

## List of parts for SAB 163 Mk 4

### Relevant drawings 0662-740

Pos.	Designation	No.	Part no
	Compressor complete, male, Man. $V_i$	1	4161-162
	Compressor complete, female, Man. $V_i$	1	4161-163
	Compressor complete, male, Auto. $V_i$	1	4161-164
	Compressor complete, female, Auto. $V_i$	1	4161-165
10	<b>Compressor housing</b> Rotor housing, SAB 163 H	1	3011-051
	<b>Bearing cover at suction end</b>		
20	Suction cover for SAB 163 H	1	3013-372
21	O-ring 380.37 x 5.33	1	1331-187
22	Cylindrical pin dia. 16 x 50	2	1445-091
23	Cylinder screw M16 x 45	16	1413-433
24	Plug with collar 1/2"	1	1343-027
25	AL. gasket dia. 27/21 x 1,5	1	2356-133
26	O-ring 14.00 x 1.78	2	1331-190
	<b>Bearing cover at discharge end</b>		
40	Bearing cover	1	3013-475
43	Cylinder screw M10 x 35	6	1413-373
44	Adjusting screw M20	2	2111-122
45	Stop screw M6 x 10	2	1413-231
46	Plug with collar 1/4"	1	1343-025
47	Dowty-ring 20.75/13.74 x 2.03	1	1331-428
	<b>Capacity regulating cylinder</b>		
50	Capacity cylinder	1	3043-009
51	O-ring 107.54 x 3.53	1	1331-085
52	Cylinder screw M12 x 40	3	1413-388
	<b>Cover for capacity regulating cylinder</b>		
60	Cover for capacity cylinder	1	3013-496
61	O-ring 120.24 x 3.53	1	1331-089
62	Cylinder screw M12 x 30	4	1413-386
	<b>Shaft seal cover</b>		
81	O-ring 113.89 x 3.53	1	1331-087
82	Cylinder screw M12 x 35	4	1413-387
83	Driving pin dia. 4 x 6	1	1446-011
86	Hose connecting branch 1/4	1	1345-143
87	Clear plastic hose 3/16"x300 mm	1	1241-190

<b>Pos.</b>	<b>Designation</b>	<b>No.</b>	<b>Part no</b>
	<b>Cap cover</b>		
90	Cap cover	1	3013-371
91	O-ring 113.89 x 3.53	1	1331-087
92	Cylinder screw M12 x 35	4	1413-387
93	Dowty-ring dia. 15.88/11.84 x 2.0	1	1331-426
94	Plug with collar 1/8"	1	1343-024
95	Nozzle for bearing lubrication	3	3447-537
96	O-ring 14.00 x 1.78	1	1331-190
	<b>Cover for slide stop</b>		
100	Slide stop cover	1	3013-068
101	O-ring 78.97 x 5.53	1	1331-076
102	Cylinder screw M12 x 35	4	1413-387
103	Bearing housing	1	3021-018
104	Cylinder screw M6 x 20	4	1413-341
105	Locking plate	1	2114-043
	<b>Rotor and suction end bearings</b>		
110	Set of rotors for SAB 163H, female drive	1(F)	3024-295
110	Set of rotors for SAB 163H, male drive	1(M)	3024-296
111	Radial roller bearings	2	1513-017
113	Spirolox-ring	1	1437-287
114	Washer for bearings	2	3021-007
115	Cylinder screw M16 x 45	2	1413-341
118	Driving pin dia. 4.0 x 10	1	1446-012
119	Retainer pin	2	3021-009
	<b>Discharge end bearings, female rotor</b>		
130	Balance piston dia. 81	1	3025-064
131	Radial roller bearings dia. 55/120 x 43	1	1513-017
132	Four-point bearings dia. 55/120 x 29	1	1513-029
133	Set of shims, dia. 100/120, for adjustment of distance between rotors and discharge ports Comprising: 1 of thickness 0.49 mm 1 of thickness 0.52 mm 1 of thickness 0.55 mm 1 of thickness 0.58 mm 1 of thickness 0.61 mm 1 of thickness 0.64 mm 1 of thickness 0.67 mm	1	2124-082

Pos.	Designation	No.	Part no
	<b>Discharge end bearings, male rotor</b>		
135	Balance piston dia. 81	1	3025-064
136	Radial roller bearings dia. 60/130 x 46	1	1513-013
137	Four-point bearings dia. 60/130 x 31	1	1513-030
138	Set of shims, dia. 105/130, for adjustment of distance between rotor and discharge ports Comprising: 1 of thickness 0.49 mm 1 of thickness 0.52 mm 1 of thickness 0.55 mm 1 of thickness 0.58 mm 1 of thickness 0.61 mm 1 of thickness 0.64 mm 1 of thickness 0.67 mm	1	2124-083
	<b>Discharge end ports</b>		
140	Discharge port (male rotor)	1	3031-059
140-1	Discharge port AC (male rotor)	1	3031-066
141	Discharge port (female rotor)	1	3031-060
141-1	Discharge port AC (female rotor)	1	3031-067
142	Cylinder screw M10 x 150	6	1413-376
143	Steel sealing ring dia. 16/10 x 2	6	2351-030
146	Plug with collar 3/8"	2	1343-026
147	Locking screw M10 x 10	2	1413-250
148	Adjusting screw M10 x 16	2	1413-032
149	Dowty-ring dia. 23.80/17.35 x 2.03	2	1331-427
	<b>Rotor adjustment parts</b>		
151	Inner cover (male rotor)	1	3013-382
152	O-ring dia. 123.42 x 3.53	2	1331-090
153	Inner cover (female rotor)	1	3013-383
154	O-ring dia. 113.89 x 3.53	2	1331-087
	<b>Shaft seal</b>		
160	Shaft seal type 680	1	1332-162
	<b>Inner shaft seal</b>		
165AA	Shaft seal cover HM	1	3013-380
165AB	Shaft seal cover HF	1	3013-381
165B	Balance piston	1	3025-063
165C	Slide ring with sleeve	1	3025-061
165D	Radial seal	1	1332-079
165E	Inner ring	1	3025-055
165F	O-ring 50.52 x 1.78	1	1331-244
165G	O-ring 69.52 x 2.62	1	1331-145
165I	Counter sunk screw M6 x 12	4	1413-090
165J	O-ring 14.00 x 1.78	1	1331-190
165K	Oil distribution ring	1	3026-061
165L	Spirolox ring	1	1437-260

<b>Pos.</b>	<b>Designation</b>	<b>No.</b>	<b>Part no</b>
	<b>Suction filter</b>		
170	Suction filter	1	1517-151
	<b>Adjusting system for V<sub>i</sub>-slide</b>		
180	Spindle for slide stop	1	3044-012
182	Sealing washer for slide stop	1	3044-014
183	Sealing ring dia. 28/22	1	1331-503
184	O-ring 44.04 x 3.53	1	1331-065
186	Axial ball bearing $\varnothing 42/25 \times 11$	2	1512-015
	<b>Slide stop</b>		
190	Slide stop (included in pos. 192 and pos. 370)		
	<b>Man. V<sub>i</sub> slide</b>		
191	Spring	1	1523-162
192	Slide stop/guide	1	3044-133
193	Cylinder screw M10 x 12	1	1413-408
	<b>Capacity regulating slide</b>		
200	Capacity slide	1	3043-174
201	Inner piston slide	1	3043-268
202	Outer piston slide	1	3043-269
203	O-ring 53.57 x 3.53	1	1331-068
204	Sealing ring	1	1332-107
205	Pointed screw M6 x 10	2	1413-231
206	Cylinder screw M6 x 25	4	1413-342
207	Slide rod	1	3043-248
208	Tape bearing	2	2132-104
209	O-ring 21.82 x 3.53	1	1331-020
	<b>Parts for suction gas inlet</b>		
251	Hexagon head screw M16 x 65	8	1422-634
252	O-ring dia. 190.09 x 3.53	1	1331-105
	<b>Non-return valve</b>		
260	Non-return flap	1	3042-146
261	Intermediate flange	1	3013-376
262	O-ring dia. 215.49 x 3.53	1	1331-108
263	Hinge fastener	1	3042-150
264	Cylinder screw M8 x 80	2	1413-366
265	Hinge	1	3042-145
266	Shim 8 x 14 x 0.5	2	1436-149
267	Cylindrical pin dia. 8 x 32	1	1445-092
268	Sleeve for hinge	1	3042-152
269	Wave spring $\varnothing 18.8 \times \varnothing 13.2 \times 0.2, h=1.6$	1	1523-099
270	Counter sunk screw M8 x 25	1	1413-103
271	Cylinder screw M8 x 25	2	1413-357

Pos.	Designation	No.	Part no
<b>Economizer</b>			
290	ECO-plug	1	3013-377
291	Cylinder screw M10 x 30	1	1413-372
292	O-ring 37.69 x 3.53	1	1331-030
293	Cylinder screw M8 x 25	1	1413-357
<b>HLI inlet</b>			
300	HLI plug	2	3013-127
301	Cylinder screw M10 x 30	4	1413-372
302	O-ring 23.39 x 3.53	2	1331-022
<b>Connecting parts for slide rod parts</b>			
310	Washer for slide rod	1	3043-109
311	Cylinder screw M10 x 65	1	1413-383
<b>Parts for internal oil channel</b>			
320	Non-return valve EMB RVS	1	1364-272
321	Dowty-ring	1	1331-437
322	Plug with collar 1" RG	1	1343-030
323	Plug with collar 3/8"	1	1343-026
324	Dowty-ring	1	1331-427
325A	Nozzle for rotor injection (R717)	1	3041-031
325B	Nozzle for rotor injection (R22)	1	3041-035
326	Dowty-ring	6	1331-428
327	Plug with collar 1/4"	6	1343-025
328	Dowty-ring	2	1331-430
329	Plug with collar 1/2"	2	1343-027
<b>Transmitter for positioning of capacity slide</b>			
350	Position transmitter L = 215	1	1553-284
351	Cylinder screw M6 x 25	2	1413-052
352	Alu-pipes L = 185	1	1116-040
353	Dowty-ring	1	1331-427
354	Sensor pocket L = 215	1	1377-410
<b>Auto. V<sub>i</sub> slide</b>			
370	Slide stop/guide auto V <sub>i</sub>	1	3044-136
371	Sealing ring dia. 72	1	1332-119
372	Piston for Auto. V <sub>i</sub>	1	3044-115
373	Retainer for alu. pipes	1	3045-070
374	Cylinder screw M6 x 12	4	1413-339
375	Cylinder screw M4 x 12	2	1413-318
<b>Cover for slide stop</b>			
380	Slide stop cover for auto. V <sub>i</sub>	1	3013-373
381	O-ring 78.97 x 3.53	1	1331-076
382	Cylinder screw M12 x 30	1	1413-386
383	Cylindrical pin ø8 x 24	1	1445-077

Pos.	Designation	No.	Part no
<b>Transmitter for positioning of V<sub>i</sub> slide</b>			
410	Position transmitter L = 130	1	1553-285
411	Cylinder screw M6 x 30	2	1413-052
412	Alu-pipe L = 130	1	1116-041
413	Dowty-ring	1	1331-427
414	Sensor pocket L = 130	1	1377-414
<b>Oil filter parts</b>			
450	Cover	1	3013-474
452	O-ring dia. 132.94 x 3.53	1	1331-093
453	O-ring dia. 101.19 x 3.53	1	1331-083
455	Locking nut M10	1	1433-080
456	Cylinder screw M12 x 35	1	1413-387
458	Stay bolt	1	2111-130
459	Magnet	4	1517-022
460	Intermediate ring	4	3424-039
461	Rubber gasket	1	1334-012
470	Filter cartridge	1	1517-121
471	Gas outlet device	1	3042-153
472	O-ring dia. 101.19 x 3.53	1	1331-083
473	Cover	1	3013-374
474	Cylinder screw M12 x 35	4	1413-387
475	O-ring 132.94 x 3.53	1	1331-093
476	Float switch	1	1553-262
477	Cylindrical pin $\varnothing 3 \times 12$	1	1445-054
478	Plug with collar 1/4"	1	1343-025
479	Dowty-ring	1	1331-428
480	Plug with collar 3/4"	1	1343-028
481	Dowty-ring	2	1331-433
<b>Safety valve system</b>			
700-1	Back pressure independent safety valve BSV8, 18 bar	1	2416-202
700-2	Back pressure independent safety valve BSV8, 20 bar	1	2416-203
700-3	Back pressure independent safety valve BSV8, 21 bar	1	2416-204
700-4	Back pressure independent safety valve BSV8, 22 bar	1	2416-224
700-5	Back pressure independent safety valve BSV8, 25 bar - Other valve types are available on request	1	2416-205
701	Connecting pipe BSV8/POV 50	1	2332-685
702	Cylinder screw M12 x 35	4	1413-387
703	O-ring dia. 82,14 x 3,53	1	1331-077
704-1	Intermediate pipe with POV 40	1	3014-019
704-2	Intermediate pipe with POV 50	1	3014-021
716	Cylinder screw M16 x 40	4	1413-432
717	O-ring dia. 113,89 x 3,53	1	1331-087
718	Safety valve cover	1	3013-375
719	O-ring dia. 215.49 x 3.53	1	1331-108
720	Male stud coupling	2	1349-053
726	Reducer G3/4"-G3/8"	1	2312-038

<b>Pos.</b>	<b>Designation</b>	<b>No.</b>	<b>Part no</b>
727	AL ring Ø24/13x1,5	1	2356-127
730	Union nut G1"	1	2313-017
731	Nipple G3/8" x ø30, NV17	1	2311-065
732	AL ring Ø30/16x1,5	1	2356-137
733	Dowty-ring	1	1331-427
734	Cylinder screw M16 x 40	8	1413-432
	<b>Temperature/pressure transducers</b>		
751	Pressure transmitter at suction end	1	1373-249
752	Pressure transmitter after oil filter	1	1373-271
753	Pressure transmitter before oil filter	1	1373-271
755	Male stud coupling EMB VADKO	2	1349-137
756	Screw connection EMB VBDKO	1	1349-233
761	Temperature transmitter	1	1349-281
762	Temperature transmitter	1	1349-282
765	Dowty-ring	2	1331-428

**S=L/D 1,2    M = male drive**

**L=L/D 1,5    F = female drive**