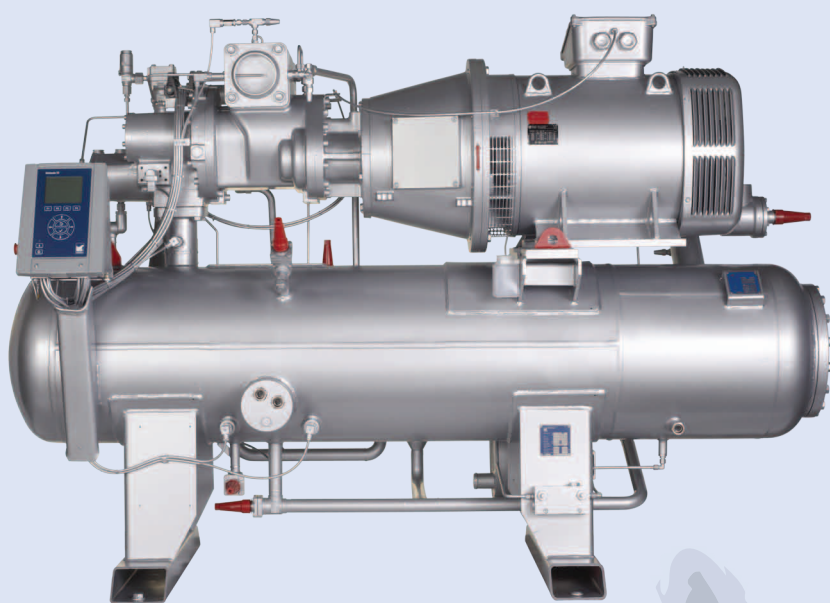


SAB 120-151

Screw compressor units



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1. Spare parts list SAB 120/151

1.1 How to use the spare parts list

SAB Rotary screw compressor unit

This spare parts list applies to standard Sabroe rotary screw compressor units, models SAB 120/151.

Units built with special options, modifications or conversions are not considered.

Item numbers only apply to units with PED (Pressure Equipment Directive 97/23/EC) approval when this is relevant.

Concerning rotary screw compressors (models XJF) and Unisab control systems, please refer to specific spare parts lists.

The spare parts list provides identification for detail parts by *Figure* and *Index number* (*Fig-Index* column), *Item number* and *Description*.

Note: Some of the Fig-Index numbers have a pre-fixed "F", Eg. F:1–44. This refers to the service parts list for XJF compressors, Frick documents No. 070–450–SPL.

To find the correct replacement item, locate the item in Figure 1, 2, etc. Note the *Index number* and refer to the corresponding *Fig-Index* in the spare parts list to see *Item number* and *Description*.

Consider that some parts depend on voltage, set pressure etc. and that your unit may have a special modification.

Quantity per assembly or item is stated in the *Qty.* column and always applies to each unit unless otherwise specified. If the quantity is 0 (zero) this either means that the *Item number* is included as information only or it may be that the actual quantity is stated elsewhere eg under *Description* or in a footnote.

Some of the *Item Numbers* are included for information purposes only and are not usually considered spare parts.

If the word "Assembly" (not the abbreviation "Ass.") is included in *Description*, the *Item number* may be included for information purposes only and is not necessarily a spare part. Please contact Refrigeration Parts Centre for more information.

The *P&I Ref.* column contains the connection designation of the item as shown in a typical P&I diagram (see fig. 16) as well as the P&I diagram of your particular unit when this is relevant. A reference like P128 means item no. 128 and can only be seen in your specific P&I diagram.

Unit of measure in the *Description* column etc. is always stated in SI-units unless otherwise specified, eg subfixed " if in inches.

American drawing standards, third angle projection method, are used in all figures.

Abbreviations for more than one item or model eg:

SAB 120/151S means SAB 120 S + SAB 120 L + SAB 120 M + SAB 120 E + SAB 151 S

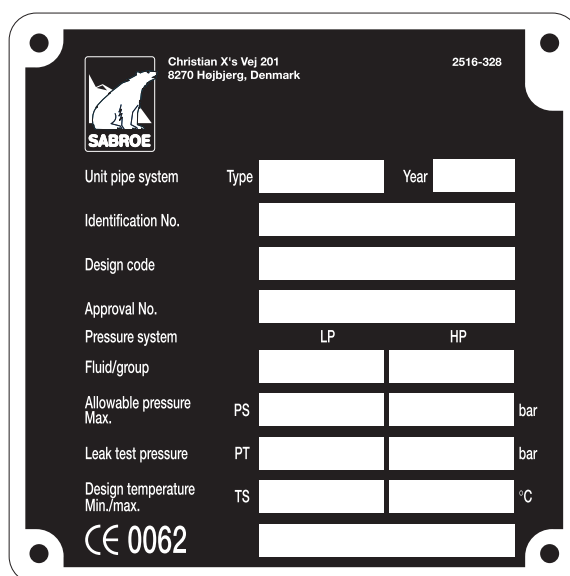
LG-1/2/3 means LG-1 + LG-2 + LG-3

Abbreviations in this manual include:

Ang.	angle	OD=	outside diameter equal to
Ass.	assembly	Rc.	cooling medium refrigerant
Cp.	compressor	Reg	regulating
DN (+space)	nominal diameter	Sc.	seal cap
f.	for	Ser.	service
g	gauge	Str.	straght
Hex.	hexagon	Wc.	cooling medium water
ID=	inside diameter equal to	Ø	diameter (ISO-standard)
L=	length equal to		
N/A	not applicable or not available		

The unit pipe system name plate (example below) listing unit pipe system type, year and identification number etc., is attached to the frame below the electric motor.

Note: Please provide Sabroe unit pipe system type, year and identification number when requesting a quotation or placing an order. Failure to include this information may delay the processing of your request.



Christian X's Vej 201
8270 Højbjerg, Denmark

2516-328

SABROE

Unit pipe system Type Year

Identification No.

Design code

Approval No.

Pressure system LP HP

Fluid/group

Allowable pressure PS bar

Max.

Leak test pressure PT bar

Design temperature TS °C

Min./max.

CE 0062



1.2 Amendments

2021.02	Spare parts kits and sets added as chapter 1.4. Change of SAB 151 Compressor Ref. TI2018/03. Change of pressure transmitters Ref. TI2018/04. Oil pump KRACHT added to replace VIKING.
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1.3 Recommended spare parts

A number of kits have been defined for specific service jobs – filter inspection and oil separator inspection, in addition sets for overhaul of compressors and compressor units have been defined with contents related to the individual compressor types.

Note: Consider that your unit may have special modifications. when ordering for more than one unit, the quantity should be adjusted to meet your individual requirements.

1.4 Spare parts kits and sets

Fig-Index	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
		Filter kits									
	3088.588	Kit A - Filter kit - SAB 120 S/M/L/E		1	1	1	1				
07-24	959A0054H10	Gasket 6 7/8 OD for 4" ASME Cl.150 Flange	1								
02-02	2354.179	Gasket 114/175 x1.5mm 4" Klin-ger-Sil	1								
07-25	2356.220	Gasket Flat 75/61x2	1								
04-02, 04-03	720M0213G01EU	Service Oil Filter SAB120/151 S/M M/L/E	1								
	3088.590	Kit A - Filter kit - SAB 151 S/M/L/E						1	1	1	1
07-24	1331.481	O-ring HNBR 171.04x3.53 Size-261	1								
02-02	2354.180	Gasket 141/197 x1.5mm 5" Klin-ger-Sil	1								
07-25	2356.222	Gasket Flat 109/95x2	1								
04-02, 04-03	720M0213G01EU	Service Oil Filter SAB120/151 S/M M/L/E	1								
		Coalescer kits									
	3088.589	Kit B - Coalescer kit - SAB 120 S/M/L/E		1	1	1	1				
03-01	1331.604	O-ring HNBR 329.57x5.33 Size-382	1								
03-08	531B0099H02	Coalescer Element EZ-Drain 24LG	1								
	3088.591	Kit B - Coalescer kit - SAB 151 S/M/						1	1		
03-01	1331.604	O-ring HNBR 329.57x5.33 Size-382	1								
03-15	2356.272	Gasket flat 225/169x2	1								
03-08	531B0099H01	Coalescer element EZ-Drain 34LG	1								

Fig- Index	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
	3088.592	Kit B - Coalescer kit - SAB151 L/E								1	1
03-01	1331.605	O-ring HNBR 380,37x5.33 Size-384	1								
03-15	2356.272	Gasket flat 225/169x2	1								
03-08	531B0099H01	Coalescer element EZ-Drain 34LG	1								
		Overhaul sets									
	3089.030	Set C - Overhaul set SAB 120 S/M/L/E (R22/HCFC)		1	1	1	1				
	111Q0043223EU	Gasket Kit incl. O-rings XJS/ XJF120 / SAB120		1	1	1	1				
F:5-33	534B0079H04	Slydring Dia. 2-7/8 T=0.375	1								
F:5-47	534B0780H01EU	O-ring Kit 120 XJF	1								
F:5-57	534C0187H08EU	Seal Ring Glyd 2-7/8	4								
F:5-58	534C0187H09EU	Seal Ring Glyd 3-1/8	1								
F:5-89	534C1972H01	Gasket control VAL VI	2								
F:5-128	959A0054H10	Gasket 6 7/8 OD for 4" ASME Cl.150 Flange	2								
F:5-129	959A0057H18	Gasket flange size 3"	1								
F:5-47.2	980A0012H94	O-Ring HNBR 63.17x2.62 Size-144	4								
	534A0980G01EU	Shaft seal kit XJS/XJF 120 (R22/HCFC)		1	1	1	1				
F:5-90	534C2010H01	Backup Ring Seal Seat 120	1								
F:5-91	534C2011H01	Shaft seal 1.575" for Frick 120 CR	1								
	534C2090H01	Installation tool seal 120	1								
F:5-20	534A0342H01	Strainer seal housing Dia.315x.93"	1								
F:5-40	534B0182H06	Clamp collar dia.1 3/4 - 2 3/4 x .688"	1								
F:5-51	534B1121H01	Lip seal 120	1								
	534B1126G01EU	Tool assy lip seal 120	1								
F:5-47.2	980A0012A94	O-Ring HNBR 63.17x2.62 Size 144	1								
F:5-47.9	1331.575	O-ring HNBR 101.19x3.53 Size-242	1								
F:5-28	534B0004H17	Cylindrical roller bearing dia. 40/90x23		1	1	1	1				
F:5-31	534B0004H22	Cylindrical roller bearing dia. 50/90x20		1	1	1	1				
F:5-32	534B0014H18	Retaining ring Metrics 472-90		1	1	1	1				
F:5-35	534B0101H24	Four point contact bearing dia. 50/90x20 C2L		1	1	1	1				
F:5-39	534B0174H04	Retaining ring VH-356		1	1	1	1				
F:5-81	534C0486H09	Shim cir 3.50 X 3.00 X .005		1	1	1	1				
F:5-82	534C0486H10	Shim cir 3.50 X 3.00 X .010		1	1	1	1				
	534M0489G01EU	Bearing Kit XJS/XJF 120		1	1	1	1				
F:5-27	534B0004H13	Cylindrical roller bearing dia. 35/72x23	1								
F:5-29	534B0004H15	Cylindrical roller bearing dia. 45/85x23	1								
F:5-30	534B0004H17	Cylindrical roller bearing dia. 40/90x33	2								
F:5-34	534B0101H07	Four point contact bearing dia. 40/90x23	1								
F:5-56	534B1633H01	Nut lock BH-08	2								
F:5-62	534C0373H01	Bushing inlet female BRZ RXB	1								

Fig- Index	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
F:5-63	534C0377H01	Bushing inlet male BRZ	1								
F:5-69	534C0445C01	Seal gas XJS 120	2								
F:5-72	534C0478H10	Angular contact ball bearing dia. 40/90x23	4								
F:5-74	534C0479H12	Spring wave dia. 3.602x0.240"	1								
F:5-77	534C0486H01	Shim 3.50/3.00x.001	1								
F:5-78	534C0486H02	Shim 3.50/3.00x.002	1								
F:5-79	534C0486H03	Shim 2.00/1.59x.001	1								
F:5-80	534C0486H04	Shim 2.00/1.595x.002	1								
	720M0213G01EU	Service Oil Filter SAB120/151 S/M/L/E		1	1	1	1				
04-02	531A0224H02	Oil Element SuperFilter II TM	1								
04-03	959A0082H02	Gasket cover oil filter OF 1605 - Westermeyer design (K)	1								
	1331.602	O-ring HNBR 170.82x5.33 Size-364	1								
04-03	2357.1001	Gasket cover oil filter OF 1605 - Sabroe design (L)	1								
	3089.080	Set C - Overhaul set SAB 120 S/M/L/E (R717/HFC)		1	1	1	1				
	111Q0043223EU	Gasket Kit incl. O-Rings XJS/ XJF120 / SAB120		1	1	1	1				
F:5-33	534B0079H04	Slydring Dia. 2-7/8 T=0.375	1								
F:5-47	534B0780H01EU	O-ring Kit 120 XJF	1								
F:5-57	534C0187H08EU	Seal Ring Glyd 2-7/8	4								
F:5-58	534C0187H09EU	Seal ring glyd 3-1/8	1								
F:5-89	534C1972H01	Gasket control VAL VI	2								
F:5-128	959A0054H10	Gasket 6 7/8 OD for 4" ASME Cl.150 Flange	2								
F:5-129	959A0057H18	Gasket flange size 3"	1								
F:5-47.2	980A0012A94	O-Ring HNBR 63.17x2.62 Size 144	4								
	534A1073G01EU	Shaft Seal Kit XJS/XJF 120 HNBR (R717/HFC)		1	1	1	1				
F:5-90	534C2010H01	Backup Ring Seal Seat 120	1								
F:5-91	534C2158H01	Shaft seal 1.575" for Frick 120 (SAB 120) HNBR	1								
	534C2090H01	Installation tool seal 120	1								
F:5-20	534A0342H01	Strainer seal housing Dia.315x.93"	1								
F:5-40	534B0182H06	Clamp collar dia.1 3/4 - 2 3/4 x .688"	1								
F:5-51	534B1121H01	Lip seal 120	1								
	534B1126G01EU	Tool assy lip seal 120	1								
F:5-47.2	980A0012A94	O-Ring HNBR 63.17x2.62 Size 144	1								
F:5-47.9	1331.575	O-ring HNBR 101.19x3.53 Size-242	1								
F:5-28	534B0004H17	Cylindrical Roller Bearing Dia. 40/90x33		1	1	1	1				
F:5-31	534B0004H22	Cylindrical roller bearing dia. 50/90x20		1	1	1	1				
F:5-32	534B0014H18	Retaining ring METRICS 472-90		1	1	1	1				
F:5-35	534B0101H24	Four Point Contact Bearing Dia. 50/90x20 C2L		1	1	1	1				
F:5-39	534B0174H04	Retaining Ring VH-356		1	1	1	1				

Fig- Index	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
F:5-81	534C0486H09	Shim cir 3.50 X 3.00 X .005		1	1	1	1				
F:5-82	534C0486H10	Shim cir 3.50 X 3.00 X .010		1	1	1	1				
	534M0489G01EU	Bearing Kit XJS/XJF 120		1	1	1	1				
F:5-27	534B0004H13	Cylindrical roller bearing dia. 35/ 72x23	1								
F:5-29	534B0004H15	Cylindrical roller bearing dia. 45/ 85x23	1								
F:5-30	534B0004H17	Cylindrical roller bearing dia. 40/ 90x33	2								
F:5-34	534B0101H07	Four point contact bearing dia. 40/ 90x23	1								
F:5-56	534B1633H01	Nut lock BH-08	2								
F:5-62	534C0373H01	Bushing inlet female BRZ RXB	1								
F:5-63	534C0377H01	Bushing inlet male BRZ	1								
F:5-69	534C0445C01	Seal gas XJS 120	2								
F:5-72	534C0478H10	Angular contact ball bearing dia. 40/90x23	4								
F:5-74	534C0479H12	Spring wave dia. 3.602x0.240"	1								
F:5-77	534C0486H01	Shim 3.50/3.00x.001	1								
F:5-78	534C0486H02	Shim 3.50/3.00x.002	1								
F:5-79	534C0486H03	Shim 2.00/1.59x.001	1								
F:5-80	534C0486H04	Shim 2.00/1.595x.002	1								
	720M0213G01EU	Service Oil Filter SAB120/151 S/M/L/E		1	1	1	1				
04-02	531A0224H02	Oil Element SuperFilter II TM	1								
04-03	959A0082H02	Gasket cover oil filter OF 1605 – Westermeyer design (K)	1								
	1331.602	O-ring HNBR 170.82x5.33 Size- 364	1								
04-03	2357.1001	Gasket cover oil filter OF 1605 - Sabroe design (L)	1								
	3089.032	Set C - Overhaul set SAB 151 S/M/L/E (R22/HCFC)						1	1	1	1
	534M0602G01EU	Gasket Kit with O-Rings SAB 151						1	1	1	1
F:6-43	534B0079H08	Slydring Dia. 4-1/4 T=0.500	1								
F:6-51	534B0810H01EU	O-ring Kit 151 XJF HNBR	1								
F:6-61	534C0187H16EU	Seal ring glyd 5	1								
F:6-62	534C0187H17EU	Seal ring glyd 4-1/2	1								
F:6-63	534C0187H18EU	Seal ring glyd 4-1/4	1								
F:6-78	534C1972H01	Gasket control VAL VI	2								
F:6-113	959A0054H11	Gasket 7 3/4 OD for 5" ASME Cl.150 Flange	1								
F:6-114	959A0057H09	Gasket, Flange, size 4"	1								
	534M0602G02EU	Kit shaft seal CR SAB-XJF 151 (R22/HCFC)						1	1	1	1
F:6-6	534B2065H01	Lip Seal 151	1								
F:6-50	534B0732H01	Shaft Seal Assy. Frick 151	1								
F:6-51.3	1331.568	O-ring HNBR 75.79x3.53 Size-234	1								
F:6-51.6	1331.579	O-ring HNBR 113.89x3.53 Size- 246	2								
F:6-31	534A0570H01	Retaining Ring SAB / XJF 151						1	1	1	1
F:6-39	534B0004H30	Cylindrical Roller Bearing Dia. 65/ 120x23						1	1	1	1

Fig- Index	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
F:6-40	534B0004H31	Cylindrical Roller Bearing Dia. 55/120x29						1	1	1	1
F:6-41	1437.170	Circlip 120X4.0 DIN472						2	2	2	2
F:6-44	534B0101H27	Four Point Contact Bearing QJ 213 Dia. 65/120x23 C2L						1	1	1	1
F:6-60	534B1633H04	Nut lock BH-13						1	1	1	1
	534M0603G03EU	Bearing Kit SAB-XJF 151						1	1	1	1
F:6-26	534A0568H02	Shim 4.320/3.000x.002" circular	4								
F:6-28	534A0568H04	Shim 2.500/2.000x.002" circular	4								
F:6-29	534A0568H05	Shim 2.500/2.000x.020" circular	2								
F:6-37	534B0004H28	Cylindrical Roller Bearing Dia. 50/110x27	2								
F:6-38	534B0004H29	Cylindrical Roller Bearing Dia. 50/110x40	2								
F:6-59	534B1633H02	Nut, Lock BH-10	2								
F:6-66	534C0478H12	Bearing ang.contact ball	6								
F:6-73	534C1072H01	Bushing inlet, XJF 151	2								
F:6-74	534C1160H01	Seal Gas	2								
	720M0213G01EU	Service oil filter SAB120/151 S/M/L/E						1	1	1	1
04-02	531A0224H02	Oil Element SuperFilter II TM	1								
04-03	959A0082H02	Gasket cover oil filter OF 1605 - Westermeyer design (K)	1								
	1331.602	O-ring HNBR 170.82x5.33 Size-364	1								
04-03	2357.1001	Gasket cover oil filter OF 1605 - Sabroe design (L)	1								
	3089.076	Set C - Overhaul set SAB 151 S/M/L/E (R717/HFC)						1	1	1	1
	534M0602G01EU	Gasket Kit with O-Rings SAB 151						1	1	1	1
F:6-43	534B0079H08	Slydring Dia. 4-1/4 T=0.500	1								
F:6-51	534B0810H01EU	O-ring Kit 151 XJF HNBR	1								
F:6-61	534C0187H16EU	Seal ring glyd 5	1								
F:6-62	534C0187H17EU	Seal ring glyd 4-1/2	1								
F:6-63	534C0187H18EU	Seal ring glyd 4-1/4	1								
F:6-78	534C1972H01	Gasket control VAL VI	2								
F:6-113	959A0054H11	Gasket 7 3/4 OD for 5" ASME Cl.150 Flange	1								
F:6-114	959A0057H09	Gasket, Flange, size 4"	1								

Fig- Index	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
	534A1072G01EU	Shaft seal kit SAB/XJF 151 (R717/HFC)						1	1	1	1
F:6-6	534B2065H01	Lip Seal 151	1								
F:6-50	534B1169H01	Shaft Seal Assy.Frick 151 (SAB 151) HNBR	1								
F:6-51.3	1331.568	O-ring HNBR 75.79x3.53 Size-234	1								
F:6-51.6	1331.579	O-ring HNBR 113.89x3.53 Size-246	1								
F:6-31	534A0570H01	Retaining Ring SAB / XJF 151						1	1	1	1
F:6-39	534B0004H30	Cylindrical Roller Bearing Dia. 65/120x23						1	1	1	1
F:6-40	534B0004H31	Cylindrical Roller Bearing Dia. 55/120x29						1	1	1	1
F:6-41	1437.170	Circlip 120X4.0 DIN472						2	2	2	2
F:6-44	534B0101H27	Four Point Contact Bearing QJ 213 Dia. 65/120x23 C2L						1	1	1	1
F:6-60	534B1633H04	Nut lock BH-13						1	1	1	1
	534M0603G03EU	Bearing Kit SAB-XJF 151						1	1	1	1
F:6-26	534A0568H02	Shim 4.320/3.000x.002" circular	4								
F:6-28	534A0568H04	Shim 2.500/2.000x.002" circular	4								
F:6-29	534A0568H05	Shim 2.500/2.000x.020" circular	2								
F:6-37	534B0004H28	Cylindrical Roller Bearing Dia. 50/110x27	2								
F:6-38	534B0004H29	Cylindrical Roller Bearing Dia. 50/110x40	2								
F:6-59	534B1633H02	Nut, Lock BH-10	2								
F:6-66	534C0478H12	Bearing ang.contact ball	6								
F:6-73	534C1072H01	Bushing inlet, XJF 151	2								
F:6-74	534C1160H01	Seal Gas	2								
	720M0213G01EU	Service oil filter SAB120/151 S/M/L/E						1	1	1	1
04-02	531A0224H02	Oil Element SuperFilter II TM	1								
04-03	959A0082H02	Gasket cover oil filter OF 1605 – Westermeyer design (K)	1								
	1331.602	O-ring HNBR 170.82x5.33 Size-364	1								
04-03	2357.1001	Gasket cover oil filter OF 1605 - Sabroe design (L)	1								
		Major overhaul set									
	3089.031	Set D - Major overhaul set SAB 120 S/M/L/E (R22/HFC)		1	1	1	1				
	3088.589	Kit B - Coalescer kit - SAB 120 S/M/L/E	1								
	3089.030	Set C - Overhaul set - SAB 120 S/M/L/E (R22/HFC)	1								
	3089.081	Set D - Major overhaul set SAB 120 S/M/L/E (R717/HFC)		1	1	1	1				
	3088.589	Kit B - Coalescer kit - SAB 120 S/M/L/E	1								
	3089.080	Set C - Overhaul set - SAB 120 S/M/L/E (R717/HFC)	1								
	3089.033	Set D - Major overhaul set SAB 151 S/M (R22/HFC)						1	1		

Fig- Index	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
	3088.591	Kit B - Coalescer kit - SAB 151 S/M/	1								
	3089.032	Set C - Overhaul set - SAB 151 S/M/L/E (R22/HCFE)	1								
	3089.034	Set D - Major overhaul set SAB 151 L/E - (R22/HCFE)								1	1
	3088.592	Kit B - Coalescer kit - SAB 151 L/E	1								
	3089.032	Set C - Overhaul set - SAB 151 S/M/L/E (R22/HCFE)	1								
	3089.077	Set D - Major overhaul set - SAB 151 S/M (R717/HFC)						1	1		
	3088.591	Kit B - Coalescer kit (1 pcs) - SAB 151 S/M	1								
	3089.076	Set C - Overhaul set - SAB 151 S/M/L/E (R717/HFC)	1								
	3089.078	Set D - Major overhaul set - SAB 151 L/E (R717/HFC)								1	1
	3088.592	Kit B - Coalescer kit (2 pcs) - SAB 151 L/E & SAB 193	1								
	3089.076	Set C - Overhaul set - SAB 151 S/M/L/E (R717/HFC)	1								

1.5 General arrangement SAB 120/151

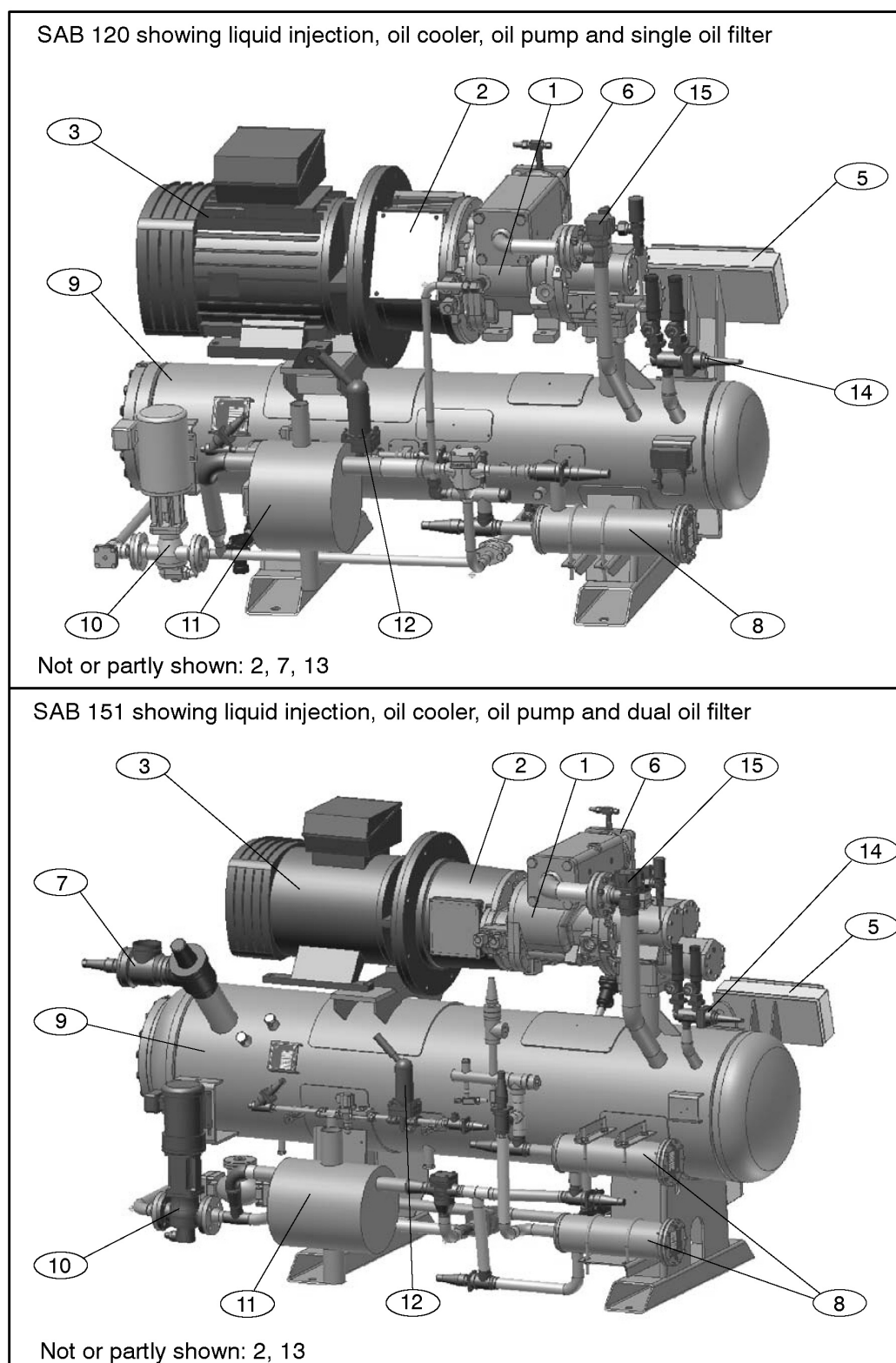


Fig. 1

General arrangement SAB 120/151

Fig-Index	P&I Ref.	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
01-01		INF	See further information f. compressor in fig.2 or Ser. Part List f. XJF Cp.	1	X	X	X	X	X	X	X	X
01-02		INF	See further information f. coupling in fig.13	1	X	X	X	X	X	X	X	X
01-03		INF	See further information for motor specifications in the Operating Manual	1	X	X	X	X	X	X	X	X
01-04		UI	Unused Index	0	X	X	X	X	X	X	X	X
01-05		INF	See further information in the Unisab manual	1	X	X	X	X	X	X	X	X
01-06		SUC	Index 06 concerns suction stop and check valves (J) (See further information f. check valve in fig.2)	0	X	X	X	X	X	X	X	X
01-06	P101	1361.195	Stop valve, Ang., Sc., SVA-S 80 D (J)	1	X							
01-06	P101	1361.196	Stop valve, Ang., Sc., SVA-S 100 D (J)	1	X	X	X	X	X	X	X	X
01-06	P101	1361.197	Stop valve, Ang., Sc., SVA-S 125 D (J)	1		X	X	X	X	X	X	X
01-06	P101	1361.198	Stop valve, Ang., Sc., SVA-S 150 D (J)	1					X	X	X	X
01-06	PE-4/ P158	3084.863	Pressure transmitter -1 to 9 bar JCI P599 0.5-4.5V ratiometric w/plug (AC)	1	X	X	X	X	X	X	X	X
01-06	PE-4/ P158	3084.860	Pressure transmitter -1 to 9 bar JCI P599 4-20mA w/plug (AD)	1	X	X	X	X	X	X	X	X
01-06	TE-1/ P151	1373.2017	Temperature sensor PT100 130mm G1/4B	1	X	X	X	X	X	X	X	X
01-06		1377.441	Repair kit, Temperature sensor PT100 130mm	1	X	X	X	X	X	X	X	X
01-06		1349.135	Seal ring bonded for G1/4A (for Pocket sealing) 18/13.3mm	1	X	X	X	X	X	X	X	X
01-07		DIS	Index 07 concerns discharge stop and check valves (J) (Q)	0	X	X	X	X	X	X	X	X
01-07	P102	1361.195	Stop valve, Ang., Sc., SVA-S 80 D (J)	1	X	X	X	X	X	X		
01-07	P102	1361.196	Stop valve, Ang., Sc., SVA-S 100 D (J)	1							X	X
01-07	P126	1372.601	Check valve, Ang., KDC 80 (T)	1	X	X	X	X	X	X		
01-07	P126	1372.602	Check valve, Ang., KDC100 (T)	1							X	X
01-07	P126	1372.606	Check valve, Ang., KDC 80 (U)	1	X	X	X	X	X	X		
01-07	P126	1372.607	Check valve, Ang., KDC100 (U)	1							X	X
01-07	P107	1361.1004	Stop needle valve SNV-ST 1/4MPT - CD6	1	X	X	X	X	X	X	X	X
01-08		INF	See further information for single oil filter in fig.4 and dual oil filter in fig.5	0	X	X	X	X	X	X	X	X
01-09		INF	See further information for oil separator in fig.3	0	X	X	X	X	X	X	X	X
01-10		INF	See further information for oil pump in fig.12	0	X	X	X	X	X	X	X	X

Fig-Index	P&I Ref.	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
01-11		INF	See further information for oil cooler in fig.6	0	X	X	X	X	X	X	X	X
01-12		INF	See further information for liquid injection in fig.8	0	X	X	X	X	X	X	X	X
01-13		INF	See further information for Economizer in fig.12	0	X	X	X	X	X	X	X	X
01-14		INF	See further information for unit safety valve in fig.3	0	X	X	X	X	X	X	X	X
01-15		INF	See further information for Cp. safety valve system in fig.16	0	X	X	X	X	X	X	X	X
01-16	200	3447.649	Oil return valve EVRB type complete w. filter and valves	1	X	X	X	X	X	X	X	X
01-16		1377.246	Repair kit for oil return valve	1	X	X	X	X	X	X	X	X
01-17	159	1373.132	Pressure switch 8-32bar M12x1.5 KP7ABS (AM)	1	X	X	X	X	X	X	X	X
01-17	159	1373.1019	Pressostat Penn P78PLM-9750 0 to 30Bar (AN)	1	X	X	X	X	X	X	X	X
01-17		1523.1001	KP7 Damper-mat. (AJ)	1	X	X	X	X	X	X	X	X
J) Spare parts kits and sets for stop valve in fig.9												
Q) Spare parts kits and sets for check valve in fig.10												
T) Only at high stage operating mode												
U) Only at Booster operating mode												
Z) For package without Unisab II control only												
AC) For package with Unisab II control only												
AD) For package with Unisab III control only												
AJ) After January 2015												
AM) Before 2019												
AN) After 2019												

1.6 Screw compressor, typical (XJF 151 shown)

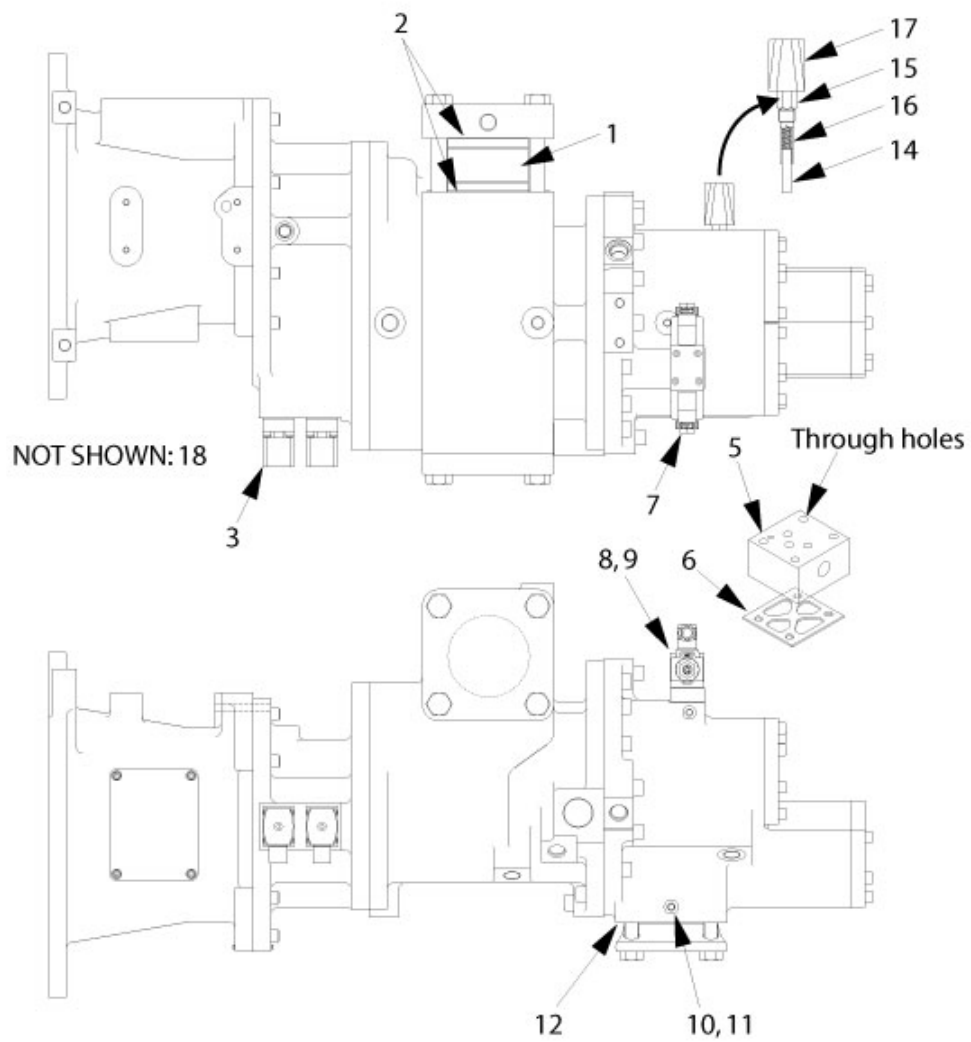


Fig. 2

Screw compressor, typical (XJF 151 shown)

Fig-Index	P&I Ref.	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
02-	C-1	534E1204G01	Screw compressor XJF 120S (w)	1	X							
02-	C-1	534E1204G02	Screw compressor XJF 120M (y)	1		X						
02-	C-1	534E1204G03	Screw compressor XJF 120L (y)	1			X					
02-	C-1	534E1204G04	Screw compressor XJF 120S (y)	1				X				
02-	C-1	534E1205G01	Screw compressor XJF 151A (y)	1					X			
02-	C-1	534E1205G02	Screw compressor XJF 151M (y)	1						X		
02-	C-1	534E1205G03	Screw compressor XJF 151L (y)	1							X	
02-	C-1	534E1205G04	Screw compressor XJF 151N (y)	1								X
02	C-1	534C2139G01	Screw compressor XJF 151A w.NRV (Y)(AL)	1					X			
02	C-1	534C2139G02	Screw compressor XJF 151M w.NRV (Y)(AL)	1						X		
02	C-1	534C2139G03	Screw compressor XJF 151L w.NRV (Y)(AL)	1							X	
02	C-1	534C2139G04	Screw compressor XJF 151N w.NRV (Y)(AL)	1								X
02-01	CV-1	1364.1000	Check valve, 4"	1	X	X	X	X				
02-01	CV-1	1364.1001	Check valve, 5"	1					X	X	X	X
02-01	CV-1	534C2618G01	Check valve 151 (HNBR) (AL)	1					X	X	X	X
02-01		1413.1005	Screw M24x3 L=70 8.8 DIN 933/ISO 4017 black (AL)	4					X	X	X	X
02-02		2354.179	Gasket 114/175 x1.5mm 4" Klinger-Sil	2	X	X	X	X				
02-02		2354.180	Gasket 141/197 x1.5mm 5" Klinger-Sil C4430	2					X	X	X	X
02-02		1427.061	Stud bolt M24x160 (for NRV)	4	X	X	X	X	X	X	X	X
02-02		1432.070	Nut M24x3 DIN934 NV36	4	X	X	X	X	X	X	X	X
02-03	YY-3/4	951A0095H01	Coil 11W 120V 50/60Hz (AA)	2	X	X	X	X	X	X	X	X
02-03	YY-3/4	951A0095H02	Coil 11W 240V 50/60Hz (AA)	2	X	X	X	X	X	X	X	X
02-03	YY-3/4	951A0115G01	Solenoid Valve and Coil Assy. 120V AC 50/60Hz incl. DIN conn.	2	X	X	X	X	X	X	X	X
02-03	YY-3/4	951A0115G02	Solenoid Valve and Coil Assy. 240V AC 50/60Hz incl. DIN conn.	2	X	X	X	X	X	X	X	X
02-03	YY-3/4	951A0115H01	Solenoid Valve Block, EVRF w/o coil, SAB 120/151	2	X	X	X	X	X	X	X	X
02-03	YY-3/4	534A1972H01	Gasket, control valve Vi	2	X	X	X	X	X	X	X	X
02-03	YY-3/4	950A0293H02	Coil 110/120V 50/60Hz (AB)	2	X	X	X	X	X	X	X	X
02-03	YY-3/4	950A0293H01	Coil 220/240V 50/60Hz (AB)	2	X	X	X	X	X	X	X	X
02-03	YY-3/4	1413.358	Cap screw socket head M8x30	8	X	X	X	X	X	X	X	X
02-03		1372.545	DIN cable connector f. coil	2	X	X	X	X	X	X	X	X
02-03		1554.159	Gasket f. DIN cable connector	2	X	X	X	X	X	X	X	X
02-04		UI	Unused Index	0	X	X	X	X	X	X	X	X
02-05		534B1088H01	Block, manifold f. solenoid valve	1	X	X	X	X	X	X	X	X
02-06		534C2342H01	Gasket, sub plat to compressor	1	X	X	X	X	X	X	X	X
02-07	YY-1/2	1372.2015	Coil, DIN conn. YUKEN C-SR1 "70" 120V/60Hz-110V50Hz, AC-DC rectified	2	X	X	X	X	X	X	X	X
02-07	YY-1/2	1372.2014	Coil, DIN conn. YUKEN C-SR1 "70" 220V/50Hz-240V/60Hz, AC-DC rectified	2	X	X	X	X	X	X	X	X

Fig- Index	P&I Ref.	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
02-07	YY-1/2	1554.1718	Connector with rectifier, GDME-211-R-A-10 (Gray)	1	X	X	X	X	X	X	X	X
02-07	YY-1/2	1554.1719	Connector with rectifier, GDME-211-R-B-10 (Black)	1	X	X	X	X	X	X	X	X
02-07	YY-1/2	1554.159	Gasket GDM 3-7 hirschmann plug	2	X	X	X	X	X	X	X	X
02-08	YY-1/2	951A0138H01	Control valve block & coil, 110V 50/60Hz 29W, D03, HNBR, DIN connectors, AC/DC rectified	1	X	X	X	X	X	X	X	X
02-08	YY-1/2	951A0138H02	Control valve block & coil 220V 50/60Hz 29W D03 HNBR DIN. AC/DC rectified	1	X	X	X	X	X	X	X	X
02-08		1413.423	Hex socket cap screw M5x80 12.9	4	X	X	X	X	X	X	X	X
02-08		980A0012K58	O-ring, manifold to valve	4	X	X	X	X	X	X	X	X
02-09		951A0113H20	Seal kit f. four-way solenoid valve	1	X	X	X	X	X	X	X	X
02-10	PE-3/ P157	3084.864	Pressure transmitter -1 to 25 bar JCI P599 0.5-4.5V ratiometric w/plug (AC)	1	X	X	X	X	X	X	X	X
02-10	PE-3/ P157	3084.861	Pressure transmitter, -1/25 bar, JCI P599 4-20 mA / 24 VDC (Z) (AD)	1	X	X	X	X	X	X	X	X
02-11			Unused index									
02-12		959A0057H18	Gasket flange, Size 3"	1	X	X	X	X				
02-12		2356.106	Gasket Flat 140/105x1.5	1					X	X	X	X
02-13	NV-2	1361.117	Needle valve, Ang., Sc., SNV-ST CD10 (J)	1	X	X	X	X	X	X	X	X
02-	P181/ P182	1364.438	Regulating valve FT 257/5 DN6	2	X	X	X	X	X	X	X	X
02-14		534B1424G01	Rod indicator 120	1	X	X	X	X				
02-14		534B1424G02	Rod indicator 151	1					X	X	X	X
02-15		980A0012K62	O-ring HNBR 16.36x2.21 Size-908	1	X	X	X	X	X	X	X	X
02-16		534A0883H01	Spring under rod assy	1	X	X	X	X	X	X	X	X
02-17		534C1552H01	Transmitter w/well, linear position, Frick Short Stroke	1	X	X	X	X	X	X	X	X

J) Spare parts kits and sets for stop valve in fig.9

Y) Including all mounting hardware (coils, cable connectors and gaskets, seal kit)

Z) For package without Unisab II control only

w) For electric motor with 4 poles

y) For electric motor with 2 poles

AA) If replacing product supplied by PE valve

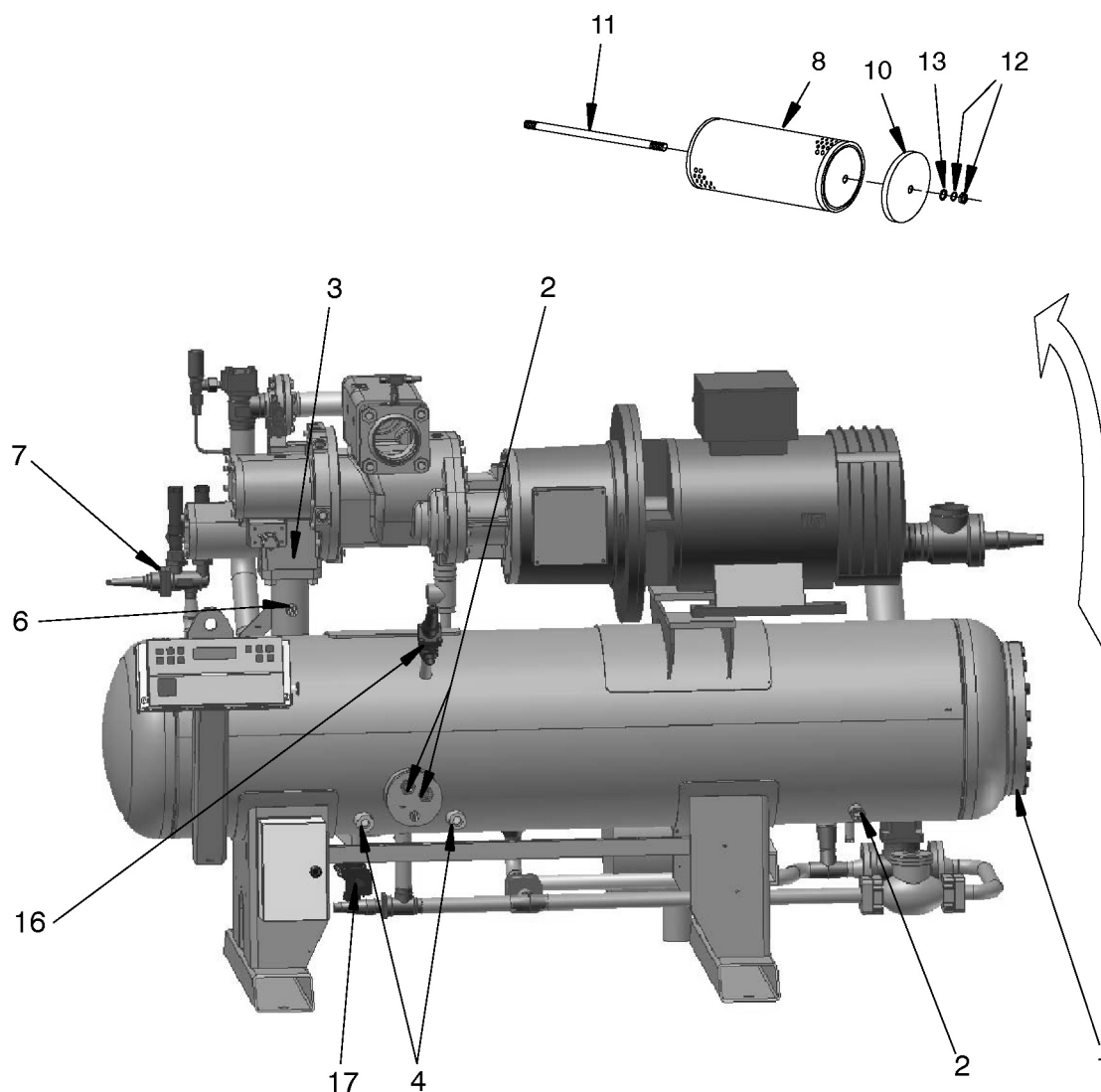
AB) If replacing product supplied by Danfoss

AC) For package with Unisab II control only

AD) For package with Unisab III control only

AL) From App. January 2018

1.7 Oil separator, typical (SAB151 L/E shown)



Not or partly shown: 5, 6, 9, 14, 15

Fig. 3

Oil separator, typical (SAB151 L/E shown)

Fig-Index	P&I Ref.	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
03-	PV-1	548E0398EU	Assembly, oil separator OHU 04019	1	X	X	X	X				
03-	PV-1	548E0399EU	Assembly, oil separator OHU 05024	1					X	X		
03-	PV-1	548E0400EU	Assembly, oil separator OHU 06024	1							X	X
03-01		1331.604	O-ring ø329.57 x 5.33 , Manway	1	X	X	X	X	X	X		
03-01		1331.605	O-ring ø380.37 x 5.33 , Manway	1							X	X
03-02	LG-1/2/3 / P116/ 117/118	1226.014	Sight glass M33 x 1.5	3	X	X	X	X	X	X	X	X
03-02		2356.144	Gasket, aluminium ø40.5/33 x 1.5	3	X	X	X	X	X	X	X	X
03-03		959A0057H18	Gasket f. flange, Cp. discharge	1	X	X	X	X				
03-03		959A0057H09	Gasket f. flange, Cp. discharge	1					X	X	X	X
03-04	HTR-1 / P161	1555.122	Ass., oil heater, 500W/120V	1	X	X	X	X	X	X	X	X
03-04	HTR-2 / P162	1555.122	Ass., oil heater, 500W/120V	1					X	X	X	X
03-04	HTR-1 / P161	1555.124	Ass., oil heater, 500W/240V	1	X	X	X	X	X	X	X	X
03-04	HTR-2 / P162	1555.124	Ass., oil heater, 500W/240V	1					X	X	X	X
03-05	LSL-1 / P161	1553.1013	Switch, oil level sensing, 24V (AC)	1	X	X	X	X	X	X	X	X
03-05	LSL-1 / P160	1553.1013	Switch, oil level sensing, 24V (AD)	1	X	X	X	X	X	X	X	X
03-05		1349.248	Seal ring, steel, ø26/21.1 x 4.5	1	X	X	X	X	X	X	X	X
03-06	TE-2 / P152	1373.2015	Temperature sensor including pocket, L=80	1	X	X	X	X	X	X	X	X
03-06	TE-4 / P154	1373.2016	Temperature sensor including pocket, L=95	1	X	X	X	X	X	X	X	X
03-06		1349.135	Seal ring, bonded, for G 1/4 A (H) (for pocket sealing purpose)	2	X	X	X	X	X	X	X	X
03-07	P103	1364.349	Double stop valve DSV 1 (E)	1	X	X	X	X	X	X	X	X
03-07	P104/ 105	1364.361	Safety valve SFA 15, 22 bar g (F)	2	X	X	X	X	X	X	X	X
03-07	P104/ 105	1364.363	Safety valve SFA 15, 24 bar g (F)	2	X	X	X	X	X	X	X	X
03-07	P104/ 105	1364.371	Safety valve SFA 15, 26 bar g (F)	2	X	X	X	X	X	X	X	X
03-07		1377.257	Repair kit, gaskets for DSV 1	1	X	X	X	X	X	X	X	X
03-07		1377.255	Kit, gaskets f. two SFA 15 on DSV 1	1	X	X	X	X	X	X	X	X
03-07		1377.259	Repair kit f. SFA 15 (gaskets+cone)	1	X	X	X	X	X	X	X	X
03-08		531B0099H02	Filter, coalescing, convoluted	1	X	X	X	X				
03-08		531B0099H01	Filter, coalescing, convoluted	1					X	X	X	X
03-08		531B0099H01	Filter, coalescing, convoluted (A) SAB 151 L/E: 1 or 2 pcs.	1							X	X
03-09		UI	Unused Index	0								
03-10		540D0217G02EU	Retainer, filter end plate (B) or (C)	1					X	X	X	X
03-11		548A0068G01EU	Stud bolt, double 1/2-13 UNC x 673	1	X	X	X	X				
03-11		540D0217G03EU	Stud bolt, double 1/2-13 UNC x 918 (B)	1					X	X	X	X
03-12		902A0021H01	Nut, hexagon 1/2-13 UNC (B)	2	X	X	X	X	X	X	X	X

Fig-Index	P&I Ref.	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
03-13		1436.075	Washer, plain, hardened ID=13 (B) or (C)	1	X	X	X	X	X	X	X	X
03-14		1423.014	Screw, hexagon 1/2-13 UNC x 32 (C)	1					X	X	X	X
03-15		2356.272	Gasket ø225/169 x 2 (C)	1					X	X	X	X
03-16	P108	1361.188	Stop valve, Ang., Sc., SVA-S 15 D (J)	1	X	X	X	X				
03-16	P108	1361.190	Stop valve, Ang., Sc., SVA-S 25 D (J)	1					X	X	X	X
03-17	P106	1361.189	Stop valve, Ang., Sc., SVA-S 20 D (J)	1	X	X	X	X				
03-17	P106	1361.190	Stop valve, Ang., Sc., SVA-S 25 D (J)	1					X	X	X	X
A) Quantity depend on operating conditions of the unit												
B) Quantity is for each coalescer element												
C) Quantity is for each unused filter opening												
E) Only safety valves can be replaced												
F) Set pressure depend on operating conditions												
H) Quantity is for each sealing purpose												
J) Spare parts kits and sets for stop valve in fig.9												
AC) For package with Unisab II control only												
AD) For package with Unisab III control only												

1.8 Oil filter, single, typical (SAB 151 L/E shown)

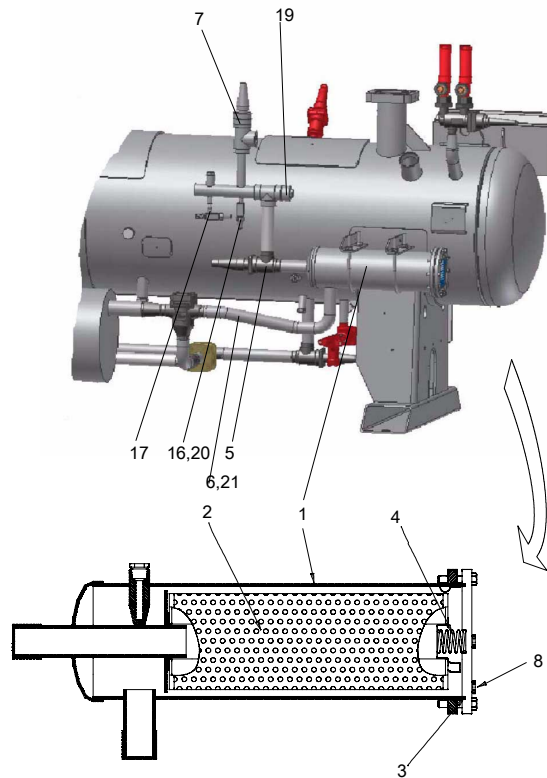


Fig. 4

Oil filter, single, typical (SAB 151 L/E shown)

Fig-Index	P&I Ref.	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
04-		3440.L03	Assembly, single oil filter	1	X	X	X	X				
04-		720D0409G01EU	Assembly, single oil filter	1					X	X		
04-		720M0376G01EU	Assembly, single oil filter	1							X	X
04-01	OF-1	535C0513EU.PED	Ass., oil filter (K)	1	X	X	X	X	X	X	X	X
04-01	OF-1	3421.1000.PED	Ass. Oil filter (L)	1	X	X	X	X	X	X	X	X
04-02/ 03		720M0213G01EU	Service oil filter SAB120/ 151 S/M/L/E	1	X	X	X	X	X	X	X	X
04-02		531A0224H02	Element, super filter II	1								
04-03		959A0082H02	Gasket cover oil filter Westermeyer design. (K)	1								
04-03		1331.602	O-ring HNBR 170.82x5.33 Size-364	1								
04-03		2357.1001	Gasket cover oil filter OF 1605 - Sabroe design (L)	1								
04-04		535A0378H01	Spring for oil filter (K)(L)	1	X	X	X	X	X	X	X	X
			External Parts									
04-05	P119	1361.190	Stop valve, Ang., Sc., SVA-S 25 D (J)	1	X	X	X	X				
04-05	P119	1361.192	Stop valve, Ang., Sc., SVA-S 40 D (J)	1					X	X	X	X

Fig-Index	P&I Ref.	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
04-05	P123	1361.192	Stop valve, Ang., Sc., SVA-S 40 D (J)	1	X	X	X	X	X	X	X	X
04-06	P122	1361.117	Stop valve, Ang., Sc., SNV-ST CD10 (J)	1	X	X	X	X	X	X	X	X
04-07	P124	1364.531	Reg. valve, Ang., Sc., REG-SB 40 D (J)	1					X	X	X	X
04-08	P121	1361.117	Stop valve, Ang., Sc., SNV-ST CD10 (J)	1	X	X	X	X	X	X	X	X
04-16	P125	1361.117	Stop valve, Ang., Sc., SNV-ST CD10 (J)	1	X	X	X	X	X	X	X	X
04-17	P147	1361.117	Stop valve, Ang., Sc., SNV-ST CD10 (J)(R)	1					X	X	X	X
04-19	TE-3 / P153	1373.1010	Temperature sensor PT100 80mm G1/4 KL B w/o plug	1	X	X	X	X	X	X	X	X
04-19		1349.135	Seal ring bonded for G1/4A (for Pocket sealing) 18/13.3mm	1	X	X	X	X	X	X	X	X
04-20	PE-1 / P155	3084.861	Pressure transmitter -1 to 25 bar JCI P599 4-20mA w/plug (AD)	1	X	X	X	X	X	X	X	X
04-20	PE-1 / P155	3084.864	Pressure transmitter -1 to 25 bar JCI P599 0.5-4.5V ratio-metric w/plug (AC)	1	X	X	X	X	X	X	X	X
04-21	PE-2 / P156	3084.861	Pressure transmitter -1 to 25 bar JCI P599 4-20mA w/plug (AD)	1	X	X	X	X	X	X	X	X
04-21	PE-2 / P156	3084.864	Pressure transmitter -1 to 25 bar JCI P599 0.5-4.5V ratio-metric w/plug (AC)	1	X	X	X	X	X	X	X	X
J) Spare parts kits and sets for stop valve in fig.9												
K) Frick style filter housing												
L) New filter housing app. 2017.												
AC) For package with Unisab II control only												
AD) For package with Unisab III control only												
R) Deleted from app. 2018												

1.9 Oil filter, dual, typical (SAB 151 L/E shown)

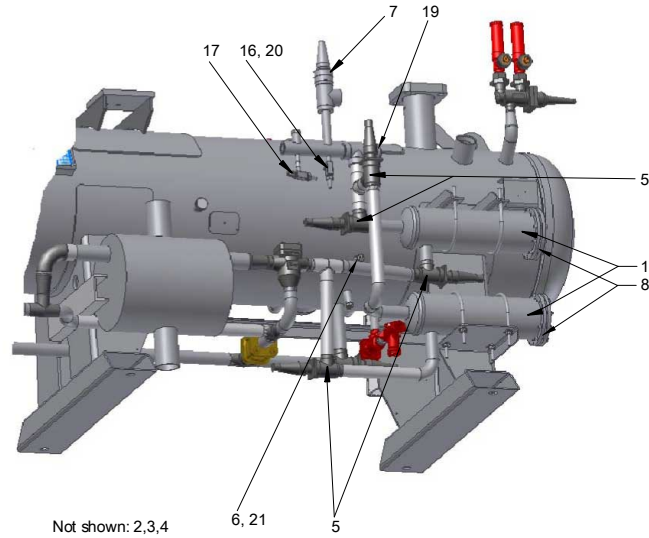


Fig. 5

Oil filter, dual, typical (SAB 151 L/E shown)

Fig-Index	P&I Ref.	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
05-		720D0408G01EU	Assembly, dual oil filter	1					X	X		
05-		720M0375G01EU	Assembly, dual oil filter	1							X	X
05-01	OF-1	535C0513EU.PED	Ass., oil filter (K)	2					X	X	X	X
05-01	OF-1	3421.1000.PED	Ass. Oil filter (L)	2					X	X	X	X
05-02/ 03		720M0213G01EU	Service oil filter SAB120/151 S/ M/L/E	2					X	X	X	X
05-02		531A0224H02	Element, super filter II	1								
05-03		959A0082H02	Gasket cover oil filter Westermeyer design (K)	1								
05-03		1331.602	O-ring HNBR 170.82x5.33 Size-364	1								
05-03		2357.1001	Gasket cover oil filter OF 1605 - Sabroe design (L)	1								
05-04		535A0378H01	Spring for oil filter (K)(L)	2					X	X	X	X
			External parts									
05-05	P123/ 135/ 136/138	1361.192	Stop valve, Ang., Sc., SVA-S 40 D (J)	4					X	X	X	X
05-06	P122	1361.117	Stop valve, Ang., Sc., SNV-ST CD10 (J)	1					X	X	X	X
05-07	P124	1364.531	Reg. valve, Ang., Sc., REG—SB 40 D (J)	1					X	X	X	X
05-08	P121/ 137	1361.117	Stop valve, Ang., Sc., SNV-ST CD10 (J)	2					X	X	X	X
05-16	P125	1361.117	Stop valve, Ang., Sc., SNV-ST CD10 (J)	1					X	X	X	X
05-17	P147	1361.117	Stop valve, Ang., Sc., SNV-ST CD10 (J)(R)	1					X	X	X	X

Fig-Index	P&I Ref.	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
05-19	TE-3 / P153	1373.1010	Temperature sensor PT100 80mm G1/4 KL B w/o plug	1					X	X	X	X
05-19		1349.135	Seal ring bonded for G1/4A (for Pocket sealing) 18/13.3mm	1					X	X	X	X
05-20	PE-1 / P155	3084.861	Pressure transmitter -1 to 25 bar JCI P599 4-20mA w/plug (AD)	1					X	X	X	X
05-20	PE-1 / P155	3084.864	Pressure transmitter -1 to 25 bar JCI P599 0.5-4.5V ratiometric w/plug (AC)	1					X	X	X	X
05-21	PE-2 / P156	3084.861	Pressure transmitter -1 to 25 bar JCI P599 4-20mA w/plug (AD)	1					X	X	X	X
05-21	PE-2 / P156	3084.864	Pressure transmitter -1 to 25 bar JCI P599 0.5-4.5V ratiometric w/plug (AC)	1					X	X	X	X
D) See cross-sectional view in fig.4												
J) Spare parts kits and sets for stop valve in fig.9												
K) Frick style filter housing.												
L) New filter housing app. 2017.												
AC) For package with Unisab II control only.												
AD) For package with Unisab III control only.												
R) Deleted from App. 2018												

1.10 Oil cooler piping, typical (SAB 151 L/E shown)

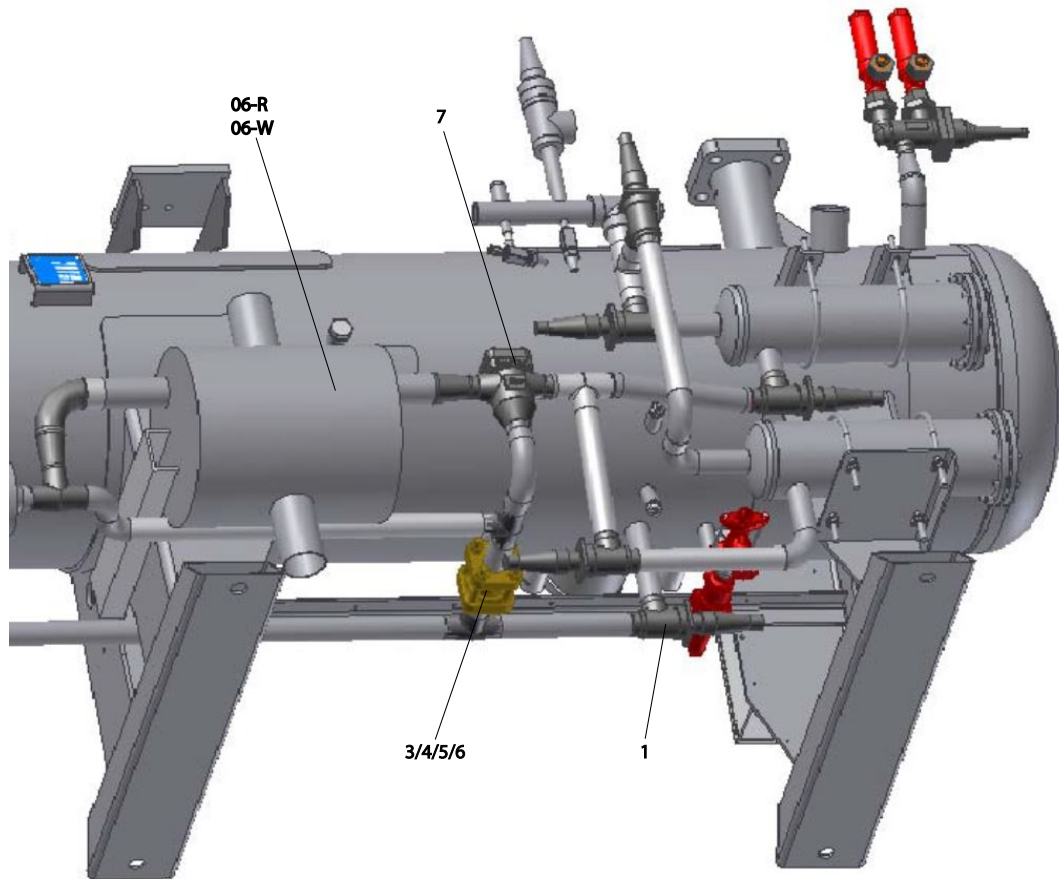


Fig. 6

Oil cooler piping, typical (SAB 151 L/E shown)

Fig-Index	P& I Ref.	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
06- R	TSOC	1952.084	Oil cooler PSHE 66, Rc.	1	X	X	X	X	X	X	X	X
06- R	TSOC	1952.086	Oil cooler PSHE 116, Rc.	1							X	X
06- W	WCOC	1952.085	Oil cooler PSHE 66, Wc.	1	X	X	X	X	X	X	X	X
06- W	WCOC	1952.087	Oil cooler PSHE 116, Wc.	1							X	X
06-01	P119	1361.190	Stop valve, Ang., Sc., SVA-S 25 D (J)	1	X	X	X	X				
06-01	P119	1361.192	Stop valve, Ang., Sc., SVA-S 40 D (J)(L)	1	X	X	X	X	X	X	X	X
06-01	P119	1361.192	Stop valve, Ang., Sc., SVA-S 40 D (J)	1					X	X	X	X
06-07	TCV-1 / P120	2418.005	Oil regulating valve ORV 25 H1 49°C/120°F	1	X	X	X	X				
06-07	TCV-1 / P120	2418.001	Oil regulating valve ORV 40 H1 49°C/120°F	1					X	X	X	X
06-07		3084.841	ORV Thermostat H1 49C/120F, Incl Gas- ket and Guide Ring	1	X	X	X	X	X	X	X	X

J) Spare parts kits and sets for stop valve in fig.9

L) Only if with oil pump

1.11 Compressor overflow valve

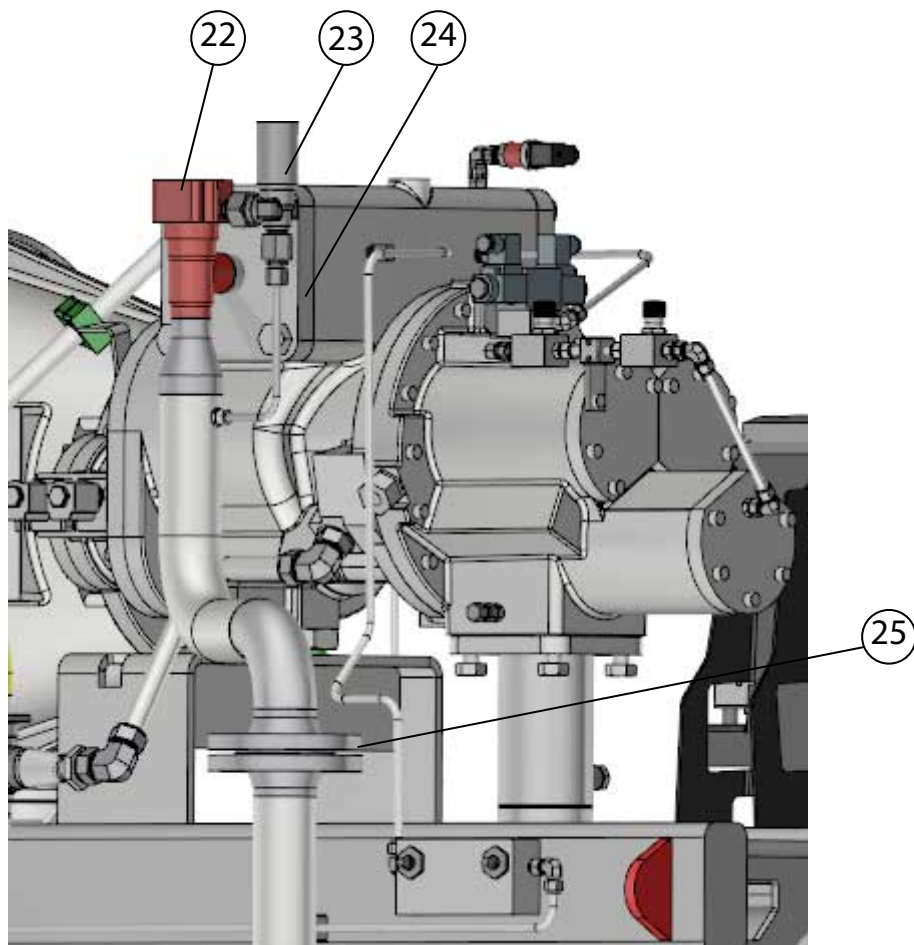


Fig. 7

Compressor overflow valve

Fig-Index	P&I Ref.	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
07-22	P127	2417.232	Pilot controlled safety valve POV 600 DN40	1	X	X			X	X		
07-22	P127	1364.348	Pilot Controlled Safety Valve POV 1050	1			X	X			X	X
07-23	P128	2416.203	Safety valve BSV 8 T 220 20bar	1	X	X	X	X	X	X	X	X
07-23	P128	2416.224	Safety valve BSV 8 T 222 22Bar	1	X	X	X	X	X	X	X	X
07-23	P128	2416.315	Safety valve BSV8 T224 24bar	1	X	X	X	X	X	X	X	X
07-23		2356.127	Gasket Alu 24/13x1.5	1	X	X	X	X	X	X	X	X
07-23		2356.137	Gasket Alu 30/16x1.5	1	X	X	X	X	X	X	X	X
07-24		959A005-4H10	Gasket 6 7/8 OD for 4" ASME Cl.150 Flange	1	X	X	X	X				
07-24		1331.481	O-ring HNBR 171.04x3.53 Size-261	1					X	X	X	X
07-25		2356.220	Gasket flat 75/61x2	1	X	X			X	X		
07-25		2356.222	Gasket Flat 109/95x2	1			X	X			X	X

1.12 Oil pump - SAB 120, SAB 151.

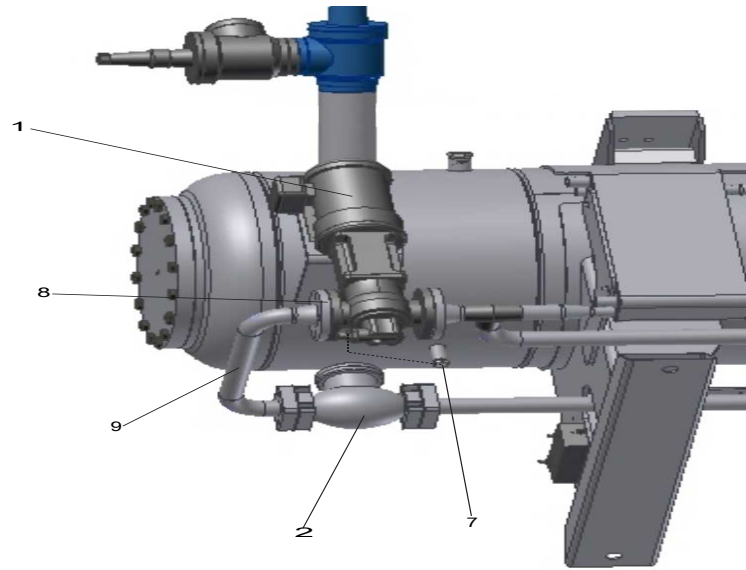


Fig. 8

Oil pump

Fig-Index	P&I Ref.	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
08-01	P/PM-1	960A0090G01	Ass., oil pump w. motor GG495M 9/10 GPM 56C , 1 hp 3x400/460V 50/60Hz	1	X	X	X	X				
08-01	P/PM-1	960A0090G02	Ass., oil pump w. motor GG495M 9/10 GPM 56C, 1 hp 3x415V 50Hz	1	X	X	X	X				
08-01	P/PM-1	960A0082G01	Ass., oil pump with motor, HJ495M 13/15GPM 145TC, 1HP, 3x380v-50Hz/460v-60Hz	1					X	X	X	X
08-01	P/PM-1	960A0082G03	Ass., oil pump with motor, HJ495M 13GPM 145TC, 1HP, 3x415v50Hz	1					X	X	X	X
08-01	P-1	960A0090H01	Oil Pump GG495Monly (without motor) 9/10 GPM	1	X	X	X	X				
08-01	P-1	960A0082H01	Oil Pump HJ495M only (without motor) 23/19GPM-1750/1450RPM	1					X	X	X	X
08-01	PM-1	914A0015H01	Motor for oil pump 1.0Hp 3x230/460V 50/60Hz Frame 56C	1	X	X	X	X				
08-01	PM-1	914A0015H05	Motor for oil pump 1.0Hp 3x415V 50Hz Frame 56C	1	X	X	X	X				
08-01	PM-1	914A0015H18	Motor for oil pump 1.0Hp 3x230/460V 50/60Hz Frame 145TC	1					X	X	X	X
08-01	PM-1	914A0015H20	Motor for oil pump 1.0Hp 3x415V 50Hz Frame 145TC	1					X	X	X	X
08-01		960A0068H11	Coupling only for 1.0hp motor 56TC	1	X	X	X	X				
08-01		960A0066H11	Coupling only for 1.0 & 1.5hp motor 145TC	1					X	X	X	X
08-01		535M0202G01	Shaft Seal Kit Pump 1.0hp (N)	1	X	X	X	X	X	X	X	X
08-02	STR-2 / P144	950A0001H04EU	Strainer 1", flange size 1" (L)	1	X	X	X	X				

Fig-Index	P&I Ref.	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
08-02	STR-2 / P144	950A0001H08EU	Strainer 2", flange size 1-1/2" (L)	1					X	X	X	X
08-02		950A0001H23	Kit for 1" strainer (L) (z)	1	X	X	X	X				
08-02		950A0001H27	Kit for 2" strainer (L) (V)	1					X	X	X	X
08-02		950A0001H39	Screen gasket for 1" strainer (L)	1	X	X	X	X				
08-02		950A0001H40	Screen gasket for 2" strainer (L)	1					X	X	X	X
08-02		950A0001H32	Flange gasket for 1" strainer (L)	2	X	X	X	X				
08-02		950A0001H34	Flange gasket for 2" strainer (L)	2					X	X	X	X
08-03	CV-2 / P139	956A0012G07EU	Check valve, Str., 1" (L)(S)	1	X	X	X	X				
08-03	CV-2 / P139	956A0012G03EU	Check valve, Str., 1-1/2" (L)(S)	1					X	X	X	X
08-03		959A0057H04	Gasket OD=2-5/16" (L)(S)	2					X	X	X	X
08-04		1344.373	Flange DN 25 (L)(S)	2	X	X	X	X				
08-04		1344.369	Flange DN 40 (L)(S)	2					X	X	X	X
08-05		959A0054H23	Gasket OD=2-7/8" (L)(S)	2	X	X	X	X				
08-05		959A0054H25	Gasket OD=3-3/4" (L)(S)	2					X	X	X	X
08-06		901A0172H01EU	Kit, screws f. flange DN 25 (L)(S)	2	X	X	X	X				
08-06		901A0172H03EU	Kit, screws f. flange DN 40 (L)(S)	2					X	X	X	X
08-07	CV-3, P140	960A0014H01	Check Valve in-line 3/4 (Until May 2019)	1	X	X	X	X	X	X	X	X
08-08		1424.290	Hex HD Cap Screw Fully Threaded M20x65 8.8	8	X	X	X	X	X	X	X	X
08-08		1432.068	Nut M20 10	8	X	X	X	X	X	X	X	X
08-09	P145	1361.117	Needle valve SNV-ST CD10-CD10 Ang. (J)	1	X	X	X	X	X	X	X	X
From delivery May 2019												
08-01	P/PM-1	1524.1092	Oil Pump Pos displace 0.75 kW 32.8/39.7 L/m 380/400/440V 50/60Hz w/ Relief valve KF 25 RF 6/460-D15 (Incl. flanges)	1	X	X	X	X				
08-01	P/PM-1	1524.1094	Oil Pump Pos displace 1.10 kW 53.4/65 L/m 380/400/440V 50/60Hz w/Relief valve KF 40 RF 34/375-D15 (Incl. flanges)	1					X	X	X	X
08-01		1524.2062	Sparepart kit Oil Pump KF25 RF 6/206 - D 15 (Q)	1	X	X	X	X				
08-01		1524.2063	Sparepart kit Oil Pump KF40/63/80 RF 34/375 - D 15 (Q)	1					X	X	X	X
08-09	P145	1361.188	Stop valve, Ang., SC., SVA15	1	X	X	X	X	X	X	X	X
J) Spare parts kits and sets for stop valves in Chapte 9.												
L) Only if with oil pump												
N) Consists of shaft seal, O-ring, bearings and locknut.												
Q) Consists of shaft seal, all O-rings and rubber insert of coupling												
S) Show in Fig.6.												
V) Consists of screen , spring and screen gasket.												
Z) Consists of screen and screen gasket.												

1.13 Coupling assembly - SAB 120 and SAB 151

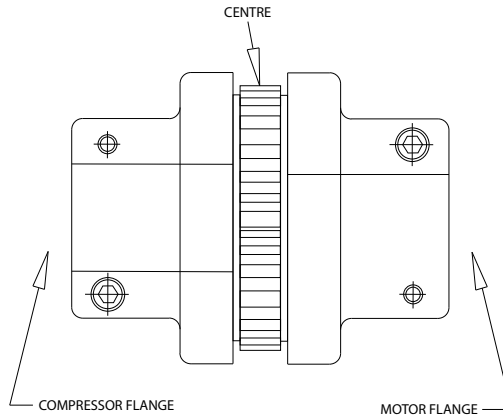


Fig. 9

Coupling assembly- SAB 120 and SAB 151

Fig-Index	P&I Ref.	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
09-		1524.2068	Ass., Coupling 8C, ø55 & 1.575" (g)	1	X	X	X	X				
09-		1524.2069	Ass., Coupling 9C, ø60 & 1.575" (g)	1	X	X	X	X				
09-		1524.2070	Ass., Coupling 9C, ø65 & 1.575" (g)	1	X	X	X	X				
09-		1524.2071	Ass., Coupling 10C, ø65 & 1.575" (g)	1	X	X	X	X				
09-		1524.2072	Ass., Coupling 10C, ø70 & 1.575" (g)	1	X	X	X	X				
09-		1524.2073	Ass., Coupling 9C, ø60 & 2.000" (g)	1					X	X	X	X
09-		1524.2074	Ass., Coupling 9C, ø65 & 2.000" (g)	1					X	X	X	X
09-		1524.2075	Ass., Coupling 10C, ø65 & 2.000" (g)	1					X	X	X	X
09-		1524.2076	Ass., Coupling 10C, ø70 & 2.000" (g)	1					X	X	X	X
09-01		50-028-0822	Coupling Sleeve 8H	1	X	X	X	X				
09-01		50-028-0823	Coupling Sleeve 9H	1	X	X	X	X	X	X	X	X
09-01		50-028-0824	Coupling sleeve 10H	1	X	X	X	X	X	X	X	X
09-01		1524.299	Coupling sleeve 11H	1					X	X	X	X
09-02		930A0093H54	Coupling flange compressor 8C 1.575"	1	X	X	X	X				
09-02		1524.292	Coupling flange compressor 9C 1.575"	1	X	X	X	X				
09-02		1524.294	Coupling flange compressor 10C 1.575"	1	X	X	X	X				
09-02		930A0093H37	Coupling flange compressor 9C 2.000"	1					X	X	X	X
09-02		930A0120H01	Coupling flange compressor 10C 2.000"	1					X	X	X	X
09-02		1524.297	Coupling flange compressor 11C 2.000"	1					X	X	X	X
09-02		1524.290	Coupling flange Motor 8C Ø48	1	X	X	X	X				
09-03		1524.291	Coupling flange Motor 8C Ø55	1	X	X	X	X				
09-03		1524.293	Coupling flange Motor 9C Ø60	1	X	X	X	X	X	X	X	X
09-03		1524.295	Coupling flange Motor 9C Ø65	1	X	X	X	X	X	X	X	X
09-03		1524.503	Coupling flange Motor 10C Ø65	1	X	X	X	X	X	X	X	X
09-03		1524.296	Coupling flange Motor 10C Ø70	1	X	X	X	X	X	X	X	X
09-03		1524.298	Coupling flange Motor 11C Ø80	1					X	X	X	X

g) Motor and compressor bore respectively.

1.14 Alignment tool for coupling

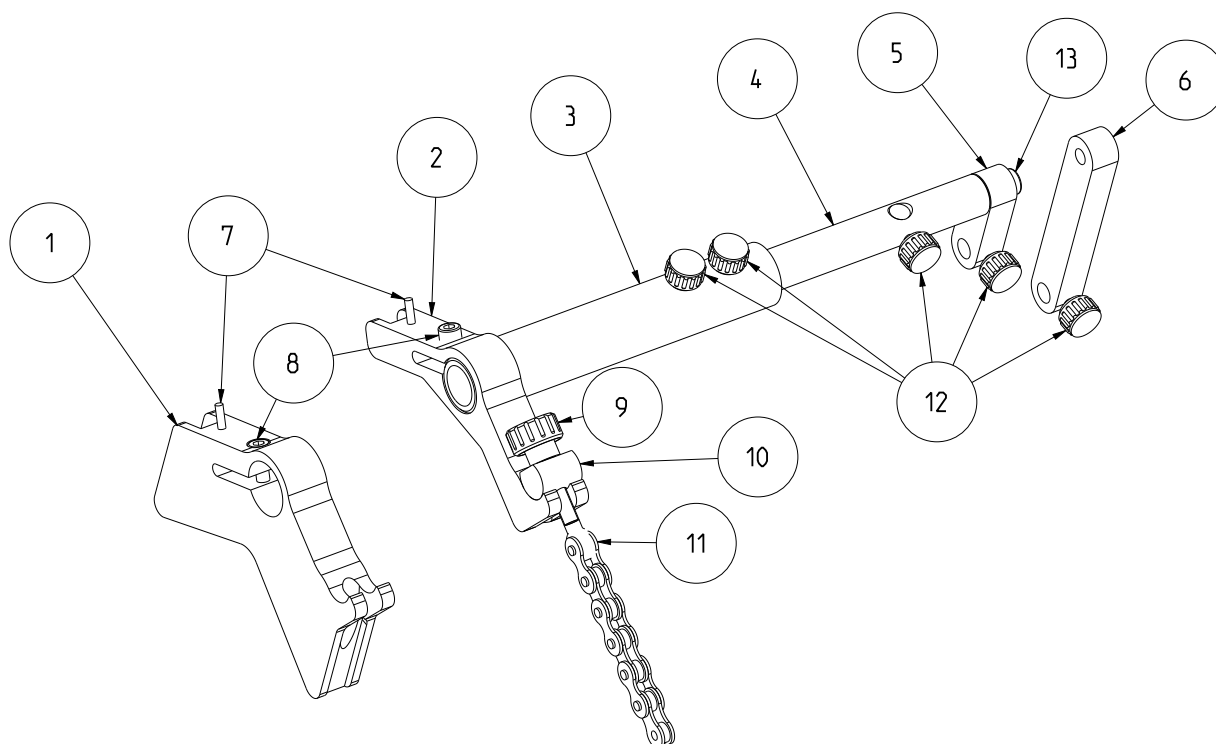


Fig. 10

Pos. no.	Designation	Part no.		CMO	HPO	SMC	HPC	HPX	SAB	SAB Flex
	Alignment tool for coupling	3183.162	1							
1	Mounting block high for 3183.162	3183.168		X	X	X	X	X	X	X
2	Mounting block low for 3183.162	3183.167		X	X	X	X	X	X	X
3	Guide for holder L=140 mm	3183.166		X	X	X	X	X	X	X
4	Cantilever arm Ø16x180mm	3183.163		X	X	X	X	X	X	X
5	Arm for dial gauge short	3183.169		X	X	X	X	X	X	X
6	Arm for dial gauge long	3183.170		X	X	X	X	X	X	X
7	Pin dowel 3x20mm ISO 8734A/ DIN 6325 hardened	1446.052		X	X	X	X	X	X	X
8	Socket Head Cap Screw M5x20	1413.332		X	X	X	X	X	X	X
9	Knurled nut DIN 466 - M6	1435.003		X	X	X	X	X	X	X
10	Crossbar for dial gauge holder	3183.164		X	X	X	X	X	X	X
11	Chain with chain tightener for 3183.162	3183.165		X	X	X	X	X	X	X
12	Knurled grip knob M4x6	1435.004		X	X	X	X	X	X	X
13	Socket Head Cap Screw M6x16 12.9	1413.340		X	X	X	X	X	X	X
	Dial Gauge 1044SB	1622.004		X	X	X	X	X	X	X
	Extension rod 10mm	1622.005		X	X	X	X	X	X	X
	Extension rod 25mm	1622.006		X	X	X	X	X	X	X

1.15 Liquid injection

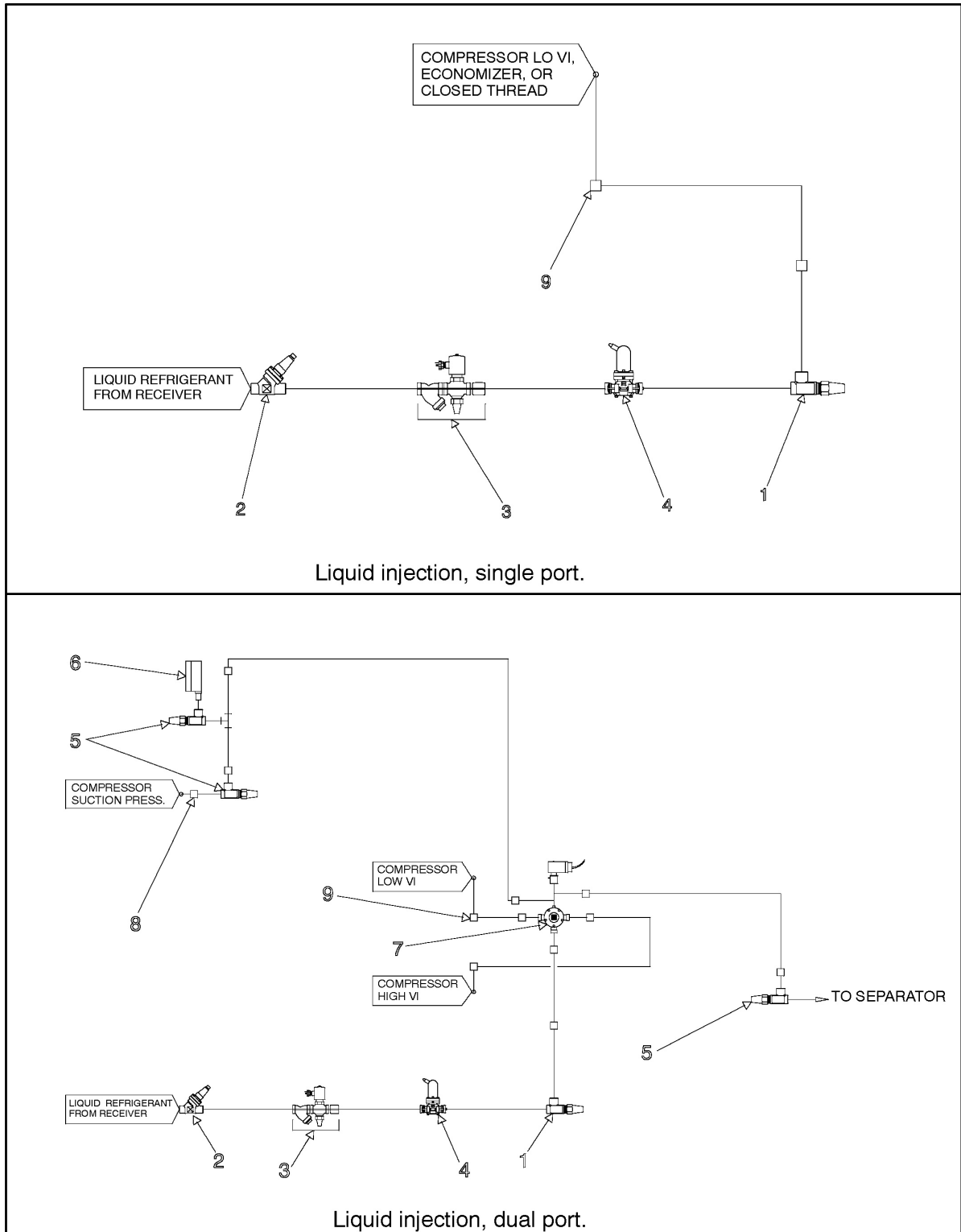


Fig. 11

Liquid injection

Fig-Index	P&I Ref.	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
11-		3449.K08	Assembly, liquid injection cooling	1	X	X	X	X				
11-		3449.K09	Assembly, liquid injection cooling	1					X	X		
11-		3449.K10	Assembly, liquid injection cooling	1							X	X
11-01	P170	1361.189	Stop valve, Ang., Sc., SVA-S 20 D (J) (q)(t)	1	X	X	X	X	X	X	X	X
11-01	P170	1361.190	Stop valve, Ang., Sc., SVA-S 25 D (J) (r)(t)	1	X	X	X	X	X	X	X	X
11-01	P170	1361.191	Stop valve, Ang., Sc., SVA-S 32 D (J) (s)(t)	1	X	X	X	X	X	X	X	X
11-01	P170	1361.203	Stop valve, Str., Sc., SVA-S 20 D (J) (q)(u)	1	X	X	X	X	X	X	X	X
11-01	P170	1361.204	Stop valve, Str., Sc., SVA-S 25 D (J) (r)(u)	1	X	X	X	X	X	X	X	X
11-01	P170	1361.205	Stop valve, Str., Sc., SVA-S 32 D (J) (r)(u)	1	X	X	X	X	X	X	X	X
11-02	P165	1361.202	Stop valve, Str., Sc., SVA-S 15 D (J) (p)	1	X	X	X	X	X	X	X	X
11-02	P165	1361.203	Stop valve, Str., Sc., SVA-S 20 D (J) (q)	1	X	X	X	X	X	X	X	X
11-02	P165	1361.204	Stop valve, Str., Sc., SVA-S 25 D (J) (r)	1	X	X	X	X	X	X	X	X
11-02	P165	1361.206	Stop valve, Str., Sc., SVA-S 40 D (J) (s)	1	X	X	X	X	X	X	X	X
11-03		1377.262	Gasket (set of 2), ring ø32/22 x 1.0 (p)	2	X	X	X	X	X	X	X	X
11-03		1336.029	Gasket (set of 2), ring ø39/29 x 1.5 (r)	2	X	X	X	X	X	X	X	X
11-03	YY-7 / P167	1372.395	Solenoid valve EVRAT 10 (excl. coil) (o)	1	X	X	X	X	X	X	X	X
11-03	YY-7 / P167	1372.347	Solenoid valve EVRA 15 (excl. coil) (p)	1	X	X	X	X	X	X	X	X
11-03	YY-7 / P167	1372.348	Solenoid valve EVRA 20 (excl. coil) (q)	1	X	X	X	X	X	X	X	X
11-03	YY-7 / P167	1372.349	Solenoid valve EVRA 25 (excl. coil) (r)	1	X	X	X	X	X	X	X	X
11-03	YY-7 / P167	1372.039	Solenoid valve EVRA 32 (excl. coil) (s)	1	X	X	X	X	X	X	X	X
11-03	YY-7 / P167	1372.538	Coil 10W 110V 50/60Hz	1	X	X	X	X	X	X	X	X
11-03	YY-7 / P167	1372.537	Coil 10W 220/230V 50/60Hz	1	X	X	X	X	X	X	X	X
11-03	STR-3 / P166	1375.174	Strainer, Str., FA 15 (p)	1	X	X	X	X	X	X	X	X
11-03		1377.250	Repair kit (strainer and gasket), FA 15	1	X	X	X	X	X	X	X	X
11-03		1377.078	Seal kit (f. cover and flange), FA 15	1	X	X	X	X	X	X	X	X
11-03	STR-3 / P166	1375.173	Strainer, Str., FA 20 (q)	1	X	X	X	X	X	X	X	X
11-03		1377.251	Repair kit (strainer and gasket), FA 20	1	X	X	X	X	X	X	X	X

Fig-Index	P&I Ref.	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
11-03		1377.079	Seal kit (f. cover and flange), FA 20	1	X	X	X	X	X	X	X	X
11-03	STR-3 / P166	1375.186	Strainer (body), Str., FIA 25 D (r)	1	X	X	X	X	X	X	X	X
11-03	STR-3 / P166	1375.190	Strainer (body), Str., FIA 40 D (s)	1	X	X	X	X	X	X	X	X
11-03	P166	1375.082	Element 100 my for FIA 25-40	1	X	X	X	X	X	X	X	X
11-03	FG-1 / P168	1377.263	Sight glass SGT 15 TG (p)	1	X	X	X	X	X	X	X	X
11-03	FG-1 / P168	1377.268	Sight glass SGT 24 TG (r)	1	X	X	X	X	X	X	X	X
11-03	FG-1 / P168	2511.022	Sight glass MLI 40 D (s)	1	X	X	X	X	X	X	X	X
11-04	TCV-1 / P169	1379.064	Actuator ICAD 600 for motor valve	1	X	X	X	X	X	X	X	X
11-04	TCV-1 / P169	954A0070H01EU	Motorvalve ICM 20-A (excl. actuator)	1	X	X	X	X	X	X	X	X
11-04	TCV-1 / P169	954A0070H02EU	Motorvalve ICM 20-B (excl. actuator)	1	X	X	X	X	X	X	X	X
11-04	TCV-1 / P169	954A0070H03EU	Motorvalve ICM 20-C (excl. actuator)	1	X	X	X	X	X	X	X	X
11-04	TCV-1 / P169	954A0071H01EU	Motorvalve ICM 25-A (excl. actuator)	1	X	X	X	X	X	X	X	X
11-04	TCV-1 / P169	954A0072H01EU	Motorvalve ICM 32-A (excl. actuator)	1	X	X	X	X	X	X	X	X
11-04		1377.447	Service kit, gaskets/O-rings f. ICM 20	1	X	X	X	X	X	X	X	X
11-04		1377.448	Service kit, gaskets/O-rings f. ICM 25	1	X	X	X	X	X	X	X	X
11-04		1377.449	Service kit, gaskets/O-rings f. ICM 32	1	X	X	X	X	X	X	X	X
11-04		1377.453	Manual magnet tool f. ICM 20-32	1	X	X	X	X	X	X	X	X
11-05	P172/175	SPEC	Application-specific or customized	3	X	X	X	X	X	X	X	X
11-06	PI	SPEC	Application-specific or customized	1	X	X	X	X	X	X	X	X
11-07	YY-9	951A0053H01	Solenoid 3-way valve PE (excl. coil)	1	X	X	X	X	X	X	X	X
11-07		951A0095H01	Coil 11W 120V 50/60Hz	1	X	X	X	X	X	X	X	X
11-07		951A0095H02	Coil 11W 240V 50/60Hz	1	X	X	X	X	X	X	X	X
11-08		SPEC	Application-specific or customized	1	X	X	X	X	X	X	X	X
11-09		SPEC	Application-specific or customized	1	X	X	X	X	X	X	X	X
J) Spare parts kits and sets for stop valve in fig.9												
o) If liquid injection flow max. 8.6 kg/min												
p) If liquid injection flow max. 15.6 kg/min												
q) If liquid injection flow max. 25.9 kg/min												
r) If liquid injection flow max. 57.6 kg/min												
s) If liquid injection flow max. 227 kg/min												
t) If liquid injection, single flow												
u) If liquid injection, dual flow												

1.16 Economizer

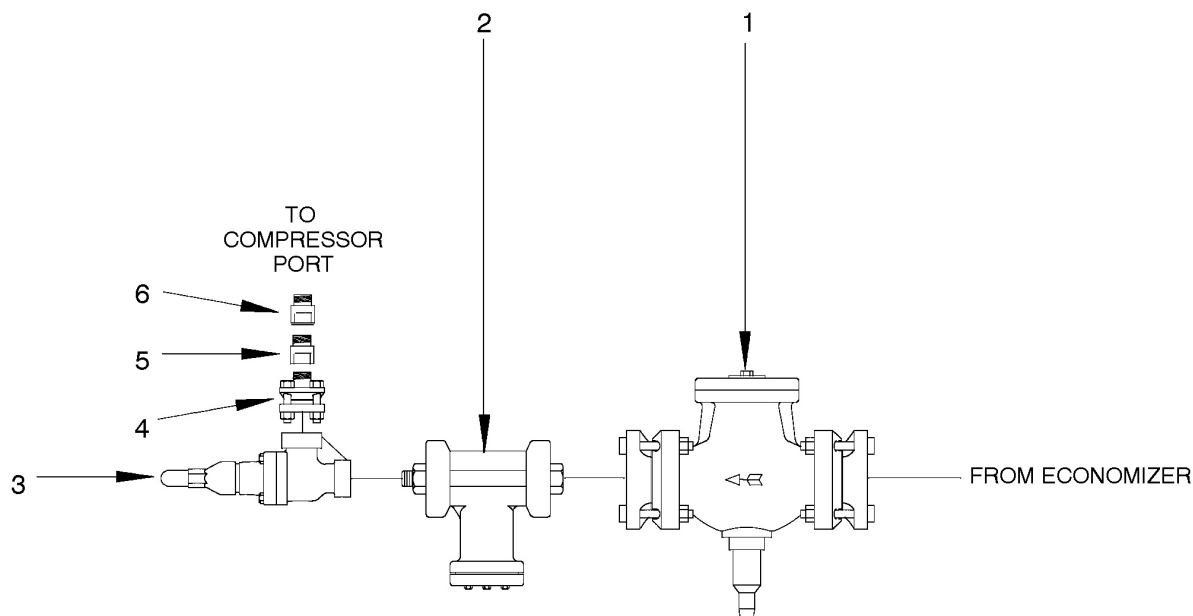


Fig. 12

Economizer

Fig-Index	P&I Ref.	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
12-		535B0056G02EU	Kit, Economizer connection system	1	X	X	X	X				
12-		535B0056G03EU	Kit, Economizer connection system	1					X	X		
12-		535B0056G04EU	Kit, Economizer connection system	1							X	X
12-01	CV-5/ P143	956A0025H28EU	Check valve, Str., 1-1/4", modified	1	X	X	X	X	X	X		
12-01	CV-5/ P143	956A0025H23EU	Check valve, Str., 1-1/2", modified	1							X	X
12-01		959A0057H04	Gasket OD=2-5/16"	2	X	X	X	X	X	X		
12-01		959A0057H05	Gasket OD=2-3/4"	2							X	X
12-02	STR-5/ P142	950A0001H05EU	Strainer 1-1/4", flange size 1-1/4"	1	X	X	X	X	X	X		
12-02	STR-5/ P142	950A0001H08EU	Strainer 2", flange size 1-1/2"	1							X	X
12-02		950A0001H24	Kit for 1-1/4" strainer (V)	1	X	X	X	X	X	X		
12-02		950A0001H27	Kit for 2" strainer (V)	1							X	X
12-02		950A0001H39	Screen gasket f. 1-1/4" strainer	1	X	X	X	X	X	X		
12-02		950A0001H40	Screen gasket f. 2" strainer	1							X	X
12-02		950A0001H33	Flange gasket f. 1-1/4" strainer	2	X	X	X	X	X	X		
12-02		950A0001H34	Flange gasket f. 1-1/2" and 2" strainer	2							X	X
12-03	P141	1361.191	Stop valve, Ang., Sc., SVA-S 32 D (J)	1	X	X	X	X	X	X		
12-03	P141	1361.192	Stop valve, Ang., Sc., SVA-S 40 D (J)	1							X	X
12-04		1349.296	Connector, butt weld ø46 - tube end ø42	1	X	X	X	X				
12-04		2334.031	Pipe reducer, DN 32 - ø42	1					X	X		
12-04		1356.028	Pipe reducer, DN 40 - DN 32	1							X	X

Fig- Index	P&I Ref.	Item number	Description	Qty.	SAB120S	SAB120M	SAB120L	SAB120E	SAB151S	SAB151M	SAB151L	SAB151E
12-05		1349.391	Swivel reducer, ø42 - ø35	1	X	X	X	X				
12-05		2334.031	Pipe reducer, DN 32 - ø42	1							X	X
12-06		1349.390	Connector, tube end ø35 - 1 7/8-12 UN	1	X	X	X	X				
12-06		1349.384	Connector, tube end ø42 - 1 7/8-12 UN	1					X	X	X	X
J) Spare parts kits and sets for stop valve in fig.9												
V) Consists of screen, spring and screen gasket												

1.17 Suction/discharge/service/stop valve

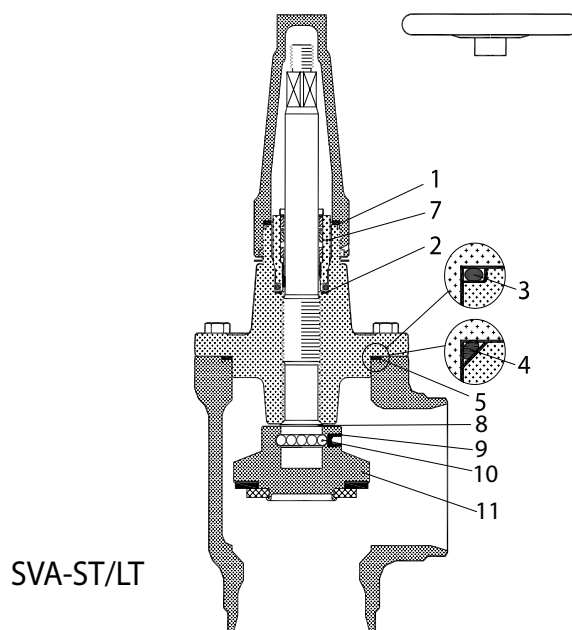


Fig. 13

Suction/discharge/service/stop valve

Fig - Index	Item number	Description	Qty.	Overhaul kit SVA-S/L, -ST/LT, -HS	Repair kit SVA-S/L, -ST/LT, -HS, SCA	Inspection kit SVA-S/L, -ST/LT, -HS, REG, FIA, CHV
13-	-	Suction/discharge/service stop valve (Contents of kits)	1	X	X	X
13-01	-	Packing washer for cap	(k)	X	X	X
13-02	-	Alu gasket for gland	(k)	X	X	X
13-03	-	O-ring (Top A)	(k)	X	X	X
13-04	-	O-ring (Top B)	(k)	X	X	X
13-05	-	Gasket (Top C)	(k)	X	X	X
13-06	-	O-ring for cone (SCA, CHV)	(k)		X	X
13-07	-	Packing Gland	(k)	X	X	
13-08	-	Soft back seat (SVA-ST80 and bigger)	(k)	X	X	
13-09	-	Set screter				
13-10	-	Ball	(k)	X		
13-11	-	Cone with seal	(k)	X		
k) Quantity as required for one valve in the actual kit						

1.18 Spare parts list for all suction/discharge/service/stop valves

Item Number		Description	Overhaul Kit (a)	Repair Kit (b)	Inspection, Kit (c)	Cap Kit (c)
SVA-S (52bar)	SVA-ST (40bar)	Stop valve, Type and size				
1364.531	1364.325	Reg. valve, Ang., Sc., REG 40 #10	2453.044	1377.249	N/A	1365.098
	1361.117	Stop valve, Ang., Sc., SNV-ST CD10	(e)	(e)		(e)
1361.188	1361.052	Stop valve, Ang., Sc., SVA 15	1377.2011	1377.2007	1377.2010	1365.096
1361.202	1361.078	Stop valve, Str., Sc., SVA 15	1377.2011	1377.2007	1377.2010	1365.096
1361.189	1361.053	Stop valve, Ang., Sc., SVA 20	1377.2011	1377.2007	1377.2010	1365.097
1361.203	1361.079	Stop valve, Str., Sc., SVA 20	1377.2011	1377.2007	1377.2010	1365.097
1361.190	1361.054	Stop valve, Ang., Sc., SVA 25	1377.418	1377.2008	1377.2012	1365.098
1361.204	1361.067	Stop valve, Str., Sc., SVA 25	1377.418	1377.2008	1377.2012	1365.098
1361.191	1361.055	Stop valve, Ang., Sc., SVA 32	1377.418	1377.2008	1377.2012	1365.098
1361.205	1361.064	Stop valve, Str., Sc., SVA 32	1377.418	1377.2008	1377.2012	1365.098
1361.192	1361.056	Stop valve, Ang., Sc., SVA 40	1377.418	1377.2008	1377.2012	1365.098
1361.206	1361.065	Stop valve, Str., Sc., SVA 40	1377.418	1377.2008	1377.2012	1365.098
1361.193	1361.057	Stop valve, Ang., Sc., SVA 50	1377.419	1377.2013	1377.472	1365.098
1361.207	1361.066	Stop valve, Str., Sc., SVA 50	1377.419	1377.2013	1377.472	1365.098
1361.194	1361.063	Stop valve, Ang., Sc., SVA 65	1377.420	1377.2014	1377.466	1365.098
1361.208	1361.068	Stop valve, Str., Sc., SVA 65	1377.420	1377.2014	1377.466	1365.098
1361.195	1361.073	Stop valve, Ang., Sc., SVA 80	1377.421	1377.2015	1377.473	1365.099
1361.196	1361.074	Stop valve, Ang., Sc., SVA 100	1377.422	1377.483	1377.467	1365.099
1361.197	1361.075	Stop valve, Ang., Sc., SVA 125	1377.2004	1377.2005	1377.2013	1365.100
1361.198	1361.076	Stop valve, Ang., Sc., SVA 150	1377.2018	1377.2017	1377.2021	1365.100
1361.199	1361.077	Stop valve, Ang., Sc., SVA 200	1377.2020	1377.283	1377.2019	1365.101
N/A	1361.108	Stop valve, Ang., Sc., SVA-DH 250	N/A	1377.285	N/A	1365.115
N/A	1361.135	Stop valve, Ang., Sc., SVA-DH 300	N/A	1377.286	N/A	1365.115
a) Consists of: Cone complete including screw and steel balls, packing gland including gaskets and all other necessary gaskets (See liste 09).						
b) Consists of packing gland including gaskets and all other necessary gasket, see liste 09.						
c) Consists of all necessary gasket, see list 09.						
d) Consists of cap with gasket (Index 10/11).						
e) No spare parts available (tighten packing gland or replace all with a new valve).						

1.19 Discharge stop/check valve.

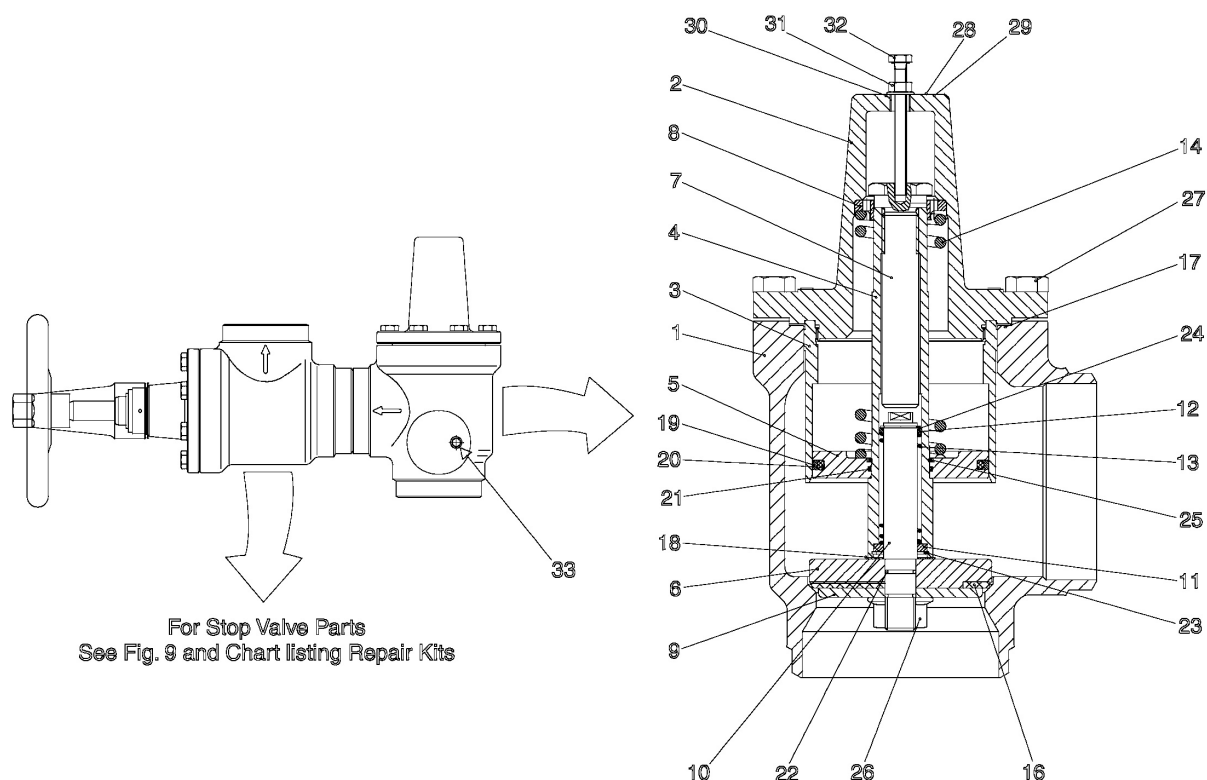


Fig. 14

Spare parts list for stop/check valve

Item number		Description	Bonnet gasket kit	Seal kit (e)	Spring kit 0.5 bar (f)	Spring kit 2 bar (f)
Type GVD	Type KDC					
1372.574	1372.601	Check valve, Ang., KDC/ GVD 80 (T)	1365.2018	1365.2012	N/A	956A0044H14
1372.589	1372.602	Check valve, Ang., KDC/ GVD 100 (T)	1365.2019	1365.2013	N/A	956A0045H14
1372.591	1372.603	Check valve, Ang., KDC/ GVD125 (T)	1365.2020	1365.2016	N/A	956A0046H14
1372.593	1372.604	Check valve, Ang., KDC/ GVD150 (T)	1365.2021	1365.2017	N/A	956A0047H14
1372.595	1372.605	Check valve, Ang., KDC/ GVD200 (T)	1356.2022	1365.2014	N/A	956A0048H14
1372.573	1372.606	Check valve, Ang., KDC/ GVD 80 (U)	1365.2018	1365.2012	956A0044H15	N/A
1372.575	1372.607	Check valve, Ang., KDC/ GVD100 (U)	1356.2019	1365.2013	956A0045H15	N/A
1372.577	1372.608	Check valve, Ang., KDC/ GVD125 (U)	1356.2020	1365.2016	956A0046H15	N/A
1372.579	1372.609	Check valve, Ang., KDC/ GVD150 (U)	1356.2021	1365.2017	956A0047H15	N/A

Item number		Description	Bonnet gasket kit	Seal kit (e)	Spring kit 0.5 bar (f)	Spring kit 2 bar (f)
Type GVD	Type KDC					
1372.581	1372.610	Check valve, Ang., KDC/ GVD200 (U)	1356.2022	1365.2014	956A0048H15	N/A
T) Only at high stage operating mode						
U) Only at booster operating mode						
e) Consists of gasket and various rings (Index 16-22)						
f) Consists of plate, rivet and spring (Index 14/28-29)						

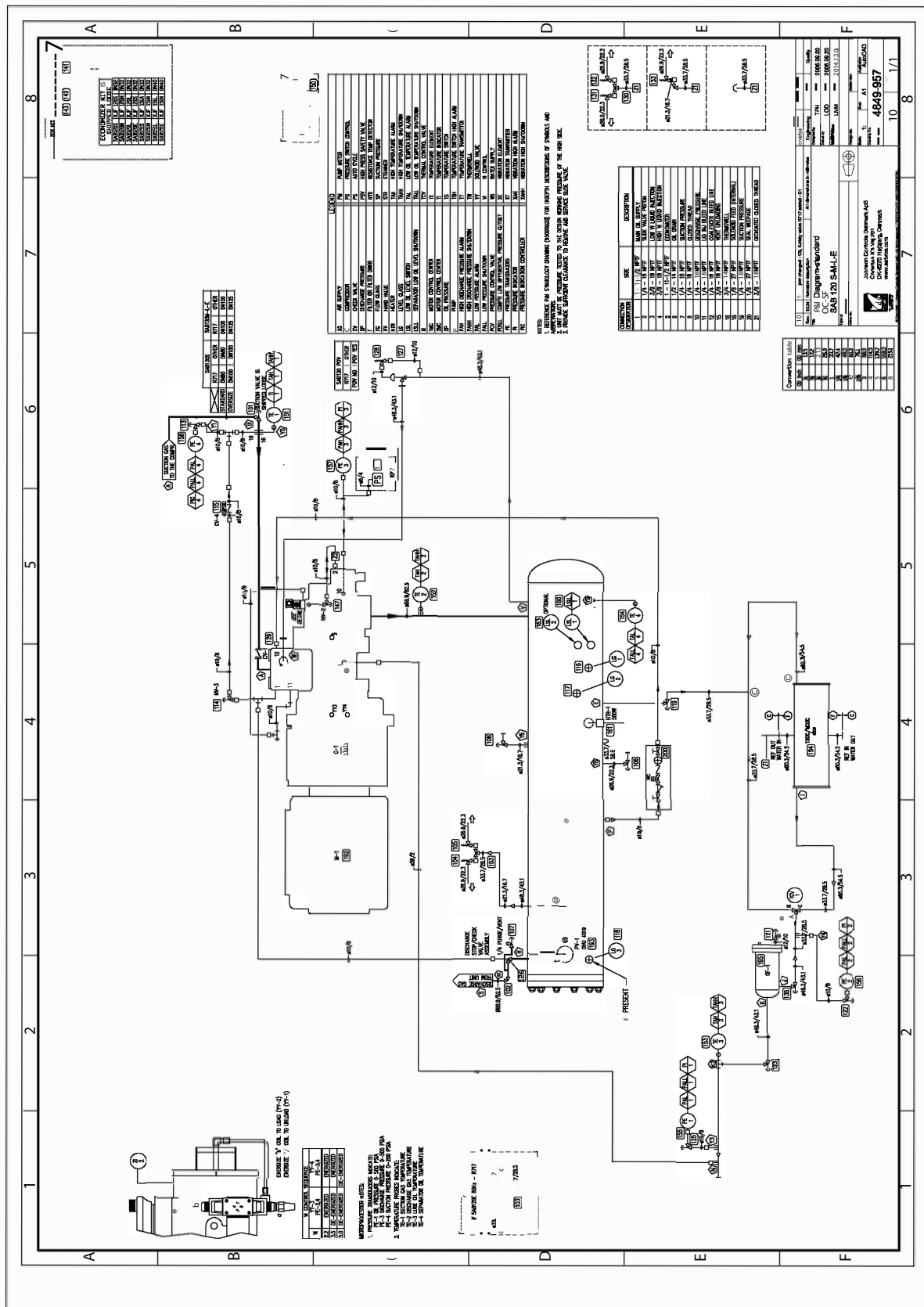
1.20 Piping and instrumentation, typical

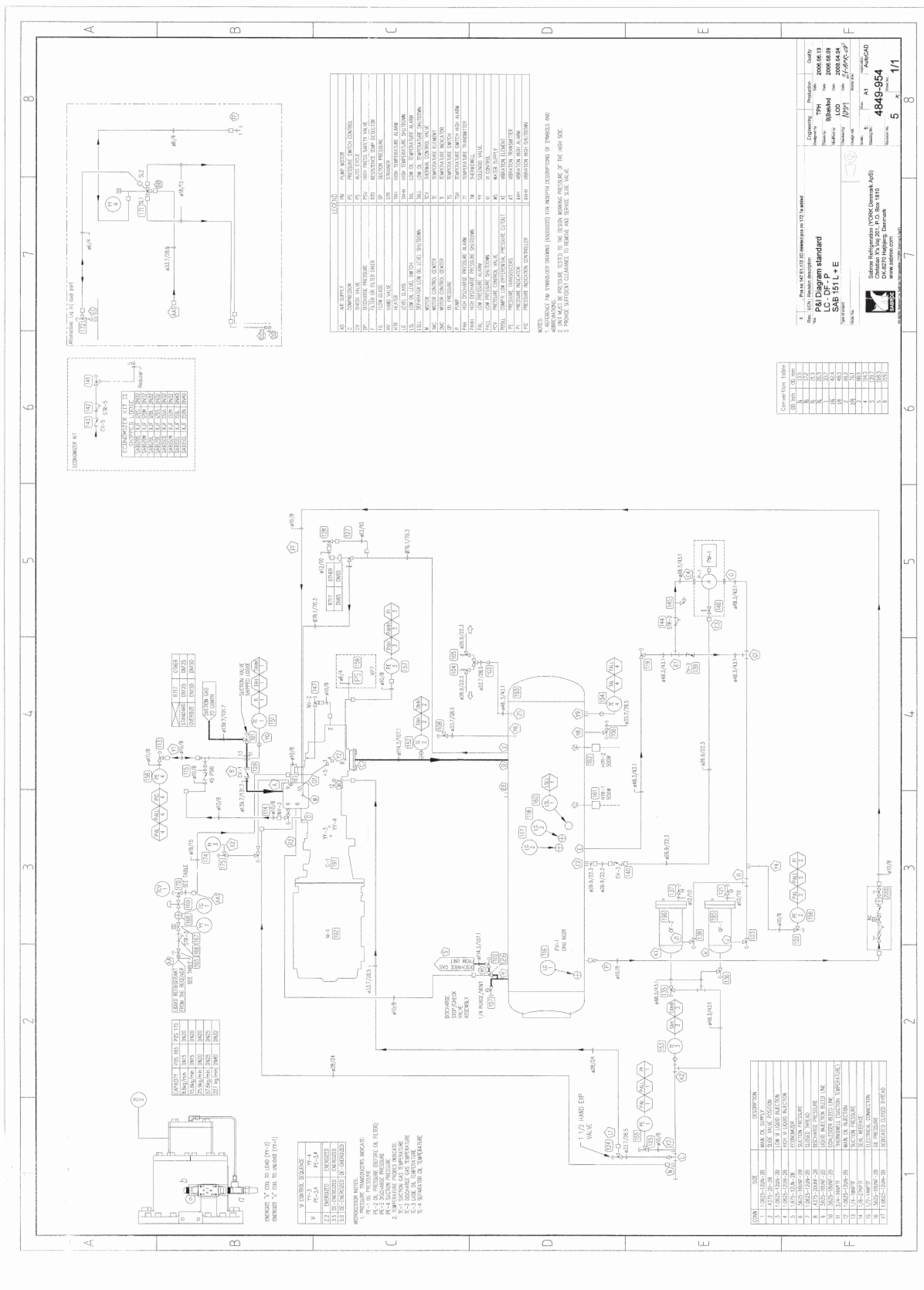
Showing single oil filter, oil pump and oil cooler

Pos. no.	Designation	In-operation position
101	Suction stop valve	Open
102	Stop valve after oil separator	Open
103	Change over valve	Open to safety valve, no. 1 or no. 2
104/PSV1	Safety relief valve	(Closed) Fixed set point
105/PSV1	Safety relief valve	(Closed) Fixed set point
106	Service valve for oil drainage	Closed
107	Purge valve	Closed
108	Service valve	"Pump out"/Closed
114	Stop valve, suction check valve by-pass	Open
115	Check valve	
116	Oil level indicators	
117	Oil level indicators	
119	Stop valve after oil separator	Open
120	Oil temperature regulating valve	Fixed set point
121	Service valve, oil filter	Closed
123	Stop valve before oil filter, Oil filter 1	Open when filter is in use
124	Regulating valve (oil flow)	Open (partly) Adjusted according to manual
126	Cold-start discharge valve	Opens automatically
127	Compressor protection valve	(Closed) Controlled by pilot valve
128	Pilot valve for pos. 127	(Closed) Fixed set point
129	Suction check valve	
130	Change over valve	
131	Safety valve oil cooler	
132	Safety valve oil cooler	
133	Safety valve oil cooler	
135	Stop valve before oil filter, Oil filter 1	Open when filter is in use
136	Stop valve before oil filter, Oil filter 2	Open when filter is in use
138	Stop valve before oil filter, Oil filter 2	Open when filter is in use
137	Service valve - oil filter	(Closed)
139	Non-return valve (check valve)	
140	Check valve	
	Economiser kit (optional)	
141	Stop valve	
142	Strainer	
142A	Damper with strainer	
143	Check valve	
144	Strainer before oil pump	
145	Service valve	Closed
146	Oil pump overflow valve	Closed. Fixed set point
151	Suction gas temperature	
152	Discharge gas temperature	
153	Lubricating oil temperature	

Pos. no.	Designation	In-operation position
154	Separator oil temperature	
155	Oil pressure after filter	
156	Oil pressure before filter	
157	Discharge pressure	
158	Suction pressure	
159	Pressure switch control	
160	Low level shutdown	
161	Heater	
163	High level indicator	
	Liquid injection - optional	
165	Liquid stop valve	Open
170	Stop valve	Open
172	Stop valve	Open
173	Stop valve	Open
175	Stop valve	Closed
181	Slide valve - unload	
182	Slide valve - load	
183	Moveable slide stop	
184	Moveable slide stop	
191	Compressor	
192	Electric motor	
193	Oil separator	
194	Oil cooler	
195	Oil filter	
196	Oil filter	
200	Stop valves - oil return	Open
200	Automatic oil return	

Table 1: Positions during operation





Showing double oil filter, oil pump and oil cooler.

Legend (Covers all P&I diagrams in this manual)			
C	Compressor	TSH	Temperature switch high alarm
CV	Check valve	TW	Thermowell
DP	Discharge pressure	VI	Vi control
FG	Flow glass	SB-2	Inlet bearing and balance piston
HV	Hand valve	SB-3	Discharge bearings and seal
HTR	Heater	SC-1	Slide valve - unload
LG	Level glass	SC-2	Slide valve - load
LSLL	Separator low oil level shutdown	SC-3	Moveable slide stop
M	Motor	SC-4	Moveable slide stop
1MC	Motor control centre	SC-5	Inlet pressure
2MC	Motor control centre	SC-6	Discharge pressure
NOS	No oil switch	SC-7	Seal weepage
OF	Oil filter	SC-8	Oil drain connection
OP	Oil pressure	SC-9	Inlet housing oil drain
P	Demand pump	SC-13	Oil drain cylinder
PAH	High discharge pressure alarm	SE-1	Electrical connection
PAHH	High discharge pressure shutdown	SE-2	Electrical connection
PAL	Low pressure alarm	SL-1	Liquid injection low Vi
PALL	Low pressure shutdown	SL-2	Liquid injection high Vi
PDAH	High pressure differential alarm	SM-1	Main oil injection
PDI	Pressure differential indicator	SV-1	Vapour injection tongue and groove
PDSLL	Compressor low diff. pressure cut-out	SD-1	Coalescer bleed str trh O-ring port
PE	Pressure transducer	TW-1	Thermowell
PI	Pressure indicator	Pressure transducers indicate:	
PIC	Pressure indicator controller	PE-1	Oil pressure (manifold)
PM	Pump motor	PE-2	Oil pressure before filter
PS	Pressure switch control	PE-3	Discharge pressure
PSV	High pressure safety valve	PE-4	Suction pressure
SP	Suction pressure	Temperature probes indicate:	
STR	Strainer	TE-1	Suction gas temperature
TAH	High temperature alarm	TE-2	Discharge gas temperature
TAHH	High temperature shutdown	TE-3	Lubricating oil temperature
TAL	Low oil temperature alarm	TE-4	Separator oil temperature
TALL	Low oil temperature shutdown	Solenoid valve function:	
TC	Temperature controller	YY-1	Energise unload slide valve
TCV	Thermal control valve	YY-2	Energise increase volume rate
TE	Temperature element	YY-3	Energise increase volume ratio
TI	Temperature indicator	YY-4	Energise decrease volume ratio
TS	Temperature switch	YY-5	Solenoid valve
		YY-9	Dual-port liquid injection solenoid

Note: The 3-digit numbers do not refer to the spare parts list. They refer to the legend in the Operating manual and the Engineering, Service and Maintenance manual.

1.21 Compressor ports locations

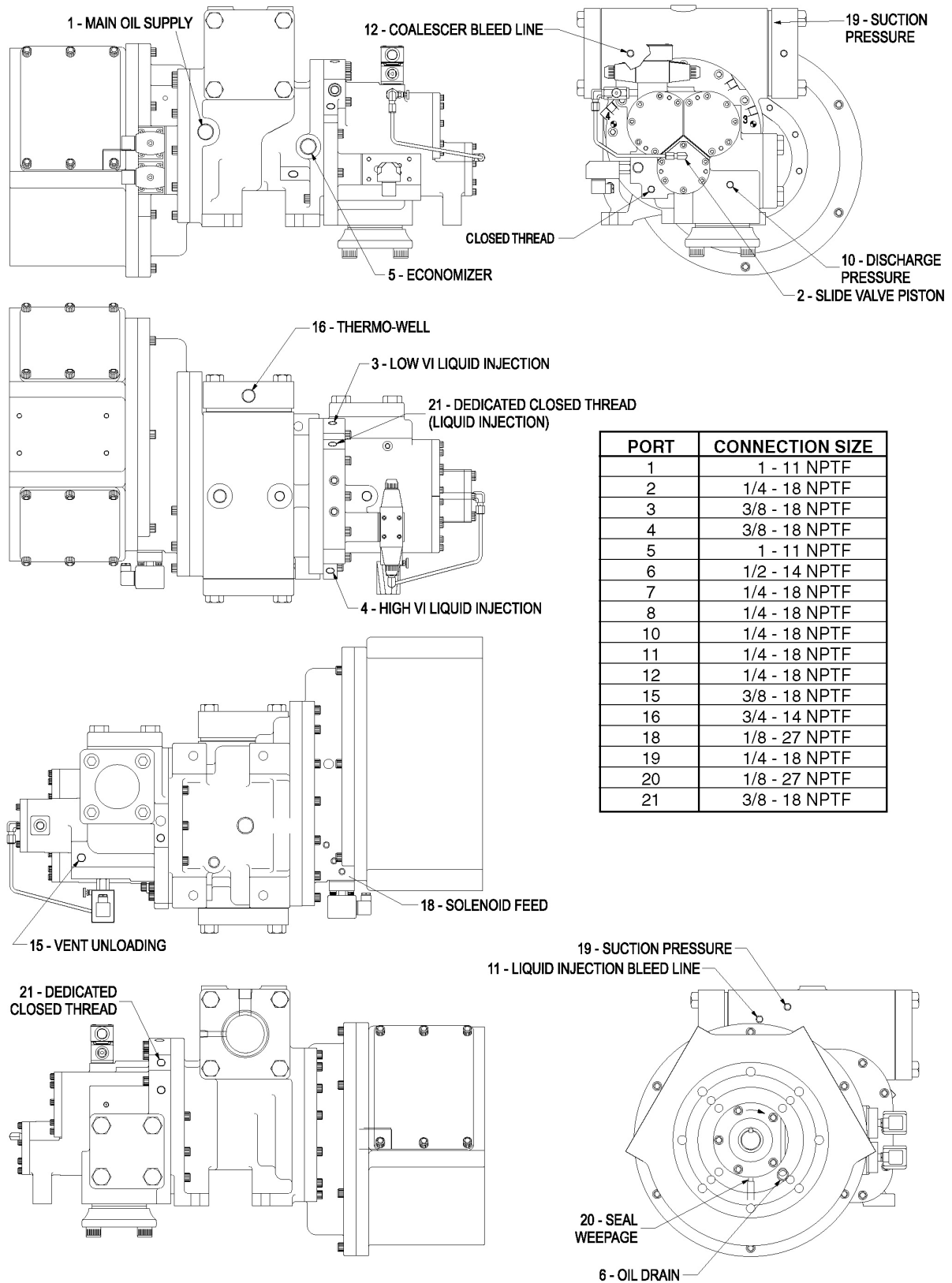


Fig. 15: RXF 24-50 (SAB 120 S/M/L/E)

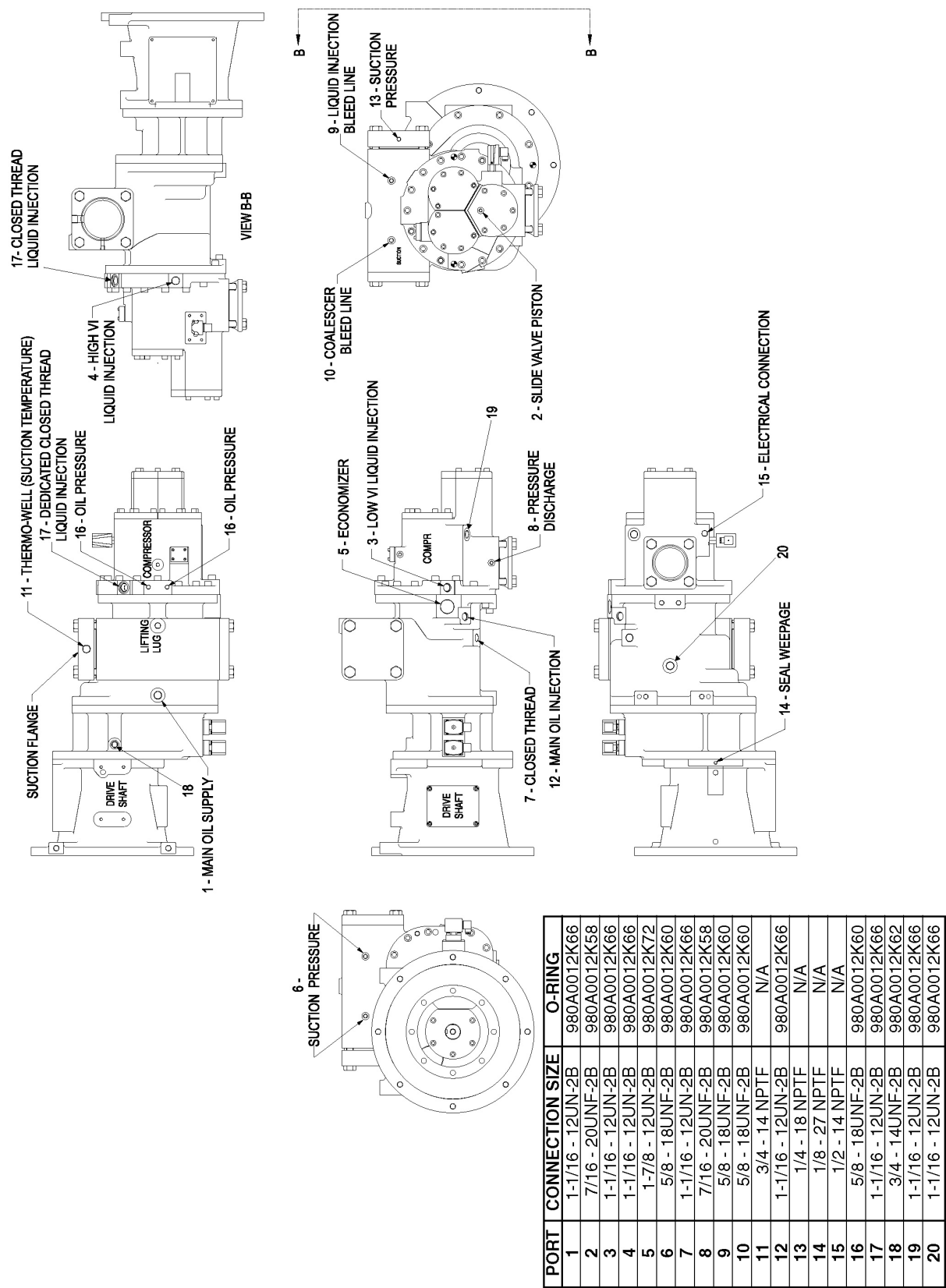


Fig. 16: RXF 58-101 (SAB 151 S/M/L/E)



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