

**BALL BEARINGS FOR MOTORS OF VERTICAL PUMPS  
SV - SVI**

**VERTICAL PUMPS 2 POLE , 2900 RPM**

MOTORS					BALL BEARINGS				
CONSTRUCTION		SIZE	KW	HP	N. PHASES	ND END (fan side)		D END (coupling side)	
						BB TYPE	P/N	BB TYPE	P/N
B14 / V18	SM	71	0,40	0,55	1/3	6202 DDU C3	002312702	6202 DDU C3	002312702
		71	0,55	0,75	1/3	6202 DDU C3	002312702	6202 DDU C3	002312702
		80R	0,75	1,1	1/3	6202 DDU C3	002312702	6204 DDU C3	002312708
		80	1,1	1,5	1/3	6204 DDU C3	002312708	6204 DDU C3	002312708
		90R	1,5	2	1/3	6204 DDU C3	002312708	6205 DDU C3	002312709
		90R	2,2	3	3	6204 DDU C3	002312708	6205 DDU C3	002312709
	PLM	90	2,2	3	1	6203 ZZ C3	572310206	6205 ZZ C3	572310210
		100R	3	4	3	6203 ZZ C3	572310206	6206 ZZ C3	572310212
		100S6	3	4	3	6205 ZZ C3	572310210	6206 ZZ C3	572310212
		112R	4	5,5	3	6205 ZZ C3	572310210	6306 ZZ C3	572310312
		112RS6	4	5,5	3	6205 ZZ C3	572310210	6306 ZZ C3	572310312
		B5 / V1	PLM	132R	5,5	7,5	3	6206 ZZ C3	572310212
		132	7,5	10	3	6305 ZZ C3	572310310	6308 ZZ C3	572310316
		160R	11	15	3	6305 ZZ C3	572310310	6310 ZZ C3	572310320
		160	15	20	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320
		160	18,5	25	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320
		180R	22	30	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320
		160S1	15	20	3	6307 ZZ C3	572310314	7310 BEP	572311005
		160S1	18,5	25	3	6307 ZZ C3	572310314	7310 BEP	572311005
		180RS1	22	30	3	6307 ZZ C3	572310314	7310 BEP	572311005

S6 = BB locked with shield

**VERTICAL PUMPS 4 POLE, 1450 RPM**

MOTORS					BALL BEARINGS				
CONSTRUCTION		SIZE	KW	HP	N. PHASES	ND END (fan side)		D END (coupling side)	
						BB TYPE	P/N	BB TYPE	P/N
B14 / V18	SM	71	0,25	0,30	3	6202 DDU C3	002312702	6202 DDU C3	002312702
		71	0,40	0,55	3	6202 DDU C3	002312702	6202 DDU C3	002312702
		80	0,55	0,75	3	6204 DDU C3	002312708	6204 DDU C3	002312708
		80	0,75	1,1	3	6204 DDU C3	002312708	6204 DDU C3	002312708
	PLM	90	1,1	1,5	3	6203 ZZ C3	572310206	6205 ZZ C3	572310210
		90	1,5	2	3	6203 ZZ C3	572310206	6205 ZZ C3	572310210
		100	2,2	3	3	6205 ZZ C3	572310210	6306 ZZ C3	572310312
		100	3	4	3	6306 ZZ C3	572310312	6306 ZZ C3	572310312
		112	4	5,5	3	6205 ZZ C3	572310210	6306 ZZ C3	572310312
		132	5,5	7,5	3	6305 ZZ C3	572310310	6308 ZZ C3	572310316
		132	7,5	10	3	6305 ZZ C3	572310310	6308 ZZ C3	572310316

TECHN. NOTE.  
 Typical clearance C3  
 Temperature range for useful mineral grease with NLGI 2: approx. - 20 / +120 °C

Main Supplier -> BEARING NSK 6202 DDU C3  
 2nd Supplier -> BEARING SKF 6202 2RSH C3

BALL BEARINGS FOR MOTORS OF ENHANCED SHAFT PUMPS FHE - SHE - FCE						ST-BB / ENHANCED		Page 1/1			
						1st Issue: April 2009		Last Issue: Rev.			
<b>EXTENDED SHAFT PUMPS 2 POLE , 2900 RPM</b>											
MOTORS					BALL BEARINGS						
CONSTRUCTION		SIZE	kW	HP	N. PHASES	ND END (fan side)		D END (coupling side)			
						BB TYPE	P/N	BB TYPE	P/N		
B14 / V18	SM	90RS2	0,75	1,1	1/3	6204 DDU C3	002312708	6205 DDU C3	002312709		
		90RS2	1,1	1,5	1/3	6204 DDU C3	002312708	6205 DDU C3	002312709		
		90RS2	1,5	2	1/3	6204 DDU C3	002312708	6205 DDU C3	002312709		
		90RS2	2,2	3	3	6204 DDU C3	002312708	6205 DDU C3	002312709		
	PLM	90S2	2,2	3	1	6203 ZZ C3	572310206	6205 ZZ C3	572310210		
		90S2	3	4	3	6203 ZZ C3	572310206	6205 ZZ C3	572310210		
		112RS2	4	4	3	6205 ZZ C3	572310210	6206 ZZ C3	572310212		
		112S2	5,5	7,5	3	6206 ZZ C3	572310212	6306 ZZ C3	572310312		
		132S2	7,5	10	3	6305 ZZ C3	572310310	6308 ZZ C3	572310316		
		132S2	9,2	13	3	6305 ZZ C3	572310310	6308 ZZ C3	572310316		
		132S2	11	15	3	6305 ZZ C3	572310310	6308 ZZ C3	572310316		
		160S3	15	20	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320		
		160S3	18,5	25	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320		
		160S3	22	30	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320		
		B34	PLM	160S3	15	20	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320
				160S3	18,5	25	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320
160S3	22			30	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320		
160S3	22			30	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320		
<b>EXTENDED SHAFT PUMPS 4 POLE , 1450 RPM</b>											
MOTORS					BALL BEARINGS						
CONSTRUCTION		SIZE	kW	HP	N. PHASES	ND END (fan side)		D END (coupling side)			
						BB TYPE	P/N	BB TYPE	P/N		
B5 / V1	SM	71	0,25	0,30	3	6202 DDU C3	002312702	6202 DDU C3	002312702		
		71	0,40	0,55	3	6202 DDU C3	002312702	6202 DDU C3	002312702		
		90RS2	0,55	0,75	3	6204 DDU C3	002312708	6205 DDU C3	002312709		
		90RB14S2	0,55	0,75	3	6204 DDU C3	002312708	6205 DDU C3	002312709		
		90RS2	0,75	1,1	3	6204 DDU C3	002312708	6205 DDU C3	002312709		
	PLM	90S2	1,5	2	3	6203 ZZ C3	572310206	6205 ZZ C3	572310210		
		90S3	1,5	2	3	6006 ZZ C3	572310012	6203 ZZ C3	572310206		
		100S3	2,2	3	3	6205 ZZ C3	572310210	6206 ZZ C3	572310212		
		100S3	3	4	3	6206 ZZ C3	572310212	6306 ZZ C3	572310312		
		112S3	4	5,5	3	6205 ZZ C3	572310210	6306 ZZ C3	572310312		
B14 / V18	PLM	132S3	5,5	7,5	3	6305 ZZ C3	572310310	6308 ZZ C3	572310316		
		132S4	5,5	7,5	3	6305 ZZ C3	572310310	6308 ZZ C3	572310316		
		132S4	7,5	10	3	6305 ZZ C3	572310310	6308 ZZ C3	572310316		
B34	PLM	132S4	11	15	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320		
TECHN. NOTE. Typical clearance C3 Temperature range for useful mineral grease with NLGI 2: approx. - 20 / +120 °C						Main Supplier -> BEARING NSK 6202 DDU C3 2nd Supplier -> BEARING SKF 6202 2RSH C3					

<b>BALL BEARINGS FOR MOTORS OF FLEXIBLE COUPLING PUMPS FHF - SHF</b>	ST-BB / PMP - F <span style="float: right;">Page 1/1</span> 1st Issue: April 2009 Last Issue:                      Rev.
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**FLEXIBLE COUPLING PUMPS 2 POLE , 2900 RPM**

MOTORS					BALL BEARINGS				
CONSTRUCTION		SIZE	kW	HP	N. PHASES	ND END (fan side)		D END (coupling side)	
						BB TYPE	P/N	BB TYPE	P/N
B3 / V5	<b>SM</b>	71	0,40	0,55	3	6202 2RSHC3	002312702	6202 2RSHC3	002312702
		71	0,55	0,75	3	6202 2RSHC3	002312702	6202 2RSHC3	002312702
		80	0,75	1,1	3	6204 2RSHC3	002312708	6204 2RSHC3	002312708
		80	1,1	1,5	3	6204 2RSHC3	002312708	6204 2RSHC3	002312708
		90R	1,5	2	1/3	6204 2RSHC3	002312708	6205 2RSHC3	002312709
		90R	2,2	3	3	6204 2RSHC3	002312708	6205 2RSHC3	002312709
	<b>PLM</b>	90	1,5	2	3	6203 ZZ C3	572310206	6205 ZZ C3	572310210
		90	2,2	3	3	6203 ZZ C3	572310206	6205 ZZ C3	572310210
		100	3	4	3	6205 ZZ C3	572310210	6206 ZZ C3	572310212
		112	4	5,5	3	6305 ZZ C3	572310210	6306 ZZ C3	572310312
		132	5,5	7,5	3	6305 ZZ C3	572310310	6308 ZZ C3	572310316
		132	7,5	10	3	6305 ZZ C3	572310310	6308 ZZ C3	572310316
		160	11	15	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320
		160	15	20	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320
		160	18,5	25	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320

**FLEXIBLE COUPLING PUMPS 4 POLE , 1450 RPM**

MOTORS					BALL BEARINGS				
CONSTRUCTION		SIZE	kW	HP	N. PHASES	ND END (fan side)		D END (coupling side)	
						BB TYPE	P/N	BB TYPE	P/N
B3 / V5	<b>SM</b>	71	0,25	0,30	3	6202 2RSHC3	002312702	6202 2RSHC3	002312702
		71	0,40	0,55	3	6202 2RSHC3	002312702	6202 2RSHC3	002312702
		80	0,55	0,75	3	6204 2RSHC3	002312708	6204 2RSHC3	002312708
		80	0,75	1,1	3	6204 2RSHC3	002312708	6204 2RSHC3	002312708
	<b>PLM</b>	90	1,1	1,5	3	6203 ZZ C3	572310206	6205 ZZ C3	572310210
		90	1,5	2	3	6203 ZZ C3	572310206	6205 ZZ C3	572310210
		100	2,2	3	3	6205 ZZ C3	572310210	6306 ZZ C3	572310312
		100	3	4	3	6306 ZZ C3	572310210	6306 ZZ C3	572310312
		112	4	5,5	3	6205 ZZ C3	572310210	6306 ZZ C3	572310312
		132	5,5	7,5	3	6305 ZZ C3	572310310	6308 ZZ C3	572310316
		132	7,5	10	3	6305 ZZ C3	572310310	6308 ZZ C3	572310316
		160	11	15	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320

TECHN. NOTE.  
 Typical clearance C3  
 Temperature range for useful mineral grease : - 20 / +120 °C

Main Supplier ->	BEARING NSK 6202 DDU C3
2nd Supplier ->	BEARING SKF 6202 2RSH C3

**BALL BEARINGS FOR MOTORS OF RIGID COUPLING PUMPS  
 FHS - SHS - FCS**

**RIGID COUPLING PUMPS 2 POLE , 2900 RPM**

MOTORS: SM - PLM					BALL BEARINGS				
CONSTRUCTION	SIZE	kW	HP	N. PHASES	ND END (fan side)		D END (coupling side)		
					BB TYPE	P/N	BB TYPE	P/N	
B5 / V1	SM	80R	0,75	1,1	1/3	6202 DDUC3	002312702	6204 DDUC3	002312708
		80	1,1	1,5	1/3	6204 DDUC3	002312708	6204 DDUC3	002312708
		90R	1,5	2	3	6204 DDUC3	002312708	6205 DDUC3	002312709
		90R	2,2	3	3	6204 DDUC3	002312708	6205 DDUC3	002312709
	PLM	90	2,2	3	3	6203 ZZ C3	572310206	6205 ZZ C3	572310210
		100R	3	4	3	6203 ZZ C3	572310206	6206 ZZ C3	572310212
		112R	4	5,5	3	6205 ZZ C3	572310210	6206 ZZ C3	572310212
		132R	5,5	7,5	3	6206 ZZ C3	572310212	6308 ZZ C3	572310316
		132	7,5	10	3	6305 ZZ C3	572310310	6308 ZZ C3	572310316
		160B	11	15	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320
---> FCS PLM	160B	15	20	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320	
	160B	18,5	25	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320	
	180R	22	30	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320	
	180R	22	30	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320	
B35 ---> FHS / SHS	PLM	160	11	15	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320
		160	15	20	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320
		180R	18,5	25	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320
		180R	22	30	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320

**RIGID COUPLING PUMPS 4 POLE , 1450 RPM**

MOTORS: SM - PLM					BALL BEARINGS				
CONSTRUCTION	SIZE	kW	HP	N. PHASES	ND END (fan side)		D END (coupling side)		
					BB TYPE	P/N	BB TYPE	P/N	
B5 - V1	SM	71	0,25	0,30	3	6202 DDUC3	002312702	6202 DDUC3	002312702
		71	0,40	0,55	3	6202 DDUC3	002312702	6202 DDUC3	002312702
		80	0,55	0,75	3	6204 DDUC3	002312708	6204 DDUC3	002312708
		80	0,75	1,1	3	6204 DDUC3	002312708	6204 DDUC3	002312708
	PLM	90	1,1	1,5	3	6203 ZZ C3	572310206	6205 ZZ C3	572310210
		90	1,5	2	3	6203 ZZ C3	572310206	6205 ZZ C3	572310210
		100	2,2	3	3	6205 ZZ C3	572310210	6306 ZZ C3	572310312
		100	3	4	3	6206 ZZ C3	572310212	6306 ZZ C3	572310312
		112	4	5,5	3	6206 ZZ C3	572310212	6306 ZZ C3	572310312
		132	5,5	7,5	3	6305 ZZ C3	572310310	6308 ZZ C3	572310316
		132	7,5	10	3	6305 ZZ C3	572310310	6308 ZZ C3	572310316
		160	11	15	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320
		160	15	20	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320
		160B35	11	15	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320

TECHN. NOTE.  
 Typical clearance C3  
 Temperature range for useful mineral grease with NLGI 2: approx. - 20 / +120 °C

Main Supplier -> BEARING NSK 6202 DDU C3  
 2nd Supplier -> BEARING SKF 6202 2RSH C3

## BALL BEARINGS LIST FOR TEFC MOTORS IN ELECTRO-PUMPS

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P/N	Desc NSK/Lowara	Desc SKF/Lowara	MOT
002310906	-	BEARING 7206 BEP	
002312186	-	BEARING 3206 A-2RS1	
002312702	BEARING 6202 DDUC3E D A72SJ	BEARING 6202 2RSH/C3-WT	SM
002312706	BEARING 6206DDUC3E E A72S6	BEARING 6206-2RS1/C3-WT	
002312708	BEARING 6204 DDUC3E D A72SJ	BEARING 6204 2RSH/C3-WT	SM
002312709	BEARING 6205 DDUC3E D A72SV	BEARING 6205 2RSH/C3-WT	SM
002312713	BEARING 6309DDUC3E E A72S6	BEARING 6309-2RS1/C3-WT	
002312714	BEARING 6310DDUC3E A72S6	BEARING 6310-2RS1/C3-WT	
002312738	BEARING 6208DDUC3E E A72S6	BEARING 6208-2RS1/C3-WT	
002312739	-	BEARING 6209 2RS1/C3-WT	
002312740	-	BEARING 6210 2RS1/C3-WT	
002313307	-	BEARING 6006 2Z/C3-WT	
002314005	-	BEARING 6205 2Z/C3-WT	
002314006	-	BEARING 6206 2Z/C3-WT	
002314109	-	BEARING 6309 2Z/C3-WT	
002314110	-	BEARING 6310 2Z/C3-WT	

P/N	Desc NSK/Lowara	Desc SKF	MOT
572310012	BEARING 6006 2Z/C3 A72	BEARING 6006 2Z/C3	PLM
572310206	BEARING 6203 2Z/C3 A72	BEARING 6203 2Z/C3	PLM
572310210	BEARING 6205 2Z/C3 A72	BEARING 6205 2Z/C3	PLM
572310212	BEARING 6206 2Z/C3 A72	BEARING 6206 2Z/C3	PLM
572310312	BEARING 6306 2Z/C3 A72	BEARING 6306 2Z/C3	PLM
572310314	BEARING 6307 2Z/C3 A72 SJ	BEARING 6307 2Z/C3	PLM
572310316	BEARING 6308 2Z/C3 A72	BEARING 6308 2Z/C3	PLM
572310320	BEARING 6310 2Z/C3 A72	BEARING 6310 2Z/C3	PLM
572311005	BEARING 7310 BEP	BEARING 7310 BEP	PLM

= LM MOT

REF. NSK MOTION & CONTROLS NSK  
According - MAINLY - Japanese Industrial Standard

Rolling Bearings  
Rolling bearings - Designation

CAT. No. E1102f  
JIS B 1513: 1995

### Rolling Contact Ball Bearing Lubricants ( std greases )

Lithium-based mineral oil greases added PTFE (Teflon-R) having consistency NLGI grade C  
(for ex. Polymer 400/0, TecnoLube -R) ALL SM and PLM MOT

Lithium-based mineral oil greases having consistency NLGI grade 2  
(for ex. Super Grease 2, Castrol-R) SVI --> 15-22 kW / 2FHE 5,5-7,5 kW  
( = higher stress Temperature)

Barium-based greases with PAO oil having consistency NLGI grade 2  
PAO = synthetic poly-alpha-olefin ( ---> highest stress Temperature and hard work )  
( foe ex. Arcanol L74, FAG-R)

## BALL BEARINGS VARIOUS - LISTS

I.E. --> ELP. SURF. VARIOUS / DRAIN PMPS / SUBMOTORS ...

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P/N	Desc NSK/Lowara	Desc SKF/Lowara	MOT
002310208	BEARING 6202 CMD6	BEARING 6202	
002310312	-	° BEARING 6206 Z	
002310405	BEARING 6303 CMD6	BEARING 6303	
002310902	BEARING 7202 BEAT85	BEARING 7202 BEP	
002311006	-	° BEARING 7306 BEP	
002311208	-	° BEARING 7308 BECBP	
002311210	-	° BEARING 7310 BECBP	
002312707	BEARING 6203 DDUC3E D A72S6	BEARING 6203 2RSH/C3-WT	
002312732	BEARING 6302 DDUC3E A72SJ	BEARING 6302 2RSH/C3-WT	
002312733	-	BEARING 6303 2RS1/C3-WT	
002312734	BEARING 6304 DDUC3E A72SJ	BEARING 6304 2RSH/C3-WT	
002313103	° BEARING 6202ZZCM D NS7S6	° BEARING 6202-2Z	
002313208	BEARING 6001 ZZC3E JEA3SJ	BEARING 6001 2Z/C3-LHT23	
002313301	BEARING 608 ZZ1MC3E JEA3SJ	BEARING 608 2Z/C3-LHT23	
002314001	BEARING 6201 ZZC3E D ENSS	BEARING 6201-2Z/C3LHT23	
002314002	BEARING 6202 ZZC3E D A72S6	BEARING 6202 2Z/C3-WT	
002314004	BEARING 6204ZZC3E D ENSS6	BEARING 6204-2Z/C3-LHT23	
002314103	BEARING 6303 ZZC3E D A72SJ	BEARING 6303 2Z/C3-WT	
002314105	BEARING 6305-ZZ C3 A72SJ	BEARING 6305-2Z/C3-WT	
002314106	BEARING 6306-ZZ C3 A72SJ	BEARING 6306-2Z/C3-WT	
002314108	BEARING 6308-ZZ C3 A72SJ	BEARING 6308-2Z/C3-WT	
002314305	BEARING 6205ZZNR* D EEMS6	BEARING 6205 2ZNR/C3-GJN	

P/N	Desc NSK/Lowara	Desc SKF	MOT
572312700	BEARING 6307 BEP DDUC3E E BQHS6	-	

Clearance: C3 - CM ...

REF. NSK MOTION & CONTROLS NSK Rolling Bearings  
According - MAINLY - Japanese Industrial Standard Rolling bearings - Designation

CAT. No. E1102f  
JIS B 1513: 1995

Rolling Contact Ball Bearing Lubricants  
Lithium-based mineral oil greases added PTFE (Teflon-R) with consistency NLGI grade 0  
(for ex. Polymer 400/0, Tec nolube -R) ALL LM MOT