

List of Parts for Screw Compressor VMY 347 H and VMY 347 M Model 1994

Relevant drawing: 0664-700

Unless otherwise stated, all measurements are in mm.)

Pos.	Designation	Qty per comp.		Used w/pos.	Part No.
		H	M		
2 H	Rotor housing, VMY 347 H	1			
2 M	Rotor housing, VMY 347 M		1		
5	Slide stop	1	1	2	1521-053
7 H	Regulating slide, VMY 347 H	1			1521-017
7 M	Regulating slide, VMY 347 M		1	2	1521-018
8	Guide for slide	2	2	7	1521-130
9	Spacer	2	2	8	
10	Socket cap screw M10 x 35	4	4	9	1413-373
11	Cover for slide stop	1	1	2	1521-131
12	Cover for suction strainer	2	2	2	
13	Discharge housing	1	1		
15	Cover for regulating cylinder	1	1	54	
16 H	End cover at discharge end, VMY 347 H	1		2	
16 M	End cover at discharge end, VMY 347 M		1	2	
18	Suction filter	2	2	2	1517-023
19	Filter bag	2	2	2	1517-030
20 H	Rotor set, VMY 347 H	1		2	
20 M	Rotor set, VMY 347 M		1	2	
23	Segment	1	1	2	
24	Socket cap screw, M 12 x 25	3	3	23	1413-385
26	Main bearing bushing	4	4	2-13	1515-005
26	Main bearing bushing for repair (1.0 mm undersize)				1515-009
27	Balance piston	1	1	20	1521-132
28	Sleeve for balance piston	1	1	27	1521-081
30	Cover for female rotor	1	1		
31	Spacer ring	2	2	20	1526-031
32	Intermediate rings (outer and inner)	2	2	20	1521-134
35	Complete axial bearing w/retaining ring - outer	2	2	20	3021-031
38	Complete axial bearing w/retaining ring - inner	2	2	20	3021-032
41	Pin for spring	6	6	60	1521-013
42	Cover for shaft seal	1	1	2	
43	Retainer ring	1	1	28	1521-082
44	Spacer bushing	1	1	20	1521-135
45	Sleeve for spindle	1	1	48-51	1521-136

Pos.	Designation	Qty per comp.		Used w/pos.	Part No.
		H	M		
46	Bushing for slide stop	1	1	48	
47	Threaded plug G 1 1/2"	1	1	46	
48	Piston for slide stop	1	1	5	1521-054
49 H	Guide piston, VMY 347H	1		5	1521-056
49 M	Guide piston, VMY 347 M		1	5	1521-057
50	Washer for piston	1	1	49	1521-067
51	Piston rod, VMY 347	1	1	7	1521-048
54	Piston, outer collar	1	1	51+55	1521-137
55	Piston, inner collar	1	1	51+54	
56 H	Guide tube, VMY 347 H	1		13	1521-058
56 M	Guide tube, VMY 347 M		1	13	1521-059
58	Socket cap screw M6 x 8	1	1		1413-230
59	Strainer	1	1	13	
60	Spring	10	10	12-32	1521-012
61	Cover for ECO and HLI	3	3	2	
62	Filler piece for HLI	1	1	2	1521-009
64	Cover	2	2	2	
65	Oil nipple	2	2	32	
66	Shaft end disc	2	2	21-22	
70	Guide ring for piston rod	1	1	16	1521-133
71	Cover ring	1	1	16	
86	Slotted nut for hook spanner KM11	2	2	51	1514-015
91	Spring dowel sleeve dia. 4 x 16	1	1	35-42	1446-013
92	Spring dowel sleeve dia. 5 x 24	2	2	32	1446-008
93	Spring dowel sleeve dia. 3 x 16	2	2	32	1446-016
95	Spring dowel sleeve dia. 4 x 16	1	1	42	1446-013
96	Adjusting washer dia. 30/17 x 3.8	4	4	32	1521-117
97	Adjusting washer dia. 30/17 x 4.8	4	4	32	1521-122
98	Adjusting washer dia. 30/17 x 1.0 (laminated)	4	4	32	1521-118
99	Socket cap screw M16 x 50	8	8	15	1413-434
100	Stud bolt M16 x 230	18	18	13-16	1414-253
101	Hexagon head screw M16 x 70	4	4	8	1424-262
104	Hexagon head screw M12 x 55	2	2	48	1424-056
105	Hexagon head screw M10 x 30	14	14	61-66	1424-192
108	Socket cap screw M16 x 160	3	3	13	1413-440
109	Socket cap screw M16 x 60	4	4	32	1413-435
110	Socket cap screw M16 x 40	18	18	11-30-49	1413-004
111	Socket cap screw M8 x 16	3	3	16-71	1413-026
112	Threaded pin M10 x 16	1	1	21	1413-254
113	Teflon/carbon band 10 x 1.5 x dia. 63 (I)	1	1	70	2132-091
114	Stud bolt M10 x 30	3	3	54-55	1414-248
115	Teflon/carbon band 10 x 1.5 x dia. 180 (0)	1	1	55	2132-090
116	Teflon/carbon band 10 x 1.5 x dia. 150 (0)	1	1	48	2132-092
117	Teflon/carbon band 10 x 1.5 x dia. 45 (0)	1	1	49	2132-089

Pos.	Designation	Qty per comp.		Used w/pos.	Part No.
		H	M		
118	Turcon-Glyd ring dia. 63 (I)	1	1	70	1332-096
119	Sealing ring for piston	1	1	55	1332-134
120	Sealing ring for piston	1	1	48	1332-132
121	Shaft seal, complete	1	1	20	1332.180
122	Conical pin A8 x 40 DIN EN 28736	4	4	9	1445-001
123	Stud bolt M16 x 70	4	4	2-13-16	1414-252
124	Socket cap screw M16 x 45	7	7	51-64	1413-433
125	Socket cap screw M10 x 30	4	4	5-49	1413-372
126	Nut M10	3	3	114	1432-064
127	Hexagon nut M16	22	22	100-123	1432-067
129	Screwed connection DL10	1	1	42	1349-051
130	Pipe 10 x 1 x 135	1	1	129	
131	Hexagon head screw M5 x 12	4	4	43	1424-141
132	Key 18 x 11 x 70 DIN 6885	1	1	20	1526-059
134	Socket cap screw M16 x 45	4	4	64	1413-433
136	Conical pin 16 x 100 DIN 258	2	2	2-13	
137	Cylindral pin A16 x 80 DIN EN 28735	2	2	13-16	
138	Conical pin 16 x 85 DIN EN 28737	1	1	2-13	
141	Threaded plug G 1/2"	1	1	13	1343-027
142	Threaded plug M10 x 1	4	4	32	
144	Threaded plug G 1 1/4"	1	1	2	1343-004
145	Threaded plug G 1"	3	3	2-13	1343-003
146	Threaded plug G 3/4"	3	3	2-13	
147	Threaded plug G 1/2"	1	1	2	
148	Threaded plug G 3/8"	2	2	11-16	
149	Threaded plug G 1/4"	7	7	2-13-15	
151	Gasket Al dia. 49/42 x 1.5	1	1	144	2356-148
152	Gasket Al dia. 39/33 x 1.5	3	3	145	2356-299
153	Gasket AL dia. 32/27 x 1.5	1	1	146	2356-139
154	Gasket AL dia. 26/21 x 1.5	2	2	141+147	2356-300
155	Gasket AL dia. 23/17 x 1.5	2	2	148	2356-301
156	Gasket AL dia. 18/14 x 1.5	8	8	129-149	2356-302
157	Sealing ring Turcon dia. 45 (0)	1	1	49	1332-106
158	Sealing ring Turcon dia. 90 (I)	1	1	28	1332-110
160	O-ring dia. 506.8 x 7 (Neoprene)	2	2	13	1331-208
161	O-ring dia. 209.1 x 3.5 (Neoprene)	1	1	15	1331-031
162	O-ring dia. 183.7 x 3.5 (Neoprene)	2	2	12	1331-104
163	O-ring dia. 132.9 x 3.5 (Neoprene)	5	5	11-42-55	1331-093
164	O-ring dia. 110.7 x 3.5 (Neoprene)	2	2	30	1331-086
165	O-ring dia. 81.9 x 5.3 (Neoprene)	1	1	27	1331-044
166	O-ring dia. 88.5 x 3.5 (Neoprene)	3	3	70-64	1331-079
167	O-ring dia. 40.8 x 3.5 (Neoprene)	3	3	47	1331-064

Pos.	Designation	Qty per comp.		Used w/pos.	Part No.
		H	M		
168	O-ring dia. 37.7 x 3.5 (Neoprene)	3	3	61	1331-030
169	O-ring dia. 23.4 x 3.5 (Neoprene)	2	2	62	1331-021
170	O-ring dia. 10 x 3	2	2	65	1331-247
171	O-ring dia. 291.7 x 3.5	1	1	16	1331-119
172	O-ring dia. 69.2 x 5.3 (Neoprene)	1	1	118	1331-041
173	O-ring dia. 50.4 x 3.5 (Neoprene)	1	1	56	1331-067
200	Spindle for slide stop	1	1	11	1526-016
201	Housing for slide stop indicator	1	1	11	
202	Driving ring	1	1	200	
203	Cover for indicator housing	1	1	201	
204	Ball bearing	2	2	220-220	1511-014
205	Sealing ring Turcon dia. 16 (I)	2	2	200-220	1332-160
206	Circlip for bore 47 x 1.75	2	2	11-15	1437-153
207	Circlip for shaft 20 x 1.2	2	2	200-220	1437-212
208	Circlip for shaft 16 x 1	2	2	200-220	1437-226
209	Socket cap screw M5 x 12	2	2	200-220	1413-328
210	Washer A6.4	2	2	209	1436-002
211	Socket cap screw M8 x 16	9	9	201-221	1413-355
212	Socket cap screw M3 x 6	4	4	203	1412-401
213	O-ring dia. 37.7 x 3.5	2	2	201-222	1331-030
214	Cylindrical pin dia. 6M6 x 14 DIN EN 28734	2	2	57	
220	Spindle for regulating slide	1	1	15	1526-017
221	Housing for indicator	1	1	15	
222	Cover for indicator housing	1	1	15	
223	Eccentric bushing	1	1	220	
224	Retaining ring	1	1	221	
225	Indicator disc	1	1	220	
226	Adhesive marking	1	1	225	
227	Glass for indicator	1	1	221	1226-007
228	Plug	7	7	221	
229	Pointed screw M6 x 12	8	8	221-223	
230	O-ring for indicator glass	1	1	227	
231	Socket cap screw M6 x 45	2	2	15-221	1413-346
232	Socket cap screw M6 x 12	2	2	224	1413-339
	With manual adjustment of V_i regulation				
	See drawing no. 0664-700, page 2				
250	Spindle arrangement, complete				3044-008
251	Cover	1	1		
252	Flange with thread	1	1	48	
253	Spindle	1	1	252	
254	Threaded spindle	1	1	253	
255	Nut for indicator	1	1	254	

Pos.	Designation	Qty per comp.		Used w/pos.	Part No.
		H	M		
257	Piece for indicator	1	1	255	
258	Socket cap screw M6 x 16	1	1	257-255	1413-340
259	Socket cap screw M12 x 30	1	1	252-48	1413-386
260	Hexagon nut M16	1	1	254	1432-067
261	Washer dia. 30/17 x 3	1	1	254	1436-038
262	Circlip for bore dia. 62 x 2 DIN 472	1	1	251	1437-156
263	Sealing ring for Turcon dia. 28	1	1	251-253	1332-105
264	Spring dowel sleeve dia. 5 x 36	1	1	253-254	1446-006

The following position numbers are substituted or excluded when the compressor is fitted with **manual** V_i regulation.

Pos.	Designation	Qty per comp.		Used w/pos.	Part No.
		H	M		
11	Cover for slide stop				
45	Sleeve for spindle				
48	Piston for slide stop				
148	Threaded plug G3/8"				
155	Gasket AL dia. 23/17 x 1.5				
200- 214	Spindle for slide stop, all parts				3044-041

Spare Parts Sets for VMY 347 H & M Compressors Model 1994

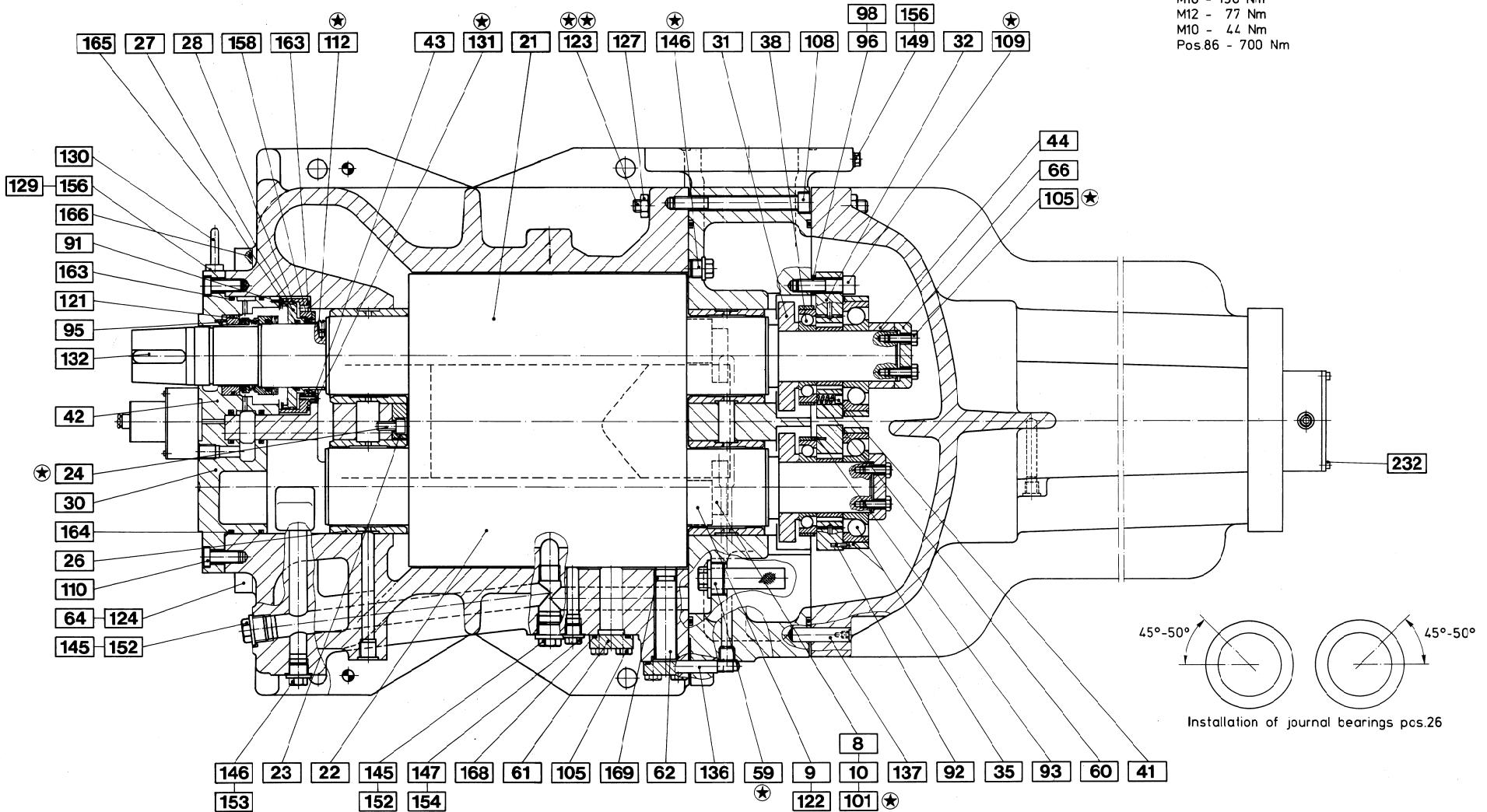
Relevant drawing: 0664-700

Unless otherwise stated, all measurements are in mm.)

Pos.	Designation	Quantity		Part no.
		V _i auto.	V _i man.	
	Standard spare parts set no. 1 complete (V_i auto.)	1		3084-352
	Standard spare parts set no. 1 complete (V_i man.)		1	3084-353
113	Teflon/carbon band 10 x 1.5 x dia 63 (I)	2	2	2132-091
115	Teflon/carbon band 10 x 1.5 x dia 180 (0)	1	1	2132-090
116	Teflon/carbon band 10 x 1.5 x dia 150 (0)	1	1	2132-092
117	Teflon/carbon band 10 x 1.5 x dia 45 (0)	1	1	2132-089
118	Turcon ring dia. 63 (I)	1	1	1332-096
119	Sealing ring, Kolpac	1	1	1332-134
120	Sealing ring, Kolpac	1	1	1332-132
151	Gasket Al dia. 49/42 x 1.5	1	1	2356-148
152	Gasket Al dia. 39/33 x 1.5	3	3	2356-299
153	Gasket Al dia. 32/27 x 1.5	1	1	2356-139
154	Gasket Al dia. 26/21 x 1.5	2	2	2356-300
155	Gasket Al dia. 23/17 x 1.5	2	2	2356-301
156	Gasket Al dia. 18/14 x 1.5	8	8	2356-302
157	Turcon Vari seal -M dia. 45	1	1	1332-106
158	Turcon ring dia 90 (I)	1	1	1332-110
160	O-ring dia. 506.8 x 7.0	2	2	1331-208
161	O-ring dia. 209,1 x 3.5	1	1	1331-031
162	O-ring dia. 183.7 x 3.5	2	2	1331-104
163	O-ring dia. 132.9 x 3.5	5	5	1331-093
164	O-ring dia. 110.7 x 3.5	2	2	1331-086
165	O-ring dia. 84.9 x 5.3	1	1	1331-044
166	O-ring dia. 88.5 x 3.5	3	3	1331-079
167	O-ring dia. 40.8 x 3.5	1	1	1331-064
168	O-ring dia. 37.7 x 3.5	3	3	1331-030
169	O-ring dia. 23.4 x 3.5	2	2	1331-021
170	O-ring dia. 10 x 3	2	2	1331-247
171	O-ring dia. 291.7 x 3.5	1	1	1331-119
172	O-ring dia. 69.2 x 5.3	1	1	1331-041
173	O-ring dia 50.4 x 3.5	1	1	1331-067
213	O-ring dia 37.7 x 3.5	2	1	1331-030
263	Turcon vari seal -M (only for manual V _i)		1	1332-105

Pos.	Designation	Quantity		Part no.
		V _i auto.	V _i man.	
	Extended spare parts set no. 2 complete (V_i auto.)	1		3084-354
	Extended spare parts set no. 2 complete (V_i man.)		1	3084-355
	Standard spare parts set no. 1	1		3084-352
	Standard spare parts set no. 1		1	3084-353
26	Main bearing bushing	4	4	1515-005
35	Axial bearing with retaining ring - outer	2	2	3021-031
38	Axial bearing with retaining ring - inner	2	2	3021-032
96	Set of adjusting washers	4	4	1521-117
97	Set of adjusting washers	4	4	1521-122
98	Set of adjusting washers	6	6	1521-118
121	Shaft seal complete	1	1	1332-180
	Certificate spare parts set no. 3 complete (V_i auto.)	1		3084-356
	Certificate spare parts set no. 3 complete (V_i man.)		1	3084-357
	Extended spare parts set no. 2	1		3084-354
	Extended spare parts set no. 2		1	3084-355
18	Suction filter	1	1	1517-023
27	Balance piston	1	1	1521-132
28	Sleeve for balance piston	1	1	1521-081
43	Retainer ring	1	1	1521-082
91	Spring dowel sleeve dia. 4 x 16	1	1	1446-013
92	Spring dowel sleeve dia. 5 x 24	2	2	1446-008
93	Spring dowel sleeve dia. 3 x 16	2	2	1446-016
100	Stud bolt M16 x 230 DIN 939	5	5	1414-253
112	Theraded pin M 10 x 16	1	1	1413-254
122	Conical pin A8 x 40 DIN 7978	5	5	1445-001
123	Stud bolt M16 x 70 DIN 939	2	2	1414-252
131	Hexagon head screw M5 x 12	4	4	1424-141
132	Key 18 x 11 x 70 DIN 6885	1	1	1526-059
264	Spring dowel sleeve dia. 5 x 36		1	1446-006

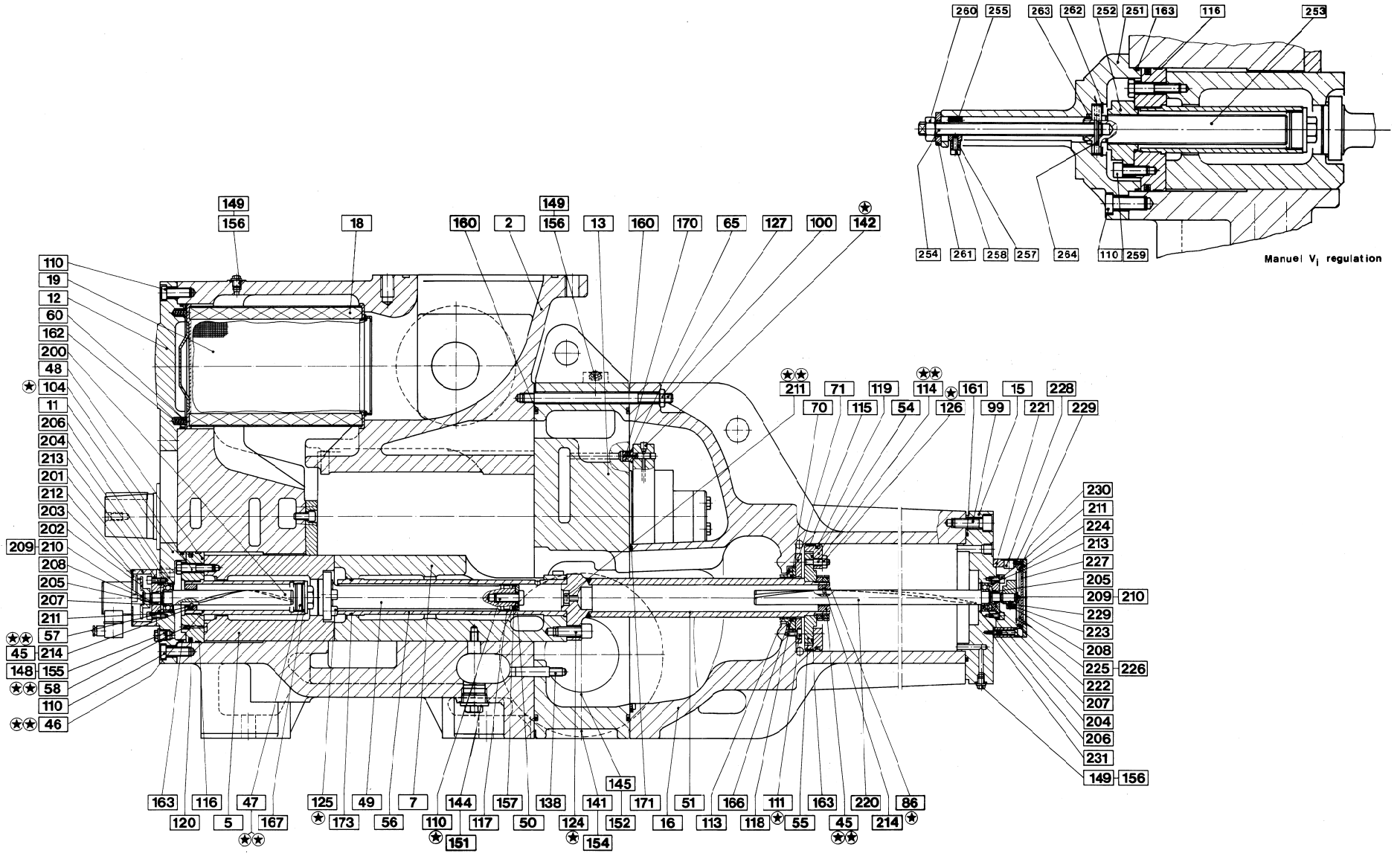
Torque values
 M16 - 190 Nm
 M12 - 77 Nm
 M10 - 44 Nm
 Pos.86 - 700 Nm



- ★ Screws to be locked by Loctite 243 (or equivalent)
- ★ ★ Screws to be sealed and locked by Loctite 586 (or equivalent)

VMY 347

Model 1994
 (OZV 2380)
 List of parts 0664-701



★ Screws to be locked by Loctite 243 (or equivalent)
 ★★ Screws to be sealed and locked by Loctite 586 (or equivalent)

VMY 347
 Model 1994
 (OZV 2380)
 List of parts 0664-701

Spare Parts survey VMY 347

Model 1994 (unit)

The position numbers stated below refer to the piping diagram covering your specification. The unit comprises various components and equipment which have been selected to meet specific requirements. The spare parts set supplied has been tailored to suit the unit by SABROE. The components

in the shaded areas are variable, depending on the voltage, refrigerant, approved pressure etc.

When you order individual spare parts, please state the type of unit involved.


Standard spare parts set: A

Certificate spare parts set: B

	Pos.	Designation	Part no.	R22		R717	
				A	B	A	B
Regulating and control devices - PROSAB II/UNISAB II	Units with PROSAB II / UNISAB						
	PT1	Pressure transducer	0-200 PSIG	1373-242	1	1	1
	PT2	Pressure transducer	0-500 PSIG	1373-243	2	2	2
	PT3	See PT2					
	PT4	See PT2	(only PROSAB II)				
	TT5	Temperature transducer	PT100	1373-252	1	1	1
	TT6	Temperature transducer	PT100	1373-252			
	TT7	Temperature transducer	PT100	1373-252			
	GT8	Positionstransmitter, capacity slide		3145-032	1	1	1
	GT9	Position transmitter, V _i slide stop		3145-032	1	1	1
	FT18	See pos. 105					
	Units with UNISAB II						
	PT1	Pressure transducer	-1 to 9 bar	1373-249	1	1	1
	PT2	Pressure transducer	-1 to 25 bar	1373-250	2	2	2
	PT3	See PT2					
	PT4	See PT2					
	TT5	Temperature transducer	PT100	1373-252	1	1	1
	TT6	Temperature transducer	PT100	1373-252			
	TT7	Temperature transducer	PT100	1373-252			
	GT8	Positionstransmitter, capacity slide		3145-032	1	1	1
GT9	Position transmitter, V _i slide stop		3145-032	1	1	1	
FT18	See pos. 105						

	Pos.	Designation	Part no.	R22		R717	
				A	B	A	B
Regulating and control devices - relay control	Units with instrument and electric panel						
	1	Thermostat - discharge gas temp. (for oil cooler type OWSG, OOSI, OKS) KP81	1373-014		1		1
	1	Thermostat - discharge gas temp. (for HLI and BLI oil cooling) KP79	1373-013		1		1
	2	Thermostat - in discharge gas pipe (for activating solenoid valve in HLI and BLI oil cooling systems) KP77	1373-009		1		1
	3	Thermostat - oil temp at compr. inlet KP79	1373-013		1		1
	4	Thermometer, oil inlet 0/100°C	1543-066		1		1
	5	Differential switch (oil filter) RT260A	1373-210		1		1
	6	Low-pressure switch KP1 (R22)	1373-103		1		
	6	Low-pressure switch KP1A (R717)	1373-113				1
	7	Thermometer, suction gas -40/+50°C	1543-065		1		1
	GT8	Position transmitter, capacity slide	3145-032		1		1
	8	Suction pressure gauge (R22)	1541-298		1		
	8	Suction pressure gauge (R717)	1541-090				1
	9	Differential switch (oil pressure) MP55 (R22)	1375-159		1		
	9	Differential switch (oil pressure) MP55A (R717)	1373-162				1
	10	Differential switch (oil pump pressure) (w/oil pump) MP55 (R22)	1373-119		1		
	10	Differential switch (oil pump pressure) (w/oil pump) MP55A (R717)	1373-146				1
	11	High-pressure switch KP5 (R22)	1375-123		1		
	11	High-pressure switch KP5A (R717)	1375-125				1
	12	Thermometer, discharge gas (See pos. 4)					
	13	High-pressure switch MP55 (R22)	1373-159		1		
	13	High-pressure switch MP55A (R717)	1373-162				1
	13	Discharge pressure/oil pressure gauge (w/oil pump) (R22)	1541-329		1		
	13	Discharge pressure/oil pressure gauge (w/oil pump) (R717)	1541-117				1
	14	Discharge pressure gauge (R22)	1541-299		1		
	14	Discharge pressure gauge (R717)	1541-091				1
	16	Dual high-pressure switch KP7 BS-TÜV (R22)	1373-128		1		
	16	Dual high-pressure switch KP7 ABS-TÜV (R717)	1373-127				1
	FT18	See pos. 105					
		Relay	1553-012	2	2	2	2
		Socket (11 pole)	1554-002	3	3	3	3
		Delaying relay	1553-125	1	1	1	1

	Pos.	Designation	Part no.	R22		R717		
				A	B	A	B	
Coupling		Spare parts for the coupling						
		Spare parts for coupling 262	1524-125		1		1	
		Spare parts for coupling 312	1524-126		1		1	
		Spare parts for coupling 350	1524-127		1		1	
Refrigerant system	20	Stop check valve						
		Stop check valve SCH200 (R22)	2411-564					
		Stop check valve SCH 150 (R717)	2411-563					
		Complete set of gaskets	3184-116	1	1	1	1	
	21	Suction filter	(See compr. spare parts)					
		Suction filter (with compressor) Filter bag for run-in period	1517-030		2		2	
	22	Gasket for discharge pipe flange	2356-228	1	1	1	1	
	23	Oil separator (general)						
		O-ring for cover on oil separator OVUR 6018 (R717 only)	1331-192			1	1	
		O-ring for cover on oil separator OVUR 80/100/122xx	1331-188	1	1	1	1	
		Separator element (N-type)	1517-061		1		1	
		Separator element (S-type)	1517-079		1		1	
		O-ring for separator element O-ring for element cover	1331-204 1331-019	2(4) 1(2)	2(4) 1(2)	2(4) 1(2)	2(4) 1(2)	
	24	Sight glass	1226-015		2		2	
		O-ring	1331-140	2	2	2	2	
	25	Heating rod						
		Heating rod 460W 250V	3181-038		1		1	
		Heating rod 460W 230V	3181-040		1		1	
		Heating rod 460W 115V	3181-039		1		1	
		Sealing ring dia. 42/49 x 6,5	1349-213	2	2	2	2	
26	Stop valve SVA15	2412-317						
	Complete set of gaskets	2453-022	1	1	1	1		
27	Gasket for suction side flange	2356-226	1	1	1	1		
28	Stop check valve							
	Stop check valve SCH80 (R717)	2411-560						
	Complete set of gaskets	3184-113			1	1		
	Stop check valve SCH125 (R22)	2411-562						
Complete set of gaskets	3184-115	1	1					

	Pos.	Designation	Part no.	R22		R717		
				A	B	A	B	
Refrigerant system (cont.)	29	Stop valve SVA15 Complete set of gaskets Gasket dia. 34/27	2413-126 2453-022 2356-140	1	1	1	1	
		See pos. 26						
	30	Safety valve SFV15, 25 bar SFV15, 22 bar (TÜV) SFV15, 20 bar SFV15, 18 bar	2416-182 2416-190 2416-191 2416-148					
	31-1	Bursting disc type RB-7R						
		DN40, 18,5 bar (R717)	1377-326				6	
		DN40, 15 bar (R717)	1377-307				6	
		Gasket for bursting disc retainer (R717)	2356-220			3	15	
		DN65, 18,5 bar (R22)	1377-289		6			
		DN65, 15 bar (R22)	1377-308		6			
		Gasket for bursting disc retainer	2356-222	3	15			
	31-2	Safety valve						
		Safety valve DN40, 18 bar (R717)	1364-067					
		Spring	1523-019				1	
		O-ring	1331-080				1	
		Gasket for inlet flange	2356-220			3	4	
		Gasket for outlet flange	2356-222			1	2	
		Safety valve DN65, 18 bar (R22)	1364-068					
		Spring	1523-006		1			
		O-ring	1331-099		1			
		Gasket for inlet flange	2356-222	3	4			
Gasket for outlet flange	2356-224	1	2					
32	Gasket for relief line flange	2356-223	1	1	1	1		
33	Three-way valve DSV15	2413-116						
41	Stop valve SVA10 Complete set of gaskets	2412-316 2453-016	1	1	1	1		
42	Non return valve R210L 0.2 bar	1364-164						
43	Nozzle 1 mm.	3043-022						
44	Stop return SVA 10 Complete set of gaskets	2412-316 2453-016						

	Pos.	Designation	Part no.	R22		R717	
				A	B	A	B
Oil system	50	Stop valve SVA20 Complete set of gaskets	2412-311 2453-022	1	1	1	1
	51	Stop valve SVA15 Complete set of gaskets	2413-134 2453-022				
		See pos. 26					
	52	Oil filter FA20 Gasket set Repair kit	1375-170 1377-079 1377-251	1	1 1	1	1 1
	53	Pre-lubr. oil pump R25/12.5 Shaft seal for oil pump	1524-123 1332-154	1	1	1	1
	54	Stop valve SVA15 Complete set of gaskets	2413-134 2453-022				
		See pos. 26					
	55	Stop valve SVA20 Complete set of gaskets	2412-311 2453-022				
		See pos. 50					
	56	Non-return valve RD28-L, 3 bar (units without main oil pump)	1364-023		1		1
	57	Non-return valve NRVA50 (units without main oil pump) Gasket set Piston for non-return valve	1372-251 1377-064 1377-001	1	1 1	1	1 1
	58	Non-return valve RD18-L, 1 bar	1364-009		1		1
	60	Stop valve SVA15 Complete set of gaskets	2412-317 2453-022				
		See pos. 26					
	61	Oil filter FA15 Gasket set Repair set	1375-150 1377-078 1377-250	1	1 1	1	1 1
62	Nozzle for oil return	3142-021		1		1	
63	Oil sight glass Gasket dia. 40.5/33 x 1.5	1226-014 2356-144	1	1 1	1	1 1	
64	Stop valve SVA15 Complete set of gaskets	2412-317 2453-022					
	See pos. 26						

	Pos.	Designation	Part no.	R22		R717	
				A	B	A	B
Compressor regulation system	70	Solenoid valve EVM	1372-335		2		2
		Gasket set	1336-024	4	4	4	4
		Coil 10W, 110V, 50/60Hz	1372-331		2		2
		Coil 10W, 220V, 50/60Hz	1372-330		2		2
		Coil 10W, 240V, 60Hz	1372-329		2		2
		Coil 10W, 250V, 50Hz	1372-334		2		2
	71	Solenoid valve EVM See pos. 70	1372-335				
	72	Solenoid valve EVM See pos. 70	1372-335				
	73	Solenoid valve EVM See pos. 70	1372-335				
	74	Throttle valve, DN6	1364-151				
	75	Throttle valve, DN6	1364-151				
	76	Three-way valve WV12	1364-084				
	80	Solenoid valve EVM (for PROSAB II / UNISAB S/UNISAB II) See pos. 70	1372-335				
81	Solenoid valve EVM (NO) (for UNISAB S/UNISAB II)	1372-337					
	Gasket set	1336-024					
	Coil 12W, 220V, 50Hz	1372-324					
	Coil 12W, 240V, 50Hz	1372-325					
	Coil 12W, 110V, 50Hz	1372-326					
	Coil 12W, 110V, 60Hz	1372-327					
Coil 12W, 220V, 60Hz	1372-328						
82	Throttle valve DN 6	1364-151					
83	Throttle valve DN 6	1364-151					
Oil pump system	90	Stop valve SCV50	2411-278				
		Complete set of gaskets (See pos. 101)	3184-077				
	91	Oil strainer (units with oil pump)	4524-019				
		Wire mesh insert	3425-103				
O-ring for cover		1331-083	1	1	1	1	
O-ring dia. 105/85 x 10		3126-016	1	1	1	1	
O-ring for insert	1331-075	1	1	1	1		
92	Oil pump SNF80 R36 (units with oil pump)	1524-094					
	Shaft seal	1332-155	1	1	1	1	
	Gasket for flange	2356-221	2	2	2	2	

	Pos.	Designation	Part no.	R22		R717	
				A	B	A	B
Cont.	93	Oil pressure regulating valve (units with oil pump) O-ring dia. 59.9 x 3.5 Gasket for flange	1364-071 1331-070 2356-221	1 2	1 2	1 2	1 2
	94	Non-return valve NRVA50 (units with oil pump - not for units with instr. panel) Gasket set see pos. 57 Piston for non-return valve	1372-251 1377-064 1377-001				
Oil conditioning system	100	Oil filter complete Filter element, fibreglass cc25 Pos.6 O-ring for cover SOR 83 Pos.2 O-ring for insert arrangement, R208 Pos.4 O-ring for filter element, SOR34 Pos.5 O-ring for flange Pos.3	1517-056 1517-015 1331-226 1331-169 1331-225 1331-077	3 1 1 1 2	3 1 1 1 2	3 1 1 1 2	3 1 1 1 2
	101	Stop valve SCV50 Complete set of gaskets	2411-278 3184-077	1	1	1	1
	102	Stop valve SCV50 Complete set of gaskets See pos. 101	2411-278 3184-077				
	103	Stop valve SVA6 Complete set of gaskets See pos. 43	2413-123 2453-016				
	105	Flow switch with ball Terminal box Nippel for flow switch Gasket dia. 32/27 x 1.5 Washer dia. 24/13 x 2.5 Gasket dia. 19/14 x 1.5 A1 ring dia. 29/21 A1 ring dia. 25/17 O-ring for cover	1553-024 1554-001 2314-080 2356-139 1436-036 2356-124 2356-136 2356-130 1331-076	1 1	1 1	1 1	1 1
	110	Oil cooler, water-cooled Oil cooler OWSG/OWCG 2119xx Complete set of gaskets Gasket for end cover Gasket for flange O-ring for corrosion plug Gasket for drain plug Oil cooler OWSG/OWCG 2123xx Complete set of gaskets Gasket for end cover Gasket for flange O-ring for corrosion plug Gasket for drain plug	3084-162 2355-172 2356-269 1331-028 2356-141 3084-162 2355-172 2356-269 1331-028 2356-141	1 1	1 1	1 1	1 1
Oil cooling system, heat exchanger							

	Pos.	Designation	Part no.	R22		R717		
				A	B	A	B	
Oil cooling system, heat exchanger (cont.)		Oil cooler OWSG/OWCG 2719xx						
		Complete set of gaskets	3084-221	1	1	1	1	
		Gasket for end cover	2355-173					
		Gasket for flange	2356-276					
		O-ring for corrosion plug	1331-028					
		Gasket for drain plug	2356-141					
		Oil cooler OWSG/OWCG 2723xx						
		Complete set of gaskets	3084-221	1	1	1	1	
		Gasket for end cover	2355-173					
		Gasket for flange	2356-276					
		O-ring for corrosion plug	1331-028					
		Gasket for drain plug	2356-141					
		Oil cooler OWSG/OWCG 3219xx						
		Complete set of gaskets	3084-222	1	1	1	1	
		Gasket for end cover	2355-174					
		Gasket for flange	2356-277					
		O-ring for corrosion plug	1331-028					
		Gasket for drain plug	2356-141					
	111	Stop valve SVA15		2413-134				
		Complete set of gaskets	See pos. 26	2453-022				
	112	Oil Cooler, refrigerant-cooled						
		Oil cooler OOSI, 211402						
	Oil cooler OOSI, 271402							
	Oil cooler OOSI, 321402							
	Oil cooler OOSI, 411402							
113	Stop valve SVA15		2413-134					
	Complete set of gaskets	See pos. 26	2453-022					
114	Safety valve SVF15, 25 bar		2416-182					
	SFV15, 22 bar (TÜV)	See pos. 30	2416-190					
	SFV15, 20 bar		2416-191					
	SFV15, 18 bar		2416-148					
115	Thermostatic 3-way valve		1375-034					
	Thermostatic element 49°C (120°F)		1365-059	1	1	1	1	
	Gasket set for thermostatic valve		1365-063	1	1	1	1	
	Gasket for flange		2356-221	3	3	3	3	
116	Three-way valve DSV15		2413-116					
118	Stop valve SVA15		2413-134					
	Complete set of gaskets	See pos. 26	2453-022					

	Pos.	Designation	Part no.	R22		R717	
				A	B	A	B
Oil cooling system HLI/BLI	120.1	Stop valve SVA20 (R717 only)	2412-318				
		Complete set of gaskets	2453-022			1	1
	120.2	Stop valve SVA25 (HLI, R717 - HLI/BLI, R22)	2412-319				
		Complete set of gaskets	2453-025	1	1	(1)	(1)
	121.1	Filter FA20	1375-161				
		Gasket set	1377-079	1	1	1	1
		Repair set	1377-251		1		1
	121.2	See pos. 121.1					
	122.1	Injection valve TEAT 85 (R717 only)					
		Orifice insert 33TR	1371-207				1
		Orifice insert 55TR	1371-208				1
		Orifice insert 85TR	1371-209				1
		Thermostatic element (35-65°C)	1371-257				1
		Thermostatic element (55-95°C)	1371-256				1
		Gasket for flange	2356-258			5	5
	122.2	Injection valve TEAT 20					
		Orifice insert 20-8 TR	1371-203		1		(1)
		Thermostatic element (35-65°C)	1371-255		1		(1)
		Thermostatic element (55-95°C)	1371-253		1		(1)
		Gasket for flange	1993-017	2	2	(2)	(2)
	123.1	Solenoid valve EVRA20 (R717 only)	1372-348				
		Gasket set	1377-094			1	1
		Repair set	1377-069				1
		Coil 10W, 100V, 50/60Hz	1372-331				1
Coil 10W, 220V, 50/60Hz		1372-330				1	
Coil 10W, 240V, 60Hz		1372-329				1	
Coil 10W, 250V, 50Hz		1372-334				1	
123.2	Solenoid valve EVM	1372-335		1		(1)	
	Gasket set	1336-024	1	1	(1)	(1)	
	Coil 10W, 110V, 50/60Hz	1372-331		1		(1)	
	Coil 10W, 220V, 50/60Hz	1372-330		1		(1)	
	Coil 10W, 240V, 60Hz	1372-329		1		(1)	
	Coil 10W, 250V, 50Hz	1372-334		1		(1)	
124.2	Main valve PMFL80						
	Gasket set	1377-040	1	1	(1)	(1)	
	Valve spindle with servo piston 80-3	1377-085		1		(1)	
	Valve spindle with servo piston 80-4	1377-086		1		(1)	
	Valve spindle with servo piston 80-5	1377-087		1			
	Valve spindle with servo piston 80-6	1377-088		1			

	Pos.	Designation	Part no.	R22		R717	
				A	B	A	B
Cont.	125.1	Stop valve SVA25 (HLI/BLI, R717)	2412-319				
		Complete set of gaskets	2453-025			1	1
	125.2	Stop valve SVA32 (HLI, R717 HLI/BLI, R22)	2412-320				
		Complete set of gaskets	2453-025	1	1	(1)	(1)
Compressor oil connections	130	Pipe connection A 18-RL	1349-130				
	131	Pipe connections SB 18-RL	1349-094				
	132	Pipe connection SB 18-RL	1349-094				
	133	Nozzle dia. 5 (R22)	3142-052		1		
		Nozzle dia. 8 (R717)	3142-072				1
	134	Pipe connection A 12-RL	1349-053				
	135	Pipe connection A 12-RL	1349-053				
	136	Pipe connection SB 12-RL	1349-091				
	137	Pipe connection SB 12-RL	1349-091				
138	Pipe connection A 12-S	1349-062					

Tools for compressor type VMY 347

Code no. A401 = Standard set

Code no. A402 = Extended set

Code no. B401 = Tools for alignment of coupling

Pos.	Designation	Part no.	Quantity	
			Code no. A401	Code no. A402

Mounting/dismounting of rotors and axle bearings:

1-1	Clamp for puller	kukko 18/3		1	1
1-2	Spindle for puller			1	1
2-1	Thrust washer		3183-082	1	1
3-1	Coupling piece M16-M20		3083-074	2	2
3-2	Screw M20 x 65		1424-290	2	2
3-3	Tension disc \varnothing 42/21		1436-018	2	2
4-1	Hook-spanner for axle nut KM 13			1	1
5-1	Distance piece 15935-4		3083-076	1	1
6-1	Feeler gauge 0.03 - 0.10 mm			1	1

Mounting/dismounting slide bearings:

7	Fitting tool (incl. 7-1 to 7-7)		3083-075	1	1
7-1	Puller		*	1	1
7-2	Thrust flange		*	1	1
7-3	Thrust bearing		*	1	1
7-4	Guiding bushing		*	1	1
7-5	Bushing for normal slide bearing		*	1	1
7-6	Bushing for undersized slide bearing		*	1	1
7-7	Cylinder screws M16 x 35		*	3	3

Mounting capacity slide with piston rod:

8-1	Mounting bushing 15971-4		3083-077	1	1
9-1	Hook-spanner for axle nut KM11			1	1
10-1	Unbrako screw M12 x 130		1413-402	1	1

Tools for compressor type VMY 447

Code no. A401 = Standard set

Code no. A402 = Extended set

Code no. B401 = Tools for alignment of coupling

Pos.	Designation	Part no.	Quantity	
			Code no. A401	Code no. A402

Mounting/dismounting of rotors and axle bearings:

1-1	Clamp for puller	kukko 18/3	1	1
1-2	Spindle for puller		1	1
2-1	Thrust washer	3183-082	1	1
3-1	Coupling piece M20-M24	3083-088	2	2
3-2	Screw M20 x 65	1424-290	2	2
3-3	Tension disc dia. 42/21	1436-018	1	1
4-1	Hook-spanner for axle nut KM 13		1	1
6-1	Feeler gauge 0,03 - 0,10 mm		1	1

Mounting/dismounting slide bearings:

7	Fitting tool (incl. 7-1 to 7-4 and 7-7)	3083-087	1	1
7-1	Puller	*	1	1
7-2	Thrust flange	*	1	1
7-3	Thrust bearing	*	1	1
7-4	Guiding bushing	*	1	1
7-7	Cylinder screws M24 x 60	*	3	3

Mounting capacity slide with piston rod:

8-1	Mounting bushing 15971-4	3083-077	1	1
9-1	Hook-spanner for axle nut KM11		1	1
10-1	Unbrako screw M12 x 130	1413-402	1	1

General tools: 3083-073

16-1	Torque wrench 40-200 Nm			1
16-2	Ratchet 3/4" square	735/40		1
16-3	Open end spanner (fork wrench)	731/40		1
17-1	T-handle 3/4" square	065 600		1
17-2	Extension rod 3/4" square	065 607		1
18-1	Box spanner insert 19 mm 3/4"	065 698		1
18-2	Box spanner insert 24 mm 3/4"	065 702		1
18-3	Box spanner insert 30 mm 3/4"	065 708		1
18-4	Allen key insert			1
	14mm 1/2" <input type="checkbox"/>	065 501		1
18-5	Reduction 3/4"-1/2"	065 795		1
19-1	Combination spanner	13 mm	1612-268	1
19-2	"	17 mm	1612-276	1
19-3	"	30 mm		1
20-0	Hexagonal Allen key	2.5 mm	1612-393	1
20-1	"	3 mm	1612-395	1
20-2	"	4 mm	1612-396	1
20-3	"	5 mm	1612-397	1
20-4	"	6 mm	1612-398	1
20-5	"	8 mm	1612-399	1
20-6	"	10 mm	1612-401	1
20-7	"	12 mm		1
20-8	"	14 mm		1
20-9	"	17 mm		1
21-1	Locking ring pliers	531 115		1
22-1	Puller with spindle	kukko 20/10		1
23-1	Magnetic frame			1
23-2	Dial indicator			1
24-1	Hexagon head screw M8 x 55		1424-174	2

Code no. B401 - Tools for alignment of coupling

Pos.	Designation	Part no.	Coupling size Quantity			
			262	312	350	375
11-1	Alignment tool	3183.104	1			
	Alignment tool	3183.105		1	1	
	Alignment tool	3083.079				1
12-1	Feeler gauge	1622-050	1	1	1	1
13-1	Combination spanner 1/2"	1612-282	2	2	2	2
14-1	Square 1/2" for box spanner	1612-359	2	2	2	2
15-1	Box spanner insert (socket wrench)					
	9/16" - 1/2"	1612-332	2			
	5/8" - 1/2"	1612-333		2		
	13/16" - 1/2"	1612-334			2	
	15/16" - 1/2"	1612-335				2
25-1	Puller	3083-083	1	1	1	1