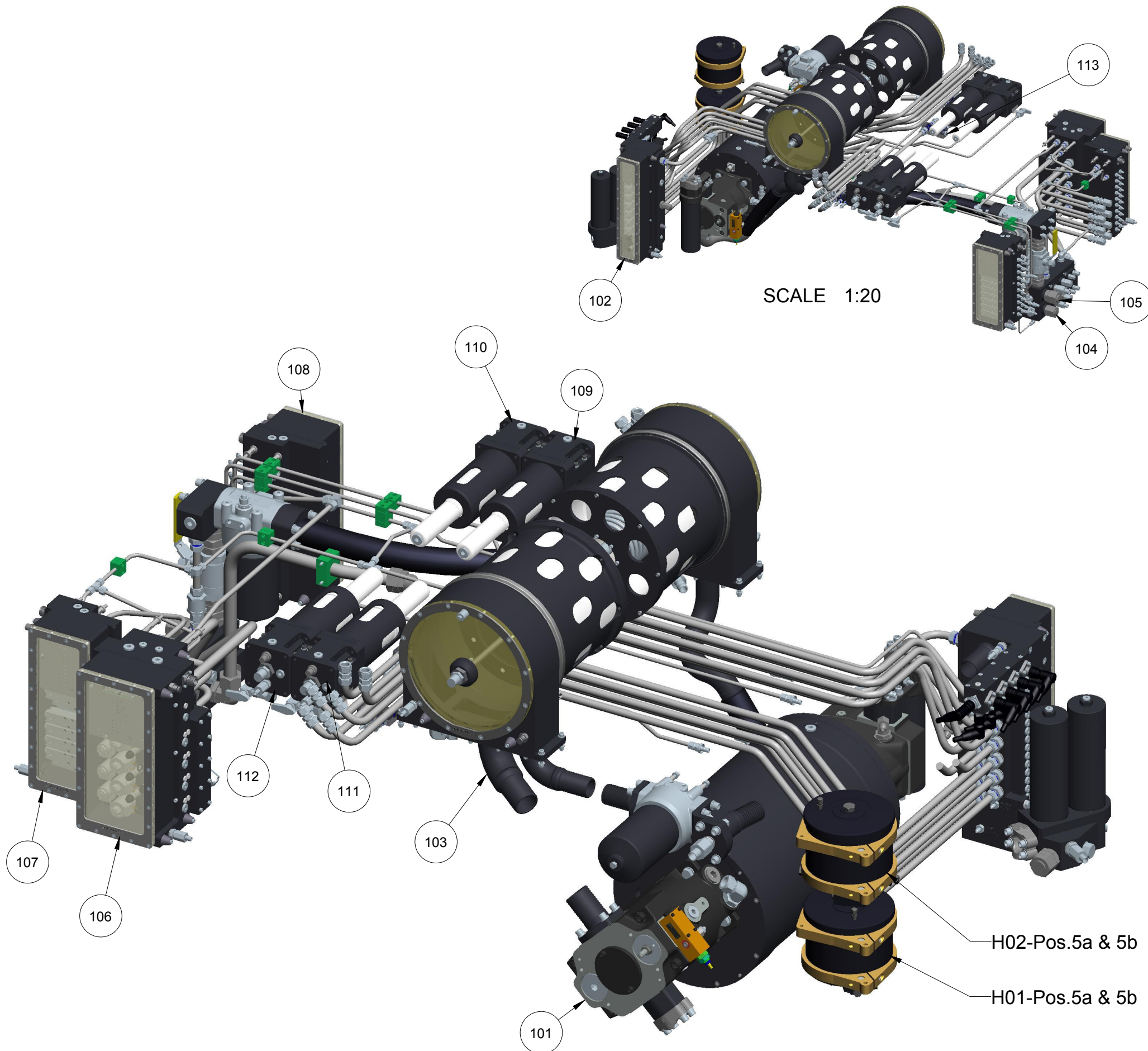



For Hydraulic filters
see Hydraulic diagram
Drawing no.: AF25-1000H01 / H02

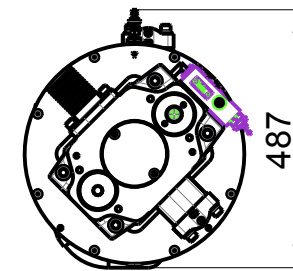
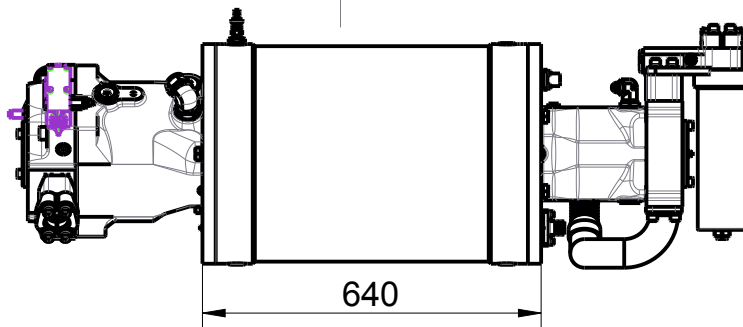
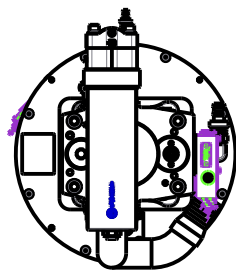
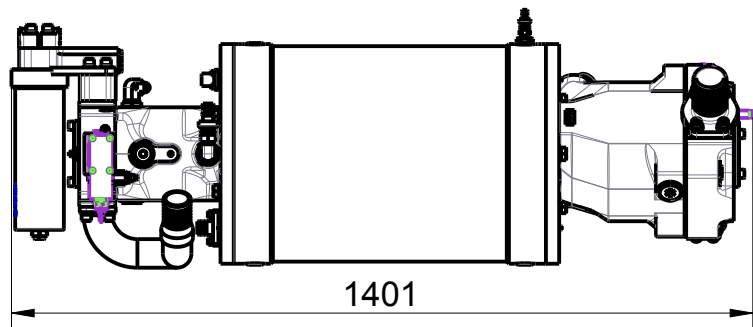


113	1	Thruster Case Drain System	Sheet 6
112	1	Electric Motor Comp. System	Sheet 6
111	1	Electric JB Comp. System	Sheet 6
110	1	Valve Pack Comp. System	Sheet 6
109	1	Shaft Seal Comp. System	Sheet 6
108	1	General Function Valve Pack, STB	AF25-1035M01-S
107	1	General Function Valve Pack, Port	AF25-1035M01-P
106	1	Auxilliary Control Unit	AF25-1034M01
105	1	Auxilliary Return System	Sheet 5
104	1	Auxilliary Supply System	Sheet 4
103	1	Main Return System	Sheet 3
102	1	Thruster Control Unit	AF25-1033M01
101	1	HPU Assembly	Sheet 2
Itm.	Qty.	Description	Drg. / Spec.

02	16.06.14	Upgrade to 220hp	GVI	EKB	EKB
01	23.04.13	AS BUILT	GVI	EKB	EKB
A	12.04.13	ISSUED FOR COMMENTS	GVI	EKB	EKB
Rev.	Date	Description	Prep	Chk	App

CONSTRUCTOR

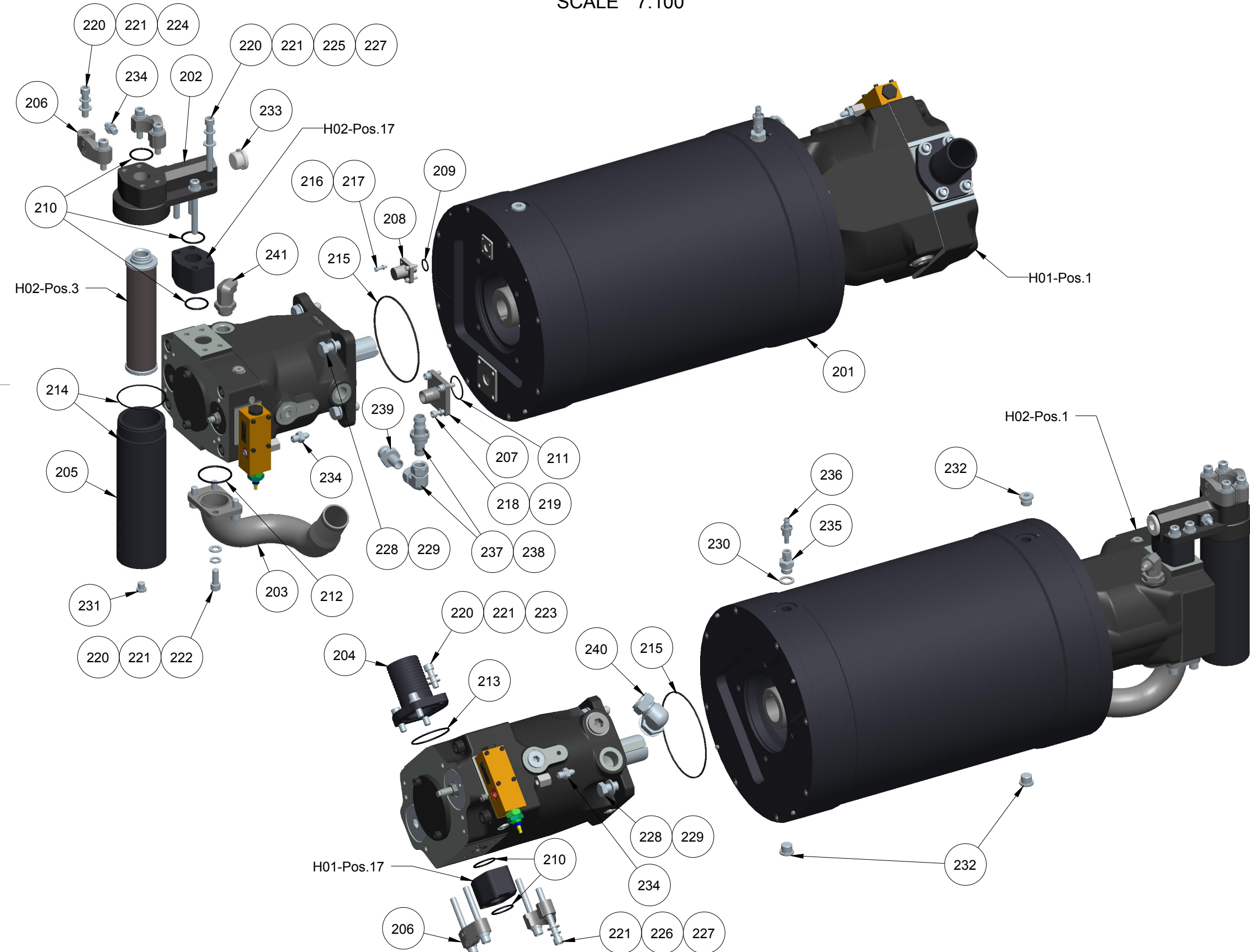
Drawing title		
Hydraulic System 220hp General Arrangement		
		Size A3
KYSTDESIGN AS Strandgaten 202, 5525 Haugesund, NORWAY Tel: +47 52 70 62 50 Fax: +47 52 70 62 01 www.kystdesign.no	Scale 1:10	Sheet 1
	File name AF25-1031M01	of 6



SCALE 7:100

For Hydraulic pumps, valves & filter
see Hydraulic diagram
Drawing no.: AF25-1000H01 / H02

241	1	Positioable Male Elbow	8-12C4OMXSS	SS
240	1	1" Tube Fitting Elbow	SS-1610-2-16PR	SS
239	1	3/4" Tube Fitting	SS-	SS
238	1	3/4" Tube Fitting Elbow	SS-1210-2-12PR	SS
237	1	3/4" Tube adapter	SS-PB12-TA12	SS
236	1	3/8" Tube adapter	SS-PB6-TA6	SS
235	1	3/8" Tube Fitting	SS-600-1-8RS	SS
234	3	1/4" Male Connector	4-4F42EDMXSS	SS
233	1	1" Blanking plug	VST11EDCF	SS
232	3	1/2" Blanking plug	VST11/2EDCF	SS
231	1	1/4" Blanking plug	VST11/4EDCF	SS
230	1	1/2" Bonded Seal		SS
229	8	Screw M16x45	DIN 933	A4
228	8	Washer M16	DIN 125	A4
227	8	Nut M12	DIN 934	A4
226	4	Threaded bar M12x115		A4
225	4	Threaded bar M12x105		A4
224	4	Screw M12x50	DIN 912	A4
223	4	Screw M12x35	DIN 912	A4
222	4	Screw M12x30	DIN 912	A4
221	16	Lock Washer M12	DIN 127B	A4
220	12	Washer M12	DIN 125	A4
219	4	Screw M8x25	DIN 912	A4
218	4	Lock Washer M8	DIN 127B	A4
217	4	Screw M5x20	DIN 912	A4
216	4	Lock Washer M5	DIN 127B	A4
215	2	O-ring 162x3.5	100709	NBR 70
214	2	O-ring 75.87x2.62	101154	NBR 90
213	1	O-ring 69.44x3.53	100689	NBR 90
212	1	O-ring 56.75x3.53	100646	NBR 90
211	1	O-ring 40.95x2.62	100783	NBR 70
210	5	O-ring 37.69x3.53	100688	NBR 90
209	1	O-ring 18.72x2.62	100779	NBR 70
208	1	Connector, Seacon	5506-1504	SS
207	1	Nozzle for 1" hose	AC89-1061M16	AISI 316
206	4	Split Flange, 1-1/4"SAE6000 PSI	FHS65-12SS	SS
205	1	Filter Housing	AF25-1038M11	Aluminium
204	1	2-1/2" SAE Hose Adapter	AD16-1031M90	Aluminium
203	1	2" Hose adapter, Aux. pump	AF25-1031M81	AISI 316L
202	1	HP Filter, Single Manifold	AF25-1038M21	AISI 316L
201	1	Electric Motor, 160kW	250M04-42-60-160-01	
ltn.	Qty.	Description	Drg. / Spec.	Material

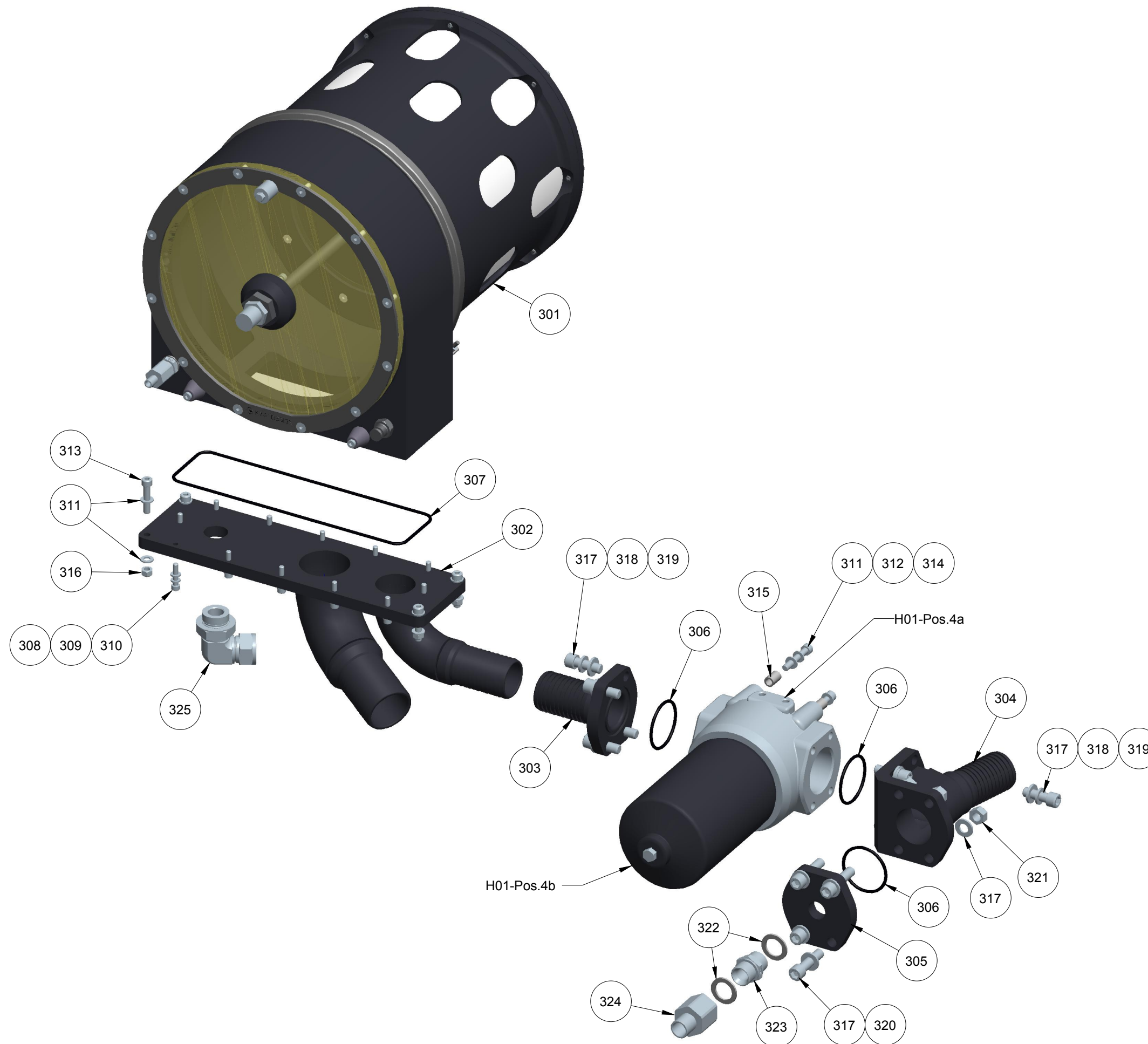


02	16.06.14	Upgrade to 220hp	GVI	EKB	EKB
01	23.04.13	AS BUILT	GVI	EKB	EKB
A	12.04.13	ISSUED FOR COMMENTS	GVI	EKB	EKB
Rev.	Date	Description	Prep	Chk	App

CONSTRUCTOR

Drawing title		
Hydraulic System 220hp		
General Arrangement		
HPU Assembly		
KYSTDESIGN AS	Scale	Sheet
Strandgaten 202, 5525 Haugesund, NORWAY	13:100	2
Tel: +47 52 70 62 50	File name	of
Fax: +47 52 70 62 01	AF25-1031M01	6
www.kystdesign.no		


For Hydraulic filter
see Hydraulic diagram
Drawing no.: AF25-1000H01



325	1	1" Tube Fitting Elbow	SS-1610-2-16PR	SS
324	1	3/4" BSP Nipple	SVHN-12-12RP	SS
323	1	3/4" Male/Male Adaptor	12HMK4SS	SS
322	2	3/4" Bonded Seal		SS
321	4	Lock Nut M12	DIN 985	A4
320	4	Screw M12x50	DIN 912	A4
319	8	Screw M12x35	DIN 912	A4
318	8	Lock Washer M12	DIN 127B	A4
317	16	Washer M12	DIN 125	A4
316	4	Lock Nut M8	DIN 985	A4
315	4	Distance Tbe \varnothing 12.7, L=19		AISI 316
314	4	Screw M8x50	DIN 912	A4
313	4	Screw M8x40	DIN 912	A4
312	4	Lock Washer M8	DIN 127B	A4
311	8	Washer M8	DIN 125	A4
310	12	Screw M6x30	DIN 912	A4
309	12	Lock Washer M6	DIN 127B	A4
308	12	Washer M6	DIN 125	A4
307	1	O-ring 247.24x3.53	100188	NBR 70
306	3	O-ring 56.74x3.53	100646	NBR 90
305	1	2" SAE - 3/4" BSPP Adapter	AF25-1032M51	Aluminium
304	1	Return Filter Manifold	AF25-1032M50	Aluminium
303	1	2" SAE Flange - Hose Adapter	AD16-1031M91	Aluminium
302	1	Main Reservoir Manifold	AF25-1032M70	Aluminium
301	1	16 Litre Compensator, ROV Version	AB25-4000M01	
ltn.	Qty.	Description	Drg. / Spec.	Material

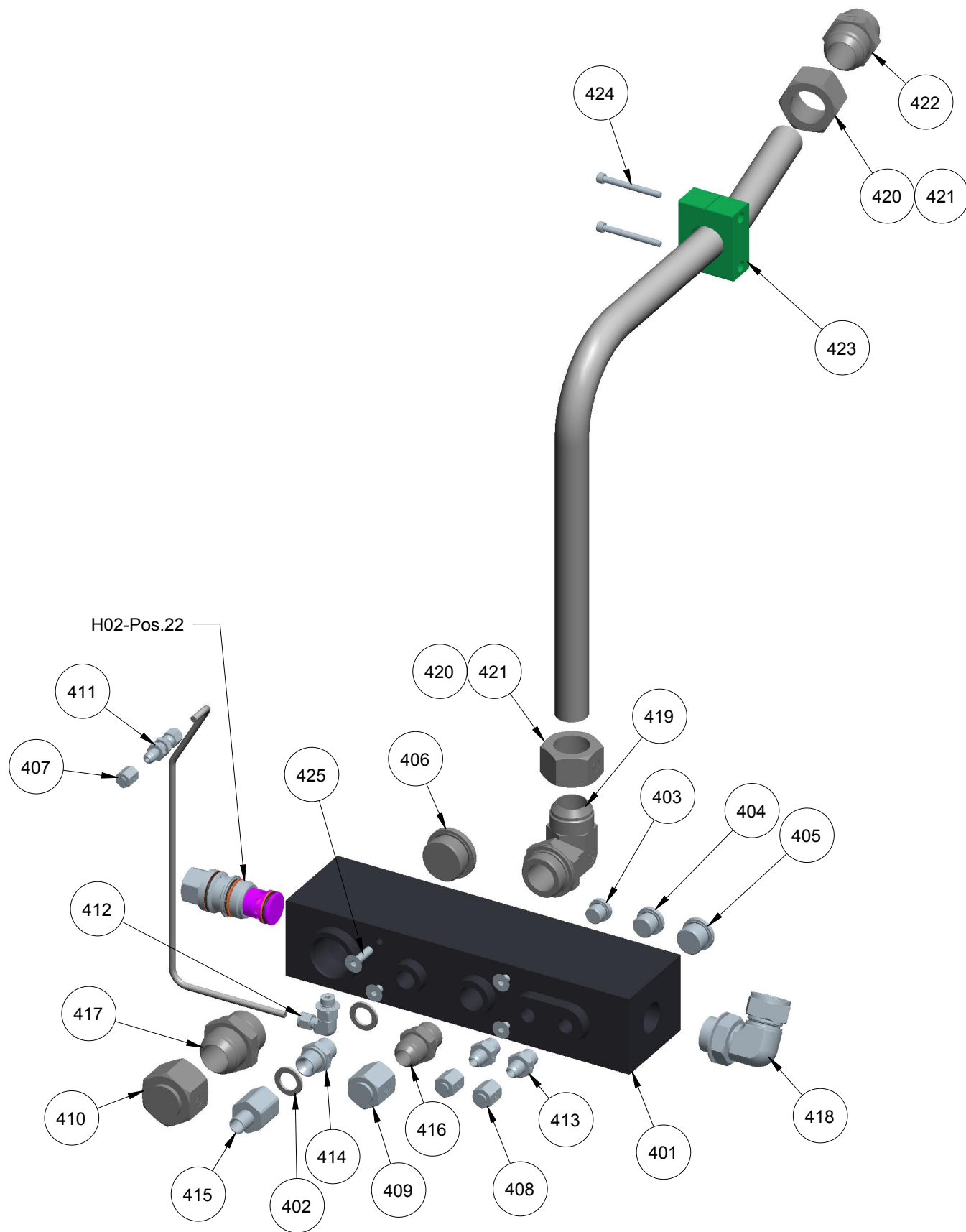
02	16.06.14	Upgrade to 220hp	GVI	EKB	EKB
01	23.04.13	AS BUILT	GVI	EKB	EKB
A	12.04.13	ISSUED FOR COMMENTS	GVI	EKB	EKB
Rev.	Date	Description	Prep	Chk	App

CONSTRUCTOR

Drawing title Hydraulic System 220hp General Arrangement Main Return System		
		Size A3
KYST DESIGN AS Strandgaten 202, 5525 Haugesund, NORWAY Tel: +47 52 70 62 50 Fax: +47 52 70 62 01 www.kystdesign.no		Scale 1:25 File name AF25-1031M01
		Sheet 3 of 6

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


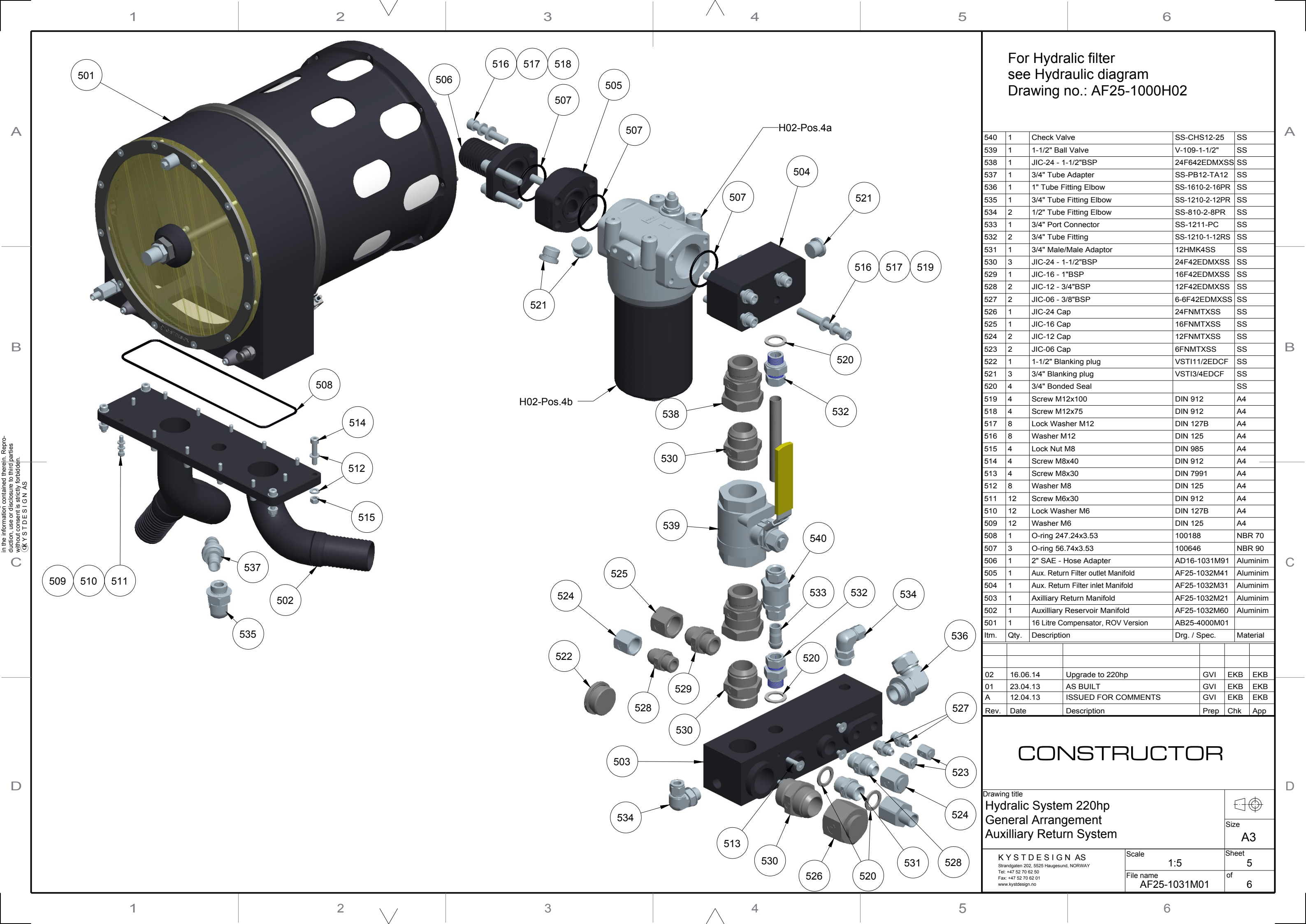
For Hydraulic valve
see Hydraulic diagram
Drawing no.: AF25-1000H02

425	4	Screw M8x30	DIN 7991	A4
424	2	Screw M6x65	DIN 912	A4
423	1	Hose Clamp, Parker	RAP 532	
422	1	JIC-20 Male/Male	20HMTSS	SS
421	2	1-1/4" Sleewe	20TXSS	SS
420	2	JIC-20 Tube Nut	20BTXSS	SS
419	1	Positionable Male Elbow	20C4OMXSS	SS
418	1	1" Tube Fitting Elbow	SS-1610-2-16PR	SS
417	1	JIC-20 - 1-1/4"BSP	20F42EDMXSS	SS
416	1	JIC-12 - 3/4"BSP	12F42EDMXSS	SS
415	1	1/2" BSP Nipple	SVHN-8-8RP	SS
414	1	1/2" Male/Male Adaptor	8HMK4SS	SS
413	2	JIC-06 - 3/8"BSP	6-6F42EDMXSS	SS
412	1	1/4" Tube Fitting Elbow	SS-400-2-4PR	SS
411	1	1/4" Bulkhead Fiting	SS-400-61-4AN	SS
410	1	JIC-20 Cap	20FNMTXSS	SS
409	1	JIC-12 Cap	12FNMTXSS	SS
408	2	JIC-06 Cap	6FNMTXSS	SS
407	1	JIC-04 Cap	4FNMTXSS	SS
406	1	1-1/4" Blanking plug	VSTI11/4EDCF	SS
405	1	3/4" Blanking plug	VSTI3/4EDCF	SS
404	1	1/2" Blanking plug	VSTI1/2EDCF	SS
403	1	3/8" Blanking plug	VSTI3/8EDCF	SS
402	2	1/2" Bonded Seal		SS
401	1	Auxilliary Supply Manifold	AF25-1032M11	Aluminium
Itm.	Qty.	Description	Drg. / Spec.	Material

02	16.06.14	Upgrade to 220hp	GVI	EKB	EKB
01	23.04.13	AS BUILT	GVI	EKB	EKB
A	12.04.13	ISSUED FOR COMMENTS	GVI	EKB	EKB
Rev.	Date	Description	Prep	Chk	App

CONSTRUCTOR

Drawing title		
Hydraulic System 220hp General Arrangement Auxilliary Supply System		
		Size A3
KYSTDESIGN AS Strandgaten 202, 5525 Haugesund, NORWAY Tel: +47 52 70 62 50 Fax: +47 52 70 62 01 www.kystdesign.no	Scale 1:5	Sheet 4
	File name AF25-1031M01	of 6




For Hydraulic filter
see Hydraulic diagram
Drawing no.: AF25-1000H02

540	1	Check Valve	SS-CHS12-25	SS
539	1	1-1/2" Ball Valve	V-109-1-1/2"	SS
538	1	JIC-24 - 1-1/2"BSP	24F642EDMXSS	SS
537	1	3/4" Tube Adapter	SS-PB12-TA12	SS
536	1	1" Tube Fitting Elbow	SS-1610-2-16PR	SS
535	1	3/4" Tube Fitting Elbow	SS-1210-2-12PR	SS
534	2	1/2" Tube Fitting Elbow	SS-810-2-8PR	SS
533	1	3/4" Port Connector	SS-1211-PC	SS
532	2	3/4" Tube Fitting	SS-1210-1-12RS	SS
531	1	3/4" Male/Male Adaptor	12HMK4SS	SS
530	3	JIC-24 - 1-1/2"BSP	24F42EDMXSS	SS
529	1	JIC-16 - 1"BSP	16F42EDMXSS	SS
528	2	JIC-12 - 3/4"BSP	12F42EDMXSS	SS
527	2	JIC-06 - 3/8"BSP	6-6F42EDMXSS	SS
526	1	JIC-24 Cap	24FNMTXSS	SS
525	1	JIC-16 Cap	16FNMTXSS	SS
524	2	JIC-12 Cap	12FNMTXSS	SS
523	2	JIC-06 Cap	6FNMTXSS	SS
522	1	1-1/2" Blanking plug	VSTI11/2EDCF	SS
521	3	3/4" Blanking plug	VSTI3/4EDCF	SS
520	4	3/4" Bonded Seal		SS
519	4	Screw M12x100	DIN 912	A4
518	4	Screw M12x75	DIN 912	A4
517	8	Lock Washer M12	DIN 127B	A4
516	8	Washer M12	DIN 125	A4
515	4	Lock Nut M8	DIN 985	A4
514	4	Screw M8x40	DIN 912	A4
513	4	Screw M8x30	DIN 7991	A4
512	8	Washer M8	DIN 125	A4
511	12	Screw M6x30	DIN 912	A4
510	12	Lock Washer M6	DIN 127B	A4
509	12	Washer M6	DIN 125	A4
508	1	O-ring 247.24x3.53	100188	NBR 70
507	3	O-ring 56.74x3.53	100646	NBR 90
506	1	2" SAE - Hose Adapter	AD16-1031M91	Aluminim
505	1	Aux. Return Filter outlet Manifold	AF25-1032M41	Aluminim
504	1	Aux. Return Filter inlet Manifold	AF25-1032M31	Aluminim
503	1	Axilliary Return Manifold	AF25-1032M21	Aluminim
502	1	Auxilliary Reservoir Manifold	AF25-1032M60	Aluminim
501	1	16 Litre Compensator, ROV Version	AB25-4000M01	
ltn.	Qty.	Description	Drg. / Spec.	Material

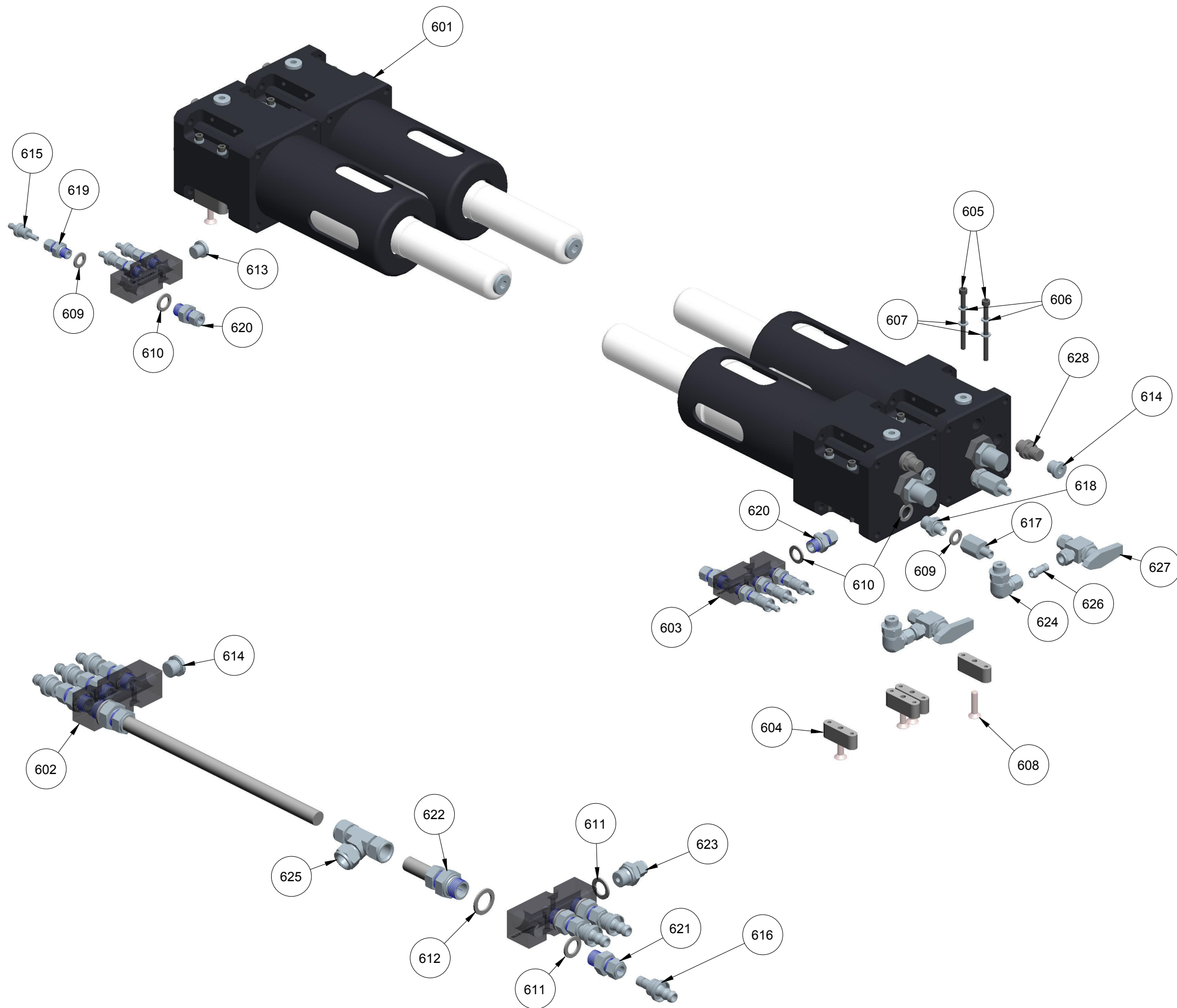
02	16.06.14	Upgrade to 220hp	GVI	EKB	EKB
01	23.04.13	AS BUILT	GVI	EKB	EKB
A	12.04.13	ISSUED FOR COMMENTS	GVI	EKB	EKB
Rev.	Date	Description	Prep	Chk	App

CONSTRUCTOR

Drawing title		
Hydraulic System 220hp General Arrangement Auxilliary Return System		
		Size A3
KYSTDESIGN AS Strandgaten 202, 5525 Haugesund, NORWAY Tel: +47 52 70 62 50 Fax: +47 52 70 62 01 www.kystdesign.no	Scale 1:5	Sheet 5
	File name AF25-1031M01	of 6

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628	4	Pressure Relief Valve 0.8 Bar	100199	SS
627	4	3/8" Ball Valve	SS-43GS6-A	SS
626	4	3/8" Port Connector	SS-601-PC	SS
625	1	3/4" Union Tee	SS-1210-3	SS
624	4	3/8" Tube Fitting Elbow	SS-600-2-6PR	SS
623	1	3/8" Tube Fitting	SS-600-1-8RS	SS
622	2	3/4" Tube Fitting	SS-1210-1-12RS	SS
621	6	1/2" Tube Fitting	SS-810-1-8RS	SS
620	3	3/8" Tube Fitting	SS-600-1-6RS	SS
619	6	1/4" Tube Fitting	SS-400-1-4RS	SS
618	4	Male/Male Adaptor 1/4"-3/8"	6-4HMK4SS	SS
617	4	1/4" BSP Nipple	SVHN-4-4RP	SS
616	6	1/2" Tube Adapter	SS-PB8-TA8	SS
615	6	1/4" Tube Adapter	SS-PB4-TA4	SS
614	1	1/2" Blanking plug	VST11/2EDCF	SS
613	9	3/8" Blanking plug	VST13/8EDCF	SS
612	2	3/4" Bonded Seal		SS
611	7	1/2" Bonded Seal		SS
610	7	3/8" Bonded Seal		SS
609	10	1/4" Bonded Seal		SS
608	8	Screw M8x25	DIN 7991	A4
607	16	Lock Washer M6	DIN 127B	A4
606	16	Washer M6	DIN 125	A4
605	16	Screw M6x80	DIN 912	A4
604	8	Interface plate for 1.2L Comp.	AF25-1013M11	Aluminium
603	2	Thruster shaft seal Manifold	AF25-1032M91	Aluminium
602	2	Thruster case drain Manifold	AF25-1032M81	Aluminium
601	4	Compensator 1.2 Litre	AB89-1037M01	POM
ltn.	Qty.	Description	Drg. / Spec.	Material

02	16.06.14	Upgrade to 220hp	GVI	EKB	EKB
01	23.04.13	AS BUILT	GVI	EKB	EKB
A	12.04.13	ISSUED FOR COMMENTS	GVI	EKB	EKB
Rev.	Date	Description	Prep	Chk	App

CONSTRUCTOR

Drawing title Hydraulic System 220hp General Arrangement 1.2 Litre Compensator System			Size A3	
KYST DESIGN AS Strandgaten 202, 5525 Haugesund, NORWAY Tel: +47 52 70 62 50 Fax: +47 52 70 62 01 www.kystdesign.no		Scale 1:5	Sheet 6	
		File name AF25-1031M01	of 6	