-	-	-	-	-
TB	X	U	L	... %	L...
AC2TA	XB	DB	M		G...
L2TA	XD	DF	S		L299
	X4	DT	/X		
	X4B				
	X4D				
TA solid retainer made of fiber-reinforced phenolic resin guided by outer ring	- without diameter grading	- single bearing not duplexed	- without preload	- Standard grease quantity 20 % of free bearing volume with closed spindle bearing	- open bearings are preserved with oil L001, closed bearings are greased with 20% grease
TB same as TA, with guide at inner ring	X bore and outside diameter graded in 2 classes	U universally duplexed	L light	... % adjusted lubricant quantity in [%] of free bearing volume	L... Oil
TA other retainer materials available on request	XB bore graded in 2 classes	Bearing pair:	M medium		G... Grease
-TA angular contact shoulder on outer ring (standard)	XD outside diameter graded in 2 classes	DB 2 bearings in O arrangement	S heavy		L299 dry bearing
-TB angular contact shoulder on inner ring	X4 bore and outside diameter graded in 4 classes	DF 2 bearings in X arrangement	/X preload value in [N] if other than L, M, S.		
AC2 angular contact shoulder on inner ring	X4B bore graded in 4 classes	DT 2 bearings in Tandem arrangement			
L2TA inner ring can be dismounted, solid retainer keeps the balls from falling out	X4D outside diameter graded in 4 classes		Example: Spindle ball bearing U/10 (= universally paired with 10 N preload)		

Spindle bearings

GRW designation	Main dimensions in [mm]			Load ratings acc. to DIN ISO		Ball set Z	Dw [mm]	Limiting speeds*		Preload		
	d	D	B	C _{0r} [N]	C _r [N]			Oil [min ⁻¹]	Grease [min ⁻¹]	(L) light [N]	(M) medium [N]	(S) heavy [N]

AC bearings, open, metric

SV723 C TA	3.00	10.00	4.00	170	506	8	1.588	254000	209000	5	8	16
HYSV723 C TA	3.00	10.00	4.00	119	506	8	1.588	373000	269000	5	8	16
SV774 C TA	4.00	7.00	2.00	77	223	10	1.000	309000	255000	5	7	10
HYSV774 C TA	4.00	7.00	2.00	54	223	10	1.000	455000	327000	5	7	10
SV724 C TA	4.00	13.00	5.00	364	1037	8	2.381	195000	161000	5	16	32
HYSV724 C TA	4.00	13.00	5.00	255	1037	8	2.381	287000	206000	5	16	32
SV734 C TA	4.00	16.00	5.00	721	1594	9	2.500	157000	130000	8	24	49
HYSV734 C TA	4.00	16.00	5.00	504	1594	9	2.500	231000	167000	8	24	49
SV725 C TA	5.00	16.00	5.00	721	1594	9	2.500	157000	130000	8	24	49
HYSV725 C TA	5.00	16.00	5.00	504	1594	9	2.500	231000	167000	8	24	49
SV735 C TA	5.00	19.00	6.00	1277	2612	10	3.175	127000	105000	13	40	80
HYSV735 C TA	5.00	19.00	6.00	894	2612	10	3.175	187000	135000	13	40	80
SV786 C TA	6.00	13.00	3.50	354	895	10	1.984	175000	144000	5	14	28
HYSV786 C TA	6.00	13	3.50	247	895	10	1.984	258000	186000	5	14	28
SV786 E TA	6.00	13.00	3.50	332	856	10	1.984	149000	123000	5	14	28
HYSV786 E TA	6.00	13.00	3.50	232	856	10	1.984	219000	158000	5	14	28
SV786/001 C TA	6.00	13.00	5.00	354	895	10	1.984	175000	144000	5	14	28
HYSV786/001 C TA	6.00	13.00	5.00	247	895	10	1.984	258000	186000	5	14	28
SV726 C TA	6.00	19.00	6.00	1277	2612	10	3.175	127000	105000	13	40	80
HYSV726 C TA	6.00	19.00	6.00	894	2612	10	3.175	187000	135000	13	40	80
SV707 C TA	7.00	19.00	6.00	1277	2612	10	3.175	127000	105000	13	40	80
HYSV707 C TA	7.00	19.00	6.00	894	2612	10	3.175	187000	135000	13	40	80
SV727 C TA	7.00	22.00	7.00	1693	3511	9	3.969	116000	95000	18	54	108
HYSV727 C TA	7.00	22.00	7.00	1185	3511	9	3.969	170000	122000	18	54	108
SV788 C TA	8.00	16.00	4.00	569	1377	10	2.500	142000	117000	7	21	42

GRW designation	Main dimensions in [mm]			Load ratings acc. to DIN ISO		Ball set Z	Dw [mm]	Limiting speeds*		Preload		
	d	D	B	C _{0r} [N]	C _r [N]			Oil [min ⁻¹]	Grease [min ⁻¹]	(L) light [N]	(M) medium [N]	(S) heavy [N]

AC bearings, open, metric

HYSV788 C TA	8.00	16.00	4.00	398	1377	10	2.500	208000	150000	7	21	42
SV788 E TA	8.00	16.00	4.00	534	1317	10	2.500	120000	99000	7	21	42
HYSV788 E TA	8.00	16.00	4.00	374	1317	10	2.500	177000	128000	7	21	42
SV708 C TA	8.00	22.00	7.00	1693	3511	9	3.969	116000	95000	18	54	108
HYSV708 C TA	8.00	22.00	7.00	1185	3511	9	3.969	170000	122000	18	54	108
SV708 E TA	8.00	22.00	7.00	1589	3358	9	3.969	98000	81000	18	54	108
HYSV708 E TA	8.00	22.00	7.00	1112	3358	9	3.969	145000	104000	18	54	108
SV789 C TA	9.00	17.00	4.00	642	1471	11	2.500	131000	108000	8	23	45
HYSV789 C TA	9.00	17.00	4.00	450	1471	11	2.500	192000	138000	8	23	45
SV709 C TA	9.00	24.00	7.00	1974	3844	10	3.969	105000	86000	20	59	118
HYSV709 C TA	9.00	24.00	7.00	1382	3844	10	3.969	154000	111000	20	59	118
SV729 C TA	9.00	26.00	8.00	2737	5137	10	4.763	94000	78000	26	79	158
HYSV729 C TA	9.00	26.00	8.00	1916	5137	10	4.763	139000	100000	26	79	158
SV780 C TA	10.00	19.00	5.00	724	1556	12	2.500	117000	97000	8	24	48
HYSV780 C TA	10.00	19.00	5.00	507	1556	12	2.500	172000	124000	8	24	48
SV780 E TA	10.00	19.00	5.00	680	1488	12	2.500	100000	82000	8	24	48
HYSV780 E TA	10.00	19.00	5.00	476	1488	12	2.500	147000	106000	8	24	48
SV7900 C TA	10.00	22.00	6.00	1500	2824	11	3.175	107000	88000	15	44	88
HYSV7900 C TA	10.00	22.00	6.00	1050	2824	11	3.175	157000	113000	15	44	88
SV7900A E TA	10.00	22.00	6.00	1407	2700	11	3.175	90000	74000	15	44	88
HYSV7900A E TA	10.00	22.00	6.00	985	2700	11	3.175	133000	96000	15	44	88
SV7000 C TA	10.00	26.00	8.00	2737	5137	10	4.763	94000	78000	26	79	158
HYSV7000 C TA	10.00	26.00	8.00	1916	5137	10	4.763	139000	100000	26	79	158

* The indicated speed limits are guidelines for spring-loaded single bearings with low loads; depending on the respective application, higher or lower speed limits may apply in application.

** For use with oil lubrication, these bearings are also available without shields. Almost all bearing types can also be enhanced with GRW XTRA. Detailed information you can find on page 79 and following.

• Subject to change. Additional types on request!

Spindle bearings

GRW designation	Main dimensions in [mm]			Load ratings acc. to DIN ISO		Ball set	Limiting speeds*		Preload		
	d	D	B	C _{0r} [N]	C _r [N]		Oil [min ⁻¹]	Grease [min ⁻¹]	(L) light [N]	(M) medium [N]	(S) heavy [N]

AC bearings, open, metric

SV7000 E TA	10.00	26.00	8.00	2568	4913	10	4.763	80000	66000	26	79	158
HYSV7000 E TA	10.00	26.00	8.00	1798	4913	10	4.763	118000	85000	26	79	158
SV7200 C TA	10.00	30.00	9.00	3192	5597	11	4.763	83000	68000	29	86	172
HYSV7200 C TA	10.00	30.00	9.00	2235	5597	11	4.763	122000	88000	29	86	172
SV7200 E TA	10.00	30.00	9.00	2995	5353	11	4.763	71000	58000	29	86	172
HYSV7200 E TA	10.00	30.00	9.00	2097	5353	11	4.763	104000	75000	29	86	172
SV7801 C TA	12.00	21.00	5.00	794	1543	14	2.381	103000	84000	8	24	48
HYSV7801 C TA	12.00	21.00	5.00	556	1543	14	2.381	151000	109000	8	24	48
SV7801 E TA	12.00	21.00	5.00	745	1476	14	2.381	87000	72000	8	24	48
HYSV7801 E TA	12.00	21.00	5.00	521	1476	14	2.381	128000	92000	8	24	48
SV7901 C TA	12.00	24.00	6.00	1700	2992	12	3.175	94000	78000	15	46	92
HYSV7901 C TA	12.00	24.00	6.00	1190	2992	12	3.175	139000	100000	15	46	92
SV7901 E TA	12.00	24.00	6.00	1595	2861	12	3.175	80000	66000	15	46	92
HYSV7901 E TA	12.00	24.00	6.00	1117	2861	12	3.175	118000	85000	15	46	92
SV7001 C TA	12.00	28.00	8.00	2590	4423	12	3.969	82000	68000	23	68	136
HYSV7001 C TA	12.00	28.00	8.00	1813	4423	12	3.969	121000	87000	23	68	136
SV7001 E TA	12.00	28.00	8.00	2430	4230	12	3.969	70000	58000	23	68	136
HYSV7001 E TA	12.00	28.00	8.00	1701	4230	12	3.969	103000	74000	23	68	136
SV7201C C TA	12.00	32.00	10.00	3806	7652	9	5.953	77000	64000	39	118	235
HYSV7201C C TA	12.00	32.00	10.00	2664	7652	9	5.953	114000	82000	39	118	235
SV7201C E TA	12.00	32.00	10.00	3571	7318	9	5.953	66000	54000	39	118	235
HYSV7201C E TA	12.00	32.00	10.00	2500	7318	9	5.953	97000	70000	39	118	235
SV7802 C TA	15.00	24.00	5.00	1054	1784	18	2.381	87000	72000	9	27	55
HYSV7802 C TA	15.00	24.00	5.00	738	1784	18	2.381	128000	92000	9	27	55
SV7802 E TA	15.00	24.00	5.00	989	1706	18	2.381	74000	61000	9	27	55

GRW designation	Main dimensions in [mm]			Load ratings acc. to DIN ISO		Ball set	Limiting speeds*		Preload		
	d	D	B	C _{0r} [N]	C _r [N]		Oil [min ⁻¹]	Grease [min ⁻¹]	(L) light [N]	(M) medium [N]	(S) heavy [N]

AC bearings, open, metric

HYSV7802 E TA	15.00	24.00	5.00	692	1706	18	2.381	109000	78000	9	27	55
SV7902 C TA	15.00	28.00	7.00	2841	4666	13	3.969	79000	65000	24	72	143
HYSV7902 C TA	15.00	28.00	7.00	1989	4666	13	3.969	116000	84000	24	72	143
SV7902 E TA	15.00	28.00	7.00	2665	4463	13	3.969	67000	55000	24	72	143
HYSV7902 E TA	15.00	28.00	7.00	1866	4463	13	3.969	99000	71000	24	72	143
SV7002 C TA	15.00	32.00	9.00	3970	6327	13	4.763	72000	60000	32	97	194
HYSV7002 C TA	15.00	32.00	9.00	2779	6327	13	4.763	106000	77000	32	97	194
SV7002 E TA	15.00	32.00	9.00	3725	6051	13	4.763	62000	51000	32	97	194
HYSV7002 E TA	15.00	32.00	9.00	2607	6051	13	4.763	90000	65000	32	97	194
SV7202 C TA	15.00	35.00	11.00	4090	6970	13	4.763	97000	63000	30	60	120
SV7202 E TA	15.00	35.00	11.00	3930	6650	13	4.763	85000	55000	45	90	180
SV7803 C TA	17.00	26.00	5.00	1071	1754	18	2.381	79000	65000	9	27	54
HYSV7803 C TA	17.00	26.00	5.00	750	1754	18	2.381	116000	84000	9	27	54
SV7803 E TA	17.00	26.00	5.00	1005	1677	18	2.381	67000	55000	9	27	54
HYSV7803 E TA	17.00	26.00	5.00	704	1677	18	2.381	99000	71000	9	27	54
SV7903 C TA	17.00	30.00	7.00	3137	4888	14	3.969	72000	60000	25	75	150
HYSV7903 C TA	17.00	30.00	7.00	2196	4888	14	3.969	106000	77000	25	75	150
SV7903 E TA	17.00	30.00	7.00	2944	4675	14	3.969	61000	51000	25	75	150
HYSV7903 E TA	17.00	30.00	7.00	2061	4675	14	3.969	90000	65000	25	75	150
SV7003 C TA	17.00	35.00	10.00	4571	6817	14	4.763	65000	54000	34	102	205
HYSV7003 C TA	17.00	35.00	10.00	3200	6817	14	4.763	96000	69000	34	102	205
SV7003 E TA	17.00	35.00	10.00	4571	6817	14	4.763	56000	46000	34	102	205
HYSV7003 E TA	17.00	35.00	10.00	3200	6817	14	4.763	82000	59000	34	102	205

* The indicated speed limits are guidelines for spring-loaded single bearings with low loads; depending on the respective application, higher or lower speed limits may apply in application.

** For use with oil lubrication, these bearings are also available without shields. Almost all bearing types can also be enhanced with GRW XTRA. Detailed information you can find on page 79 and following.

• Subject to change. Additional types on request!

Spindle bearings

GRW designation	Main dimensions in [mm]			Load ratings acc. to DIN ISO		Ball set	Dw [mm]	Limiting speeds*		Preload		
	d	D	B	C _{0r} [N]	C _r [N]			Oil [min ⁻¹]	Grease [min ⁻¹]	(L) light [N]	(M) medium [N]	(S) heavy [N]

AC bearings, open, metric

SV7203 C TA	17.00	40.00	12.00	5090	8730	12	5.556	85000	55000	35	70	140
	.6693	1.5748	.4724				.2187					
SV7203 E TA	17.00	40.00	12.00	4860	8340	12	5.556	75000	49000	60	120	240
	.6693	1.5748	.4724				.2187					
SV7804 C TA	20.00	32.00	7.00	2772	3772	18	3.175	65000	54000	19	58	115
	.7874	1.2598	.2756				.1250					
HYSV7804 C TA	20.00	32.00	7.00	1941	3772	18	3.175	96000	69000	19	58	115
	.7874	1.2598	.2756				.1250					
SV7804 E TA	20.00	32.00	7.00	2870	3865	18	3.175	56000	46000	19	58	115
	.7874	1.2598	.2756				.1250					
HYSV7804 E TA	20.00	32.00	7.00	2009	3772	18	3.175	82000	59000	19	58	115
	.7874	1.2598	.2756				.1250					
SV7904 C TA	20.00	37.00	9.00	4854	7543	15	4.763	60000	49000	39	116	232
	.7874	1.4567	.3543				.1875					
HYSV7904 C TA	20.00	37.00	9.00	3398	7543	15	4.763	88000	63000	39	116	232
	.7874	1.4567	.3543				.1875					
SV7904 E TA	20.00	37.00	9.00	4554	7214	15	4.763	51000	42000	39	116	232
	.7874	1.4567	.3543				.1875					
HYSV7904 E TA	20.00	37.00	9.00	3188	7214	15	4.763	75000	54000	39	116	232
	.7874	1.4567	.3543				.1875					
SV7004 C TA	20.00	42.00	12.00	6090	9660	14	5.556	75000	49000	35	70	140
	.7874	1.6535	.4724				.2187					
SV7004 E TA	20.00	42.00	12.00	5810	9210	14	5.556	66000	43000	55	110	220
	.7874	1.6535	.4724				.2187					
SV7204 C TA	20.00	47.00	14.00	7320	11700	13	6.350	72000	47000	45	90	180
	.7874	1.8504	.5512				.2500					
SV7204 E TA	20.00	47.00	14.00	7010	11100	13	6.350	63000	41000	70	140	280
	.7874	1.8504	.5512				.2500					
SV7805 C TA	25.00	37.00	7.00	2335	3397	19	3.175	55000	45000	17	52	104
	.9843	1.4567	.2756				.1250					
HYSV7805 C TA	25.00	37.00	7.00	1634	3397	19	3.175	81000	58000	17	52	104
	.9843	1.4567	.2756				.1250					
SV7005 C TA	25.00	47.00	12.00	6918	11769	12	6.747	47000	39000	59	177	353
	.9843	1.8504	.4724				.2656					
HYSV7005 C TA	25.00	47.00	12.00	4843	11769	12	6.747	69000	50000	59	177	353
	.9843	1.8504	.4724				.2656					
SV7005 E TA	25.00	47.00	12.00	6890	9920	16	5.556	57000	37000	55	110	220
	.9843	1.8504	.4724				.2187					
(SV)7205 C TA	25.00	52.00	15.00	8710	12800	15	6.350	63000	41000	50	100	200
	.9843	2.0472	.5906				.2500					
(SV)7205 E TA	25.00	52.00	15.00	8330	12100	15	6.350	55000	36000	80	160	320
	.9843	2.0472	.5906				.2500					
(SV)7006 C TA	30.00	55.00	13.00	9010	12100	17	5.953	55000	36000	40	80	160
	1.1811	2.1654	.5118				.2344					
(SV)7006 E TA	30.00	55.00	13.00	8560	11500	17	5.953	48000	31000	65	130	260
	1.1811	2.1654	.5118				.2344					

GRW designation	Main dimensions in [mm]			Load ratings acc. to DIN ISO		Ball set	Dw [mm]	Limiting speeds*		Preload		
	d	D	B	C _{0r} [N]	C _r [N]			Oil [min ⁻¹]	Grease [min ⁻¹]	(L) light [N]	(M) medium [N]	(S) heavy [N]

AC bearings, open, inch

SV3/16 C TA	4.763	12.700	3.967	312	913	8	2.381	195000	161000	5	14	28
	.1875	.5000	.1562				.0937					
HYSV3/16 C TA	4.763	12.700	3.967	218	913	8	2.381	287000	206000	5	14	28
	.1875	.5000	.1562				.0937					
SV3/16 D TA	4.764	12.800	3.967	293	873	8	2.381	166000	136000	5	14	28
	.1876	.5039	.1562				.0937					
HYSV3/16 D TA	4.765	12.900	3.967	205	873	8	2.381	244000	175000	5	14	28
	.1876	.5079	.1562				.0937					
SV1/4A C TA	6.350	15.875	4.978	421	1114	9	2.500	153000	126000	6	17	34
	.2500	.6250	.1960				.0984					
HYSV1/4A C TA	6.350	15.875	4.978	295	1114	9	2.500	225000	162000	6	17	34
	.2500	.6250	.1960				.0984					
SV1/2/001 C TA	12.700	28.575	7.938	2063	4066	12	3.969	82000	68000	20	61	121
	.5000	1.1250	.3125				.1563					
HYSV1/2/001 C TA	12.700	28.575	7.938	1444	4066	12	3.969	121000	87000	20	61	121
	.5000	1.1250	.3125				.1563					

AC bearings, dismountable, metric and inch

SV784 D L2T	4.00	9.00	2.50	132	457	7	1.588	242000	199000	5	8	15
	.1575	.3543	.0984				.0625					
HYSV784 D L2T	4.00	9.00	2.50	94	457	7	1.588	355000	256000	5	8	15
	.1575	.3543	.0984				.0625					
SV725 C L2T	5.00	16.00	5.00	737	1626	9	2.500	157000	130000	8	24	49
	.1969	.6299	.1969				.0984					
HYSV725 C L2T	5.00	16.00	5.00	515	1626	9	2.500	231000	167000	8	24	49
	.1969	.6299	.1969				.0984					
SV725 D L2T	5.00	16.00	5.00	737	1626	9	2.500	134000	110000	8	24	49
	.1969	.6299	.1969				.0984					
HYSV725 D L2T	5.00	16.00	5.00	515	1626	9	2.500	197000	142000	8	24	49
	.1969	.6299	.1969				.0984					
SV707 C L2T	7.00	19.00	6.00	1183	2617	10	3.175	127000	105000	13	40	80
	.2756	.7480	.2362				.1250					
HYSV707 C L2T	7.00	19.00	6.00	828	2617	10	3.175	187000	135000	13	40	80
	.2756	.7480	.2362				.1250					
SV7000 C L2T	10.00	26.00	8.00	2550	4906	10	4.763	94000	78000	28	85	170
	.3937	1.0236	.3150				.1875					
HYSV7000 C L2T	10.00	26.00	8.00	1785	4906	10	4.763	139000	100000	28	85	170
	.3937	1.0236	.3150				.1875					
SV1/8A D20 L2T	3.175	7.938	2.779	207	609	7	1.588	266000	219000	5	8	16
	.1250	.3125	.1094				.0625					
HYSV1/8A D20 L2T	3.175	7.938	2.779	144	609	7	1.588	392000	282000	5	8	16
	.1250	.3125	.1094				.0625					
SV1/8B D20 L2T	3.175	9.525	3.967	134	461	8	1.588	228000	188000	5	10	20
	.1250	.3750	.1562				.0625					
HYSV1/8B D20 L2T	3.175	9.525	3.967	95	461	8	1.588	336000	242000	5	10	20
	.1250	.3750	.1562				.0625					

* The indicated speed limits are guidelines for spring-loaded single bearings with low loads; depending on the respective application, higher or lower speed limits may apply in application.
 ** For use with oil lubrication, these bearings are also available without shields.
 • Almost all bearing types can also be enhanced with GRW **XTTRA**. Detailed information you can find on page 79 and following.
 • Subject to change. Additional types on request!

Spindle bearings

GRW designation	Main dimensions in [mm] [inch]			Load ratings acc. to DIN ISO		Ball set Z	Dw [mm] [inch]	Limiting speeds*		Preload		
	d	D	B	C _{0r} [N]	C _r [N]			Oil [min ⁻¹]	Grease [min ⁻¹]	(L) light [N]	(M) medium [N]	(S) heavy [N]

AC bearings, sealed, metric

SV725A-2VZ C TA	5.00 .1969	16.00 .6299	5.00 .1969	647	1305	12	1.984 .0781	194000**	155000	7	20	40
HYSV725A-2VZ C TA	5.00 .1969	16.00 .6299	5.00 .1969	453	1305	12	1.984 .0781	290000**	194000	7	20	40
SV725A-2VZ E TA	5.00 .1969	16.00 .6299	5.00 .1969	607	1248	12	1.984 .0781	165000**	132000	7	20	40
SV788B-2VZ C TA	8.00 .3150	16.00 .6299	4.00 .1575	723	1374	13	1.984 .0781	174000**	139000	7	21	42
HYSV788B-2VZ C TA	8.00 .3150	16.00 .6299	4.00 .1575	506	1374	13	1.984 .0781	261000**	174000	7	21	42
SV708B-2VZ C TA	8.00 .3150	22.00 .8661	7.00 .2756	1298	2625	10	3.175 .1250	144000**	115000	13	40	80
HYSV708B-2VZ C TA	8.00 .3150	22.00 .8661	7.00 .2756	909	2625	10	3.175 .1250	216000**	144000	13	40	80
SV708B-2VZ E TA	8.00 .3150	22.00 .8661	7.00 .2756	1218	2510	10	3.175 .1250	122000**	98000	13	40	80
HYSV708B-2VZ E TA	8.00 .3150	22.00 .8661	7.00 .2756	853	2510	10	3.175 .1250	183000**	122000	13	40	80
SV709A-2VZ C TA	9.00 .3543	24.00 .9449	7.00 .2756	1493	2822	11	3.175 .1250	128000**	102000	14	43	86
HYSV709A-2VZ C TA	9.00 .3543	24.00 .9449	7.00 .2756	1045	2822	11	3.175 .1250	191000**	128000	14	43	86
SV7800A-2VZ C TA	10.00 .3937	19.00 .7480	5.00 .1969	876	1487	15	1.984 .0781	143000**	114000	8	23	46
HYSV7800A-2VZ C TA	10.00 .3937	19.00 .7480	5.00 .1969	613	1487	15	1.984 .0781	215000**	143000	8	23	46
SV7900B-2VZ C TA	10.00 .3937	22.00 .8661	6.00 .2362	1173	2047	13	2.500 .0984	128000**	102000	11	33	66
HYSV7900B-2VZ C TA	10.00 .3937	22.00 .8661	6.00 .2362	821	2047	13	2.500 .0984	192000**	128000	11	33	66
SV7000A-2VZ C TA	10.00 .3937	26.00 1.0236	8.00 .3150	2030	3879	10	3.969 .1563	115000**	92000	20	60	120
SV7000A-2VZ E TA	10.00 .3937	26.00 1.0236	8.00 .3150	1905	3710	10	3.969 .1563	98000**	78000	20	60	120
HYSV7000A-2VZ E TA	10.00 .3937	26.00 1.0236	8.00 .3150	1334	3710	10	3.969 .1563	147000**	98000	20	60	120
SV7901A-2VZ C TA	12.00 .4724	24.00 .9449	6.00 .2362	1478	2329	16	2.500 .0984	115000**	92000	12	35	71
HYSV7901A-2VZ C TA	12.00 .4724	24.00 .9449	6.00 .2362	1035	2329	16	2.500 .0984	173000**	115000	12	35	71
SV7901A-2VZ E TA	12.00 .4724	24.00 .9449	6.00 .2362	1387	2227	16	2.500 .0984	98000**	79000	12	35	71
HYSV7901A-2VZ E TA	12.00 .4724	24.00 .9449	6.00 .2362	971	2227	16	2.500 .0984	147000**	98000	12	35	71
SV7001B-2VZ C TA	12.00 .4724	28.00 1.1024	8.00 .3150	2328	3603	16	3.175 .1250	101000**	80000	18	55	111
HYSV7001B-2VZ C TA	12.00 .4724	28.00 1.1024	8.00 .3150	1141	3603	16	3.175 .1250	151000**	101000	18	55	111
SV7001B-2VZ E TA	12.00 .4724	28.00 1.1024	8.00 .3150	2184	3446	16	3.175 .1250	85000**	68000	18	55	111

GRW designation	Main dimensions in [mm] [inch]			Load ratings acc. to DIN ISO		Ball set Z	Dw [mm] [inch]	Limiting speeds*		Preload		
	d	D	B	C _{0r} [N]	C _r [N]			Oil [min ⁻¹]	Grease [min ⁻¹]	(L) light [N]	(M) medium [N]	(S) heavy [N]

AC bearings, sealed, metric

HYSV7001B-2VZ E TA	12.00 .4724	28.00 1.1024	8.00 .3150	1070	3446	16	3.175 .1250	128000**	85000	18	55	111
SV7201B-2VZ E TA	12.00 .4724	32.00 1.2598	10.00 .3937	3034	5373	11	4.763 .1875	80000**	64000	29	86	173
HYSV7201B-2VZ E TA	12.00 .4724	32.00 1.2598	10.00 .3937	1487	5373	11	4.763 .1875	120000**	80000	29	86	173
SV7902A-2VZ C TA	15.00 .5906	28.00 1.1024	7.00 .2756	2359	3586	16	3.175 .1250	95000**	76000	18	55	110
HYSV7902A-2VZ C TA	15.00 .5906	28.00 1.1024	7.00 .2756	1651	3586	16	3.175 .1250	143000**	95000	18	55	110
SV7902A-2VZ E TA	15.00 .5906	28.00 1.1024	7.00 .2756	2213	3430	16	3.175 .1250	81000**	65000	18	55	110
HYSV7902A-2VZ E TA	15.00 .5906	28.00 1.1024	7.00 .2756	1549	3430	16	3.175 .1250	121000**	81000	18	55	110
SV7002A-2VZ C TA	15.00 .5906	32.00 1.2598	9.00 .3543	3337	5125	15	3.969 .1563	87000**	70000	26	79	158
HYSV7002A-2VZ C TA	15.00 .5906	32.00 1.2598	9.00 .3543	2336	5125	15	3.969 .1563	131000**	87000	26	79	158
SV7002A-2VZ E TA	15.00 .5906	32.00 1.2598	9.00 .3543	3131	4902	15	3.969 .1563	74000**	59000	26	79	158
HYSV7002A-2VZ E TA	15.00 .5906	32.00 1.2598	9.00 .3543	2192	4902	15	3.969 .1563	111000**	74000	26	79	158
SV7903A-2VZ C TA	17.00 .6693	30.00 1.1811	7.00 .2756	2402	3554	16	3.175 .1250	88000**	70000	18	55	110
HYSV7903A-2VZ C TA	17.00 .6693	30.00 1.1811	7.00 .2756	1682	3554	16	3.175 .1250	132000**	88000	18	55	110
SV7903A-2VZ E TA	17.00 .6693	30.00 1.1811	7.00 .2756	2254	3399	16	3.175 .1250	75000**	60000	18	55	110
HYSV7903A-2VZ E TA	17.00 .6693	30.00 1.1811	7.00 .2756	1578	3399	16	3.175 .1250	112000**	75000	18	55	110
SV7003-2VZ C TA	17.00 .6693	35.00 1.3780	10.00 .3937	4415	6654	14	4.763 .1875	65000**	54000	34	102	205
HYSV7003-2VZ C TA	17.00 .6693	35.00 1.3780	10.00 .3937	3091	6654	14	4.763 .1875	96000**	69000	34	102	205
SV7003-2VZ E TA	17.00 .6693	35.00 1.3780	10.00 .3937	4143	6363	14	4.763 .1875	56000**	46000	34	102	205
HYSV7003-2VZ E TA	17.00 .6693	35.00 1.3780	10.00 .3937	2900	6363	14	4.763 .1875	82000**	59000	34	102	205
SV7904A-2VZ C TA	20.00 .7874	37.00 1.4567	9.00 .3543	3868	5394	16	3.969 .1563	70000	56000	27	81	162
HYSV7904A-2VZ C TA	20.00 .7874	37.00 1.4567	9.00 .3543	2708	5394	16	3.969 .1563	105000	70000	27	81	162
SV7005A-2VZ C TA	25.00 .9843	47.00 1.8504	12.00 .4724	7909	10661	17	5.556 .2187	56000	44000	53	160	320
HYSV7005A-2VZ C TA	25.00 .9843	47.00 1.8504	12.00 .4724	5536	10661	17	5.556 .2187	83000	56000	53	160	320

* The indicated speed limits are guidelines for spring-loaded single bearings with low loads; depending on the respective application, higher or lower speed limits may apply in application.

** For use with oil lubrication, these bearings are also available without shields. Almost all bearing types can also be enhanced with GRW XTRA. Detailed information you can find on page 79 and following.

• Subject to change. Additional types on request!