



ITT

Lowara

**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

EXTENDED SHAFT 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	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		

EXTENDED SHAFT 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
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
	PLM	90RS2	0,75	1,1	3	6204 DDU C3	002312708	6205 DDU C3	002312709
		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





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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	SM	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
	PLM	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	SM	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
	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	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

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**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			
	---> FCS	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		
		PLM	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		
			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		
B35 ---> FHS / SHS	PLM	180R	22	30	3	6307 ZZ C3	572310314	6310 ZZ C3	572310320			
		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
		B35	PLM	160B35	11	15	3	6307 ZZ C3	572310314

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 0
(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)



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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-ZZ	
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 C
 (for ex. Polymer 400/0, TecnoLube -R) ALL LM MOT



Bearing dimensions of the motors

Motor type	Bearing
DPIG 56	6201 ZZ
DPIG 63	6202 2RS
DPIH 71	6203 2RS
DPIH 80	6204 2RS
DPIH 90 IMB3	6205 ZZ C3
DPIH 90 IMV1	6205 ZZ C3 6305 ZZ C3
DPIG 100 IMB3	6206 ZZ C3
DPIG 100 IMV1	6206 ZZ C3 6306 ZZ C3
DPIG 112	6306 ZZ C3
DPIG 132	6308 ZZ C3
DPIG 160	6309 ZZ C3
DPIG 180	6311 ZZ C3
DPIG 200	6212 ZZ C3
DPIG 225	6213 ZZ C3

MOTORS: FRANK & DVORAK ELEKTROMASCHINEN