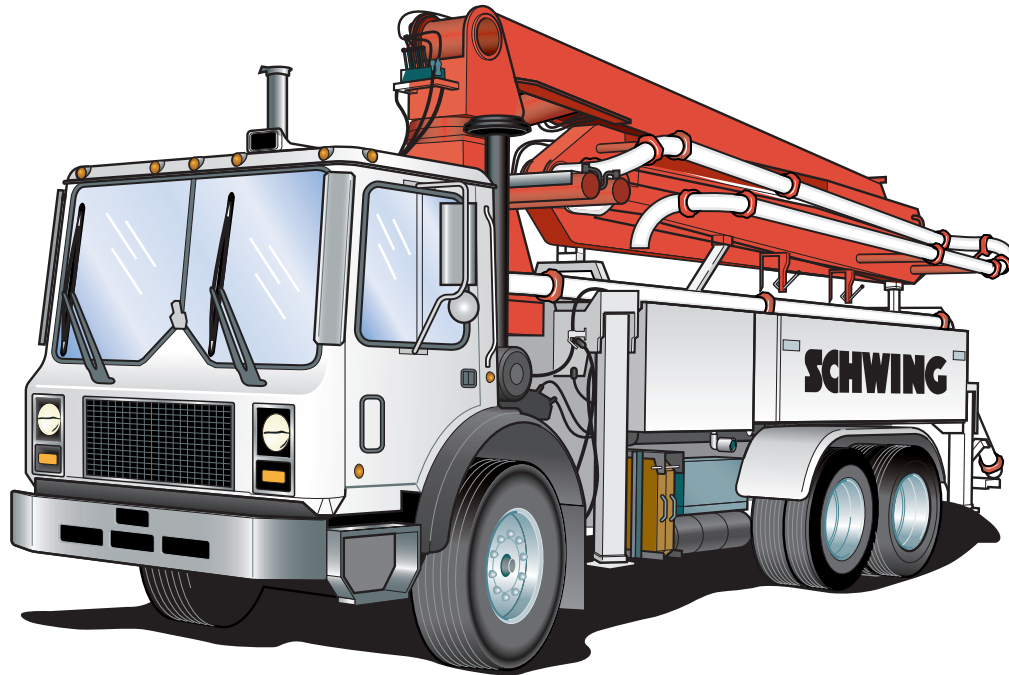




BOOM SCHEMATICS



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All Information is subject to revision

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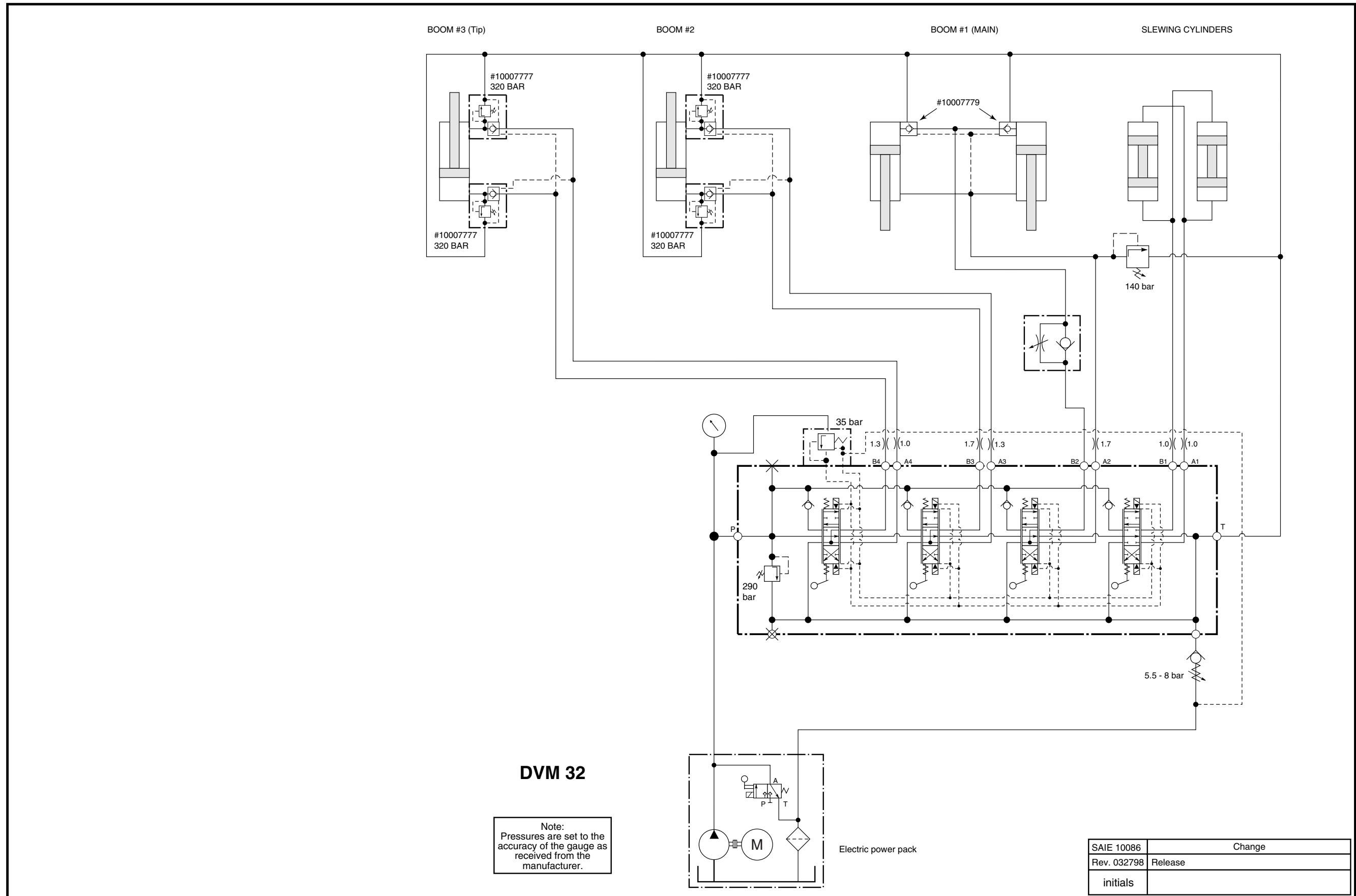
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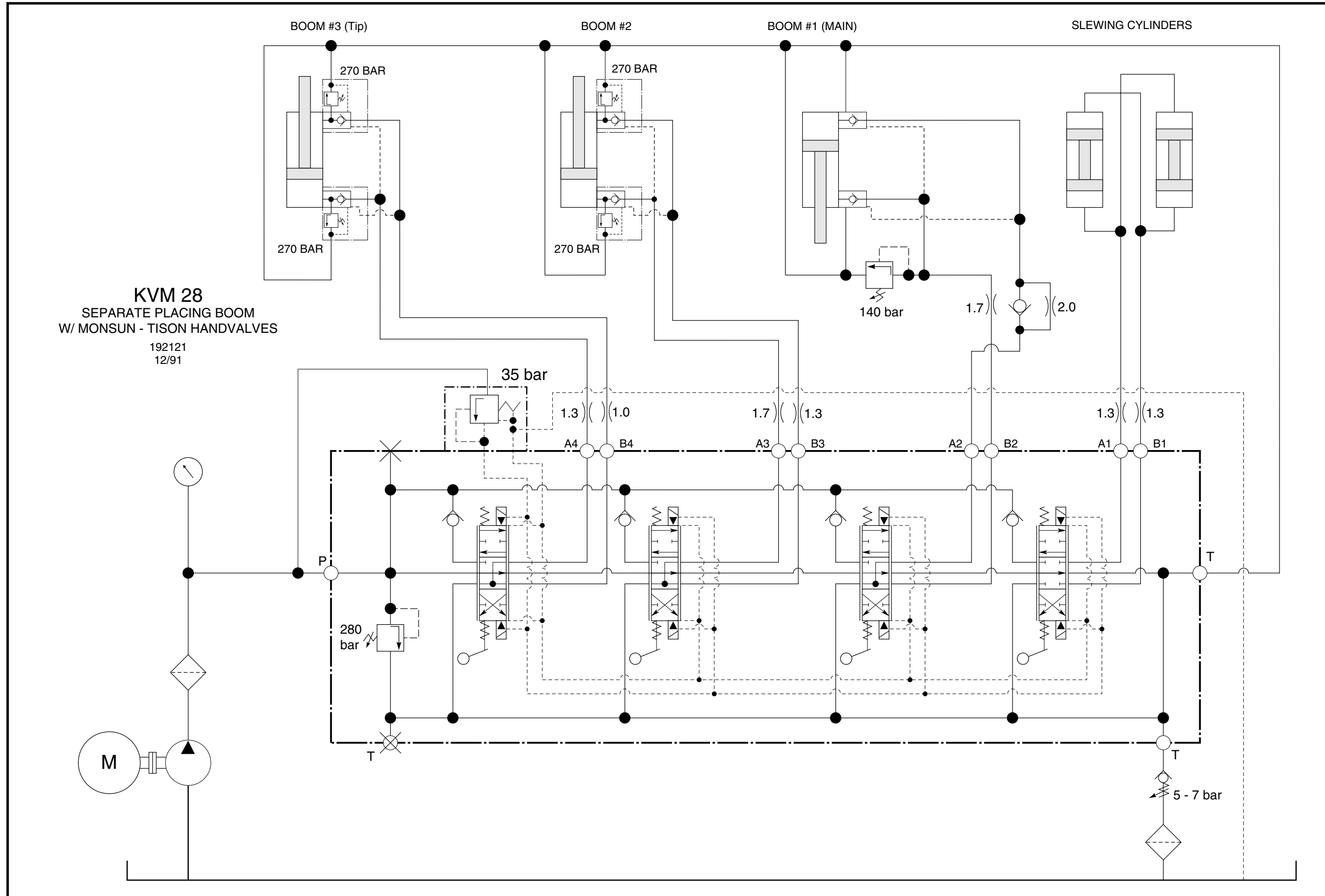


DVM 32

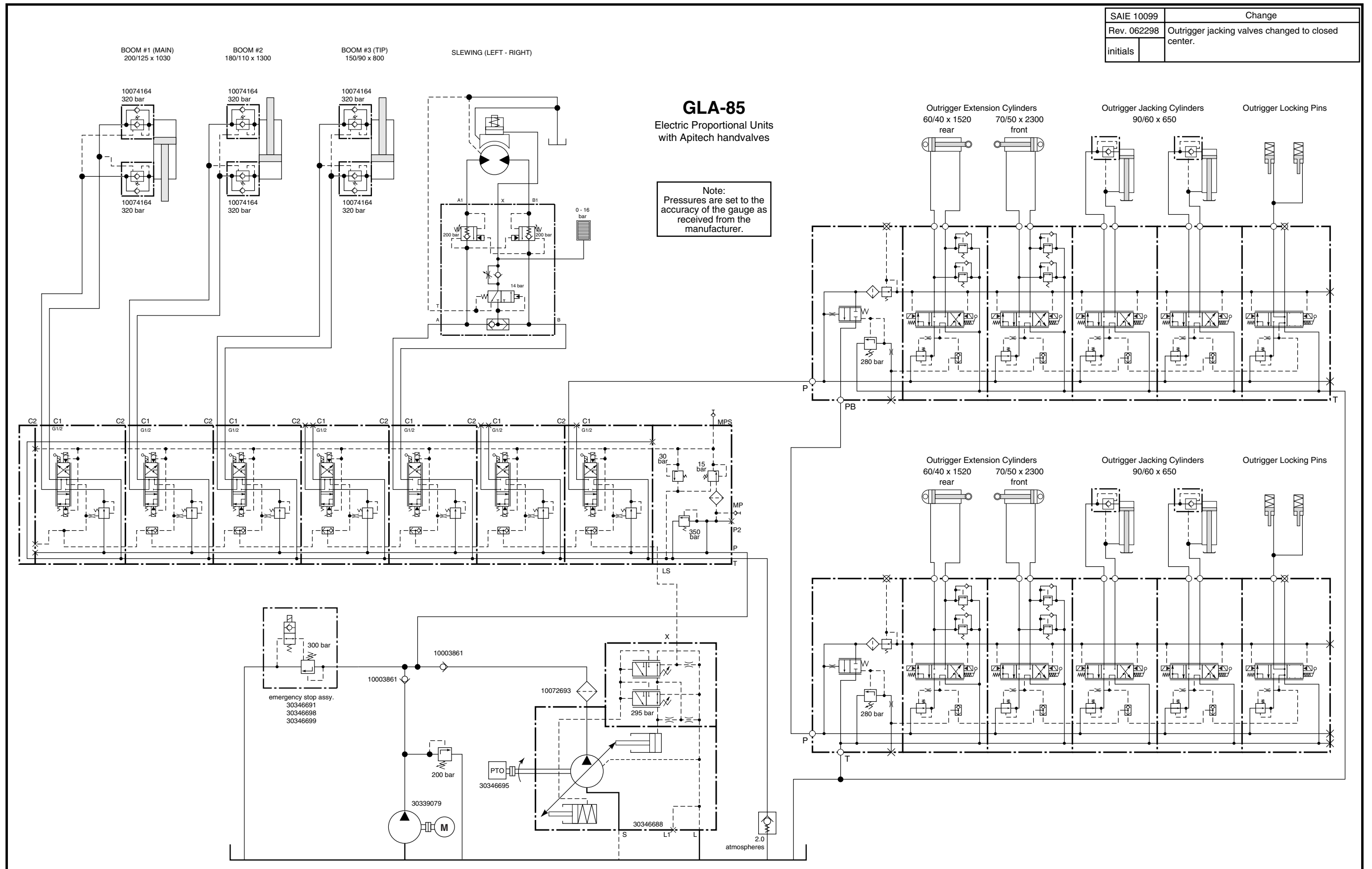
Note:
Pressures are set to the accuracy of the gauge as received from the manufacturer.

Electric power pack

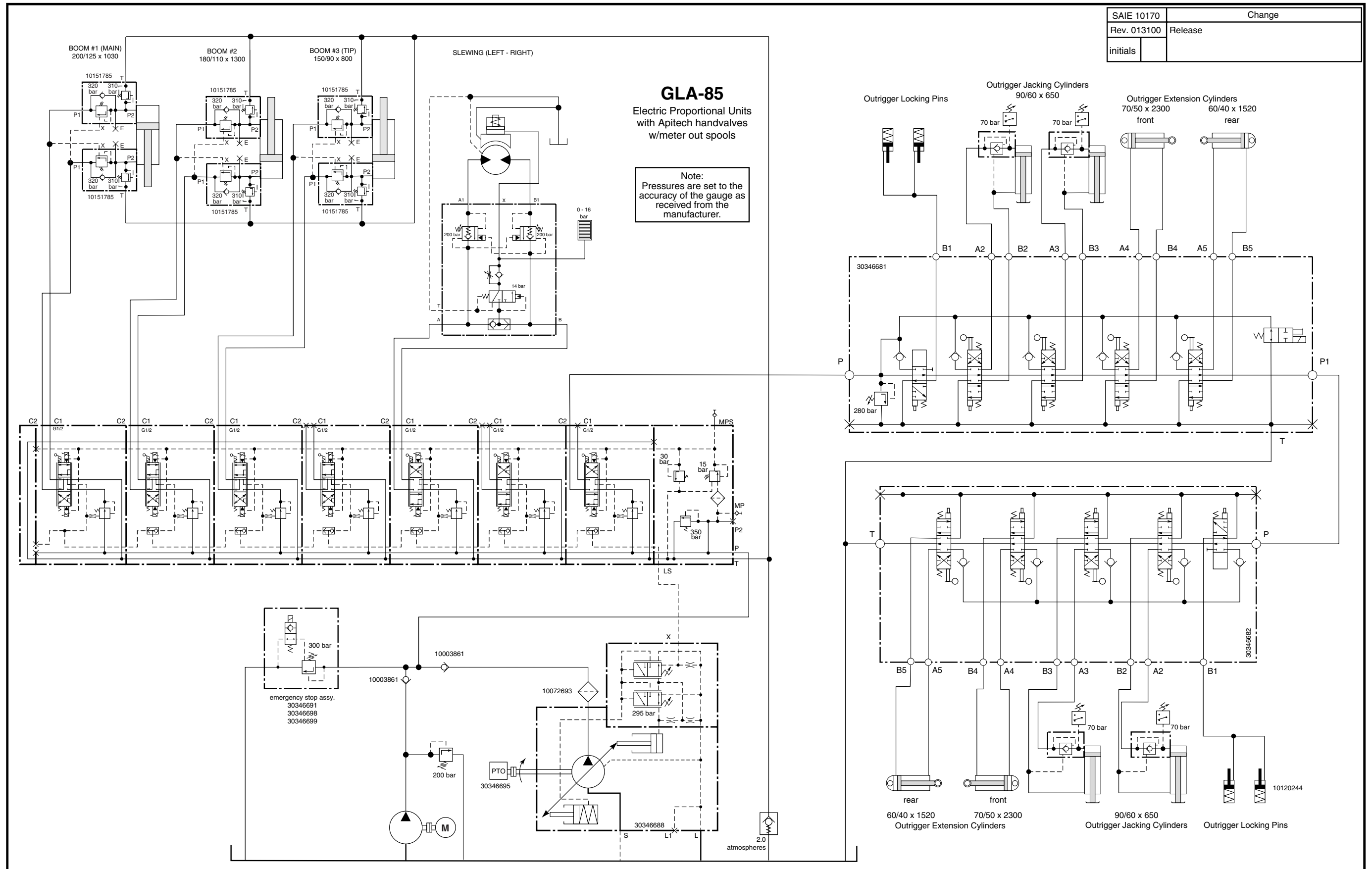
SAIE 10086	Change
Rev. 032798	Release
initials	



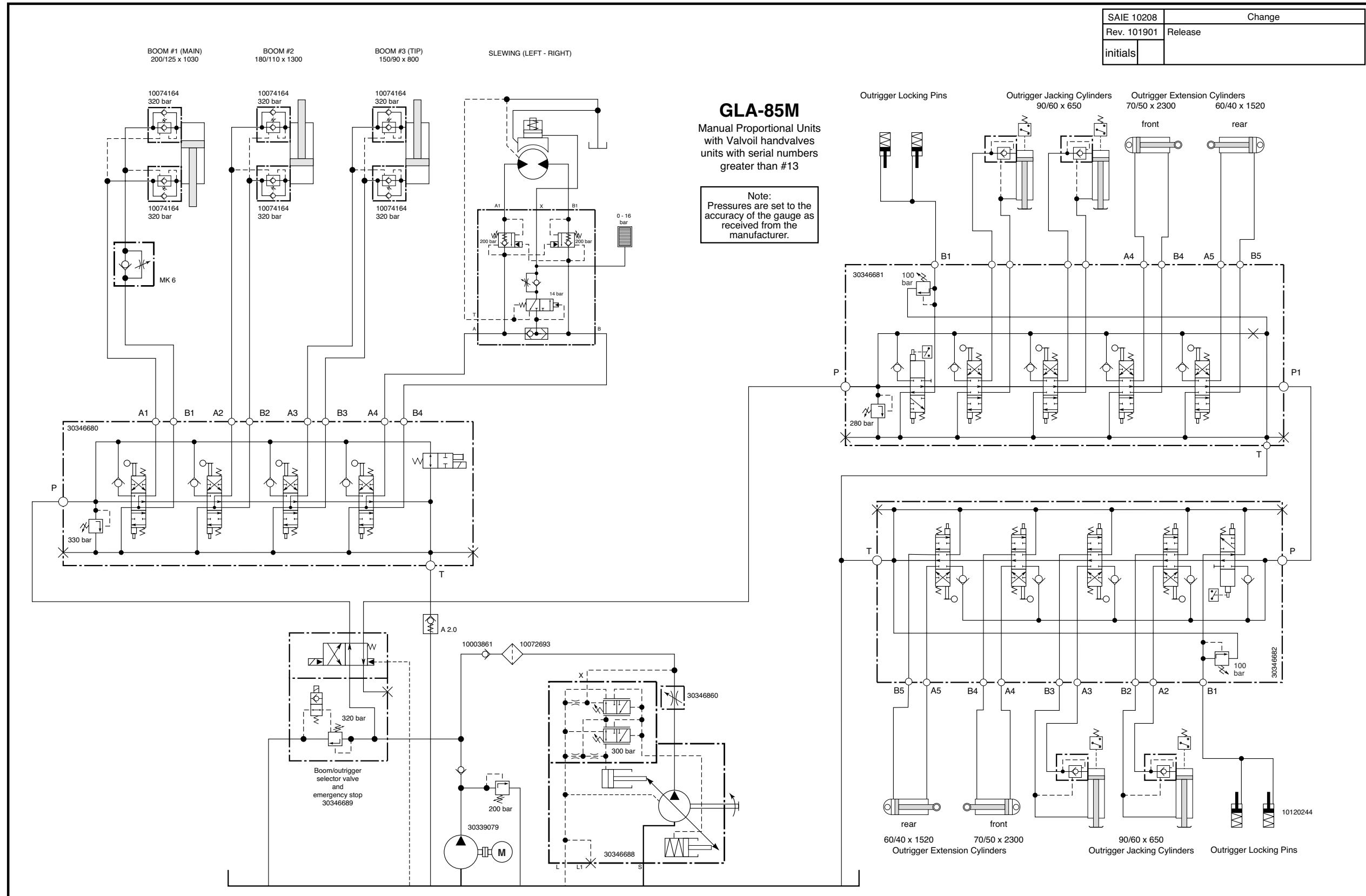
SAIE 10099	Change
Rev. 062298	Outrigger jacking valves changed to closed center.
initials	



SAIE 10170	Change
Rev. 013100	Release
initials	



SAIE 10208	Change
Rev. 101901	Release
initials	

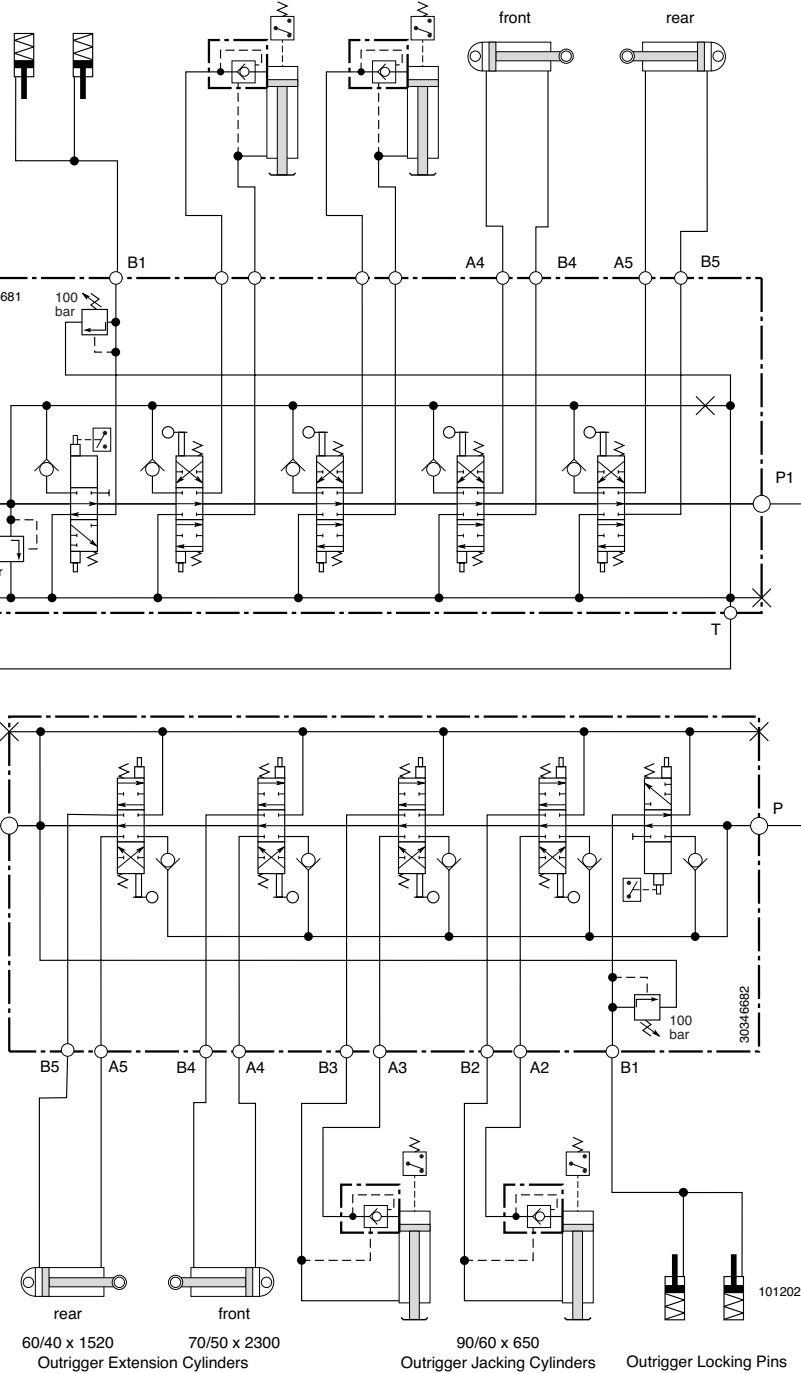


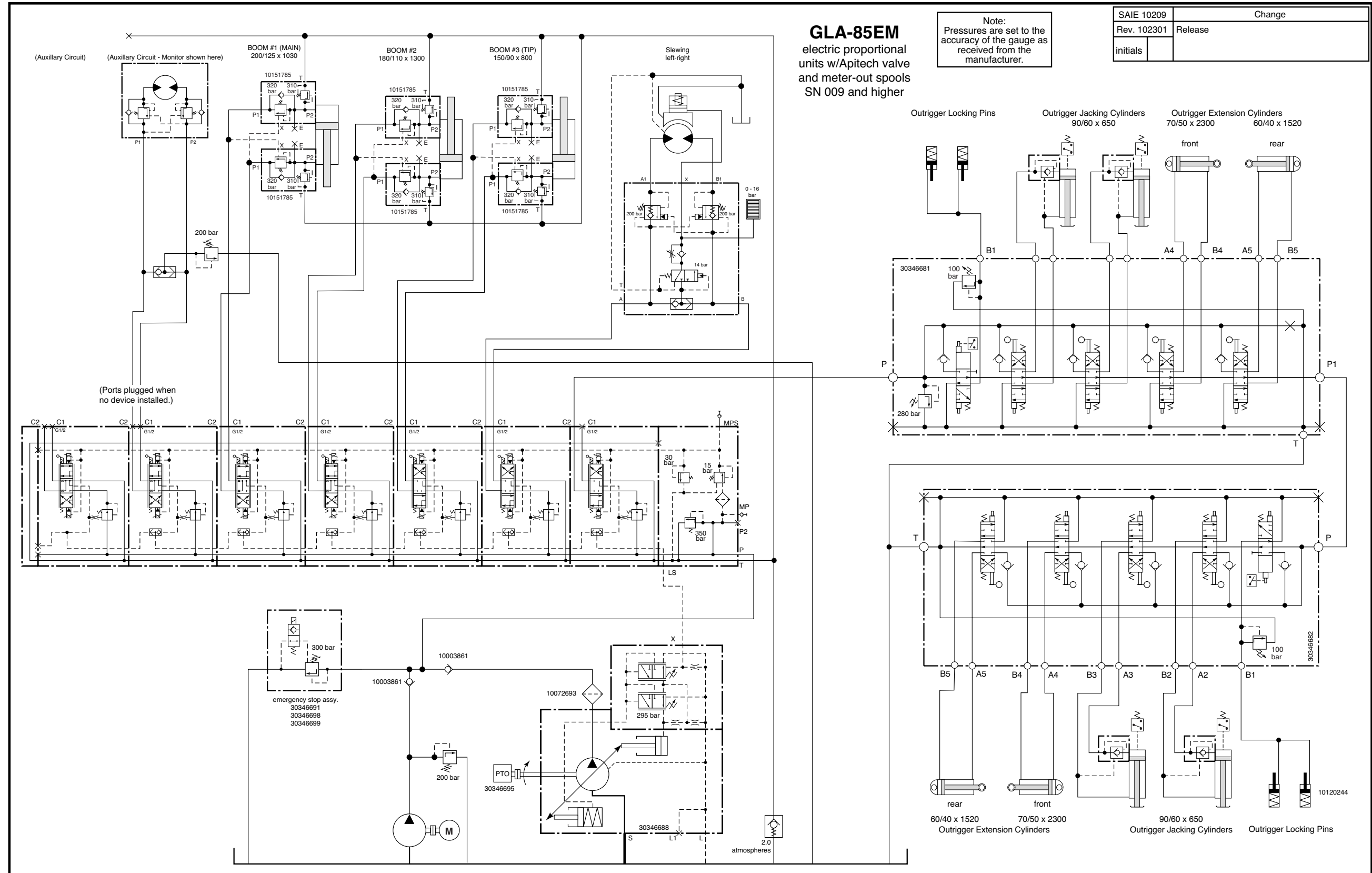
GLA-85M

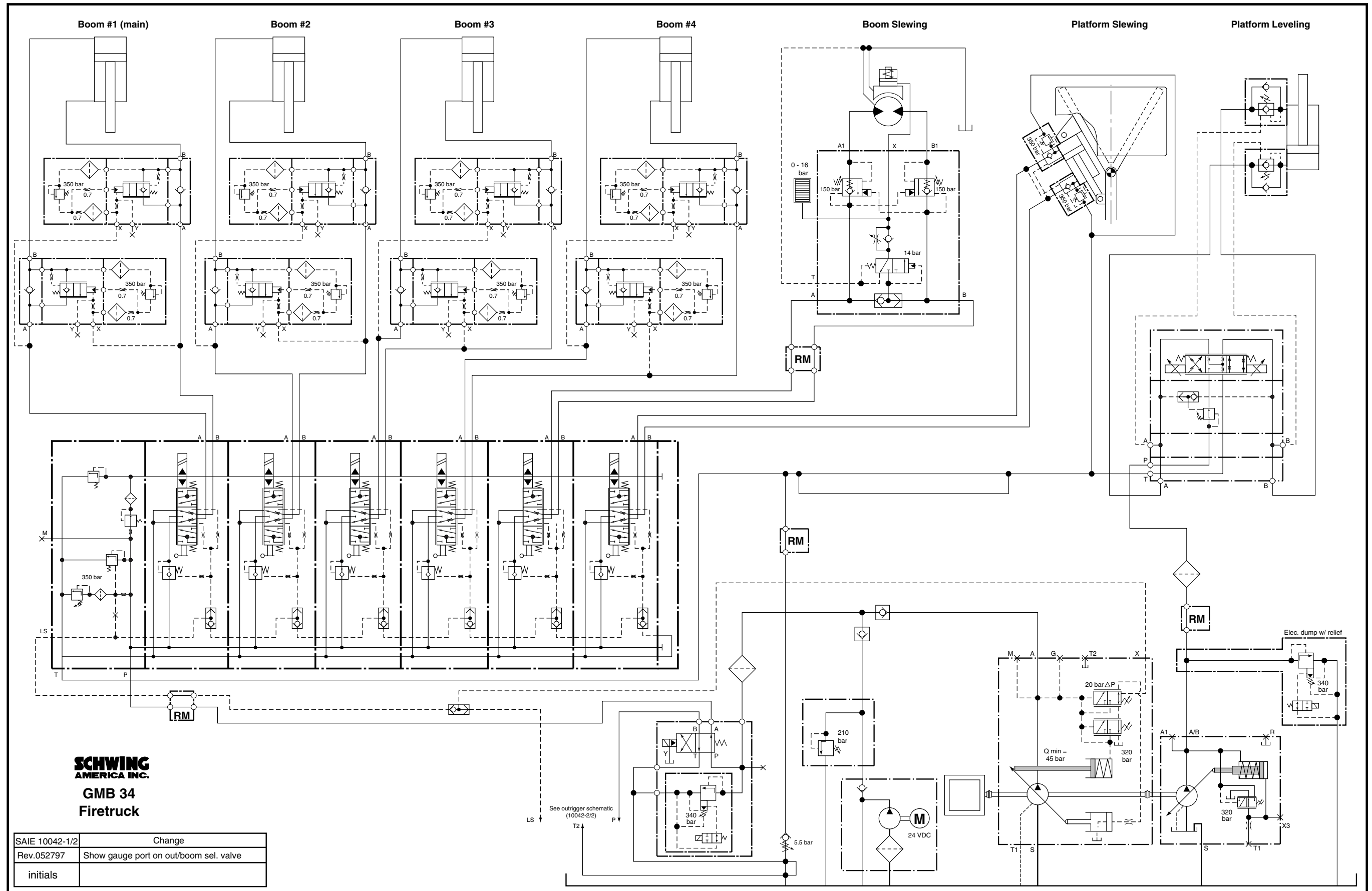
Manual Proportional Units with Valvolil handvalves units with serial numbers greater than #13

Note: Pressures are set to the accuracy of the gauge as received from the manufacturer.

Outrigger Locking Pins
Outrigger Jacking Cylinders 90/60 x 650
Outrigger Extension Cylinders 70/50 x 2300 60/40 x 1520 front rear

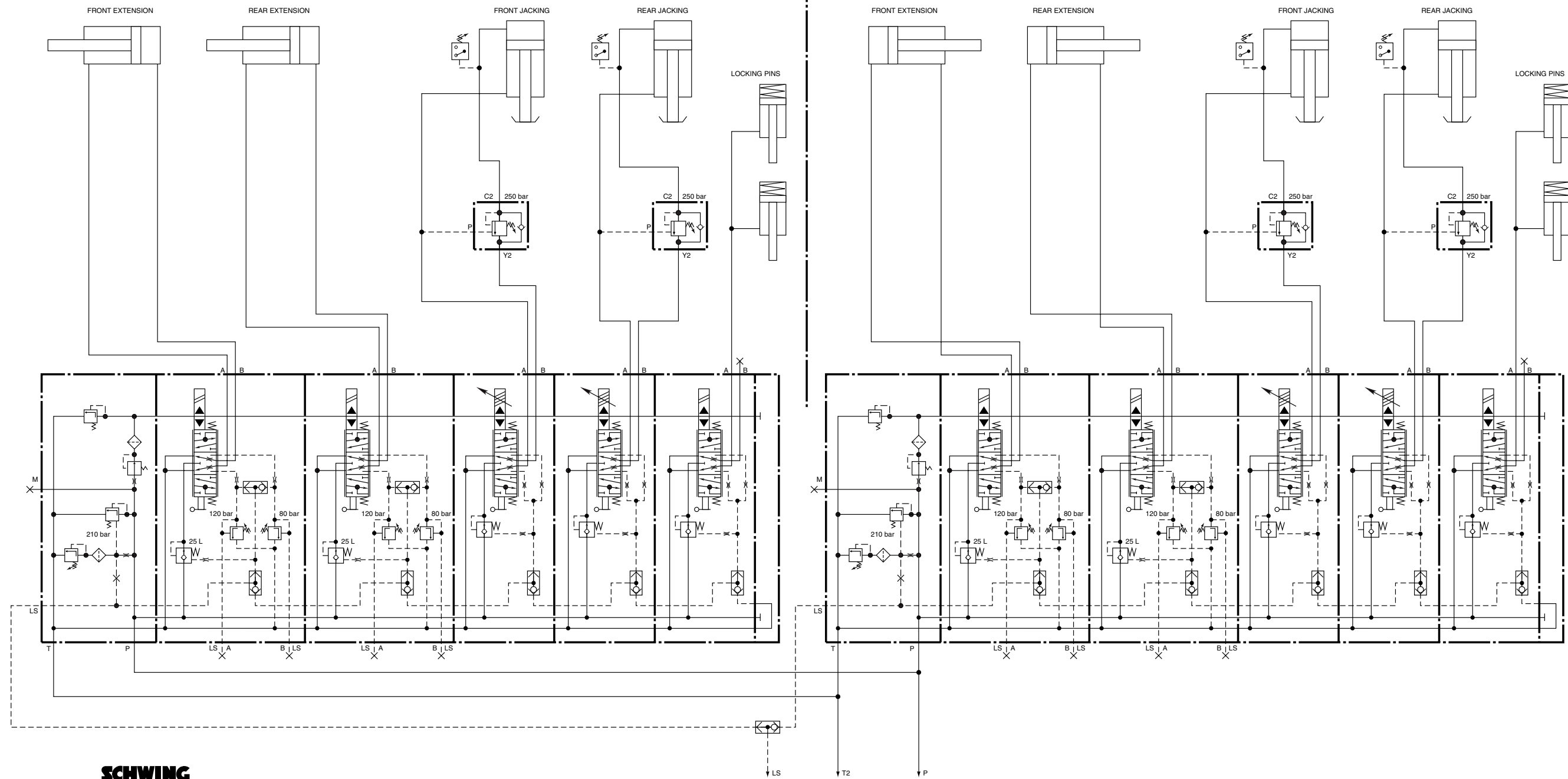






**STREET SIDE OUTRIGGERS
(driver side, left side)**

**CURB SIDE OUTRIGGERS
(passenger side, right side)**

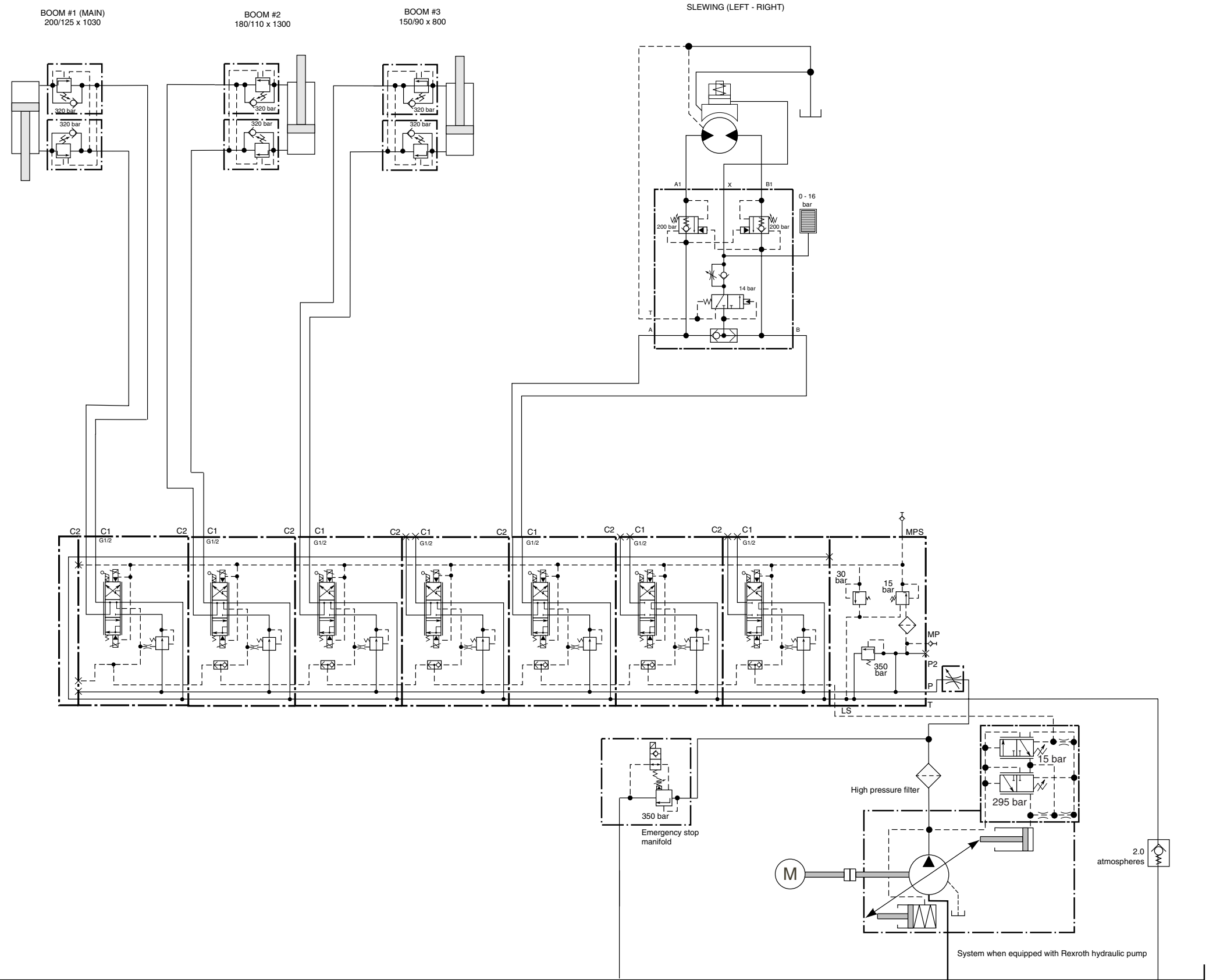


**SCHWING
AMERICA INC.**

**GMB 34
Firetruck**

SAIE 10042-2/2	Change
Rev.052797	Corrections on 1/2 required rerelease of 2/2
initials	

FIRE BOAT BOOM, APITECH CONTROL BLOCK, PROPORTIONAL

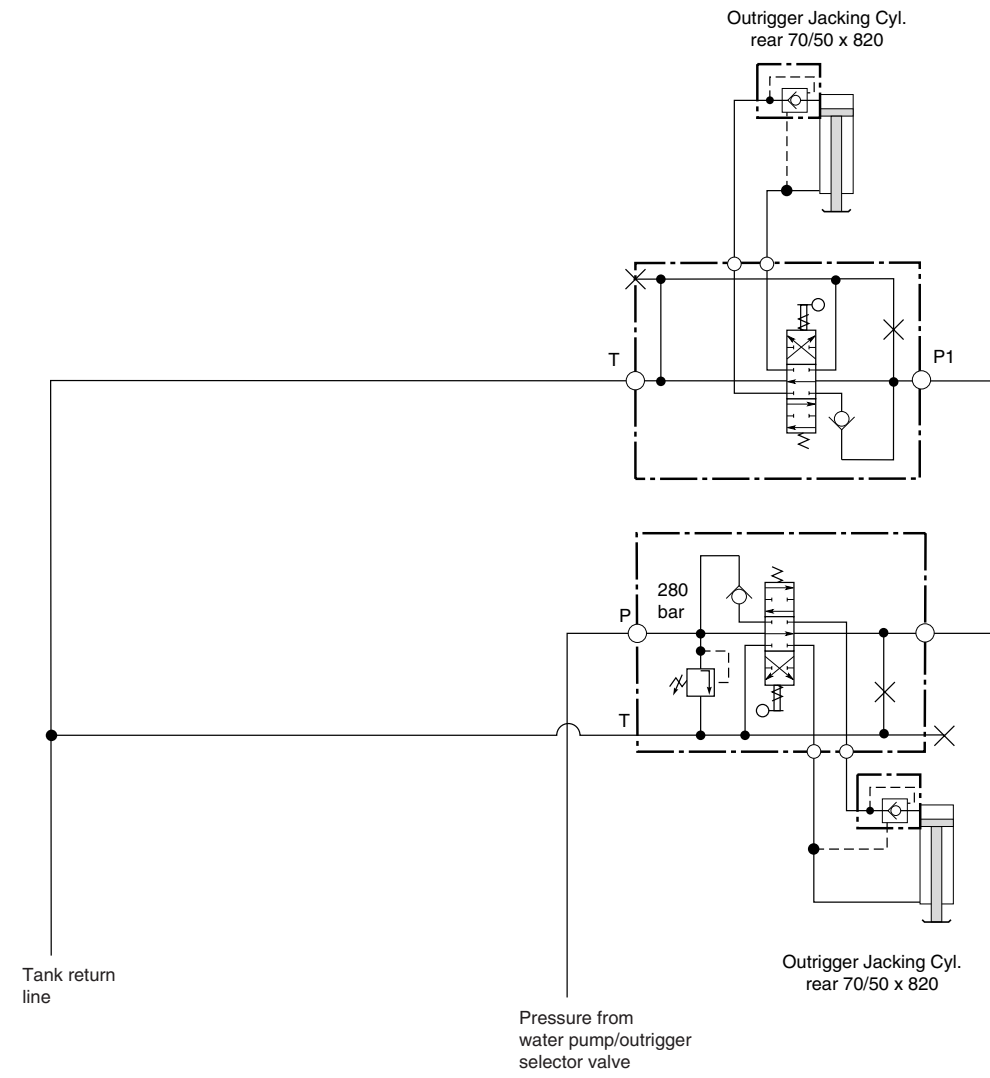


HYDRAULIC SCHEMATIC
Fire Boat Boom

w/slewing motor manifold,
Apitech control block, and emergency stop manifold
applies to proportional units only

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

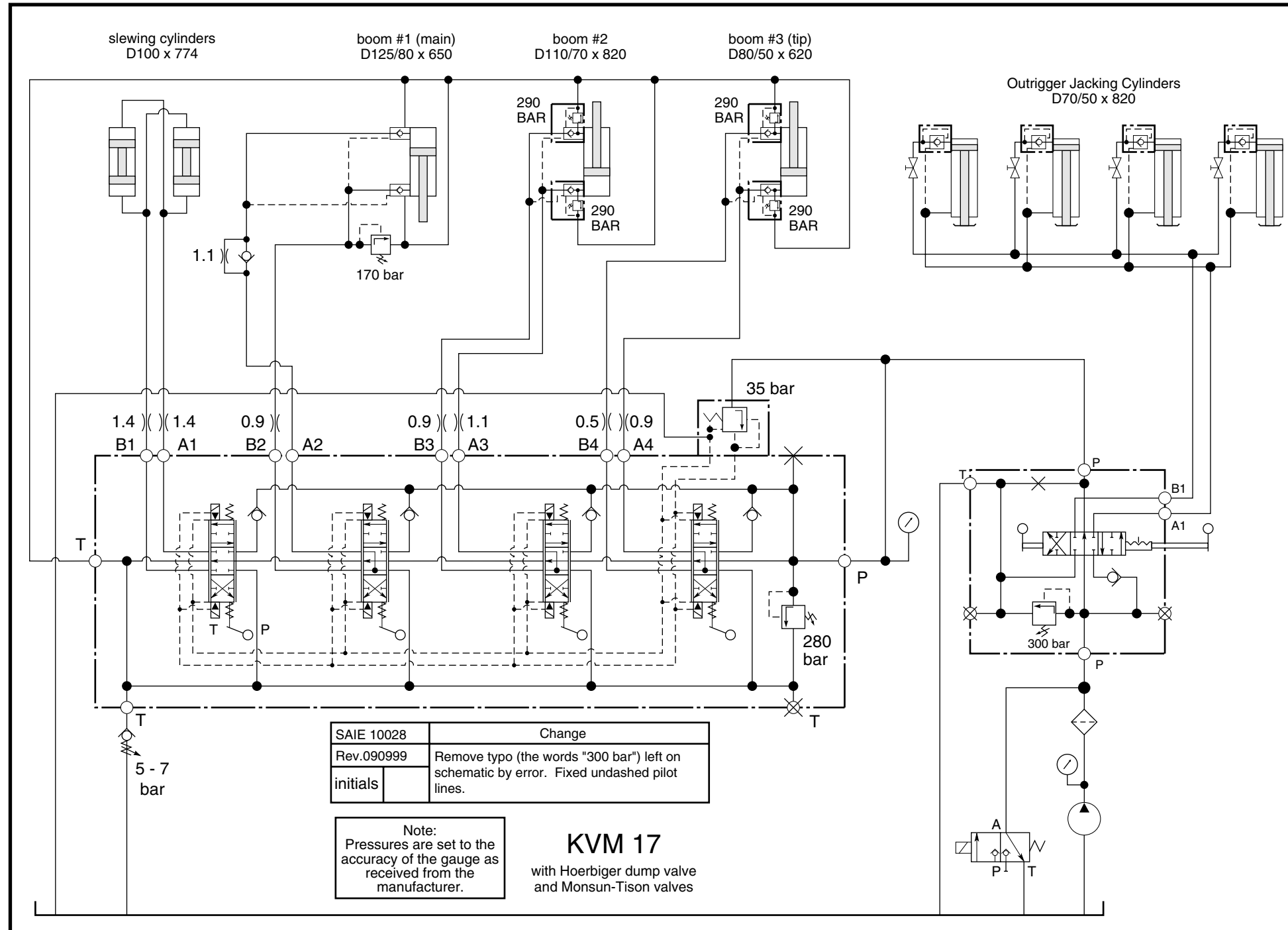
SAIE 10157	Change
Rev. 100699	Release
initials	

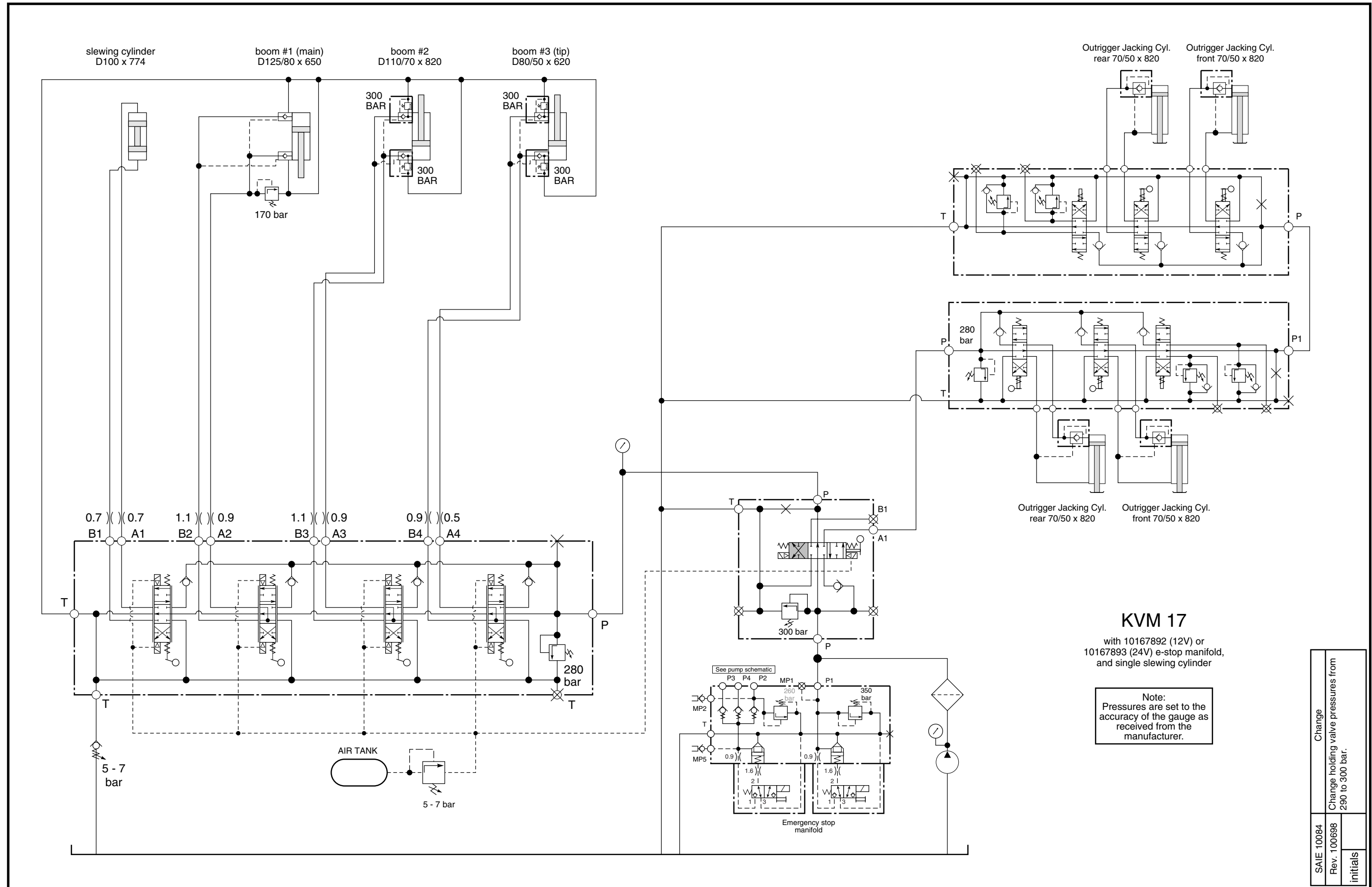


BPL 500
With outriggers

Note:
Pressures are set to the accuracy of the gauge as received from the manufacturer.

SAIE 10167	Change
Rev. 012700	Release
initials	

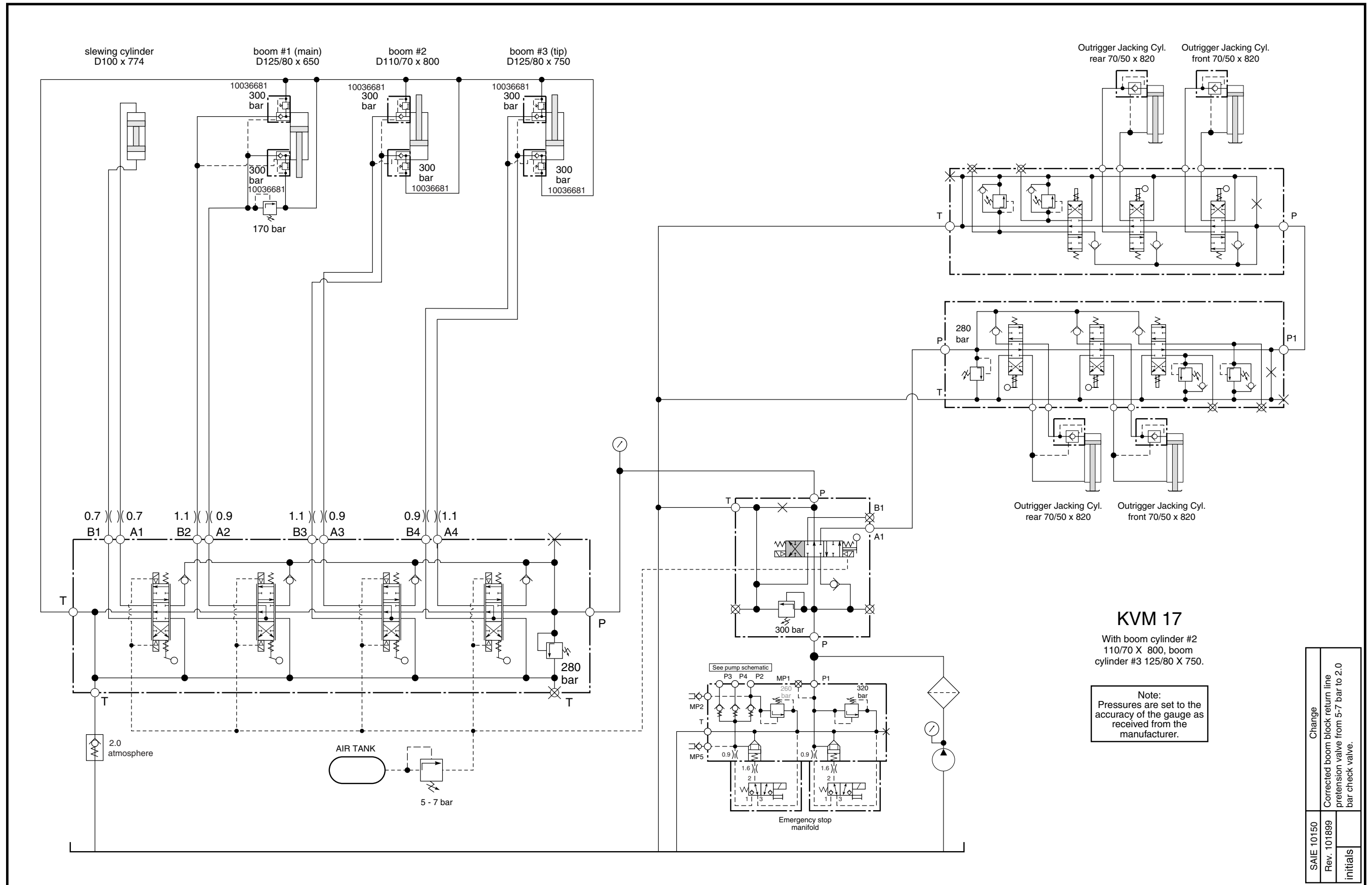




KVM 17
with 10167892 (12V) or 10167893 (24V) e-stop manifold, and single slewing cylinder

Note:
Pressures are set to the accuracy of the gauge as received from the manufacturer.

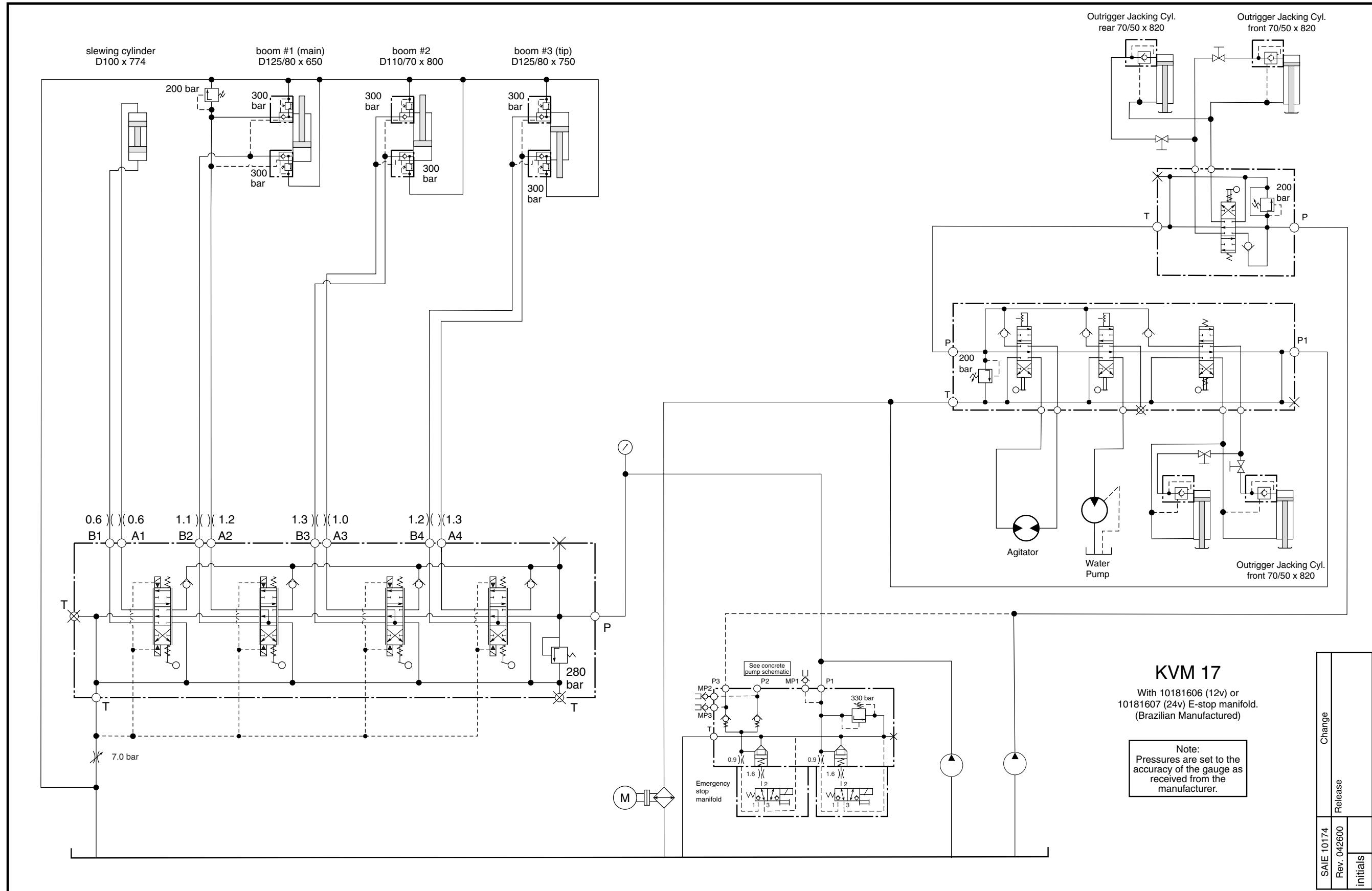
Change	Change holding valve pressures from
SAIE 10084	290 to 300 bar.
Rev. 100698	initials

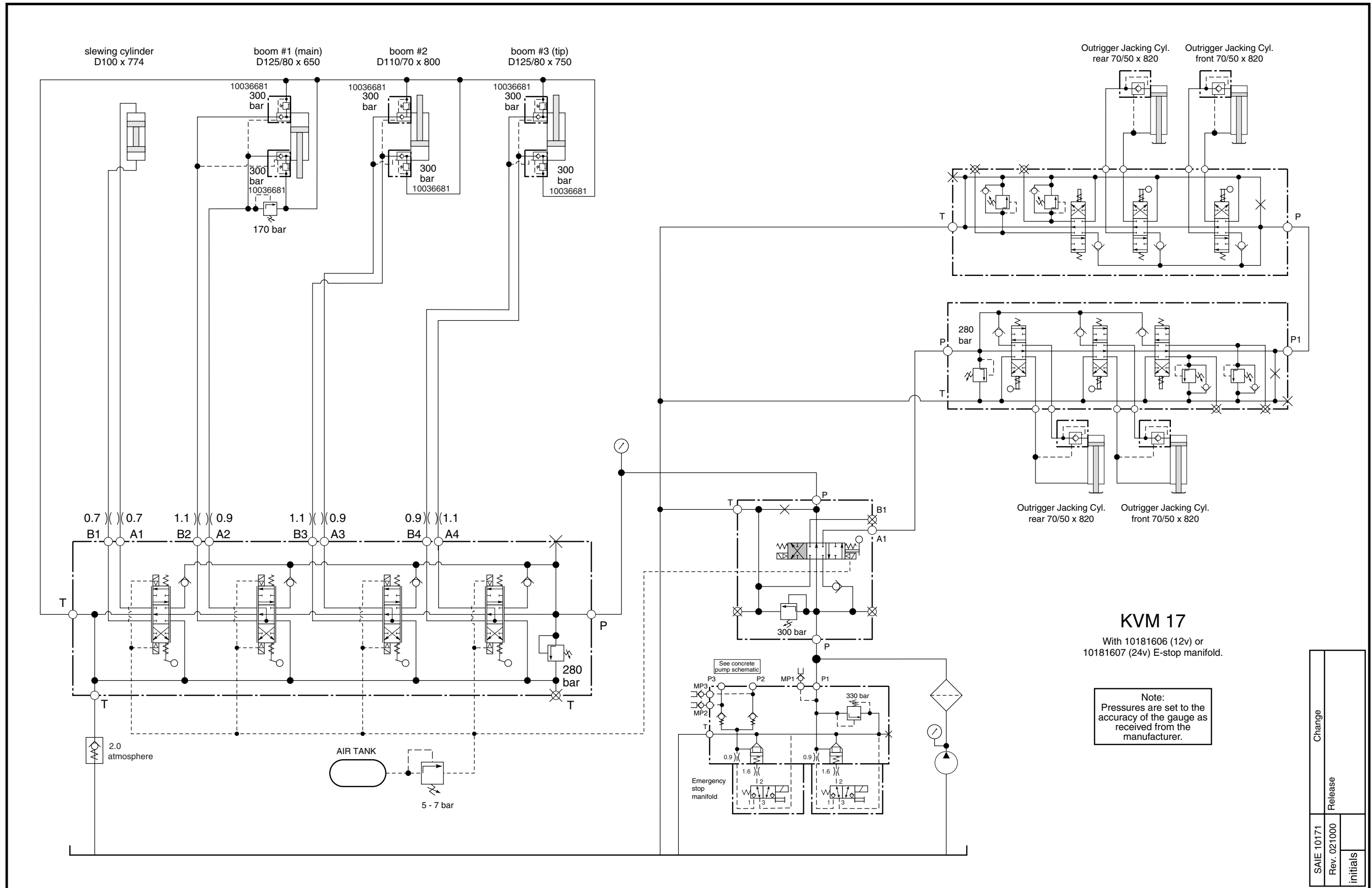


KVM 17
 With boom cylinder #2
 110/70 X 800, boom
 cylinder #3 125/80 X 750.

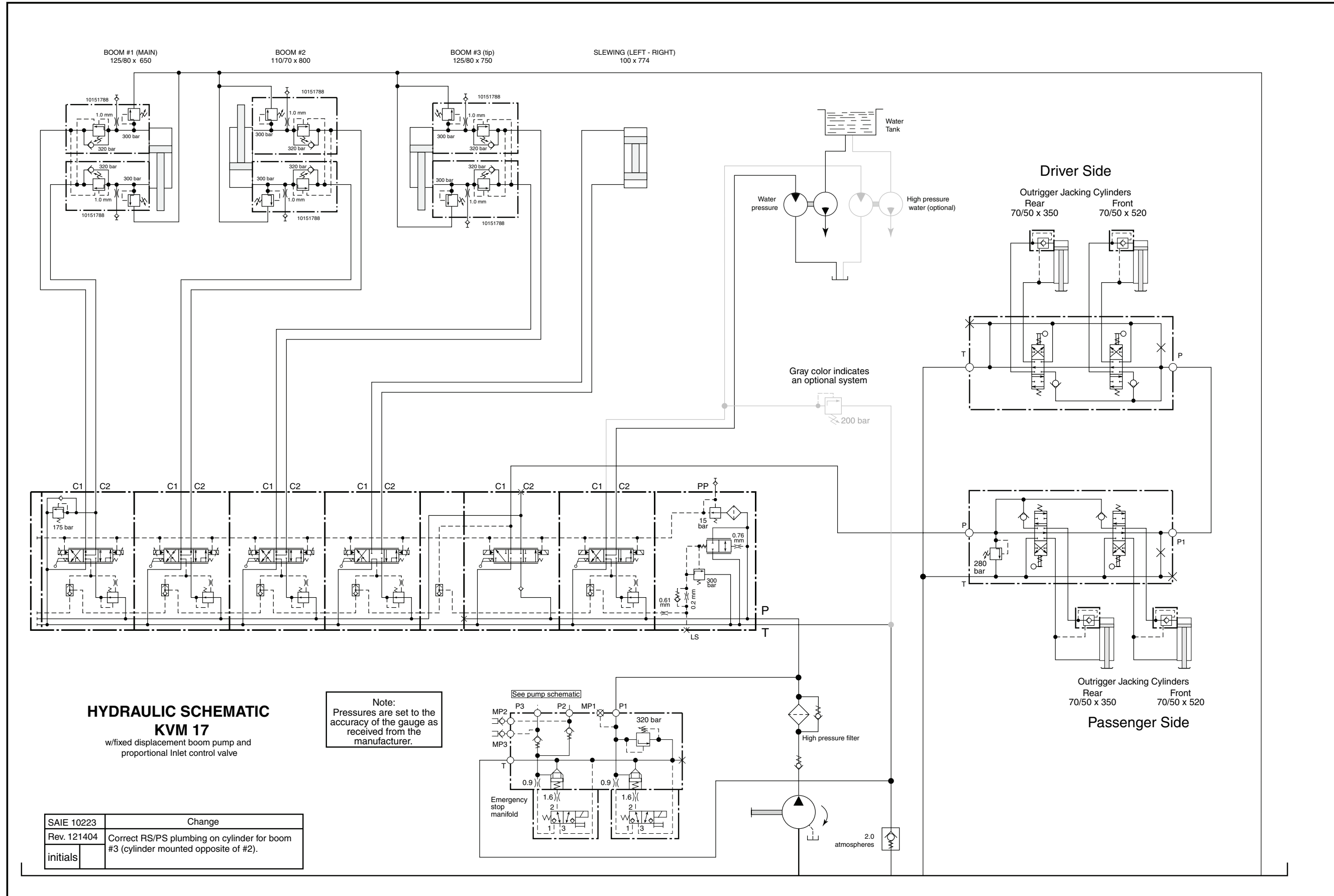
Note:
 Pressures are set to the
 accuracy of the gauge as
 received from the
 manufacturer.

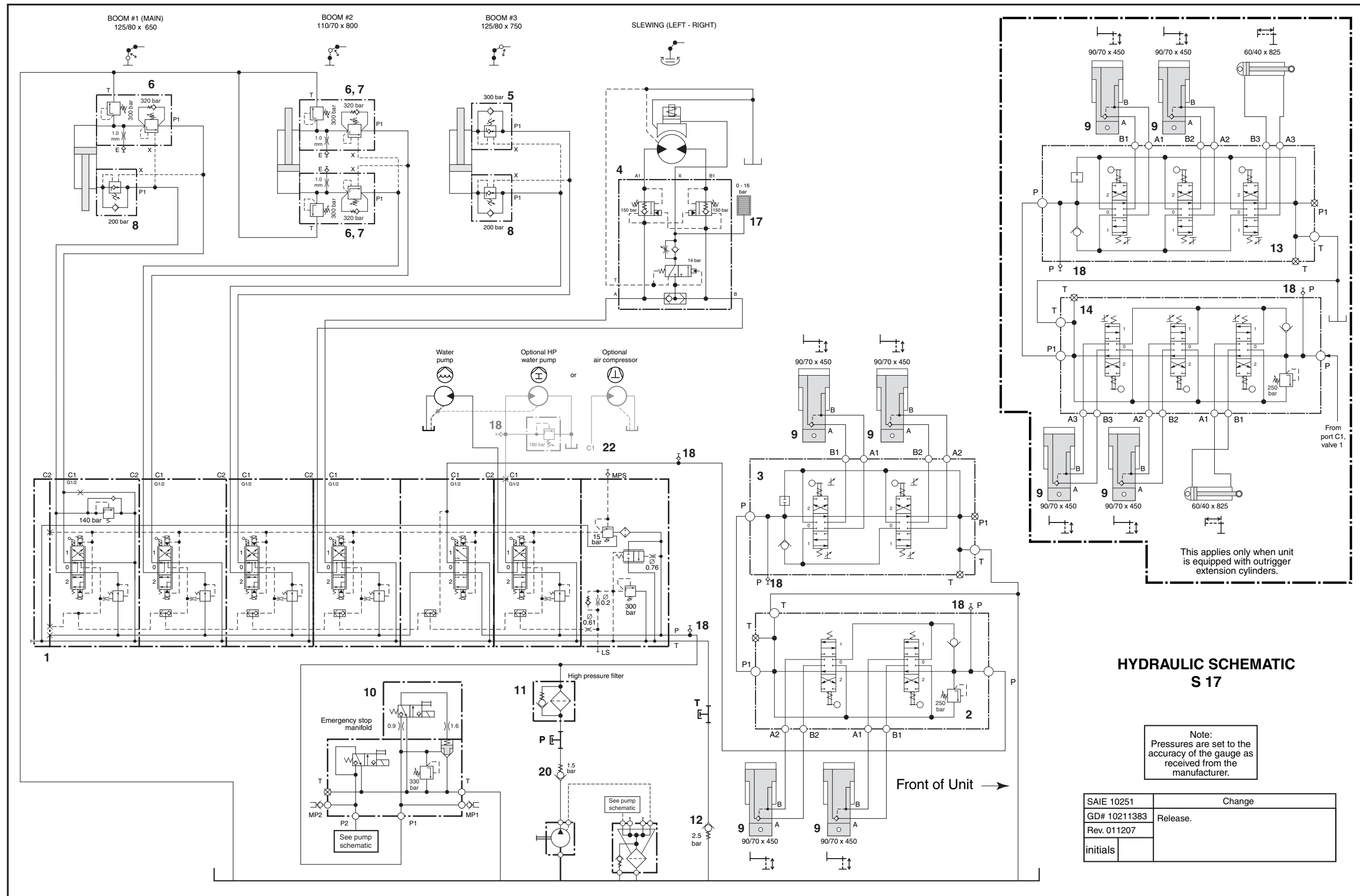
SAIE 10150	Change
Rev. 101899	Corrected boom block return line pretension valve from 5-7 bar to 2.0 bar check valve.
initials	

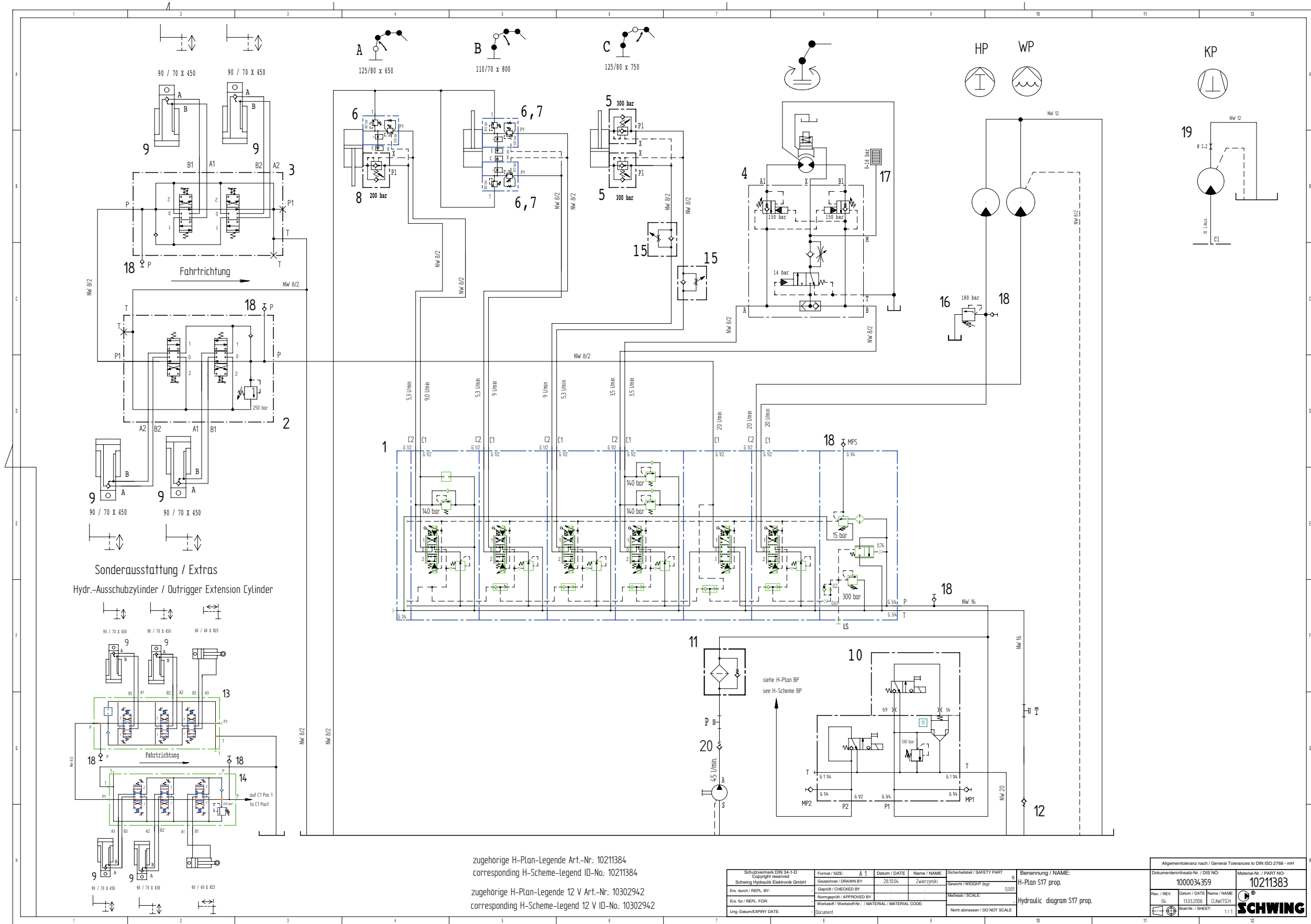




SAIE 10171	Change
Rev. 021000	Release
initials	





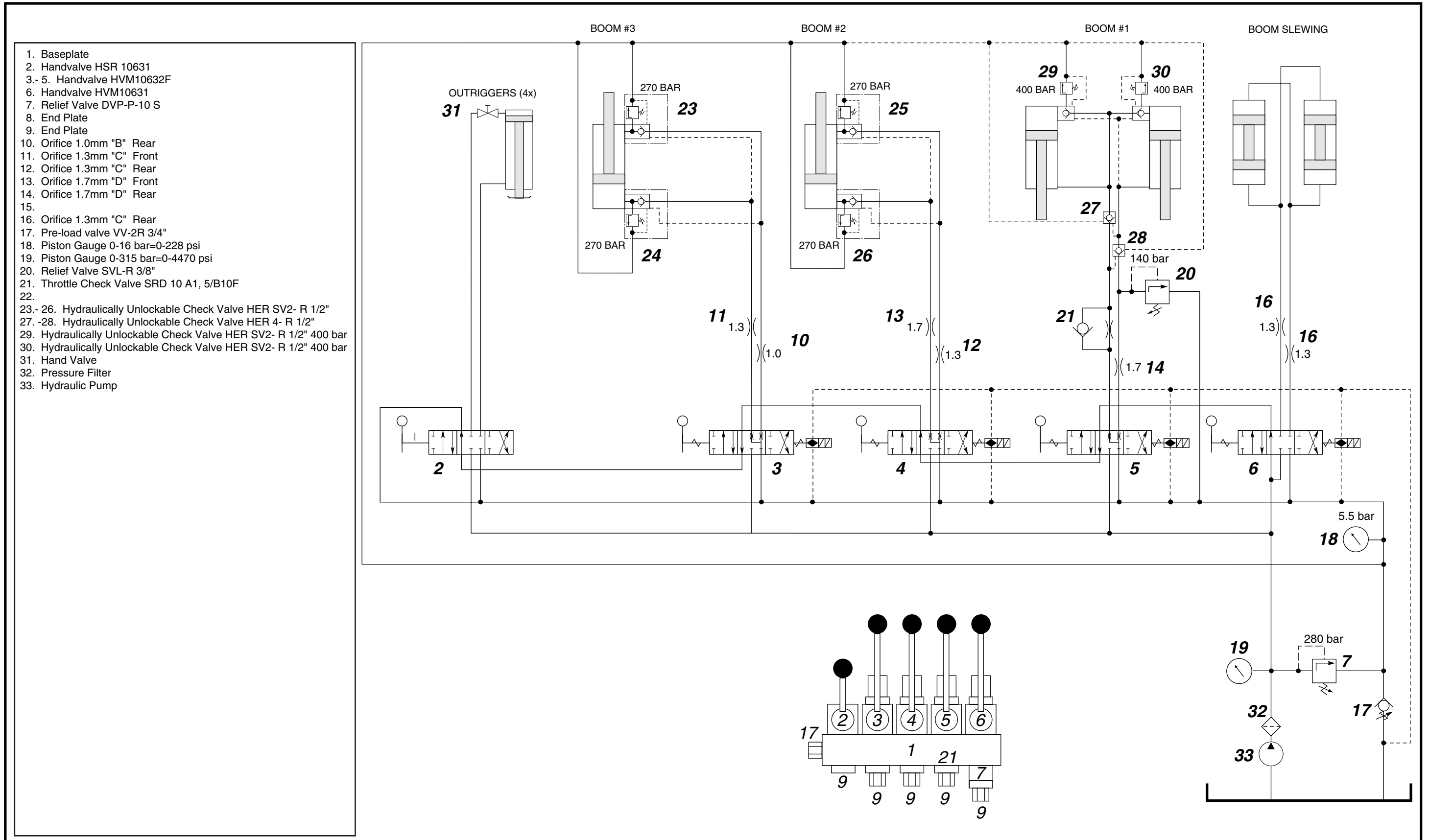


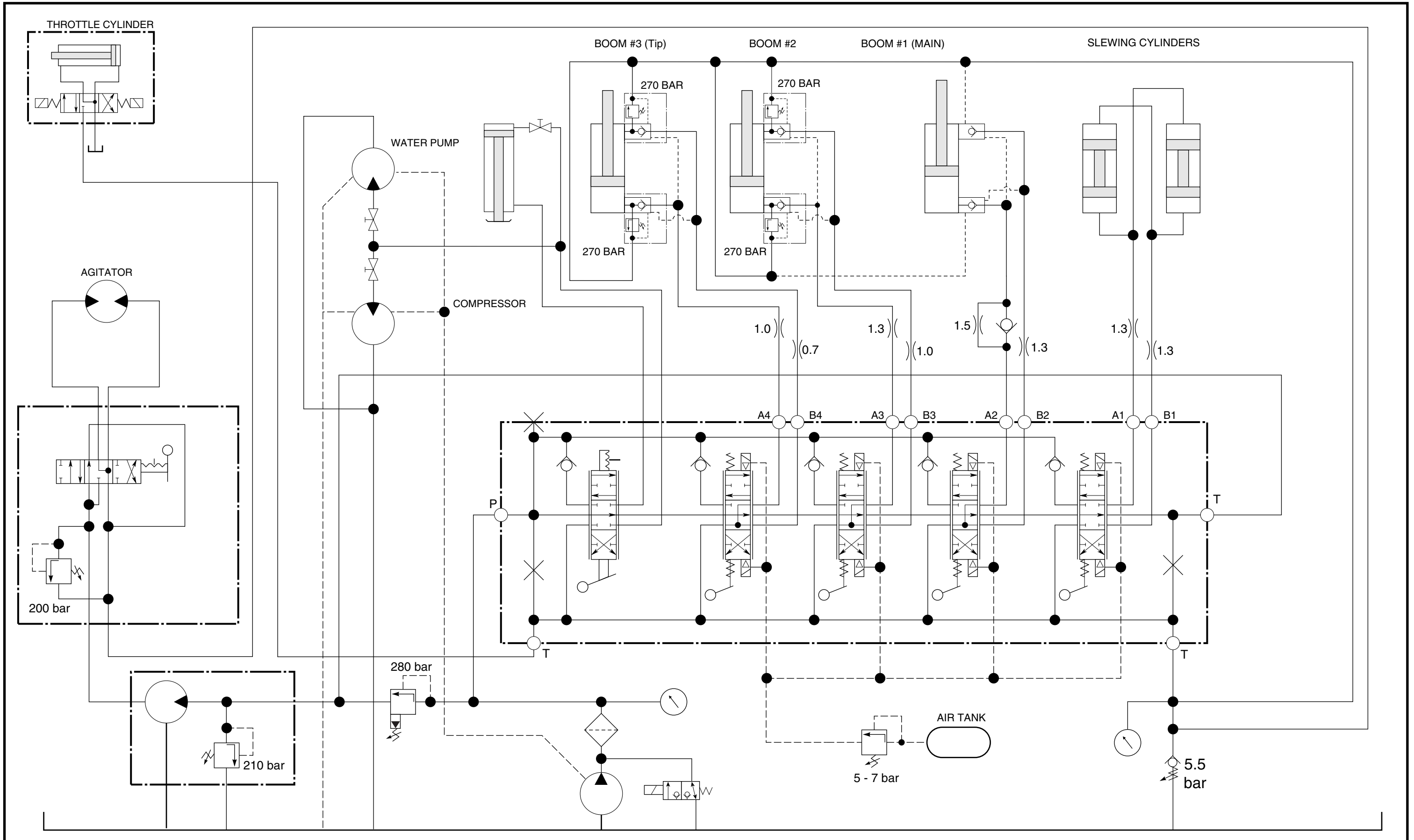
zugehörige H-Plan-Legende Art.-Nr.: 10211384
 corresponding H-Scheme-Legend ID-No.: 10211384
 zugehörige H-Plan-Legende 12 V Art.-Nr.: 10302942
 corresponding H-Scheme-Legend 12 V ID-No.: 10302942

Schutzvermerk DIN 3410 Copyright reserved Schwing Hydraulik Elektronik GmbH	Format / SIZE: A 1 Gezeichnet / DRAWN BY: Zvier2/1501	Datum / DATE: 28.10.04	Name / NAME:	Sicherheitsart / SAFETY PART: N	Benennung / NAME: H-Plan S17 prop.
Ers. durch / REPL. BY:	Geprüft / CHECKED BY:	Freigegeben / APPROVED BY:	Material / MATERIAL CODE:	Gewicht / WEIGHT (kg): 0,001	Maßstab / SCALE:
Urs.-Datum/EXPIRY DATE:	Stückzahl:	Nicht abmessen / DO NOT SCALE:	Hydraulik diagram S17 prop.	Allgemeine Toleranz nach / General Tolerances to DIN ISO 2768 - mH	Dokumenteninfosatz-Nr. / DIS NO.: 1000034359
Rev. / REV: 04	Datum / DATE: 13.03.2008	Name / NAME: ELAWITSCHE	Material-Nr. / PART NO.: 10211383	Blatt-Nr. / SHEET: 1 / 1	SCHWING

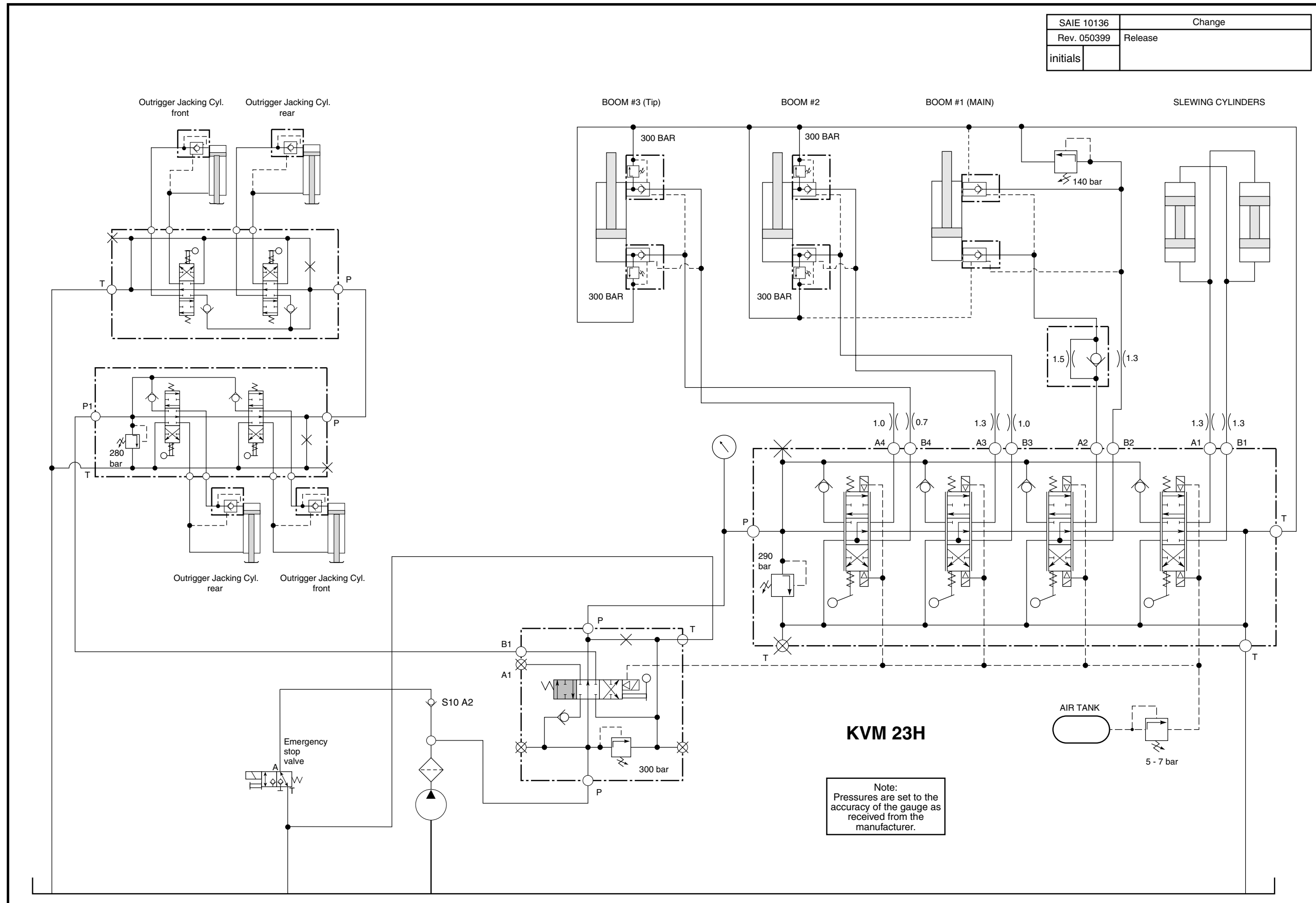
N/A

KVM 23M, HYDREL BOOM HAND VALVES, BLACK & WHITE



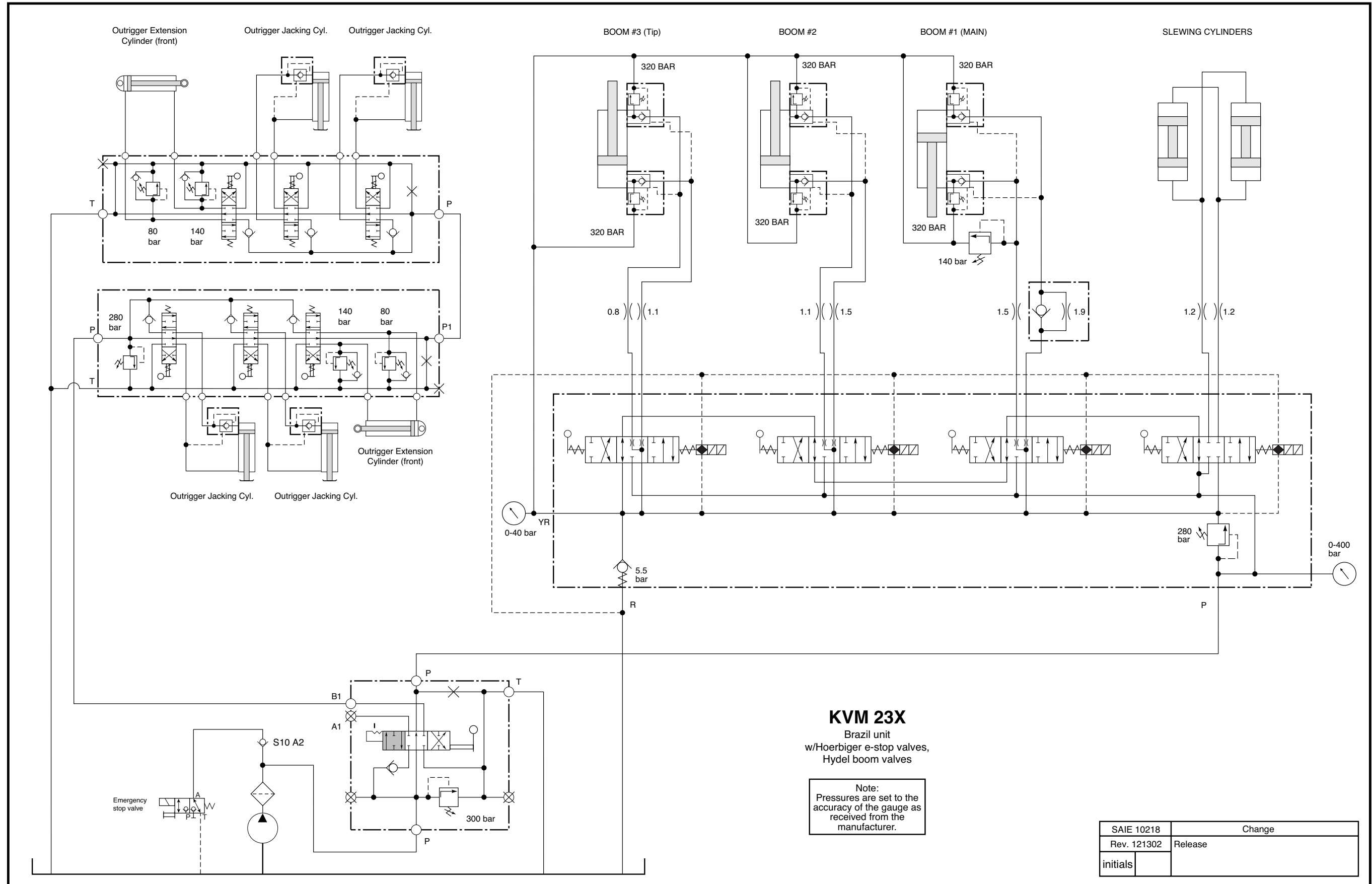


SAIE 10136	Change
Rev. 050399	Release
initials	



KVM 23H

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

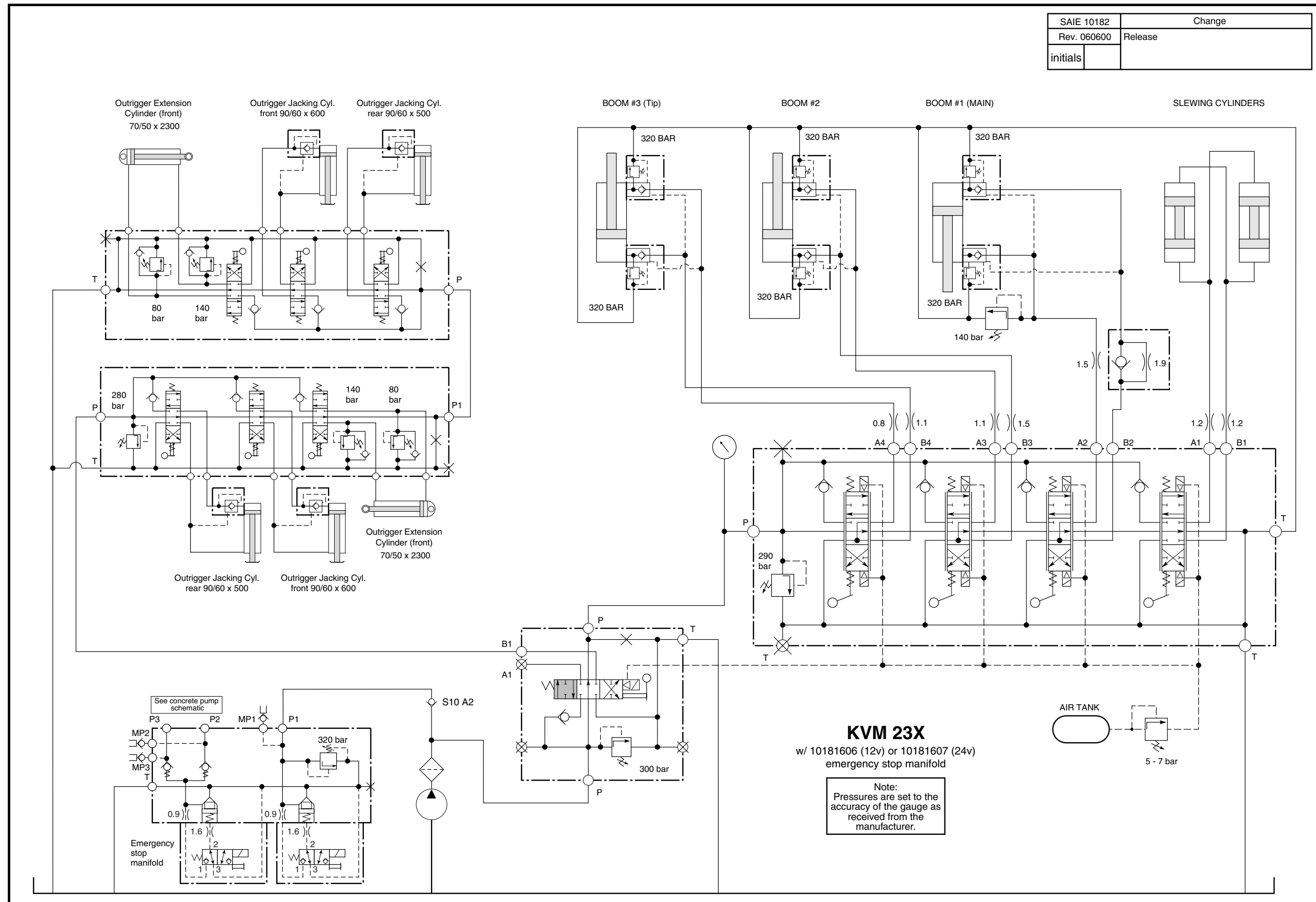


KVM 23X
Brazil unit
w/Hoerbiger e-stop valves,
Hydel boom valves

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

SAIE 10218	Change
Rev. 121302	Release
initials	

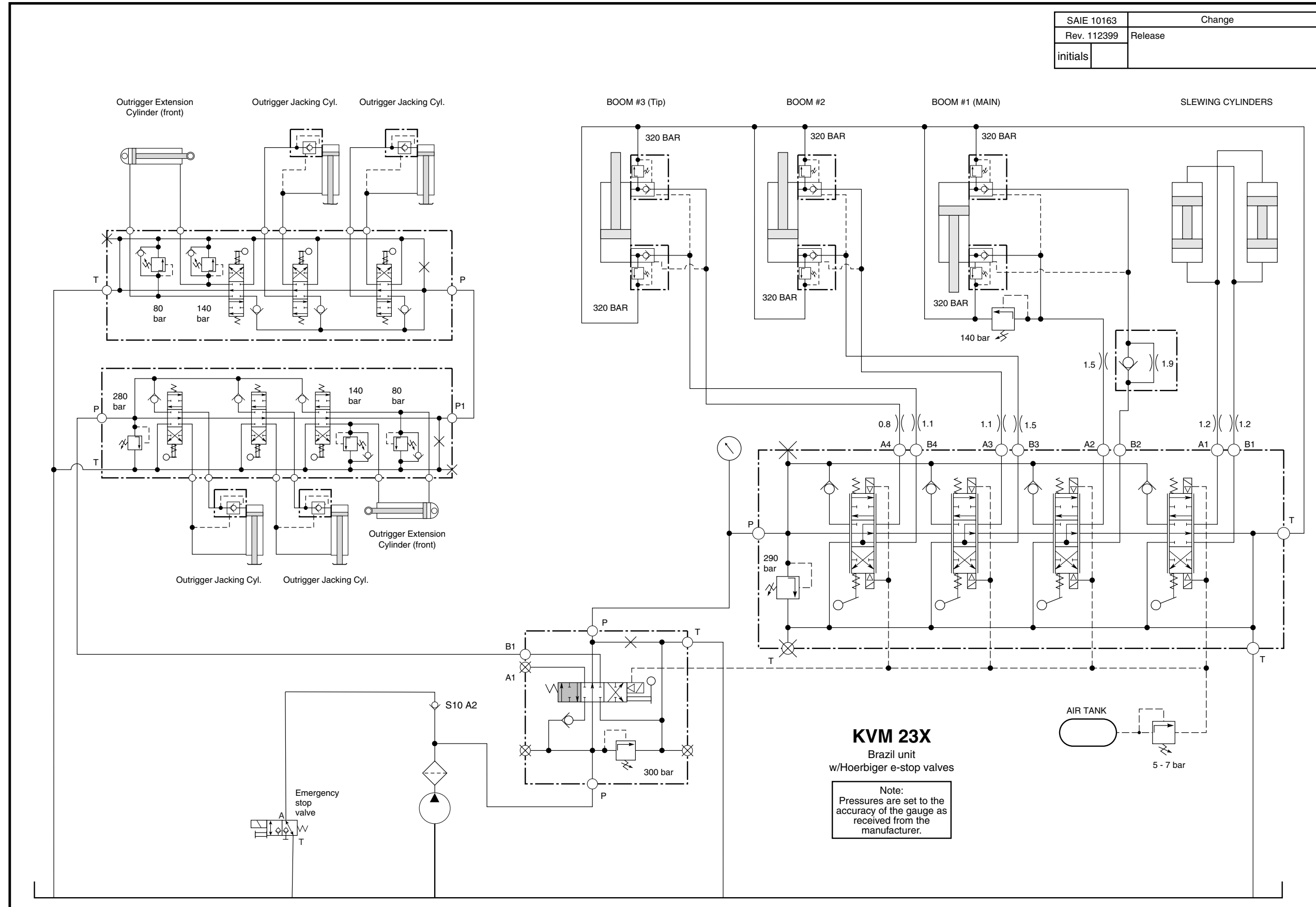
SAIE 10182	Change
Rev. 060600	Release
initials	



KVM 23X
w/ 10181606 (12v) or 10181607 (24v)
emergency stop manifold

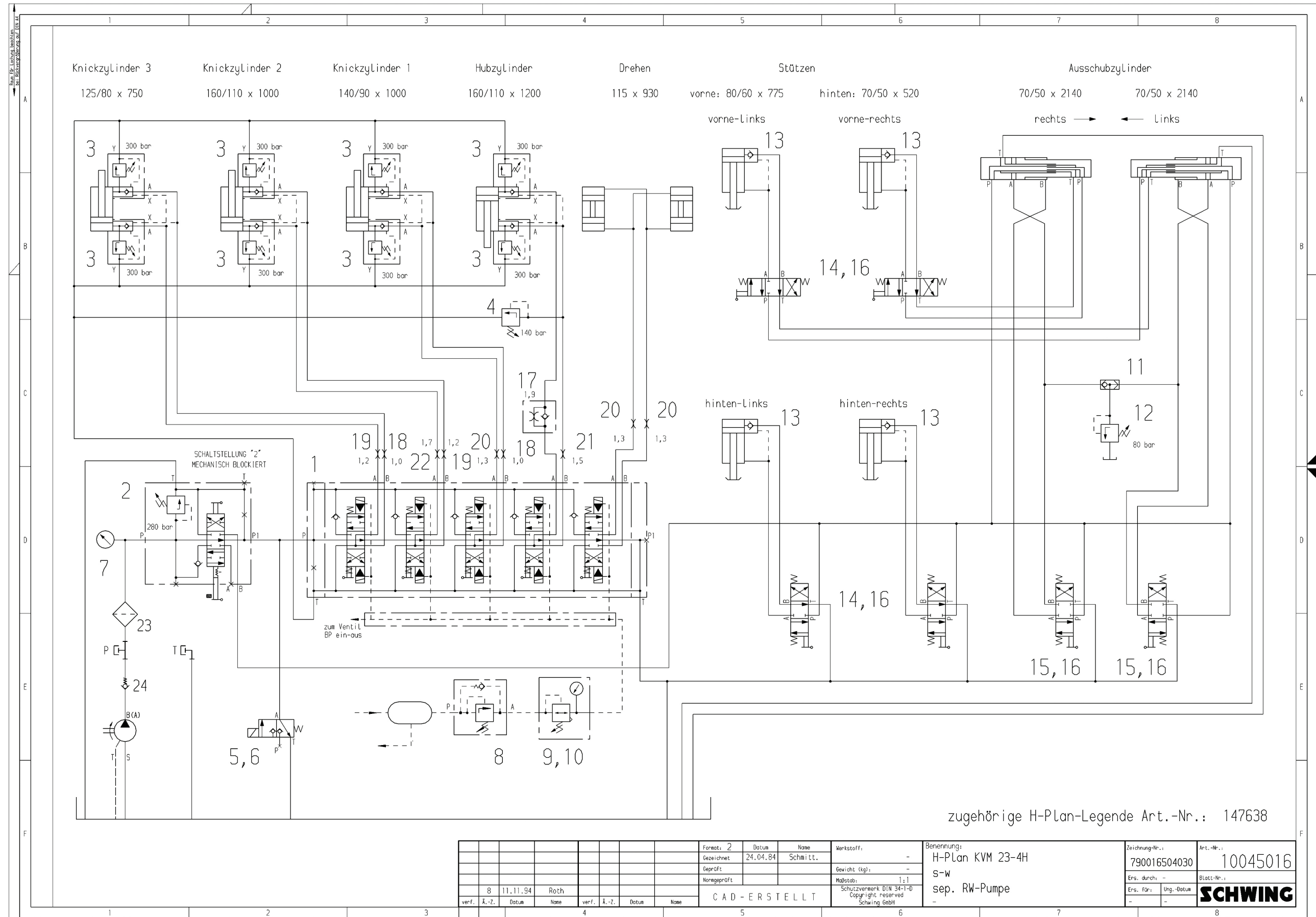
Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

SAIE 10163	Change
Rev. 112399	Release
initials	



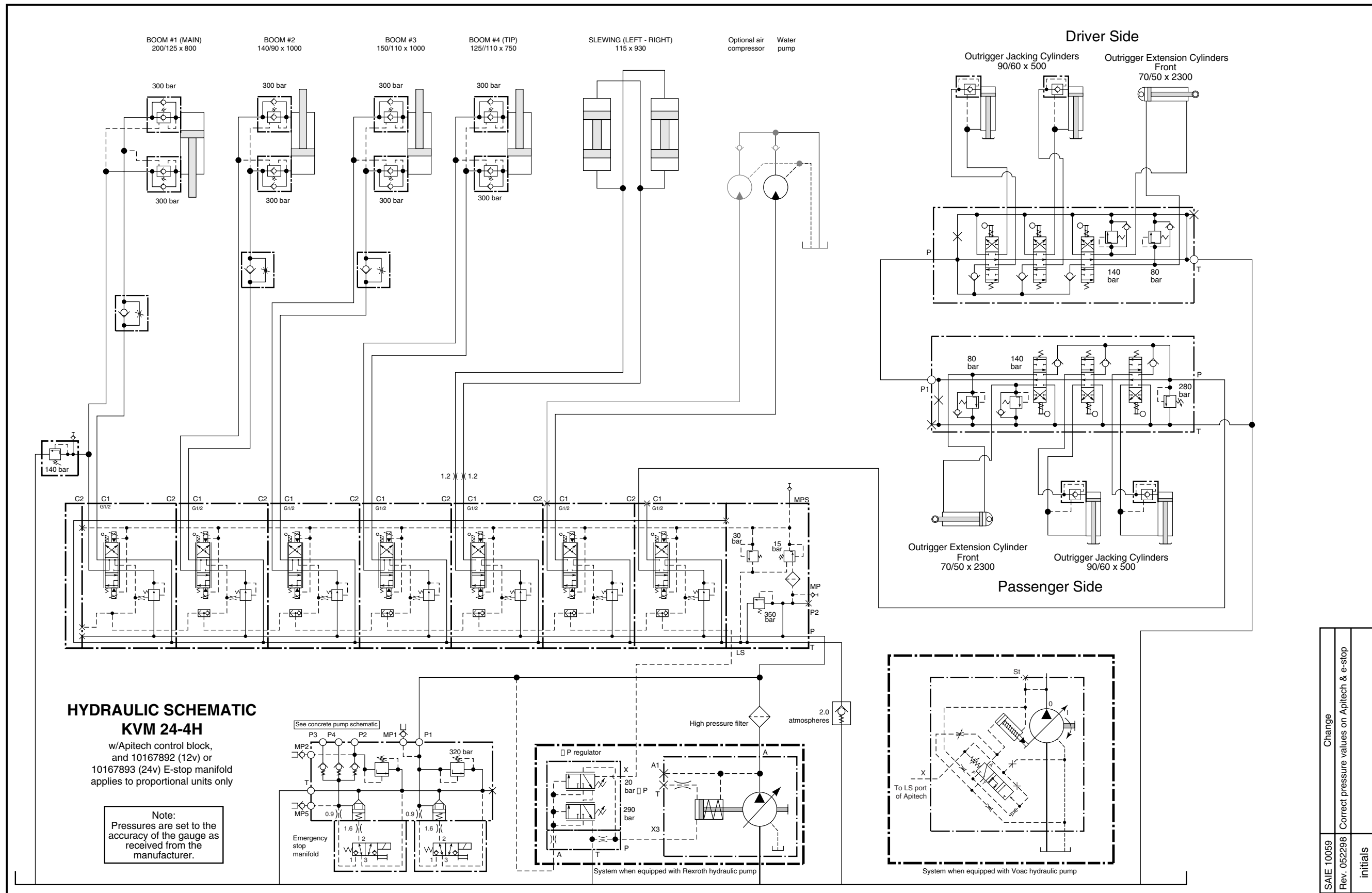
10045016

KVM 23-4, KVM 24-4, BLACK & WHITE



zugehörige H-Plan-Legende Art.-Nr.: 147638

Format: 2			Datum: 24.04.84			Name: Schmitt.			Werkstoff: -			Benennung: H-Plan KVM 23-4H			Zeichnung-Nr.: 790016504030			Art.-Nr.: 10045016		
Gezeichnet			Gepflegt			Norgeprüft			Gewicht (kg): -			S-W			Ers. durch: -			Blatt-Nr.:		
B 11.11.94			Roth						Maßstab: 1:1			sep. RW-Pumpe			Ers. für: -			Ung.-Datum		
verf. Ä.-Z.			Datum			Name			verf. Ä.-Z.			Datum			Name			SCHWING		
CAD - ERSTELLT												Schutzvermerk DIN 34-1-0 Copyright reserved Schwing GmbH								

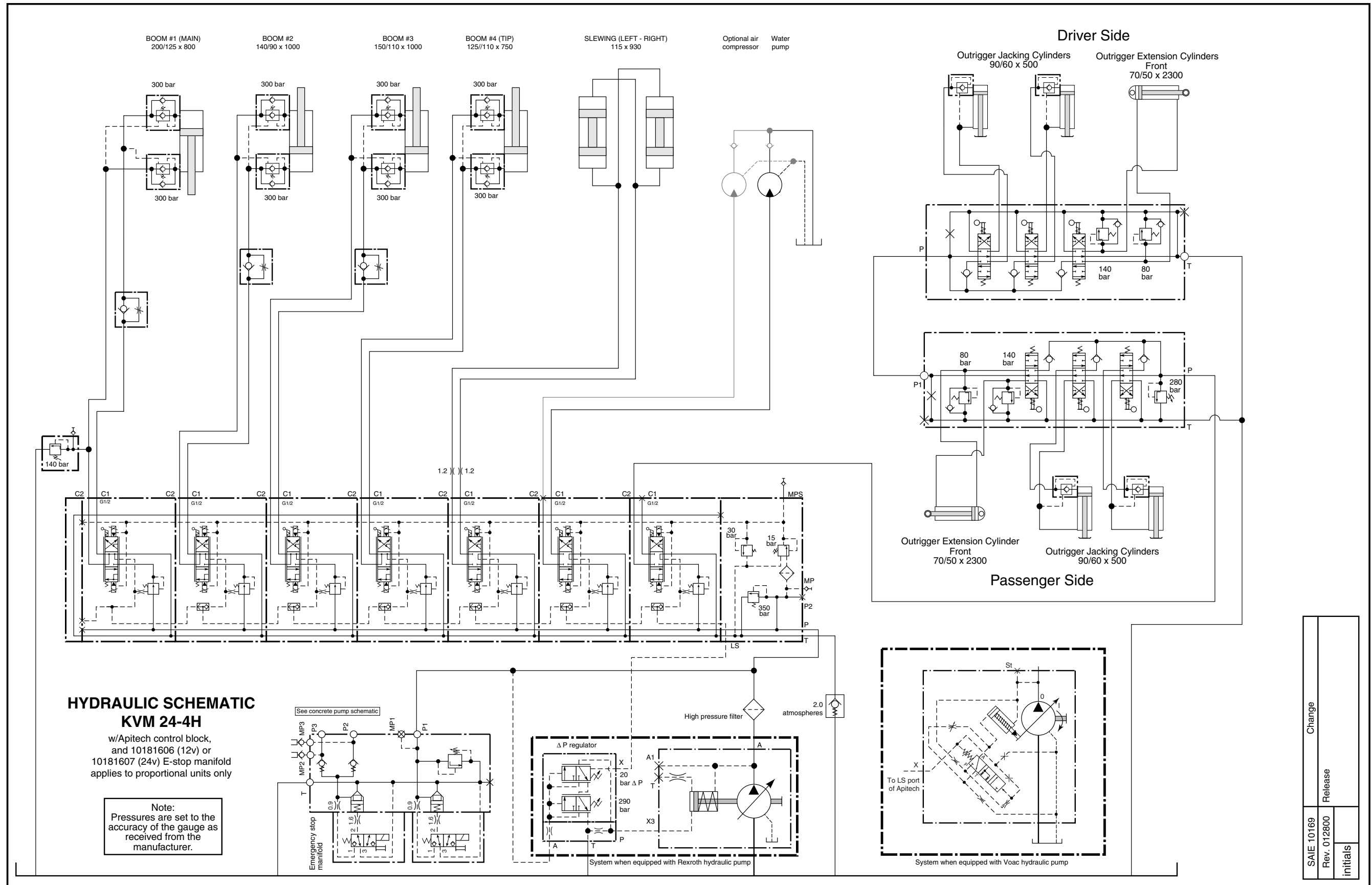


**HYDRAULIC SCHEMATIC
KVM 24-4H**

w/Apitech control block,
and 10167892 (12v) or
10167893 (24v) E-stop manifold
applies to proportional units only

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

SAIE 10059	Change
Rev. 052298	Correct pressure values on Apitech & e-stop
initials	



**HYDRAULIC SCHEMATIC
KVM 24-4H**

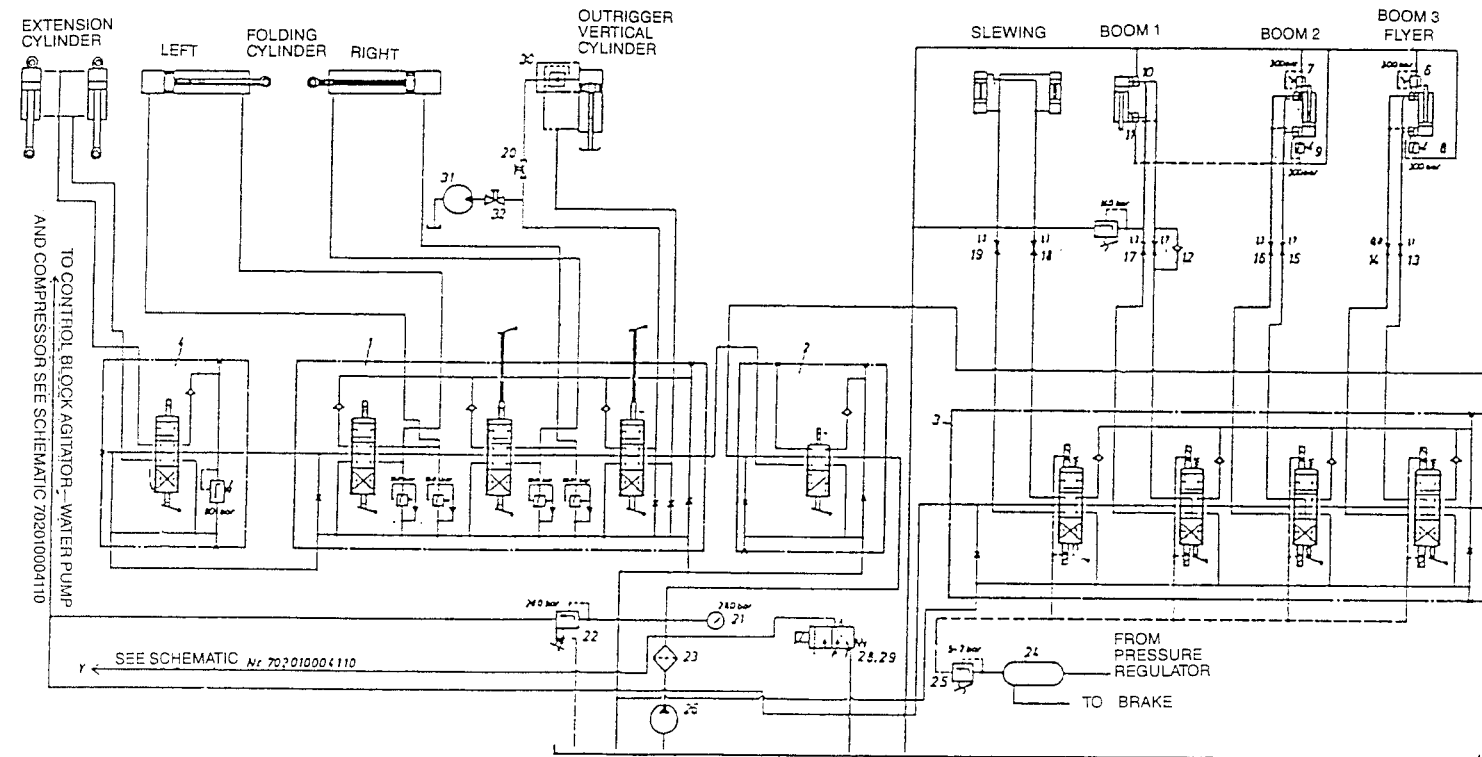
w/ Apitech control block,
and 10181606 (12v) or
10181607 (24v) E-stop manifold
applies to proportional units only

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

SAIE 10169	Change
Rev. 012800	Release
initials	

HYDRAULIC SCHEMATICS

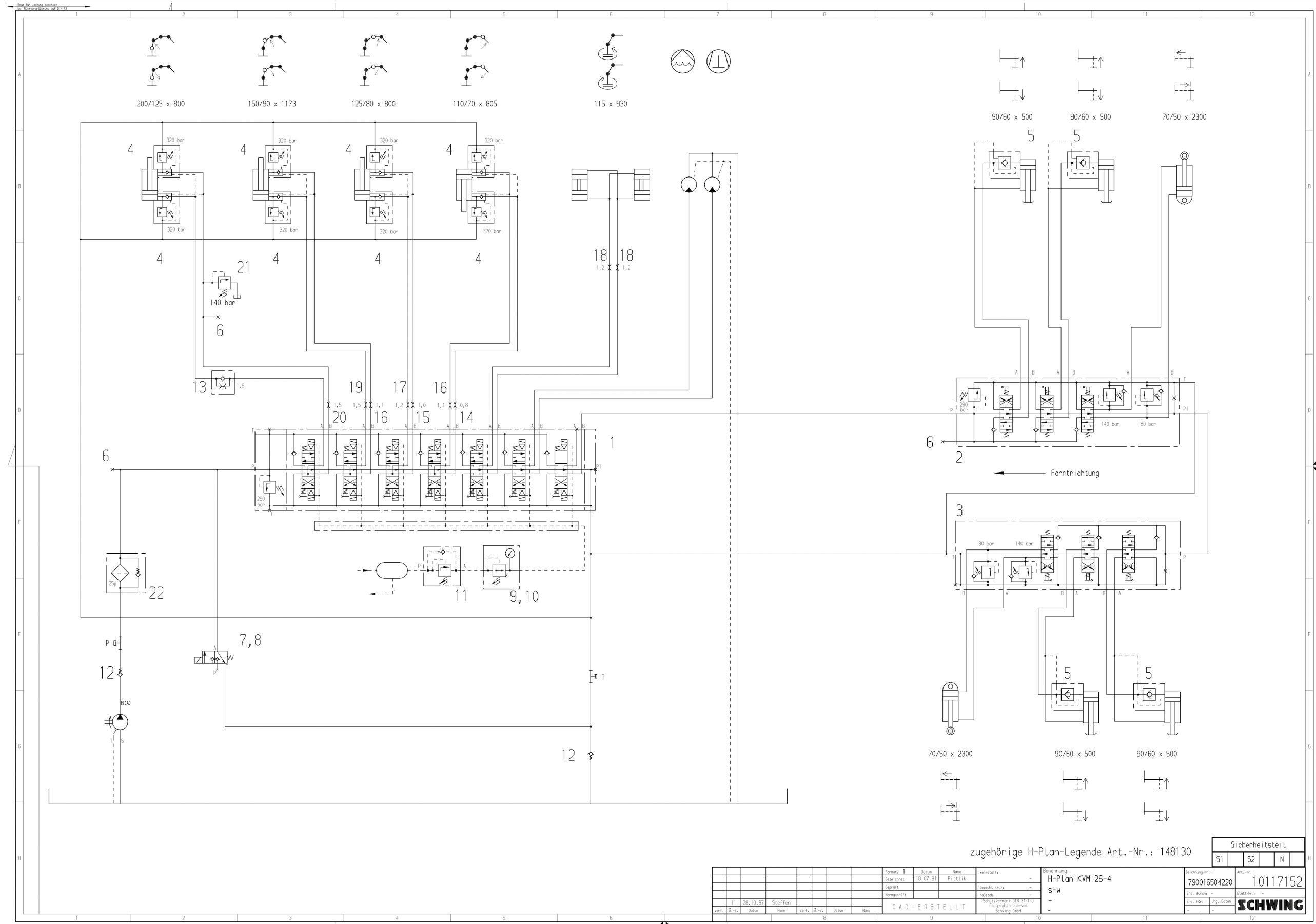
KVM 25M, BLACK & WHITE



POSITION	DESCRIPTION	POSITION	DESCRIPTION	POSITION	DESCRIPTION
1	Control Block HV07-3005 BRD	12	Throttle Check Valve R1/2-1.7 mm EV 770000	23	Pressure Filter
2	Control Block HV07-1010 BRD	13	Orifice 1.1 mm H EV302000	24	Storage Tank
3	Control Block HV07-4010 BRD	14	Orifice 0.8 mm G EV302000	25	Relief Valve
4	Control Block HV07- BRD	15	Orifice 1.7 mm D EV302000	26	Hydraulic Pump
5	Pressure Limiting Valve SVL-R3/8-140 bar	16	Orifice 1.3 mm C EV302000	27	
6	Hydraulic Unlocking Check Valve HER-SV2-R1/2 300 bar	17	Orifice 1.3 mm C EV302000	28	
7	Hydraulic Unlocking Check Valve HER-SV2-R1/2 300 bar	18	Orifice 1.3 mm C EV302000	29	Connecting Plate G66/1 R3/8
8	Hydraulic Unlocking Check Valve HER-SV2-R1/2 300 bar	19	Orifice 1.3 mm C EV302000	30	Hydraulic Unlocking Check Valve HERF-1-10
9	Hydraulic Unlocking Check Valve HER-SV2-R1/2 300 bar	20	Manitrol Valve	31	Motor Compressor—Optional
10	Hydraulic Unlocking Check Valve HER-4-R1/2	21	Gauge 0-600 bar	32	Manitrol Valve—Optional
11	Hydraulic Unlocking Check Valve HER-4-R1/2	22			

117152

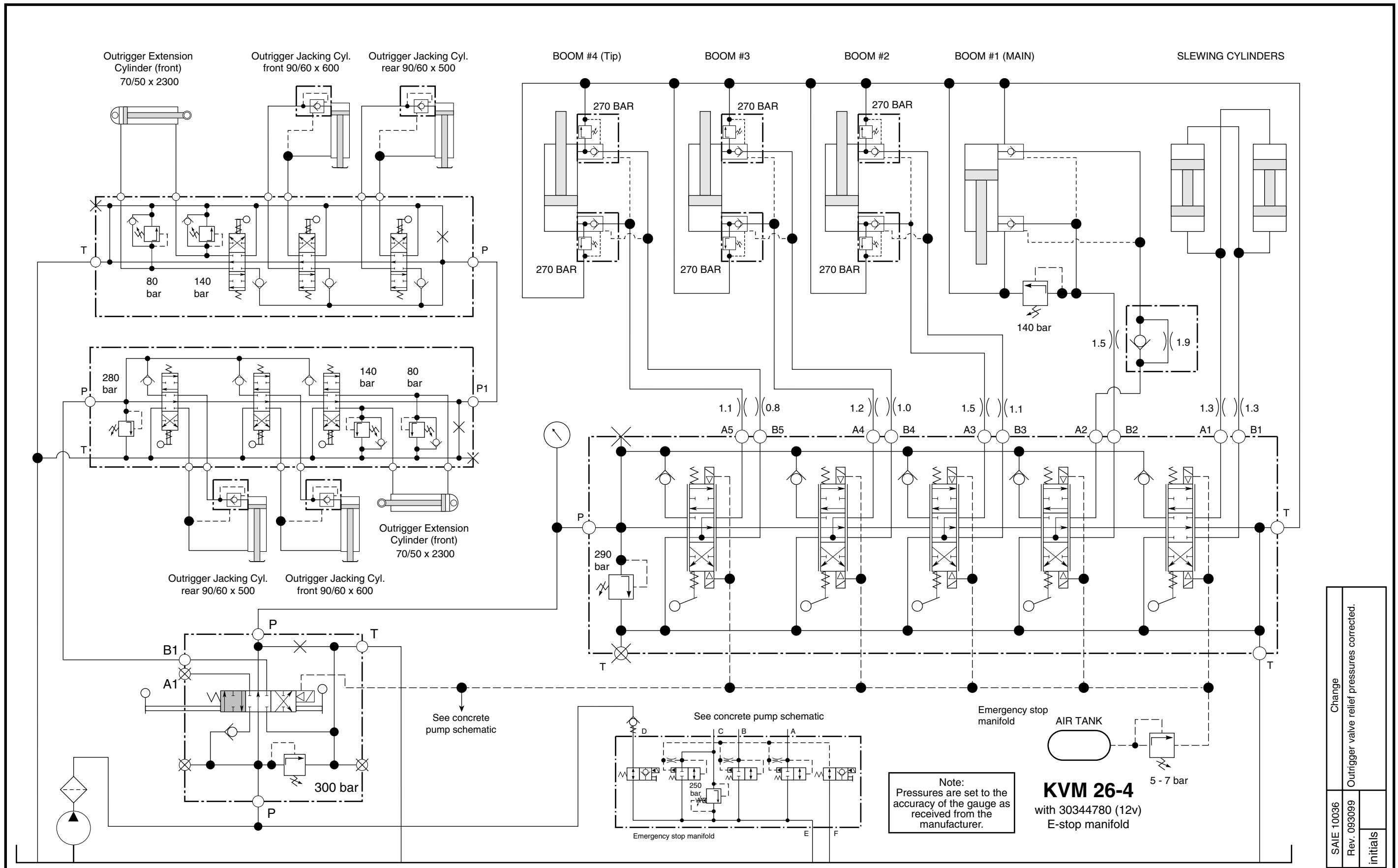
KVM 26-4, BLACK & WHITE



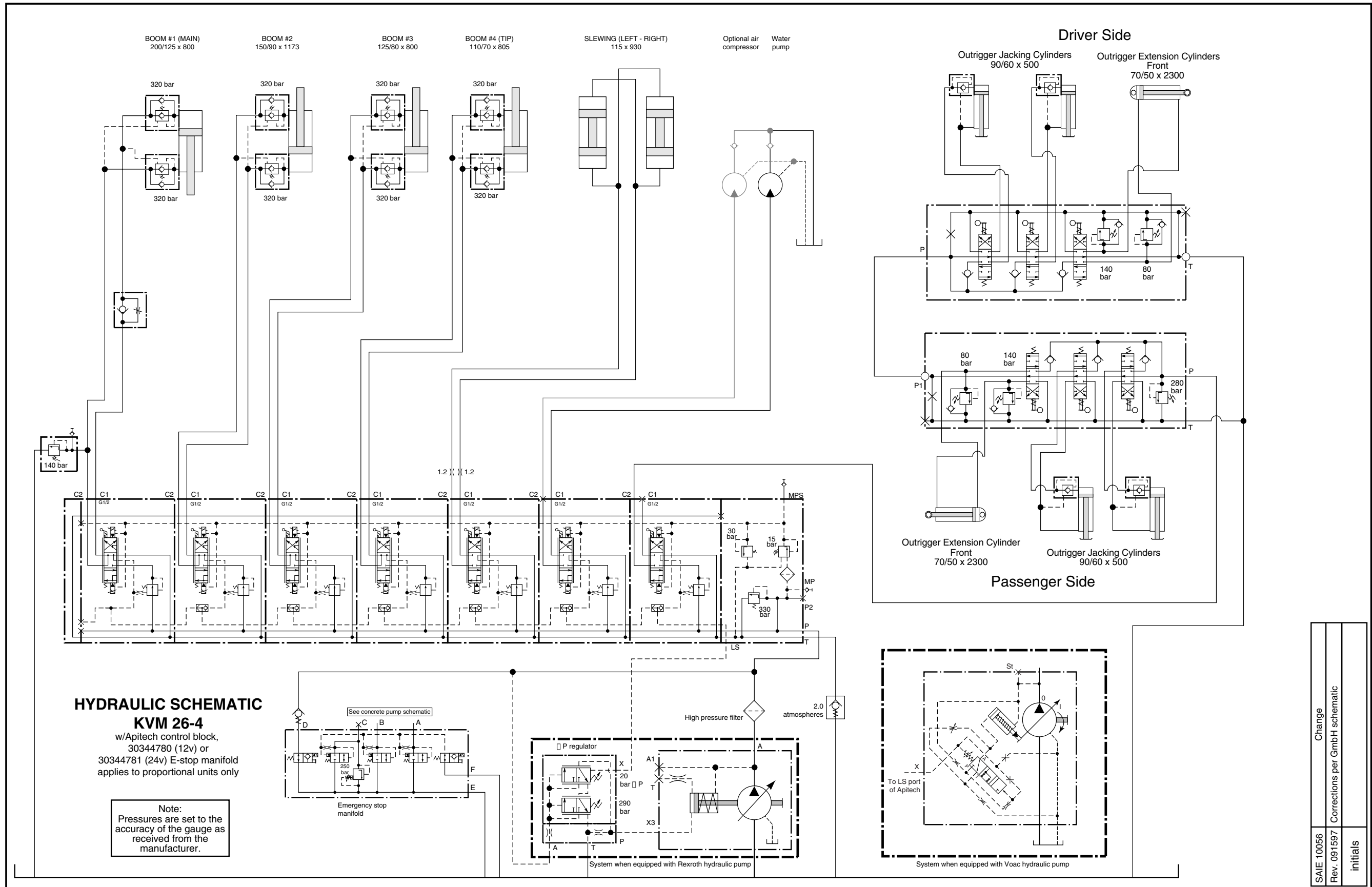
zugehörige H-Plan-Legende Art.-Nr.: 148130

Sicherheitsteil			
S1	S2	N	
Bestellungs-Nr.: 790016504220		Art.-Nr.: 10117152	
Ers. durch:		Blatt-Nr.:	
Ers. für:		Ung.-Datum:	
SCHWING			

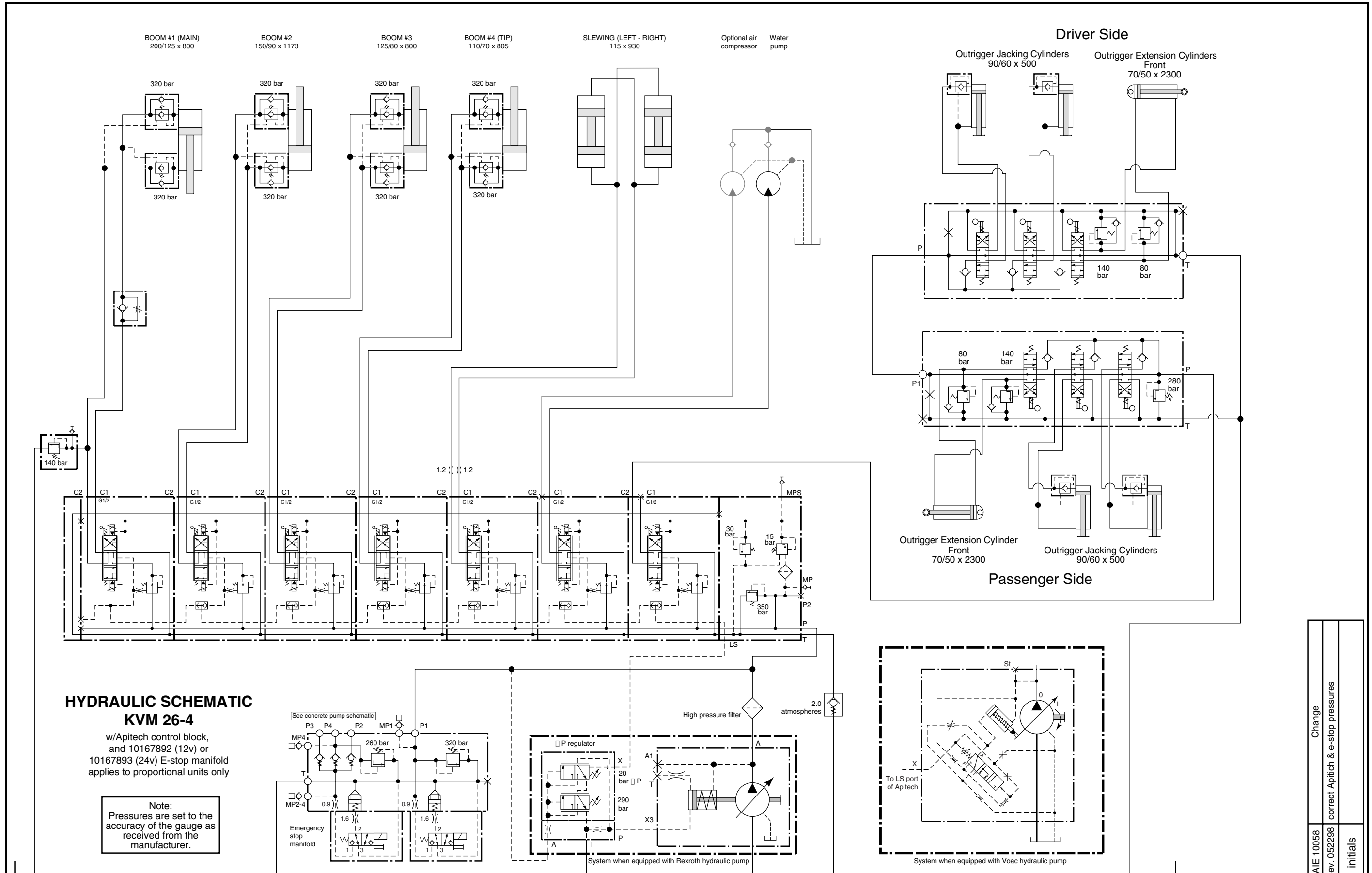
Formel: 1	Datum: 18.07.91	Name: Pictelli	Werkstoff: -	Benennung: H-Plan KVM 26-4
Gezeichnet:			Gewicht: kg: -	S-W
Geprüft:			Nähte: -	
Nachgef.:			Schulzennr.: 01W 341-B	
CAD - ERSTELLT			Copyright reserved Schwing GmbH	



SAIE 10036	Change
Rev. 093099	Outrigger valve relief pressures corrected.
initials	



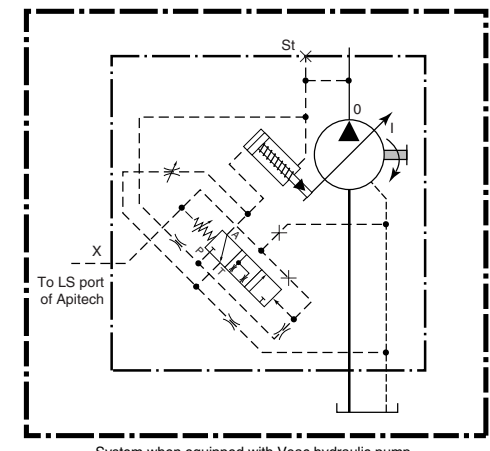
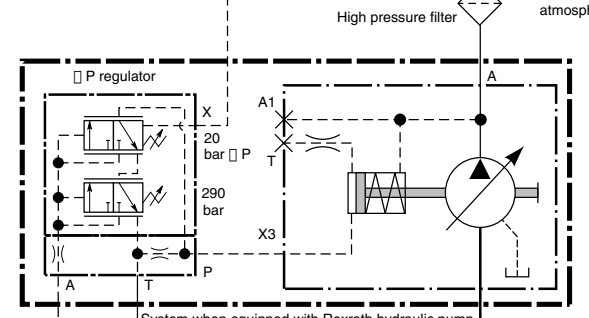
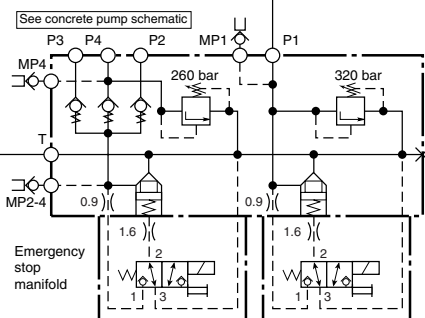
SALE 10056	Change
Rev. 091597	Corrections per GmbH schematic
	initials



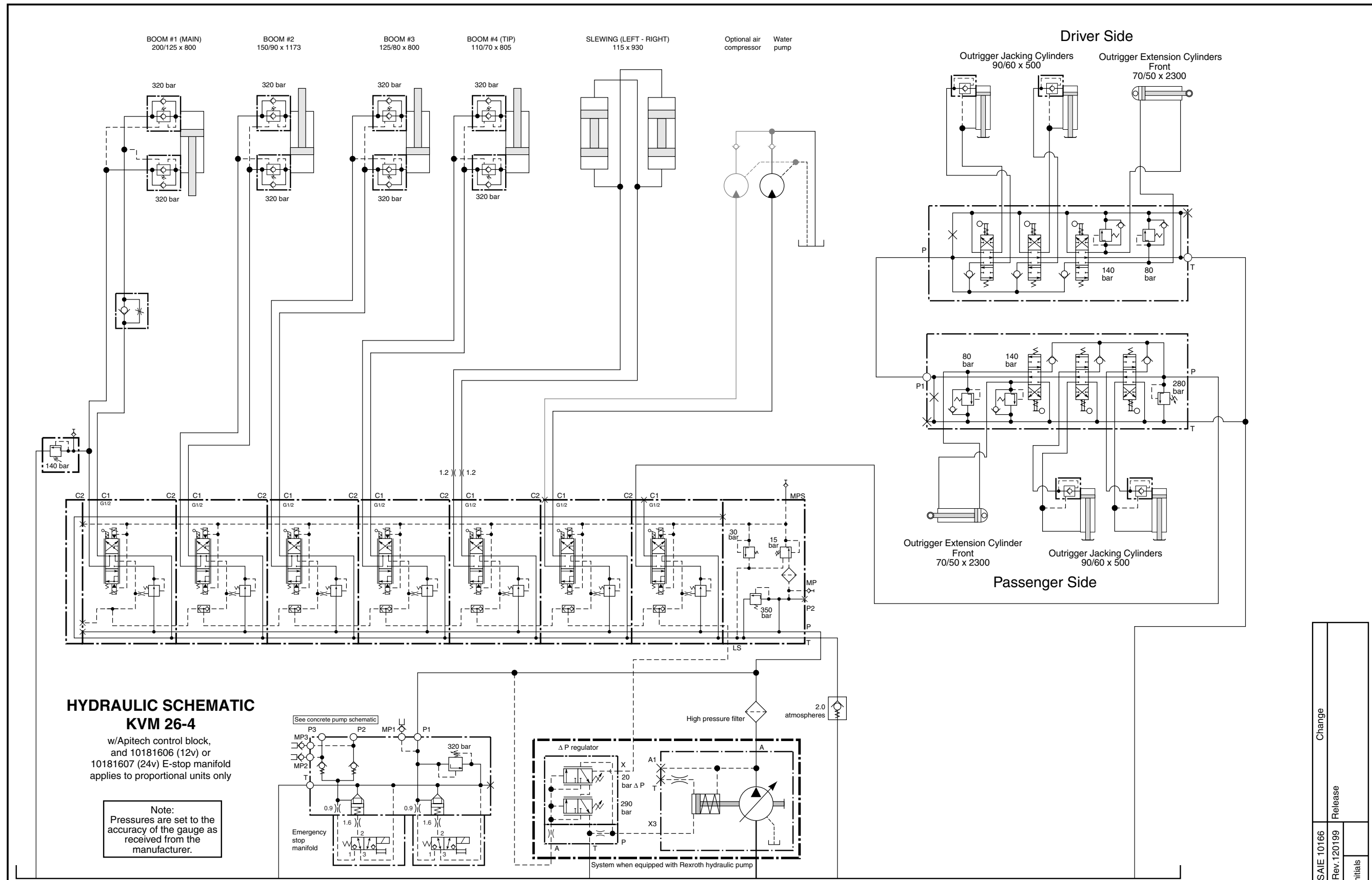
**HYDRAULIC SCHEMATIC
KVM 26-4**

w/Apitech control block,
and 10167892 (12v) or
10167893 (24v) E-stop manifold
applies to proportional units only

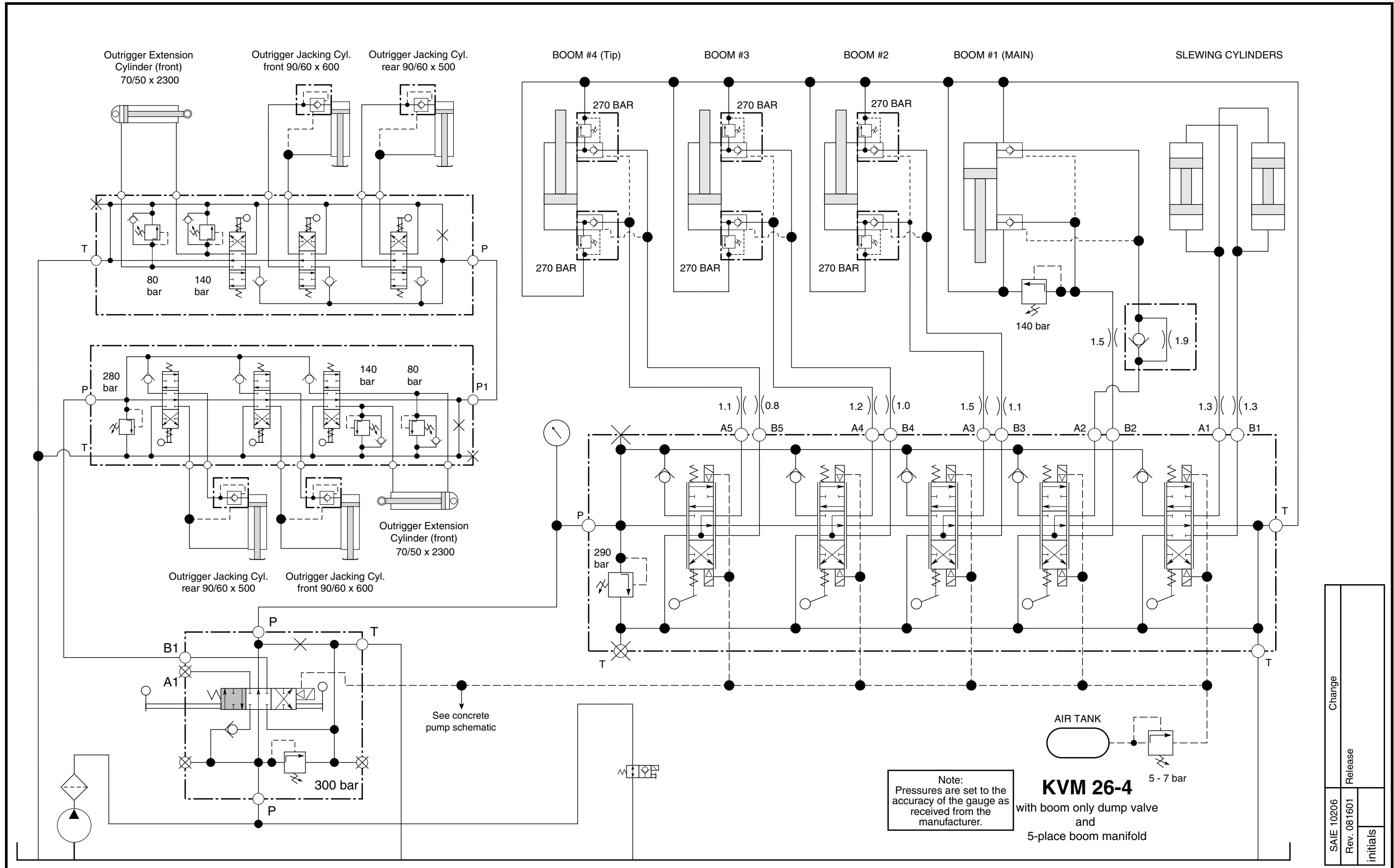
Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.



SAIE 10058	Change
Rev. 052298	correct Apitech & e-stop pressures
	initials

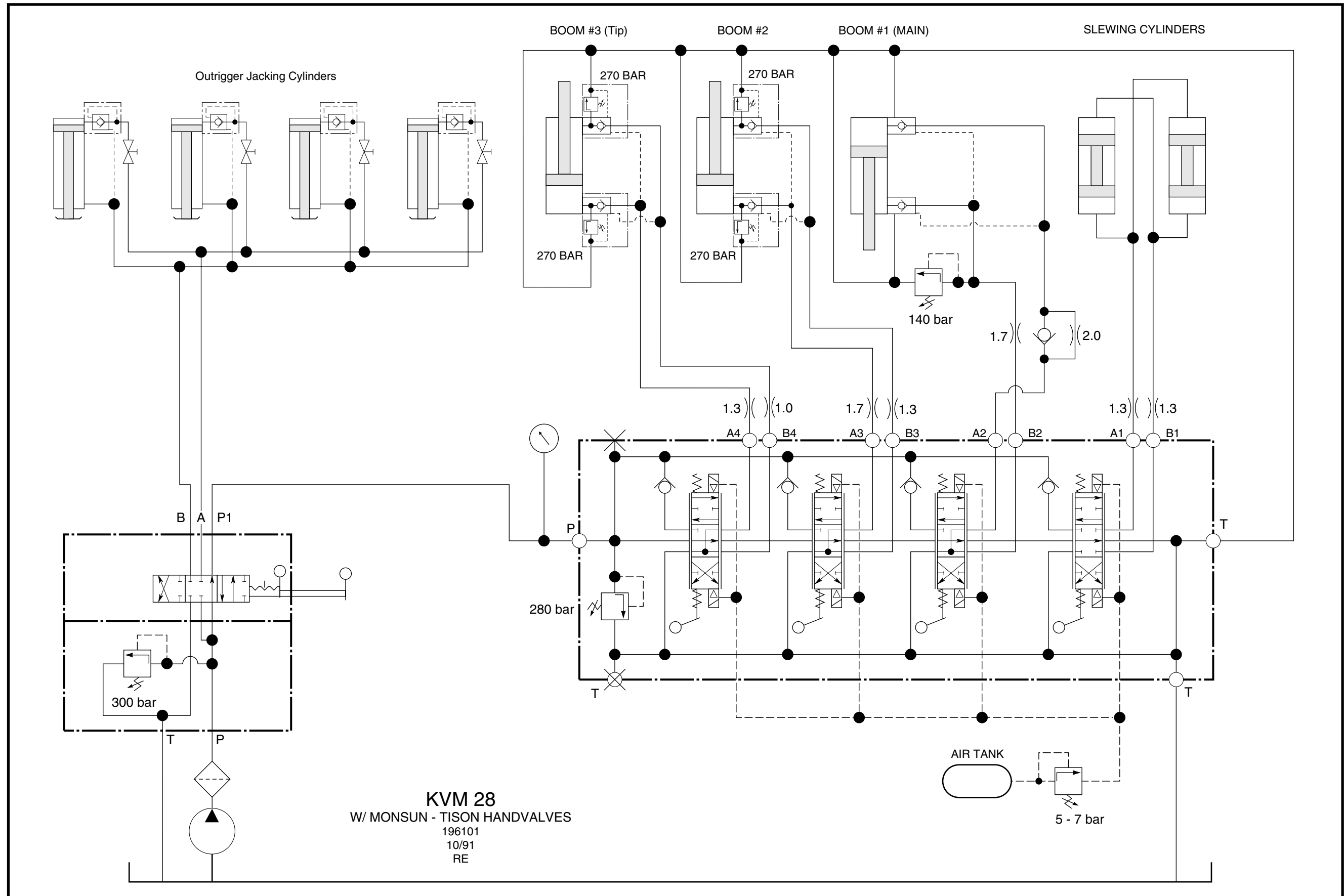


SAIE 10166	Change
Rev. 120199	Release
	initials



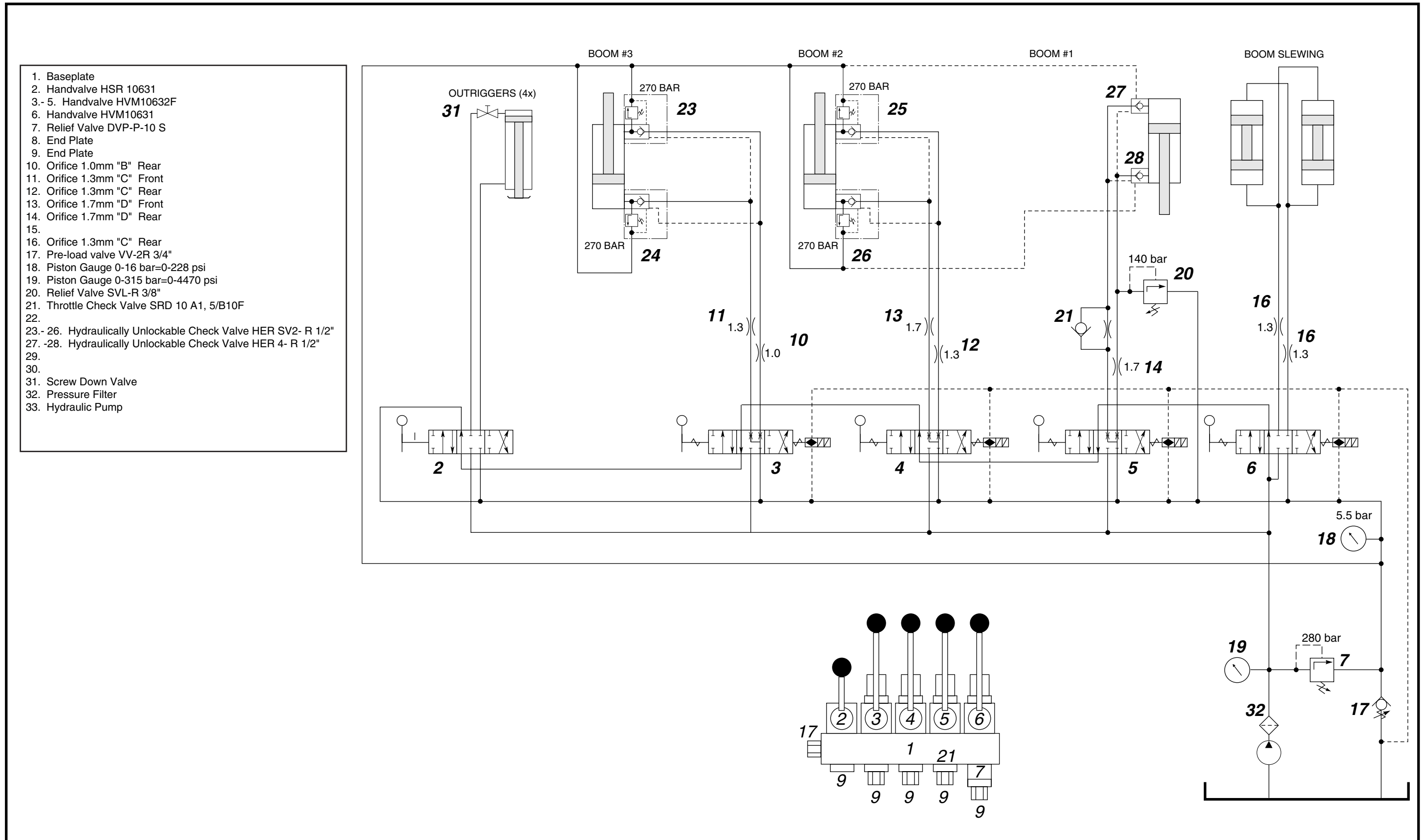
N/A

KVM 28M, MONSUN-TISON HAND VALVES (air over oil), BLACK & WHITE

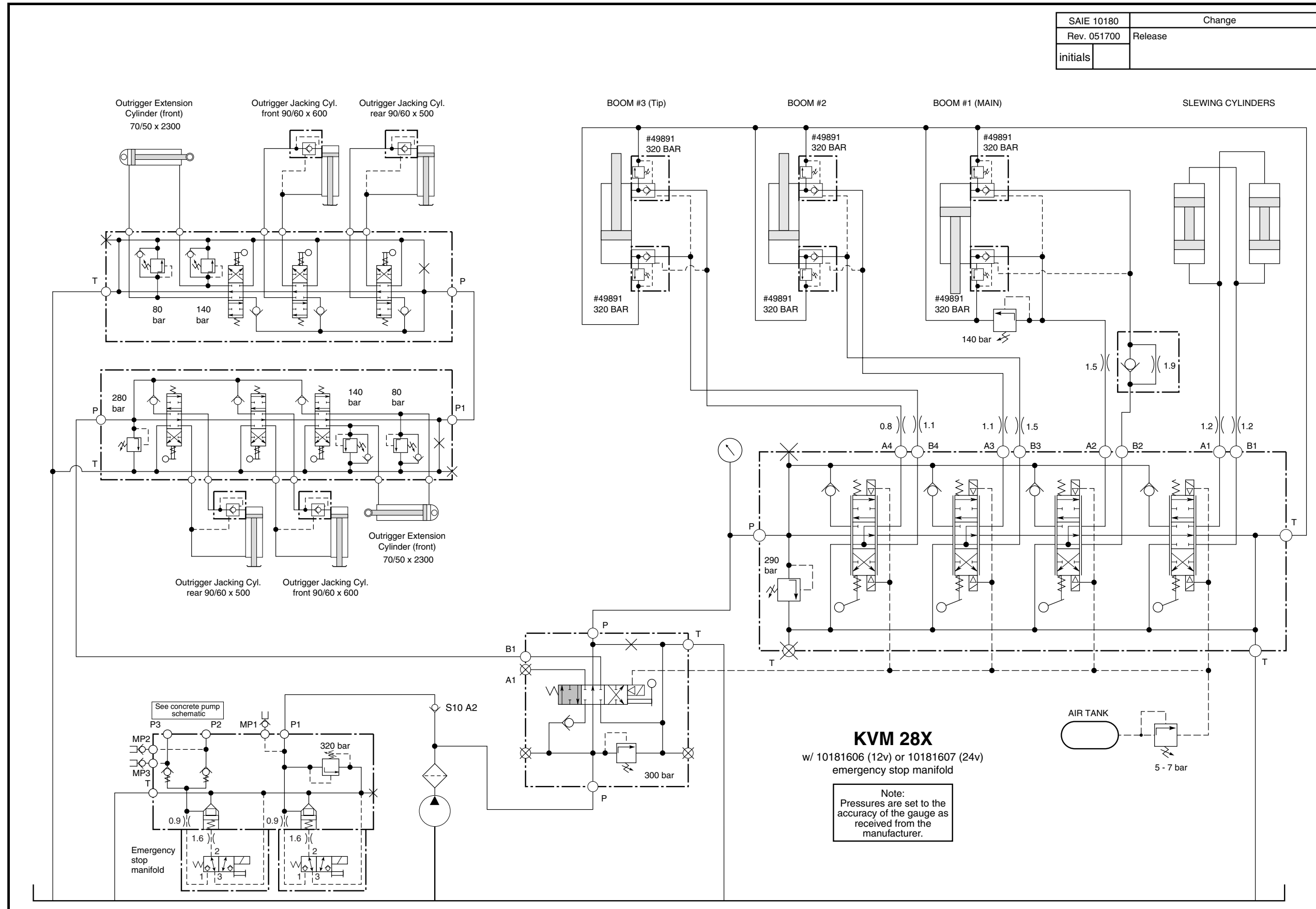


N/A

KVM 28M, HYDREL HAND VALVES (5 place manifold), BLACK & WHITE



SAIE 10180	Change
Rev. 051700	Release
initials	

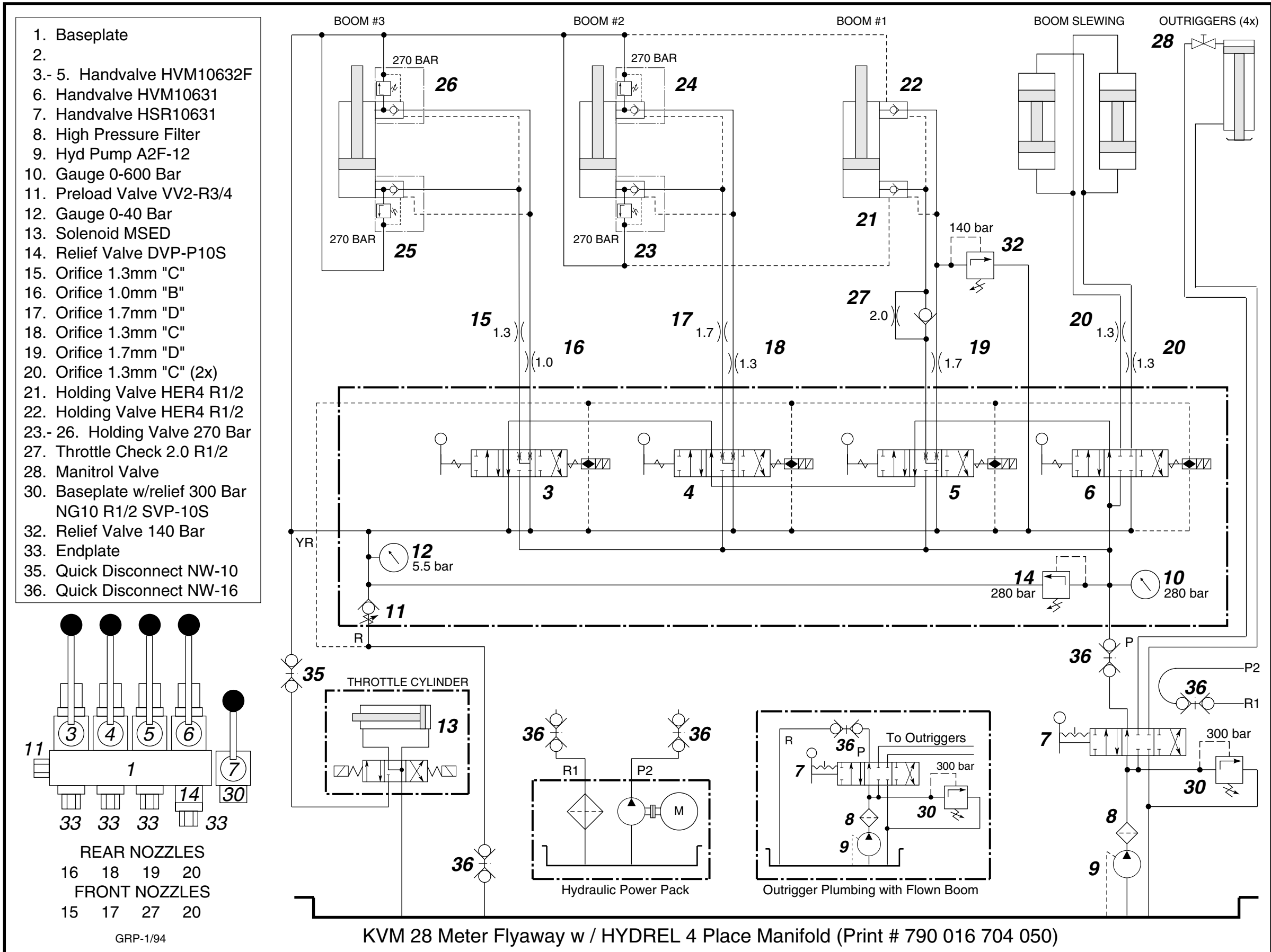


KVM 28X
w/ 10181606 (12v) or 10181607 (24v)
emergency stop manifold

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

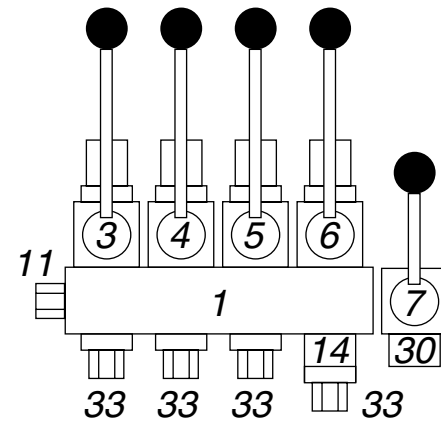
N/A

KVM 28M FLYAWAY, HYDREL (4 place manifold), BLACK & WHITE



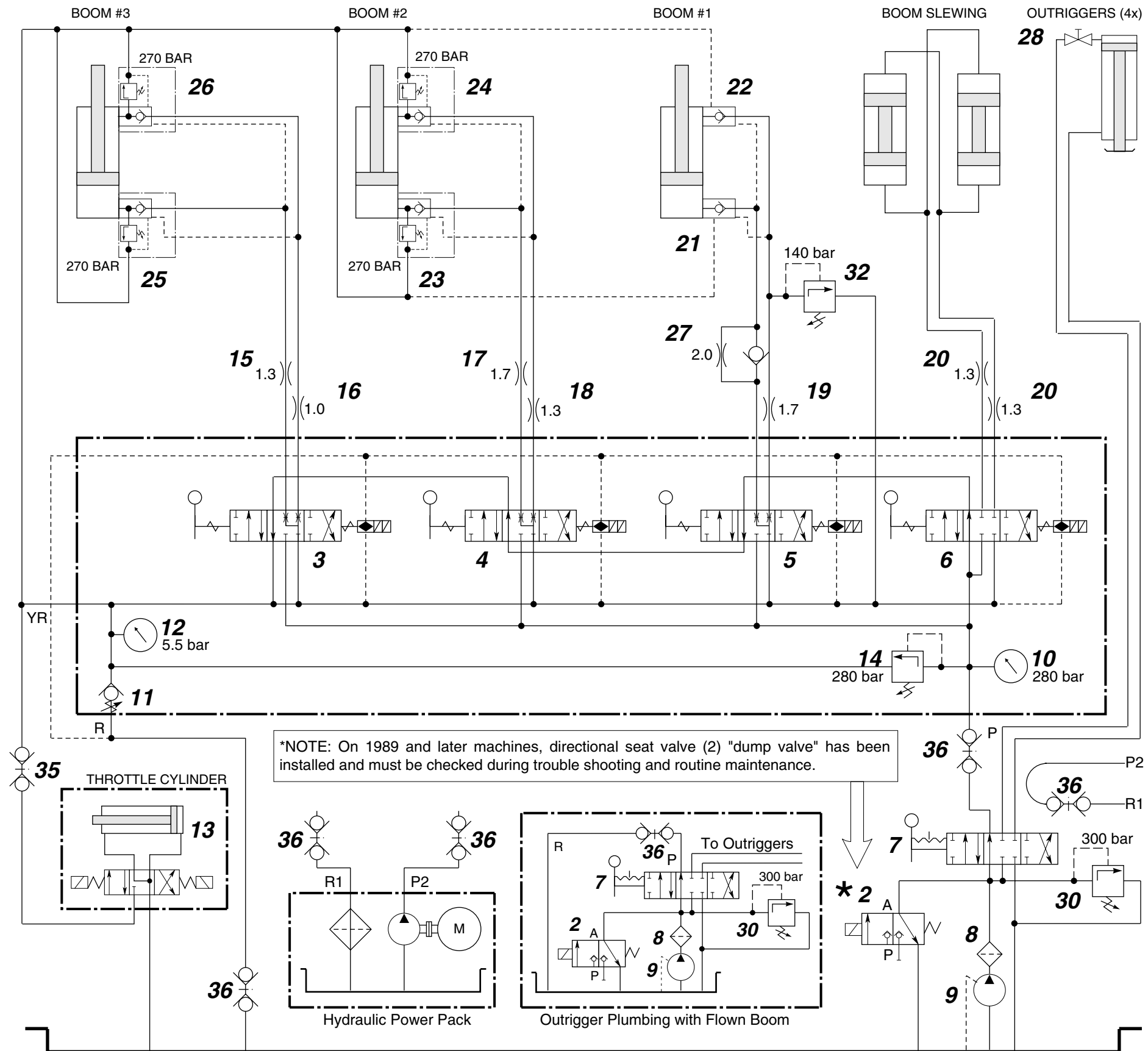
KVM 28M FLYAWAY, HYDREL (4 place manifold) & DUMP VALVE, BLACK & WHITE

1. Baseplate
2. Directional Seat Valve *
- 3.- 5. Handvalve HVM10632F
6. Handvalve HVM10631
7. Handvalve HSR10631
8. High Pressure Filter
9. Hyd Pump A2F-12
10. Gauge 0-600 Bar
11. Preload Valve VV2-R3/4
12. Gauge 0-40 Bar
13. Solenoid MSED
14. Relief Valve DVP-P10S
15. Orifice 1.3mm "C"
16. Orifice 1.0mm "B"
17. Orifice 1.7mm "D"
18. Orifice 1.3mm "C"
19. Orifice 1.7mm "D"
20. Orifice 1.3mm "C" (2x)
21. Holding Valve HER4 R1/2
22. Holding Valve HER4 R1/2
- 23.- 26. Holding Valve 270 Bar
27. Throttle Check 2.0 R1/2
28. Manitol Valve
30. Baseplate w/relief 300 Bar NG10 R1/2 SVP-10S
32. Relief Valve 140 Bar
33. Endplate
35. Quick Disconnect NW-10
36. Quick Disconnect NW-16



REAR NOZZLES
16 18 19 20
FRONT NOZZLES
15 17 27 20

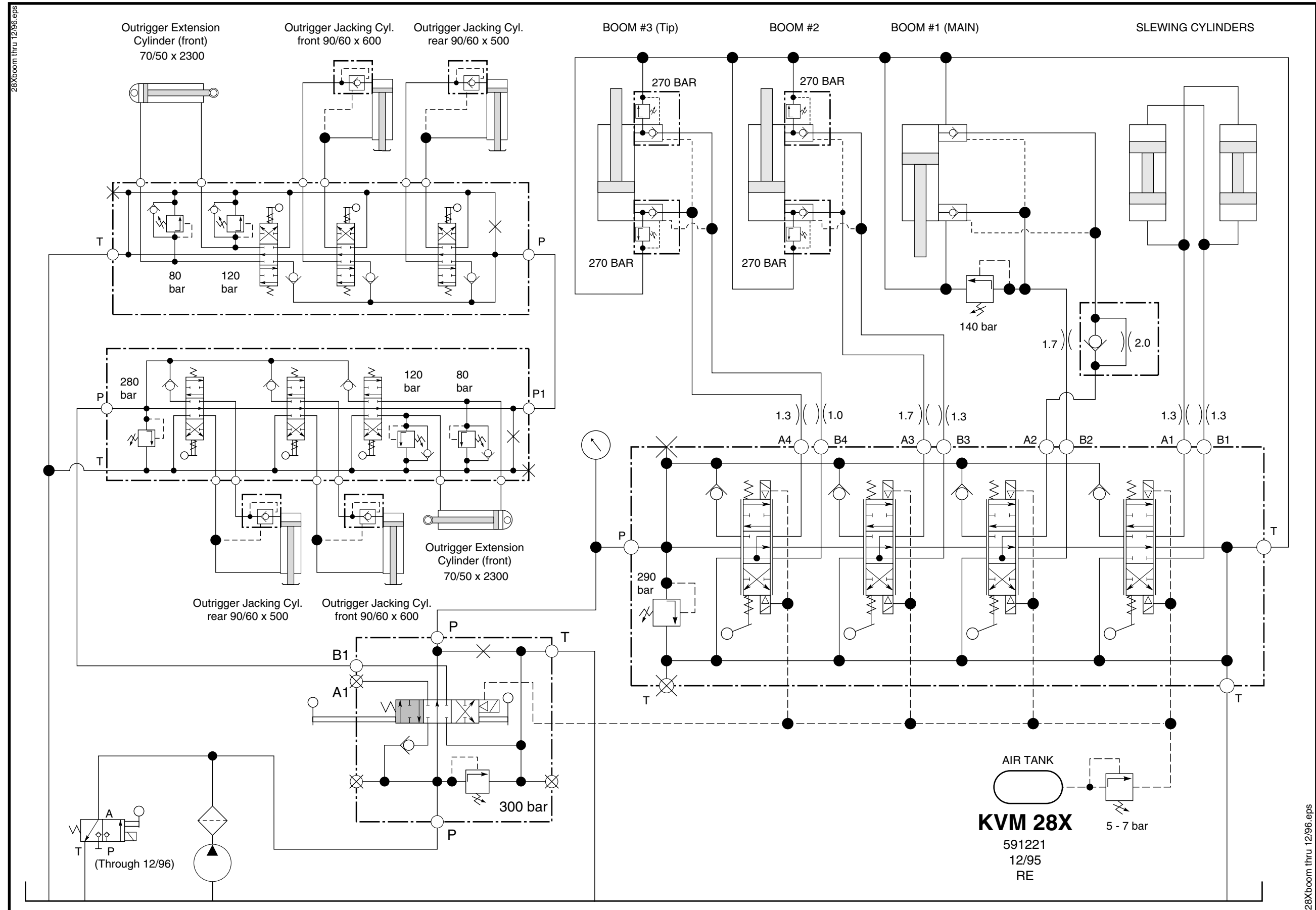
GRP-1/94

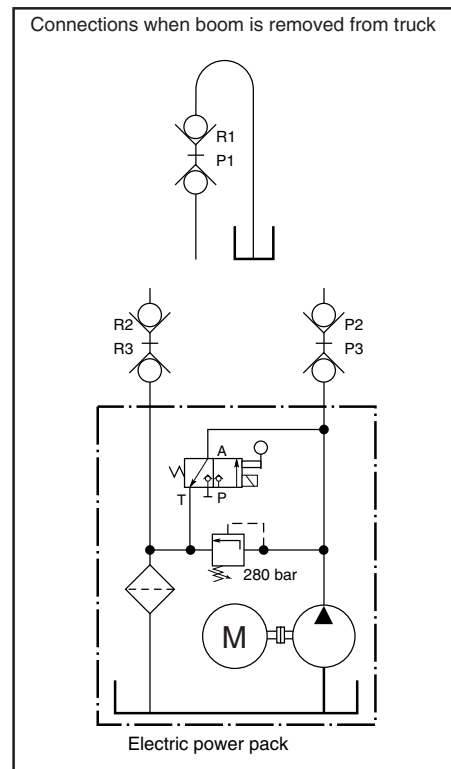
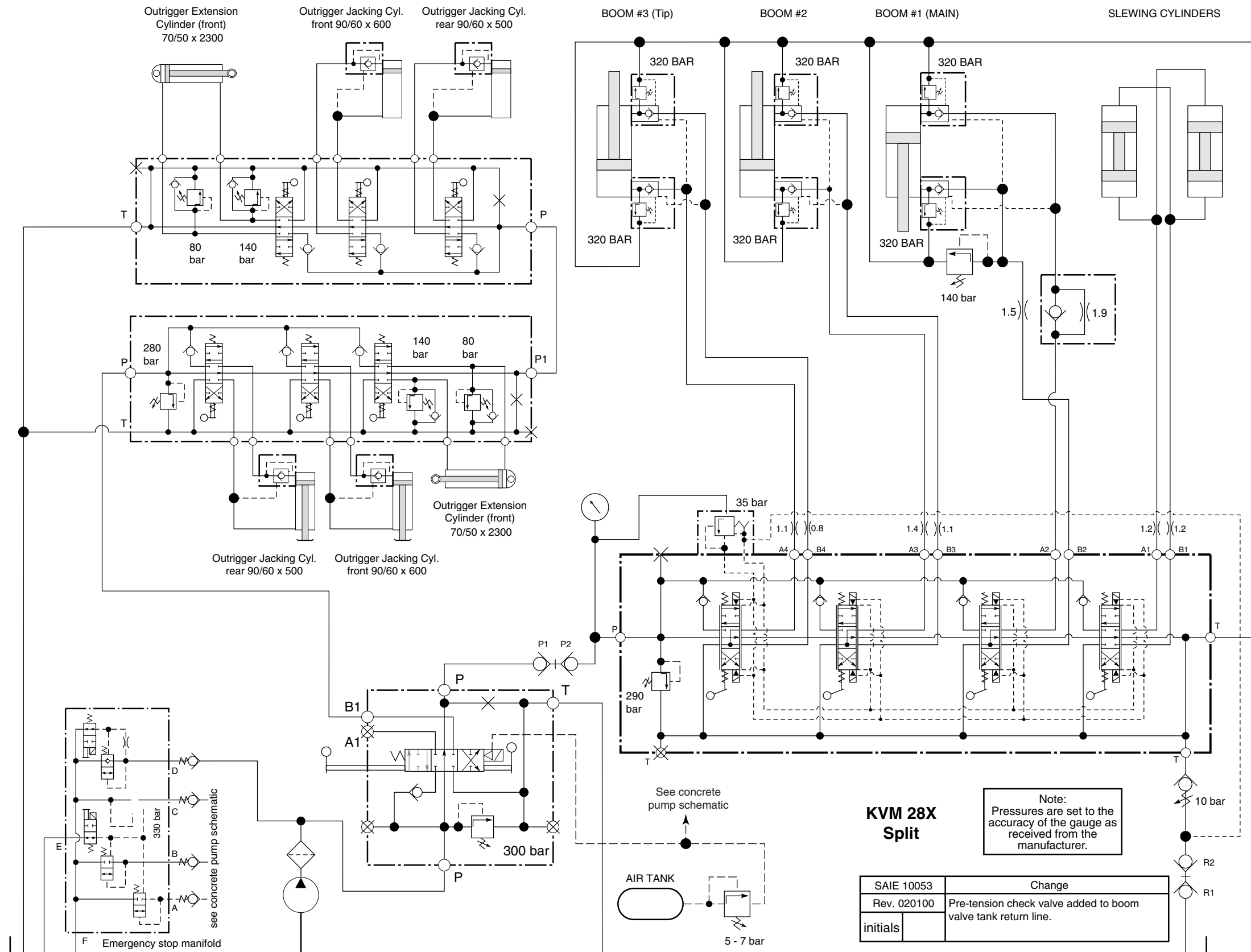


KVM 28 Meter Flyaway w / HYDREL 4 Place Manifold (Print # N/A)

N/A

KVM 28X BOOM CIRCUIT, BLACK & WHITE

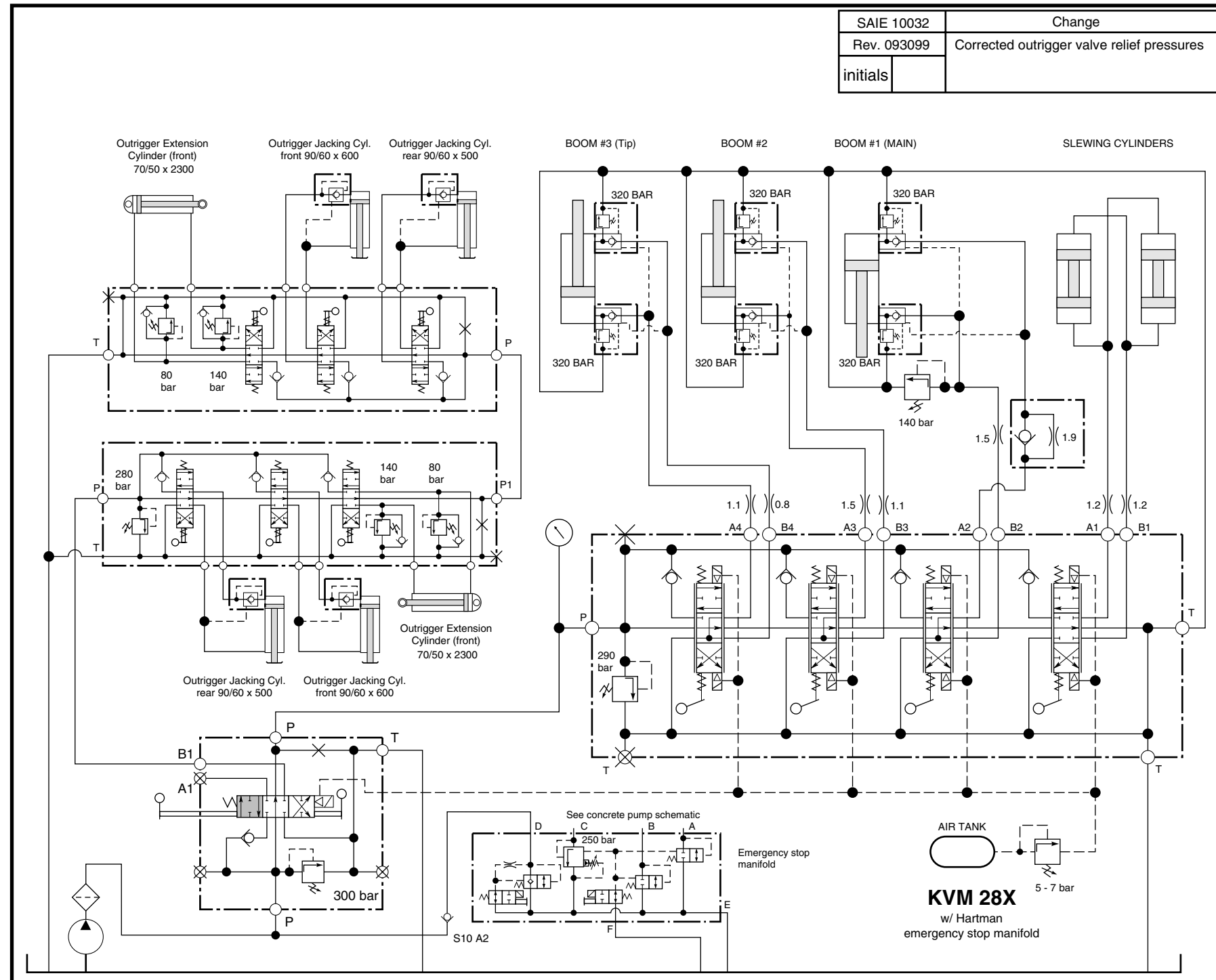




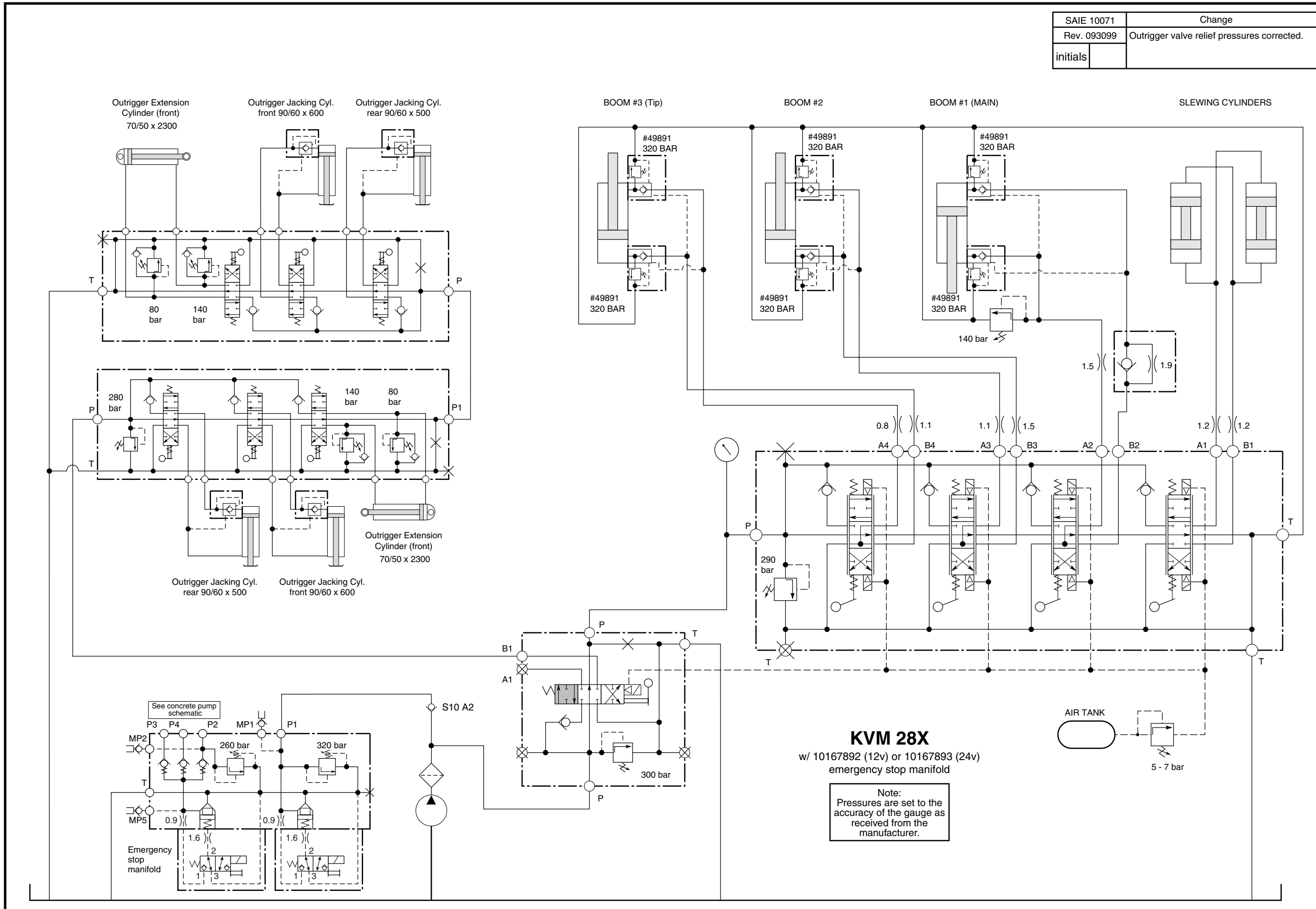
KVM 28X Split

Note: Pressures are set to the accuracy of the gauge as received from the manufacturer.

SAIE 10053	Change
Rev. 020100	Pre-tension check valve added to boom valve tank return line.
initials	



SAIE 10071	Change
Rev. 093099	Outrigger valve relief pressures corrected.
initials	



KVM 28X
w/ 10167892 (12v) or 10167893 (24v)
emergency stop manifold

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

SAIE 10165	Change
Rev. 120199	Release
initials	

BOOM #1 (MAIN)
200/125 x 800

BOOM #2
140/90 x 1173

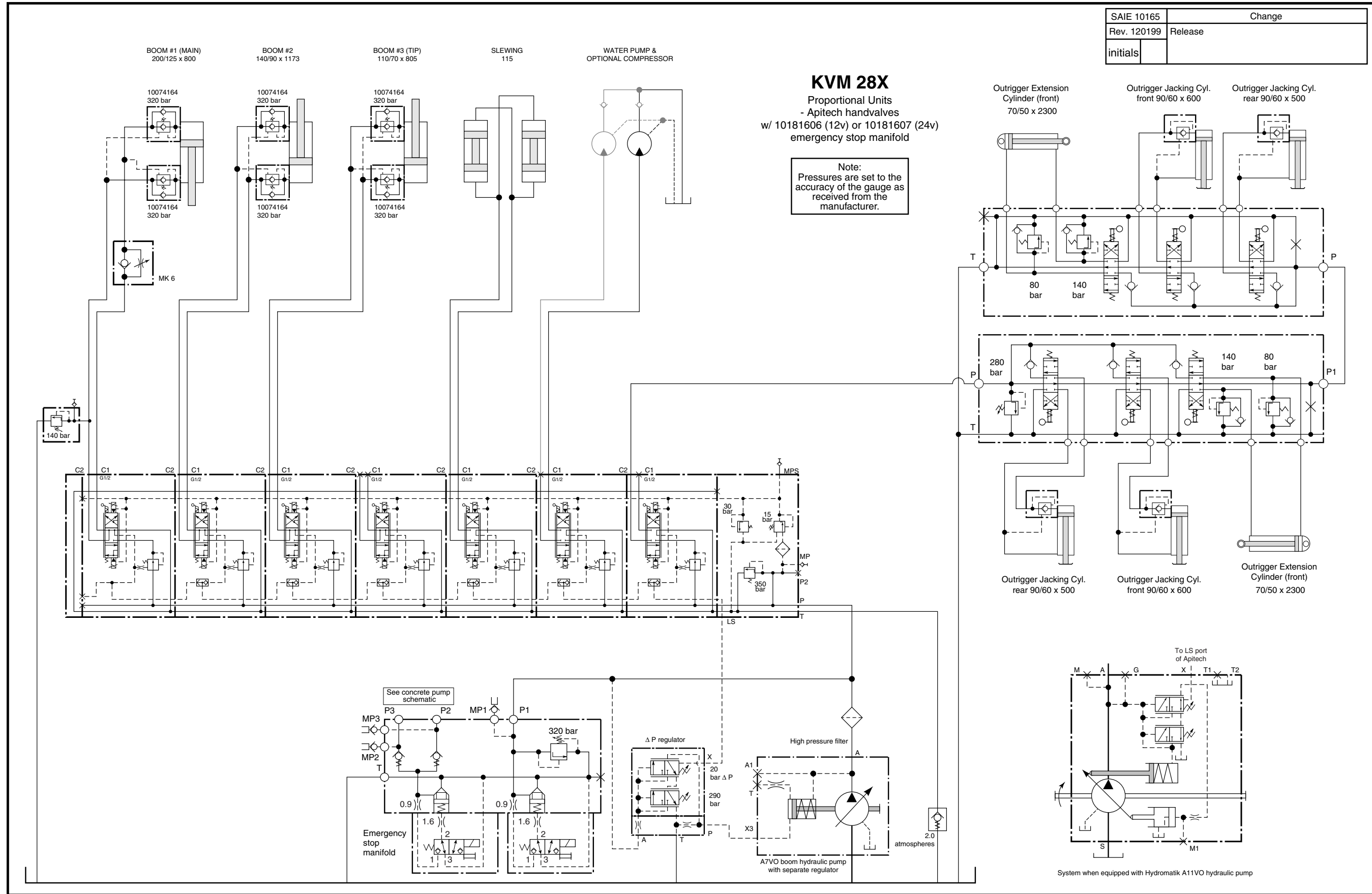
BOOM #3 (TIP)
110/70 x 805

SLEWING
115

WATER PUMP &
OPTIONAL COMPRESSOR

KVM 28X
Proportional Units
- Apitech handvalves
w/ 10181606 (12v) or 10181607 (24v)
emergency stop manifold

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.



Outrigger Extension
Cylinder (front)
70/50 x 2300

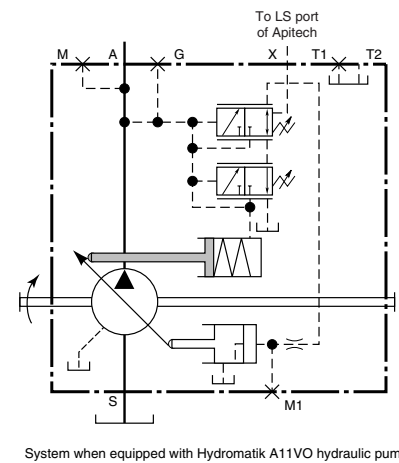
Outrigger Jacking Cyl.
front 90/60 x 600

Outrigger Jacking Cyl.
rear 90/60 x 500

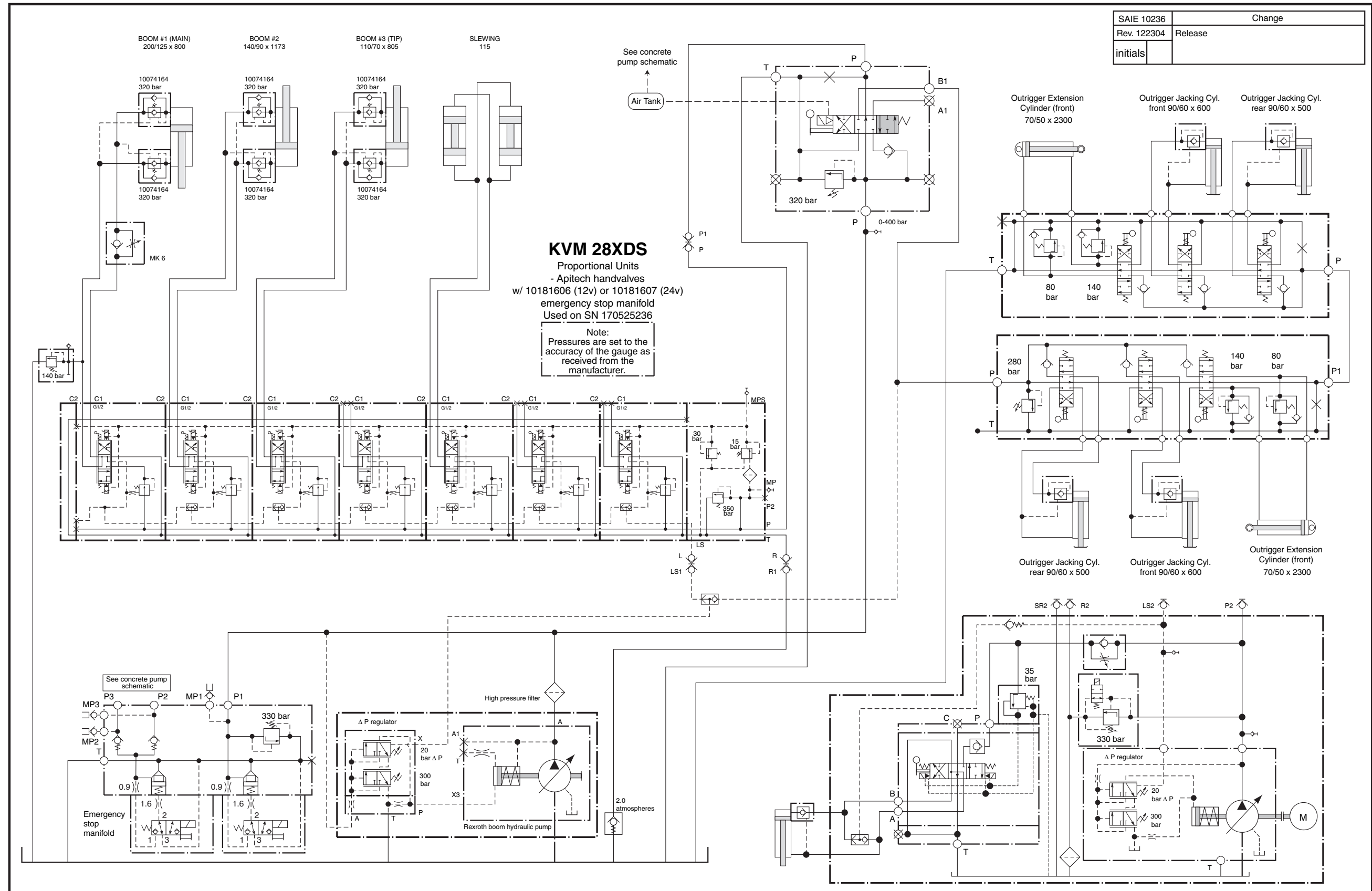
Outrigger Jacking Cyl.
rear 90/60 x 500

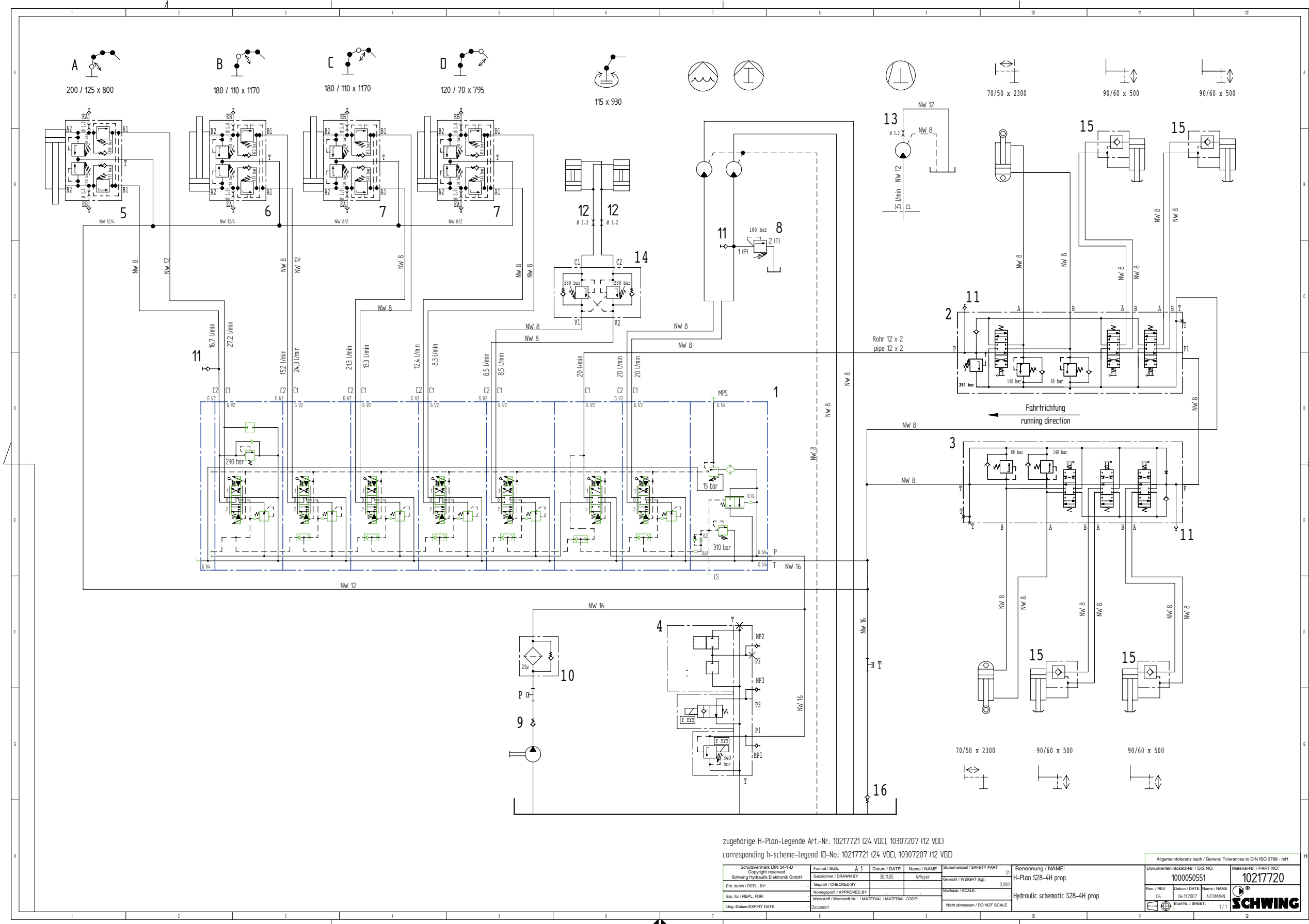
Outrigger Jacking Cyl.
front 90/60 x 600

Outrigger Extension
Cylinder (front)
70/50 x 2300



System when equipped with Hydramatik A11VO hydraulic pump



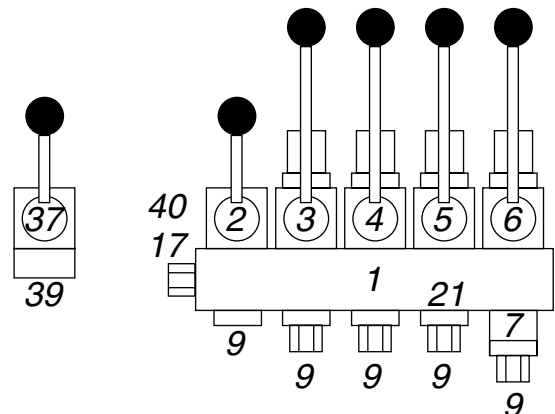
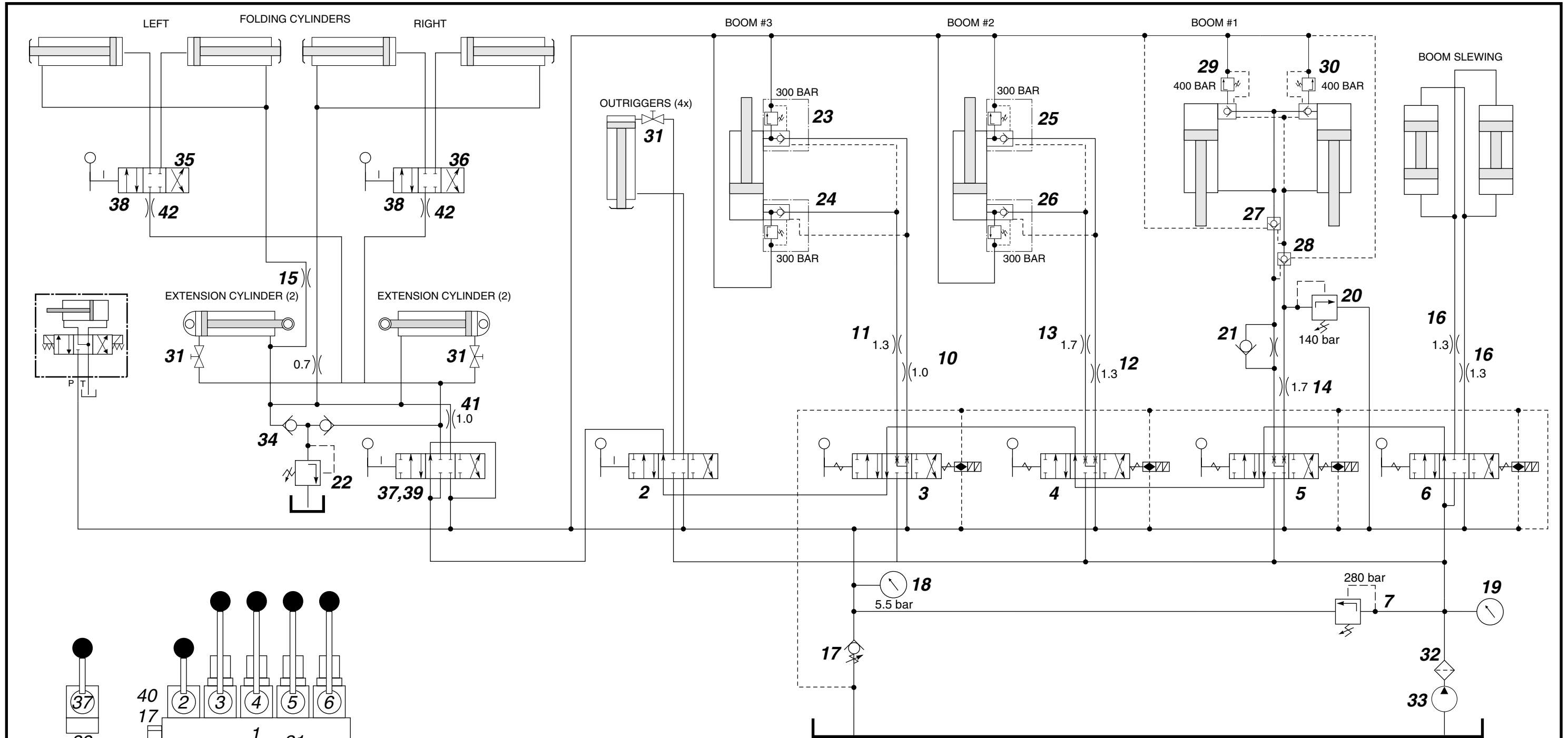


zugehörige H-Plan-Legende Art.-Nr.: 10217721 (24 VDC), 10307207 (12 VDC)
 corresponding h-scheme-legend ID-No.: 10217721 (24 VDC), 10307207 (12 VDC)

Schutzzeichen Schwing Hydraulik Elektronik GmbH	Formel / SIZE: A 1 Gezeichnet / DRAWN BY: 30.11.05 Geprüft / CHECKED BY: Entsch. / REPL. BY: Ers. für / REPL. FOR: Umg.-Datum/EXPIRY DATE:	Datum / DATE: 30.11.05 Name / NAME: A. Meyer Normgeprüft / APPROVED BY: Werkstoff / Werkstoff-Nr. / MATERIAL / MATERIAL CODE: Document	Sicherheitsstufe / SAFETY PARTY: S1 Gewicht / WEIGHT (kg): 0,003 Maßstab / SCALE: Nicht ablesen / DO NOT SCALE:	Benennung / NAME: H-Plan S28-4H prop. Hydraulic schematic S28-4H prop.
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Allgemeintoleranz nach / General Tolerances to DIN ISO 2768 - mH	
Dokumentations-Nr. / DIS NO.: 1000050551	Material-Nr. / PART NO.: 10217720
Rev. / REV: 06	Datum / DATE: 06.11.2007
Name / NAME: ALEHMANN	
Blatt-Nr. / SHEET: 1/1	



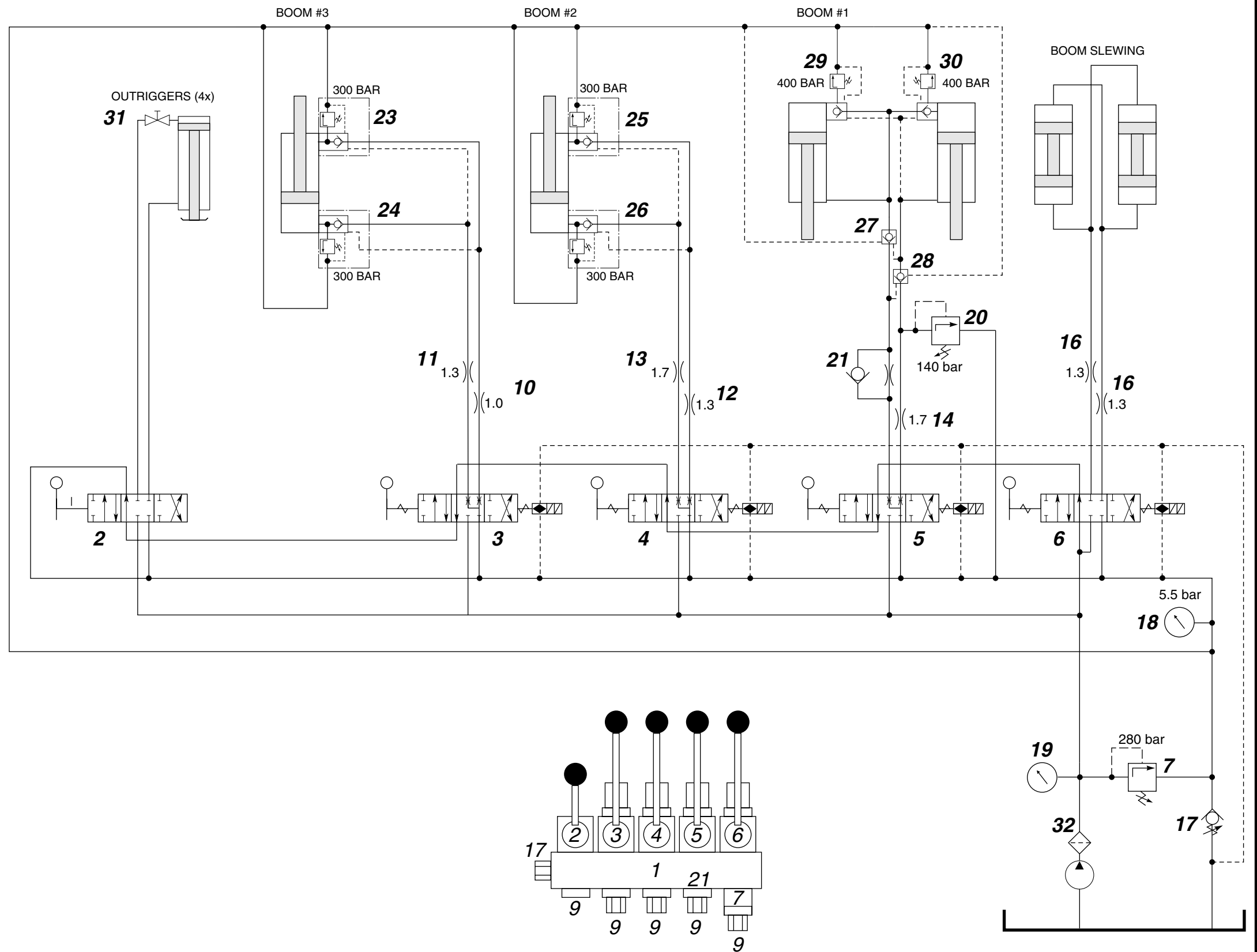


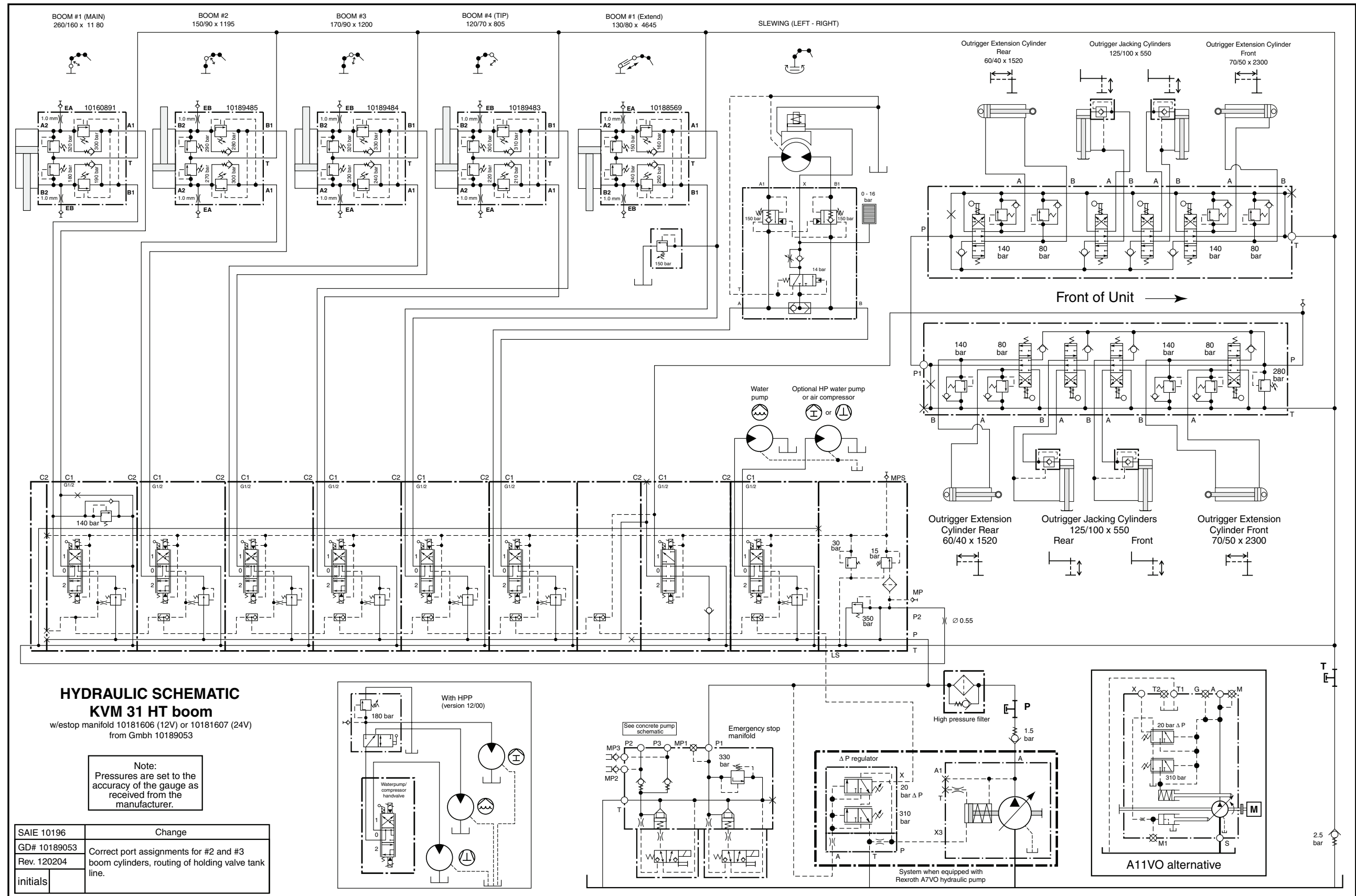
- 1. Baseplate
- 2. Handvalve HSR 10631
- 3.- 5. Handvalve HVM 10632F
- 6. Handvalve HVM10631
- 7. Relief Valve DVP-P-10 S
- 8. End Plate
- 9. End Plate
- 10. Orifice 1.0mm "B" Rear
- 11. Orifice 1.3mm "C" Front
- 12. Orifice 1.3mm "C" Rear
- 13. Orifice 1.7mm "D" Front
- 14. Orifice 1.7mm "D" Rear

- 15. Orifice 1.7mm EV 302.004
- 16. Orifice 1.3mm "C" Rear
- 17. Pre-load valve VV-2R 3/4"
- 18. Piston Gauge 0-40 bar
- 19. Piston Gauge 0-600 bar
- 20. Relief Valve SVL-R 3/8" 140 bar
- 21. Throttle Check Valve SRD 10 A1, 5/B10F
- 22. Pressure Limiting Valve SVL-R 1/2 150 bar
- 23.- 26. Hydraulically Unlockable Check Valve HER SV2- R 1/2"
- 27.- 28. Hydraulically Unlockable Check Valve HER 4- R 1/2"
- 29. Hydraulically Unlockable Check Valve HER SV2- R 1/2"
- 30. Hydraulically Unlockable Check Valve HER SV2- R 1/2"

- 31. Hand Valve
- 32. Pressure Filter
- 33. Hydraulic Pump
- 34. End Plate
- 35. Gate Valve HSO-10-426
- 36. Gate Valve HSO-10-426
- 37. Gate Valve HSR-10631
- 38. Base Plate (2x) GPU-1012
- 39. Base Plate EV 38100Z
- 40. End Plate
- 41. Orifice 1.0 mm D
- 42. Orifice 1.0 mm B EV302000

1. Baseplate
2. Handvalve HSR 10631
- 3.- 5. Handvalve HVM 10632F
6. Handvalve HVM10631
7. Relief Valve DVP-P-10 S
8. End Plate
9. End Plate
10. Orifice 1.0mm "B" Rear
11. Orifice 1.3mm "C" Front
12. Orifice 1.3mm "C" Rear
13. Orifice 1.7mm "D" Front
14. Orifice 1.7mm "D" Rear
- 15.
16. Orifice 1.3mm "C" Rear
17. Pre-load valve VV-2R 3/4"
18. Piston Gauge 0-16 bar=0-228 psi
19. Piston Gauge 0-315 bar=0-4470 psi
20. Relief Valve SVL-R 3/8"
21. Throttle Check Valve SRD 10 A1, 5/B10F
- 22.
- 23.- 26. Hydraulically Unlockable Check Valve HER SV2- R 1/2"
- 27.-28. Hydraulically Unlockable Check Valve HER 4- R 1/2"
29. Hydraulically Unlockable Check Valve HER SV2- R 1/2"
30. Hydraulically Unlockable Check Valve HER SV2- R 1/2"
31. Screw Down Valve
32. Pressure Filter
33. Hydraulic Pump



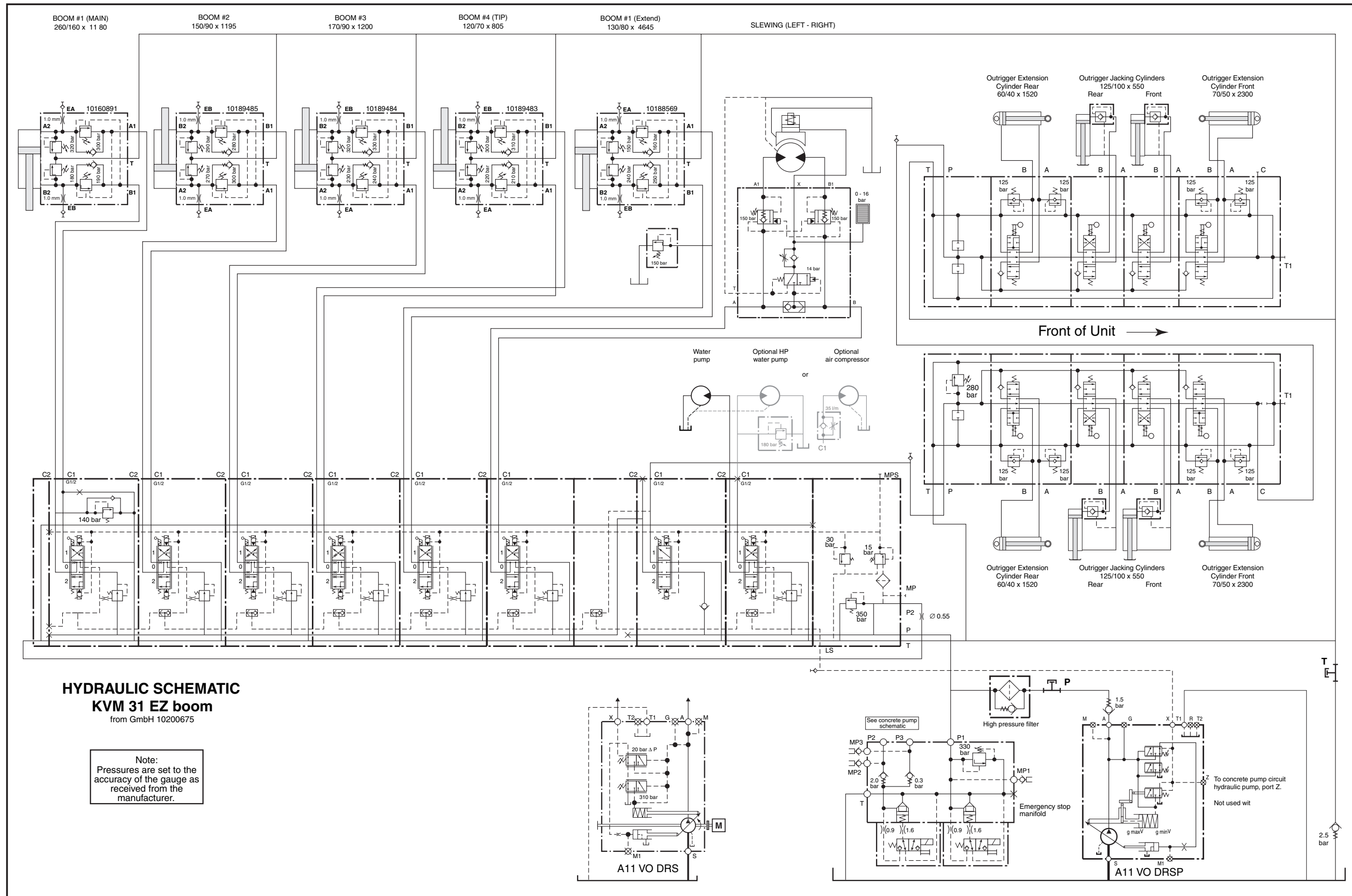


HYDRAULIC SCHEMATIC
KVM 31 HT boom

w/estop manifold 10181606 (12V) or 10181607 (24V)
from Gmbh 10189053

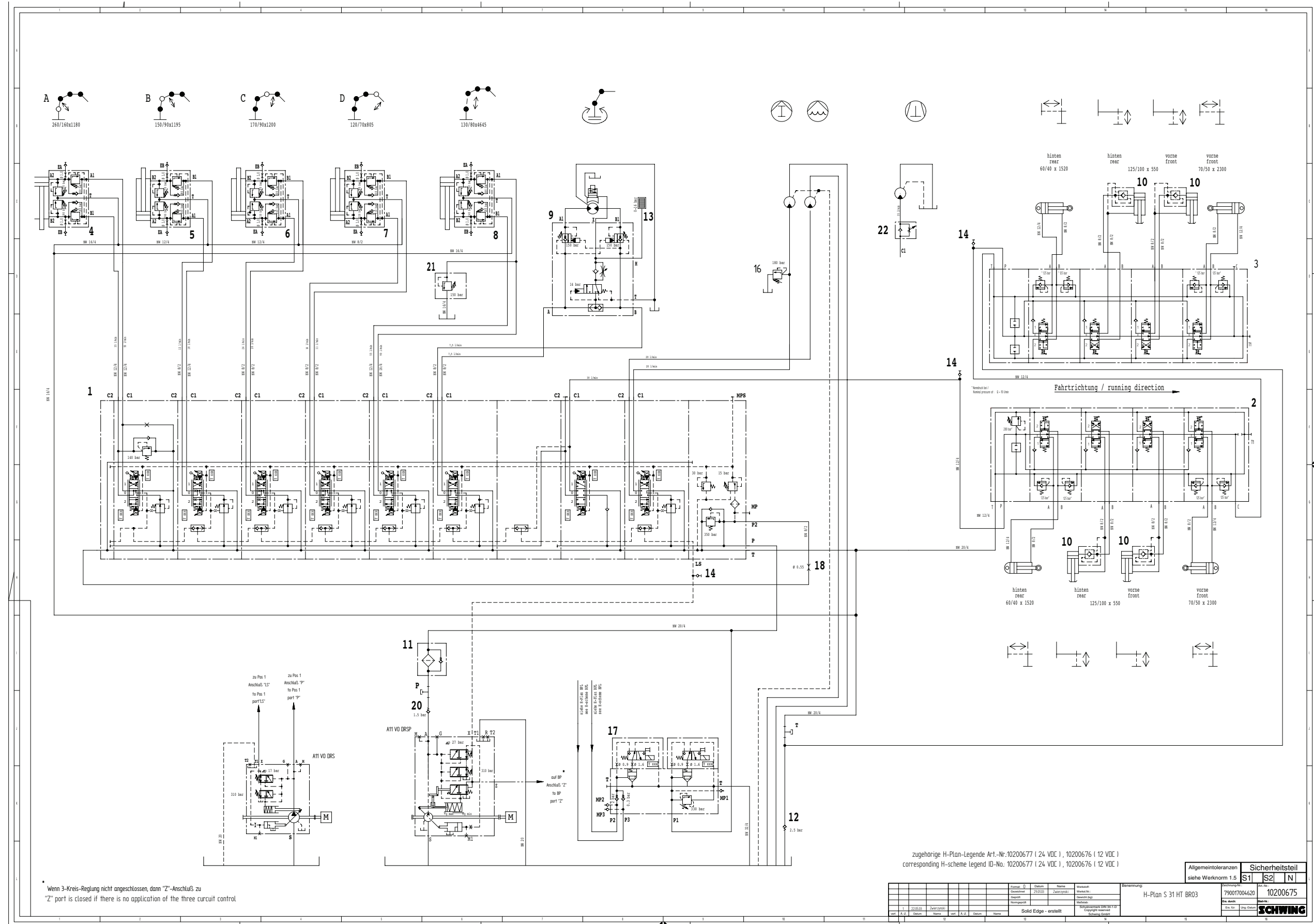
Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

SAIE 10196	Change
GD# 10189053	Correct port assignments for #2 and #3 boom cylinders, routing of holding valve tank line.
Rev. 120204	
initials	



10200675

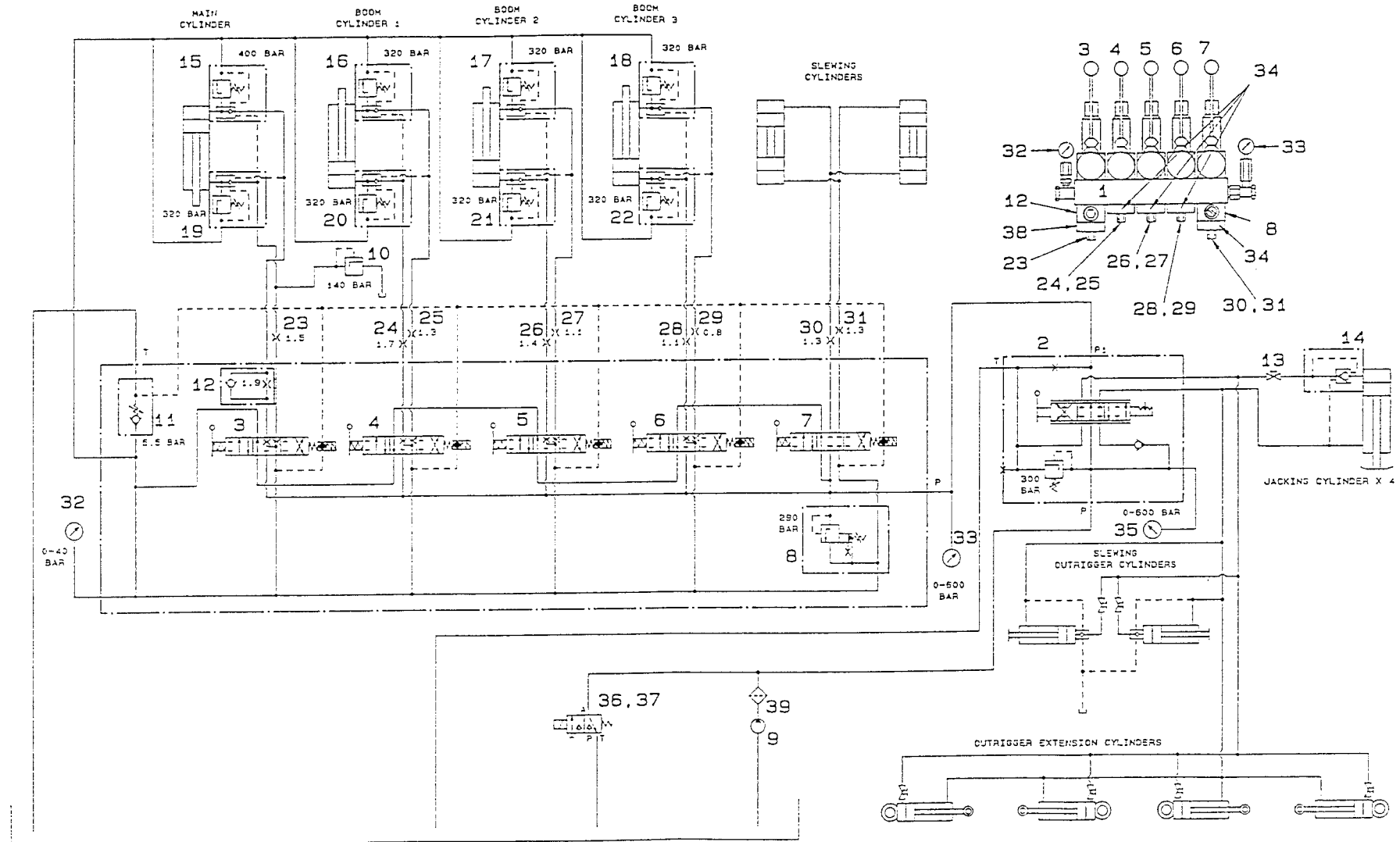
S 31 EZ

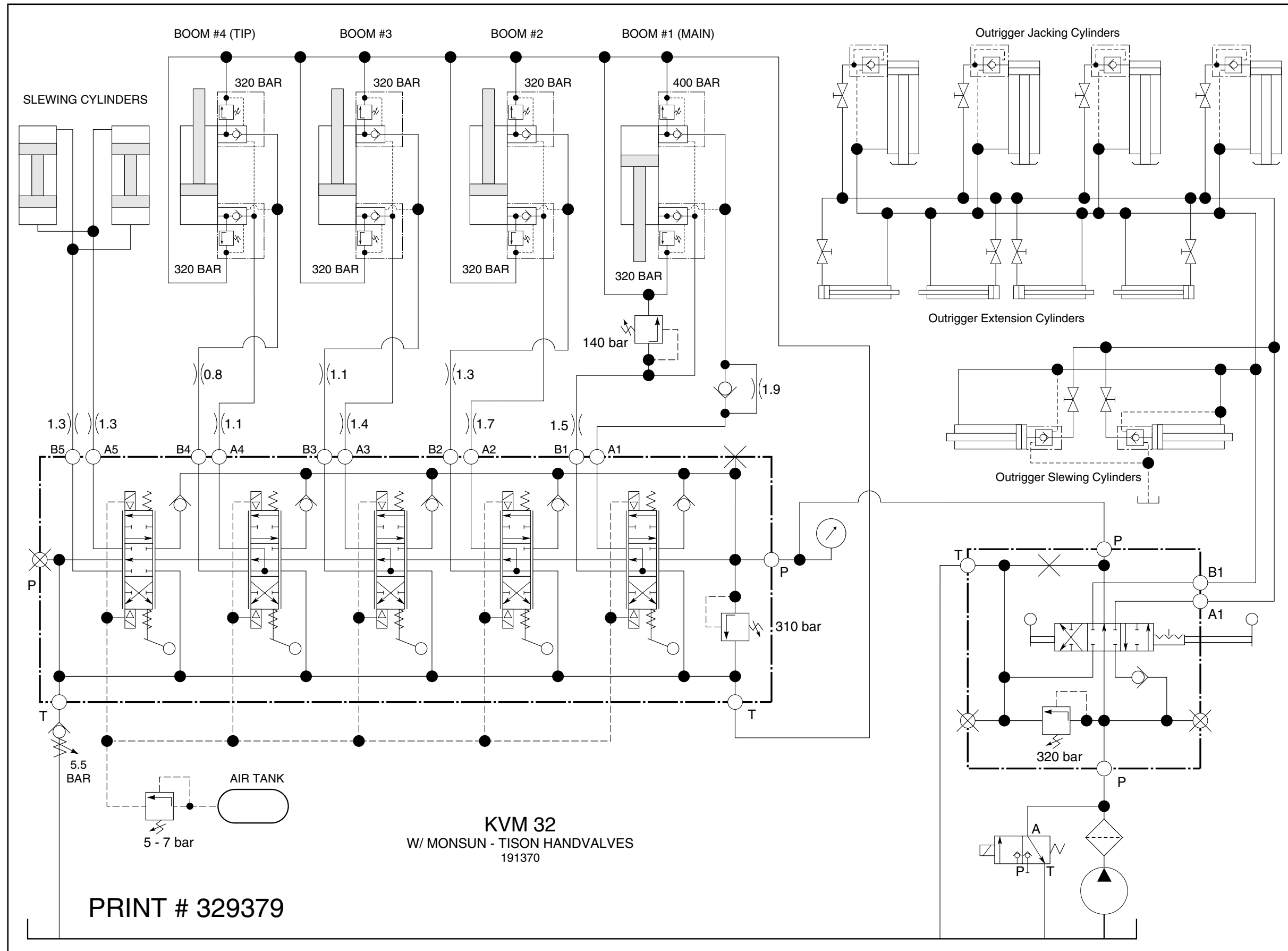


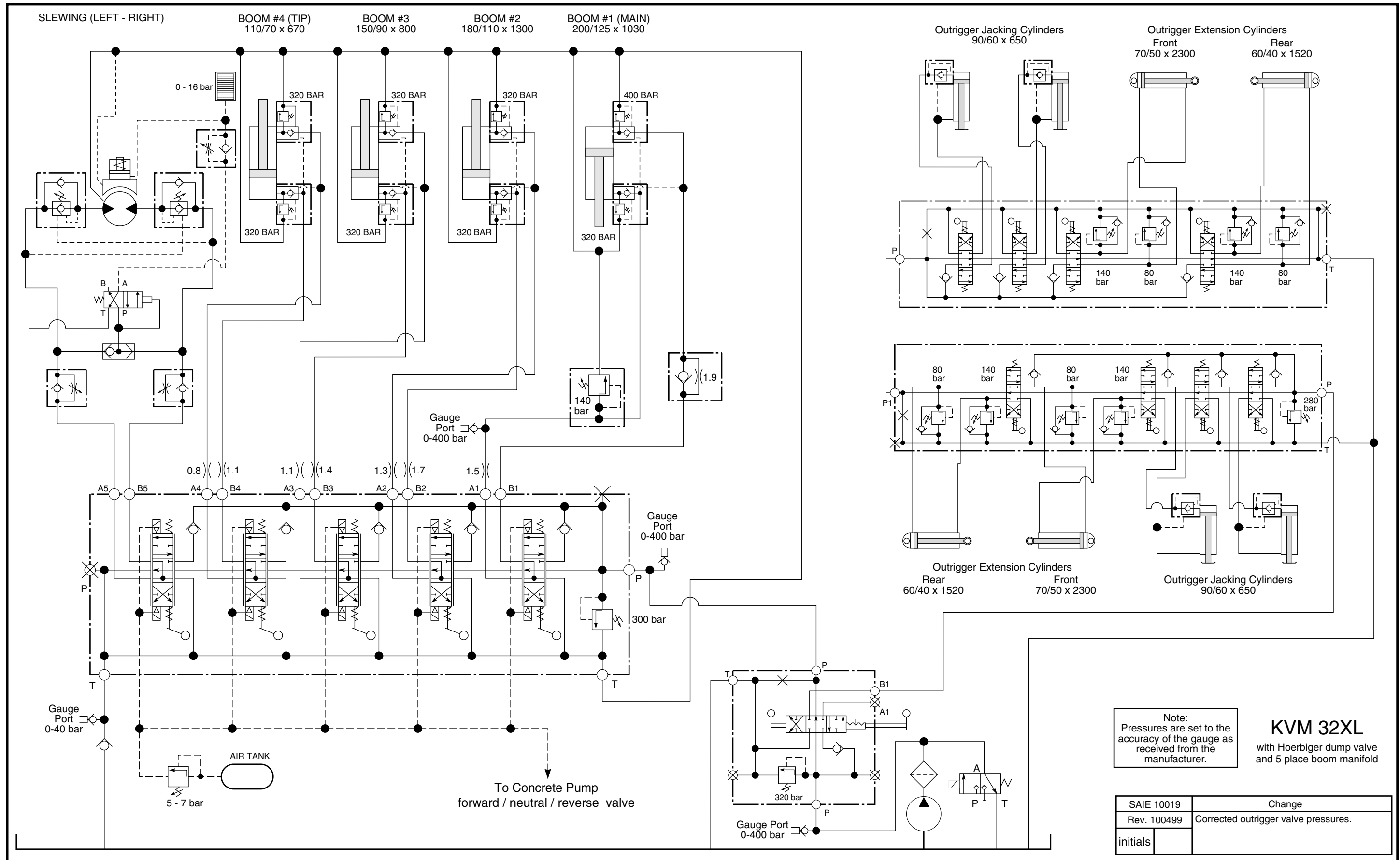
Wenn 3-Kreis-Regelung nicht angeschlossen, dann "Z"-Anschluss zu "Z" port is closed if there is no application of the three circuit control

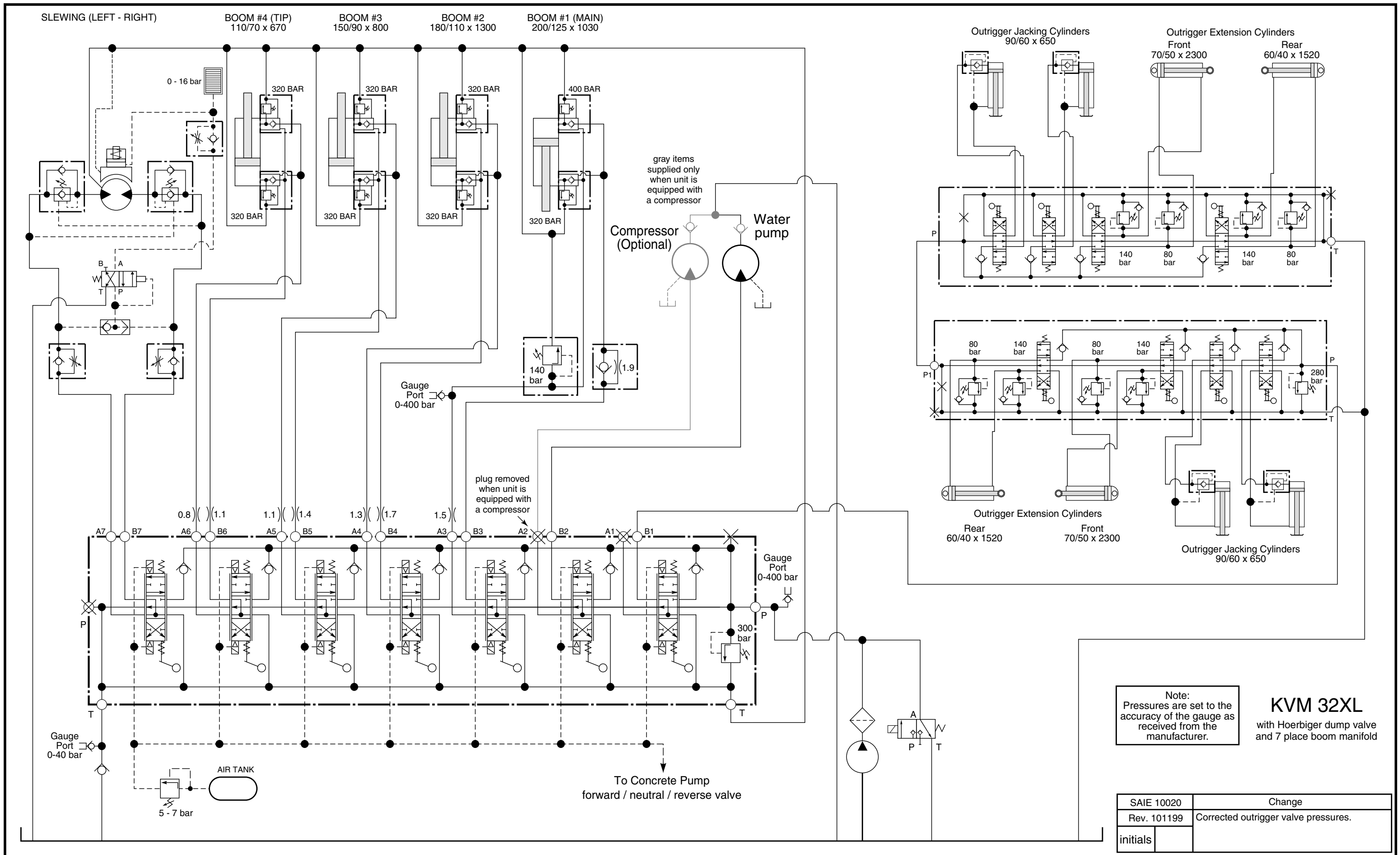
zugehörige H-Plan-Legende Art.-Nr. 10200677 (24 VDC), 10200676 (12 VDC)
 corresponding H-scheme legend ID-No. 10200677 (24 VDC), 10200676 (12 VDC)

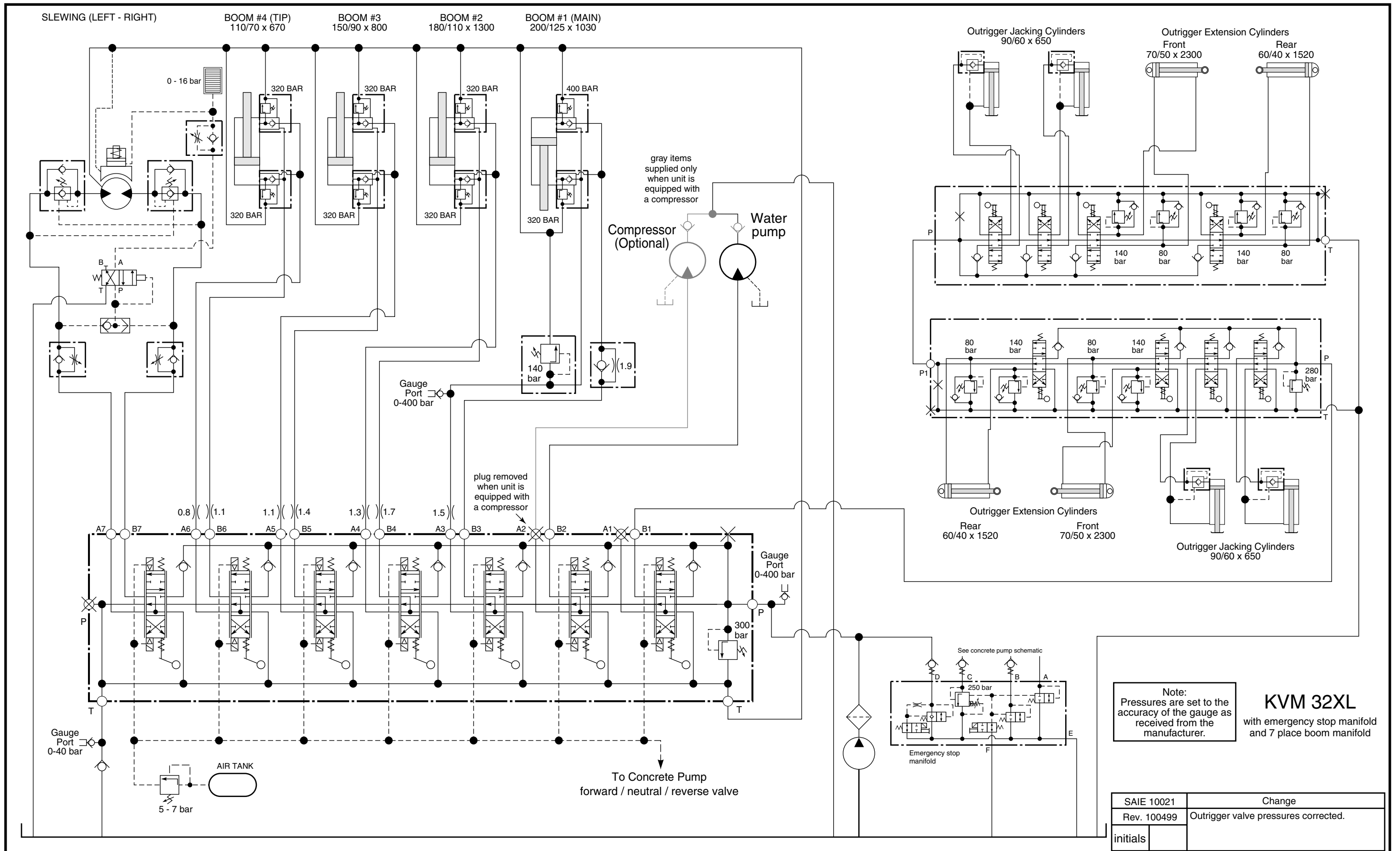
Allgemeintoleranzen siehe Werknorm 1.5		Sicherheitsteil S1 S2 N	
H-Plan S 31 HT BR03		79007004620	
10200675		SCHWING	

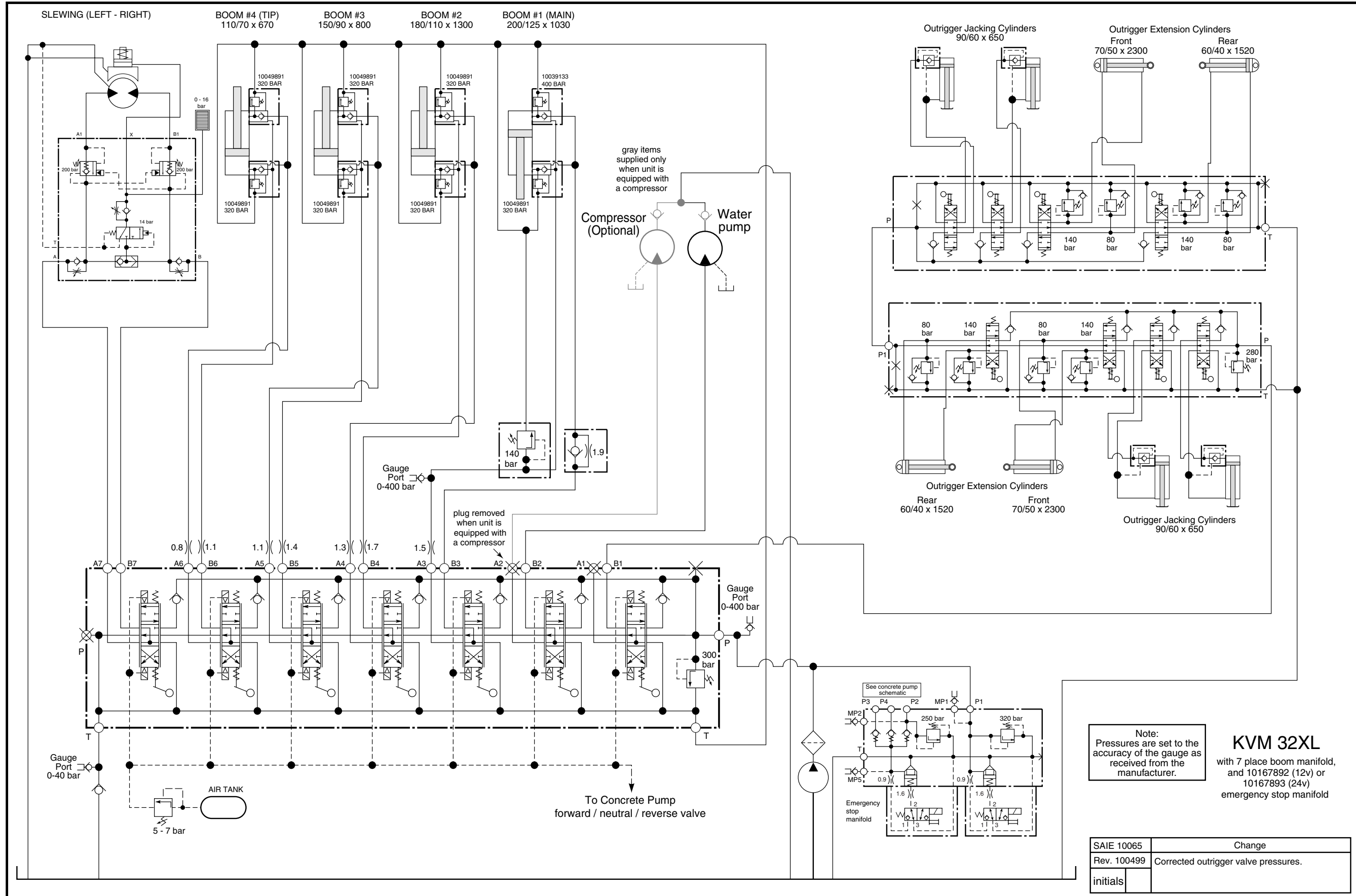








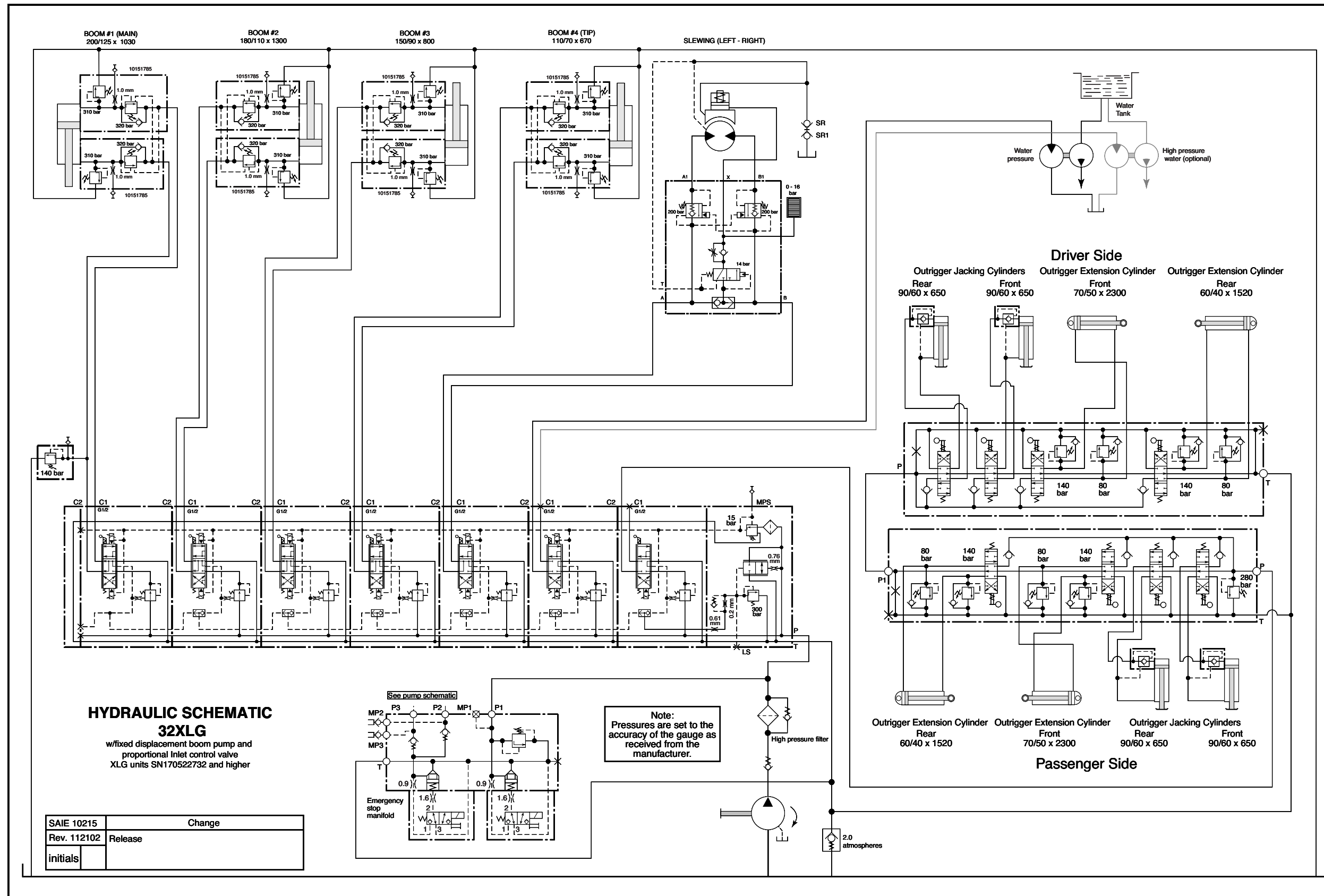


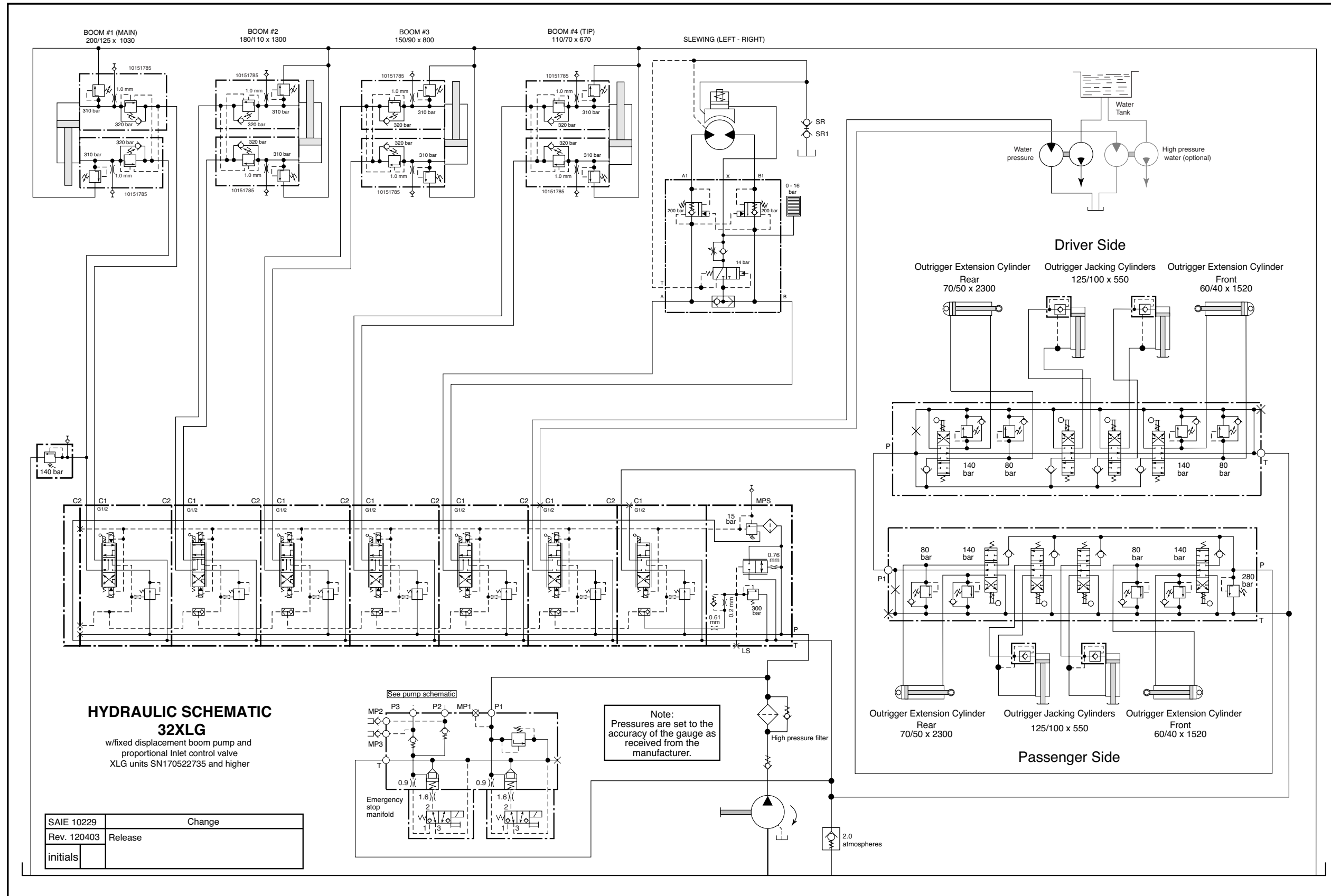


Note:
Pressures are set to the accuracy of the gauge as received from the manufacturer.

KVM 32XL
with 7 place boom manifold, and 10167892 (12v) or 10167893 (24v) emergency stop manifold

SAIE 10065	Change
Rev. 100499	Corrected outrigger valve pressures.
initials	



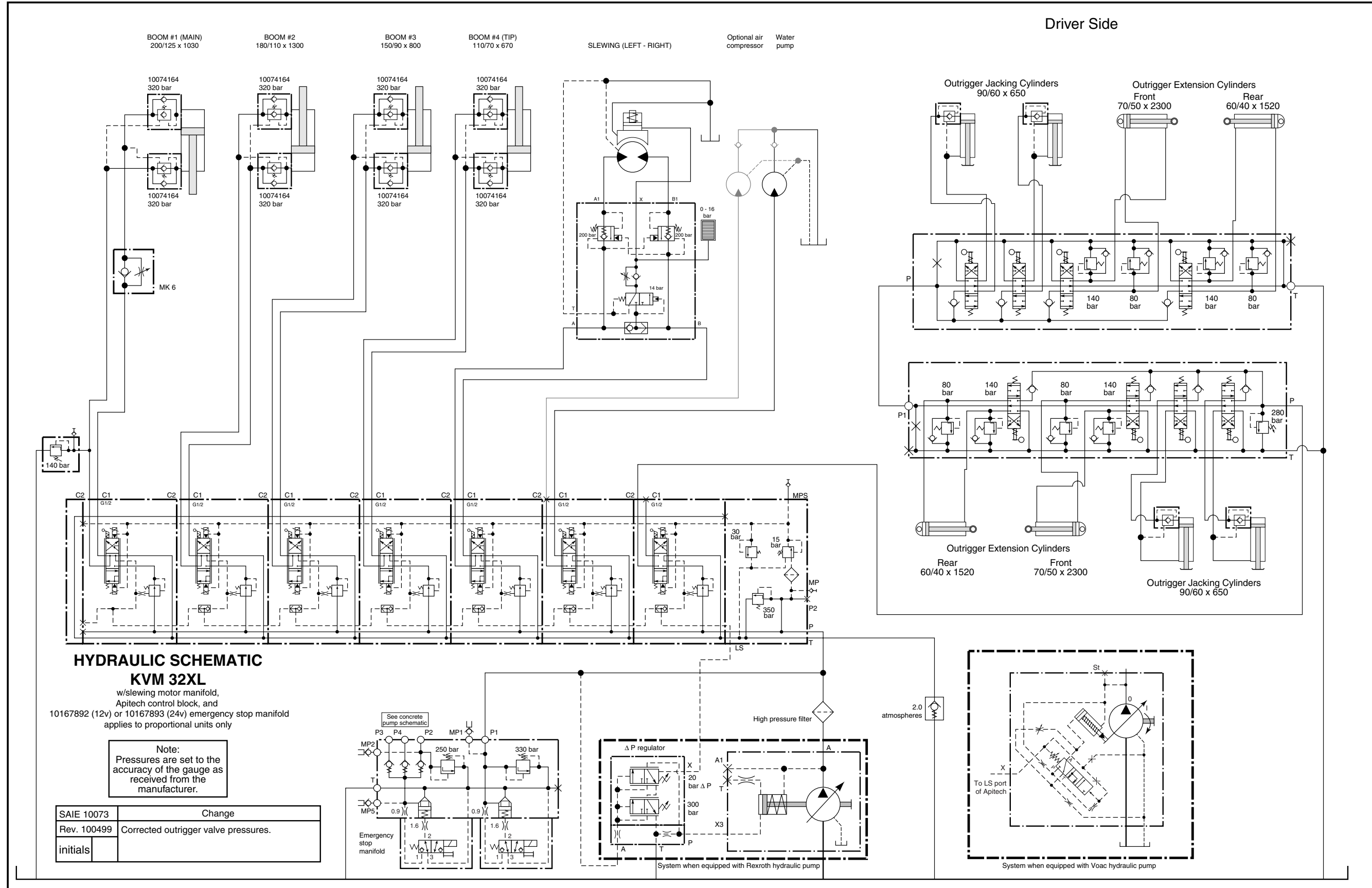


**HYDRAULIC SCHEMATIC
32XLG**

w/ fixed displacement boom pump and
proportional Inlet control valve
XLG units SN170522735 and higher

SAIE 10229	Change
Rev. 120403	Release
initials	

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

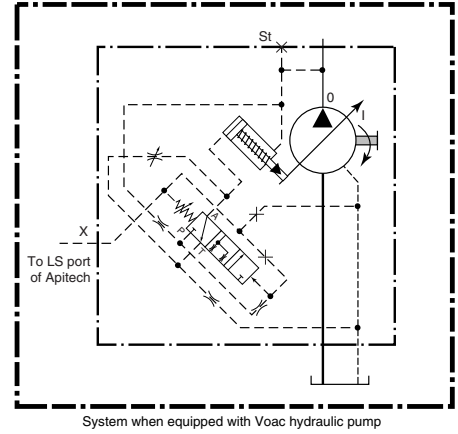
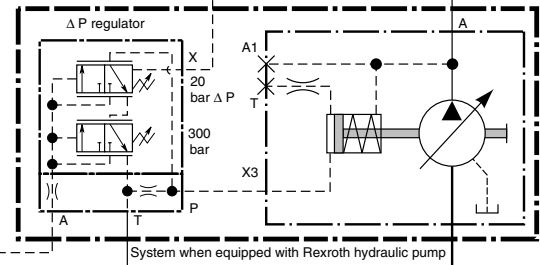
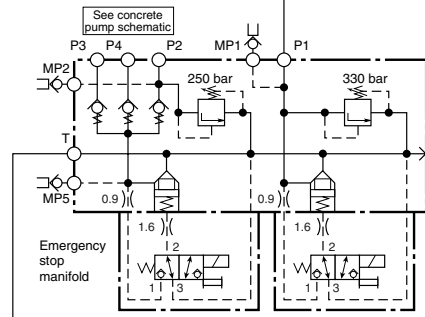


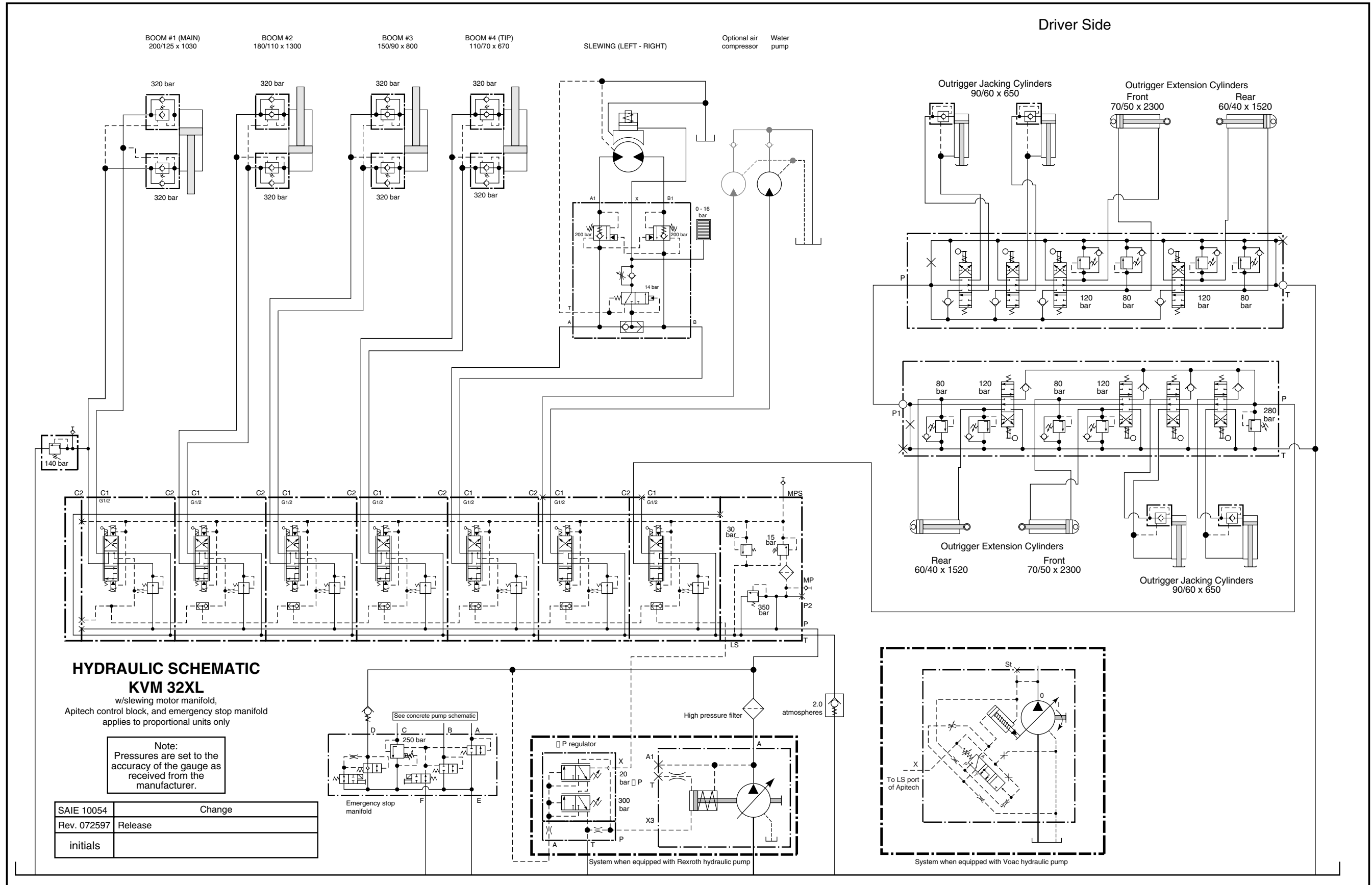
**HYDRAULIC SCHEMATIC
KVM 32XL**

w/slewing motor manifold,
Apitech control block, and
10167892 (12v) or 10167893 (24v) emergency stop manifold
applies to proportional units only

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

SAIE 10073	Change
Rev. 100499	Corrected outrigger valve pressures.
initials	



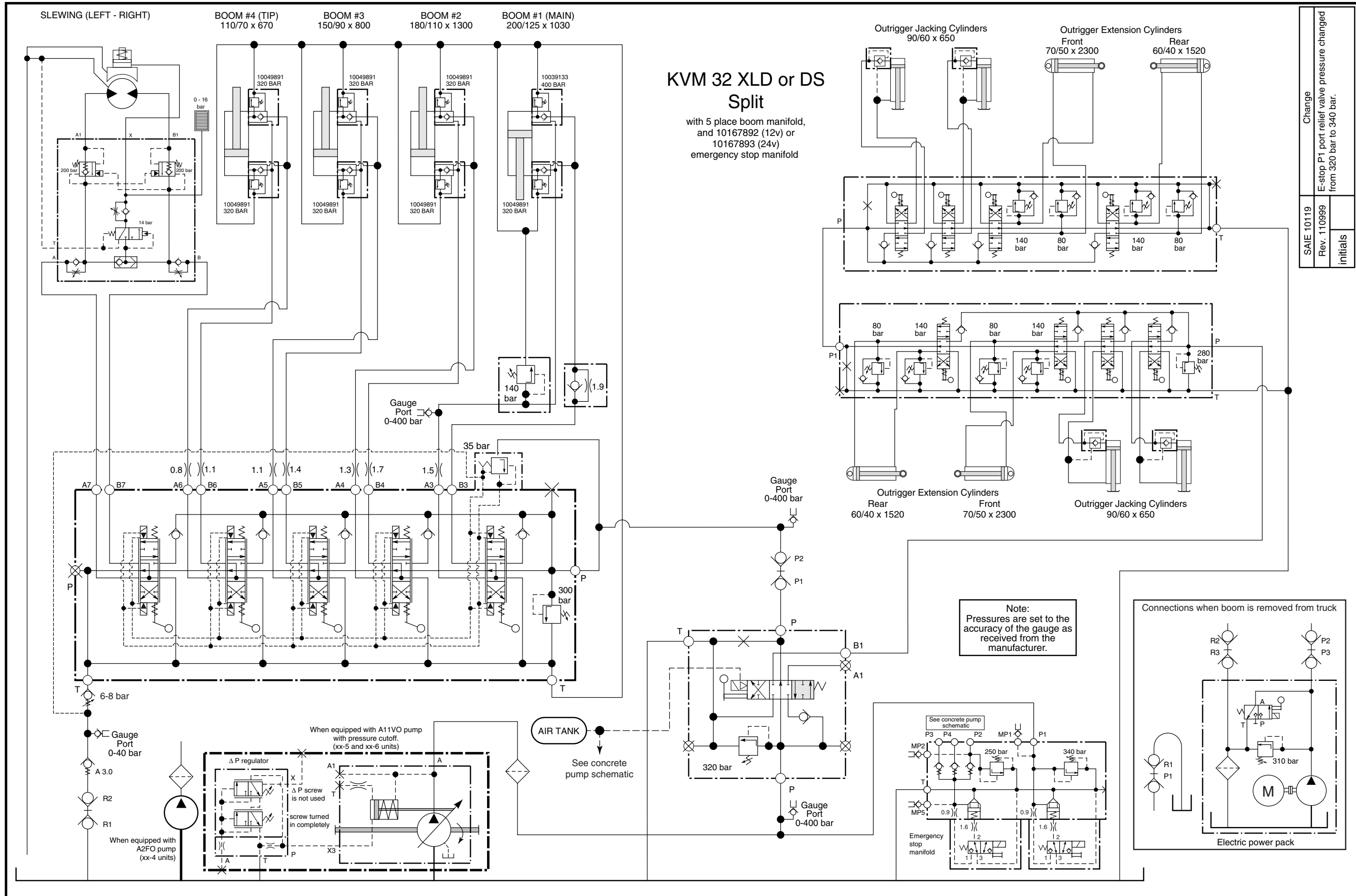


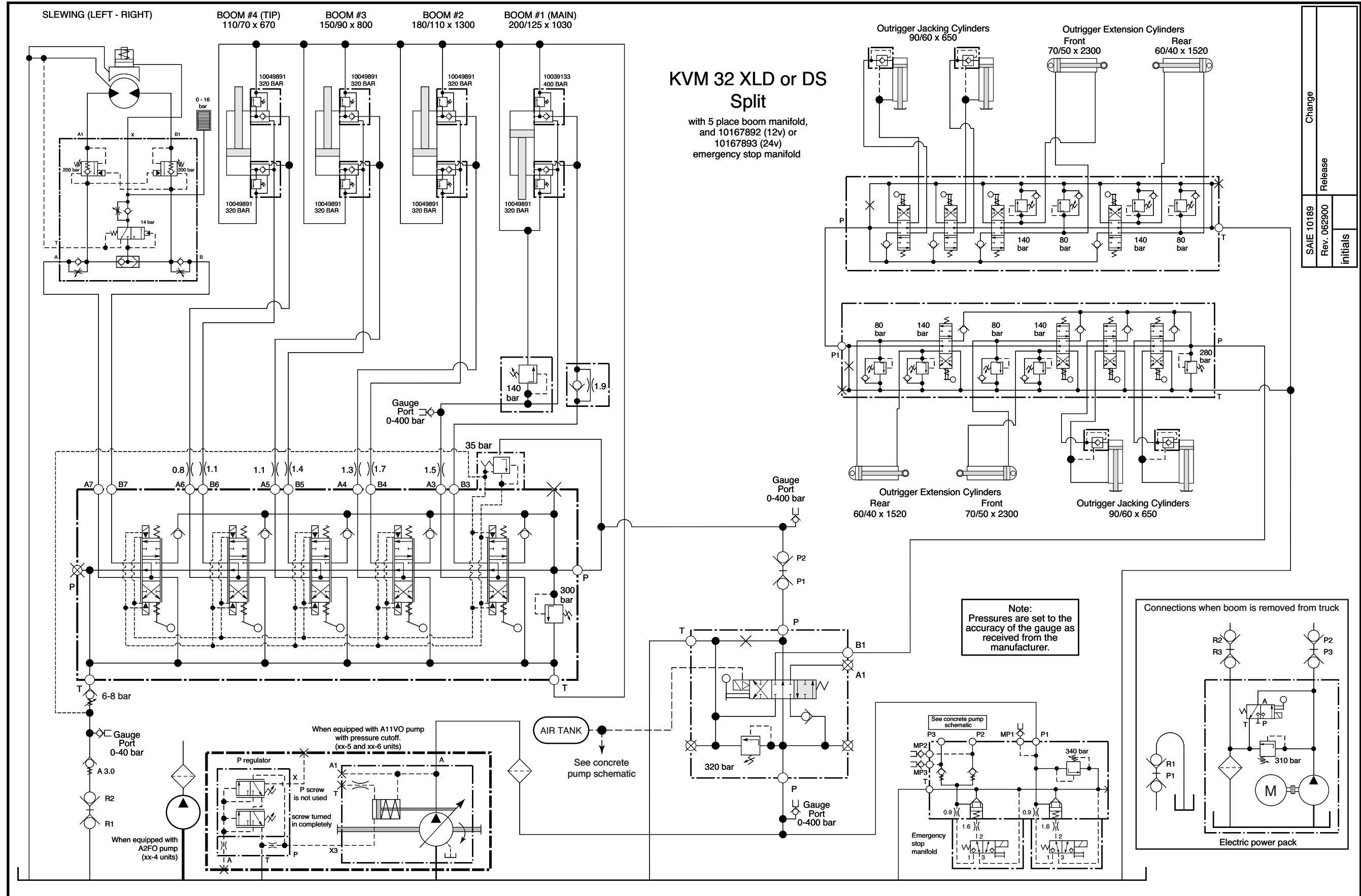
**HYDRAULIC SCHEMATIC
KVM 32XL**

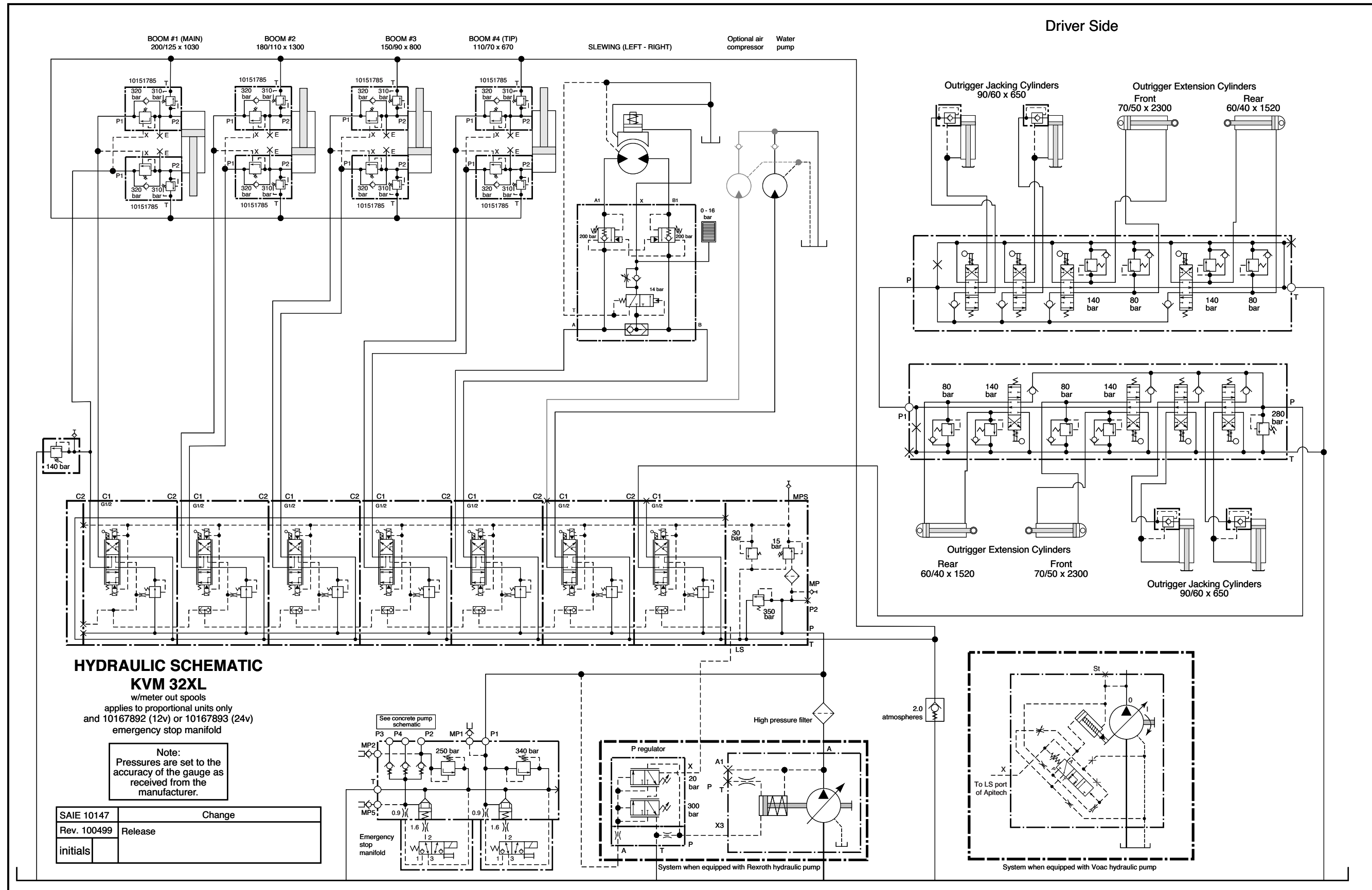
w/slewing motor manifold,
Apitech control block, and emergency stop manifold
applies to proportional units only

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

SAIE 10054	Change
Rev. 072597	Release
initials	



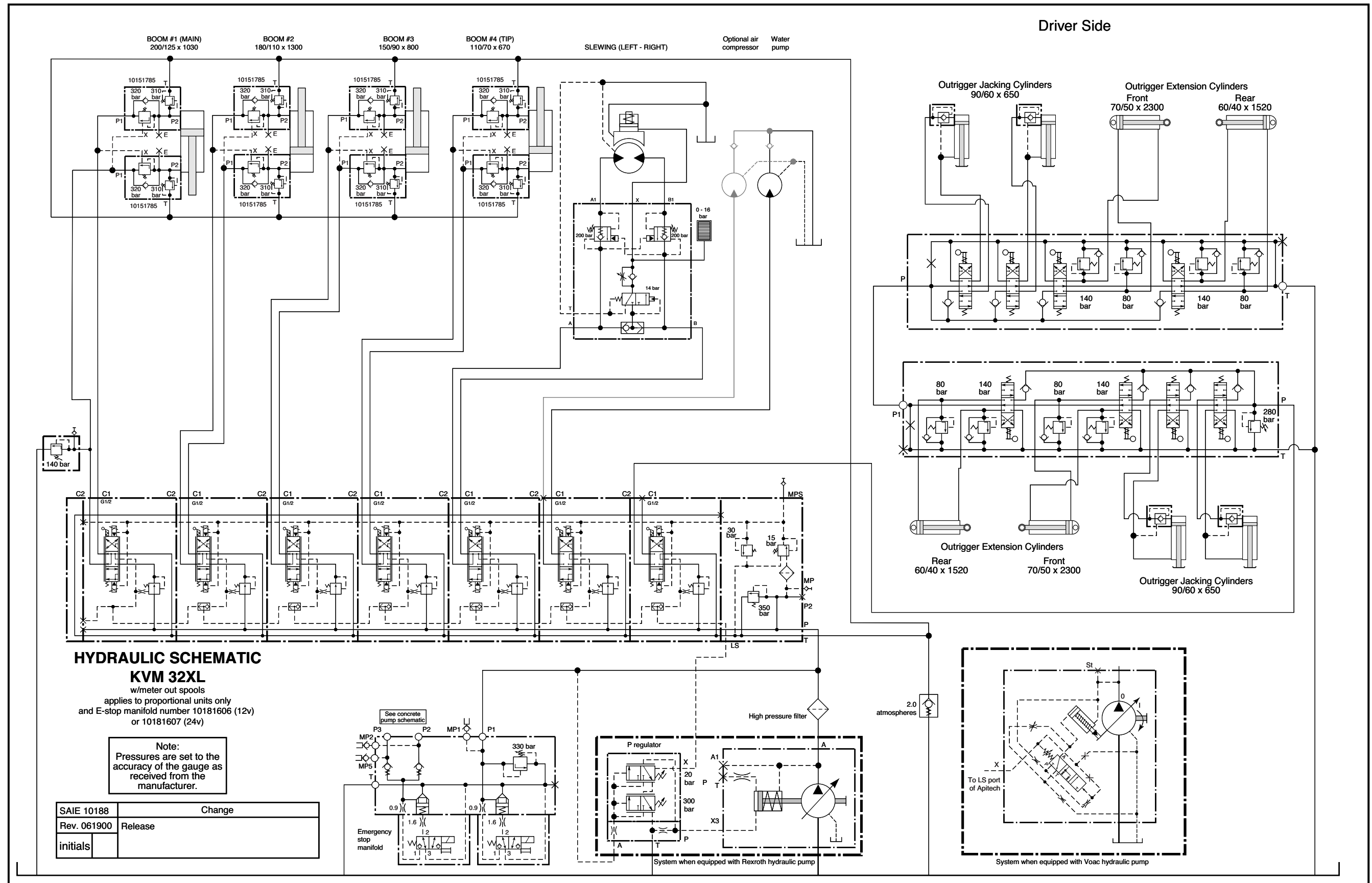




HYDRAULIC SCHEMATIC
KVM 32XL
 w/meter out spools
 applies to proportional units only
 and 10167892 (12v) or 10167893 (24v)
 emergency stop manifold

Note:
 Pressures are set to the
 accuracy of the gauge as
 received from the
 manufacturer.

SAIE 10147	Change
Rev. 100499	Release
initials	



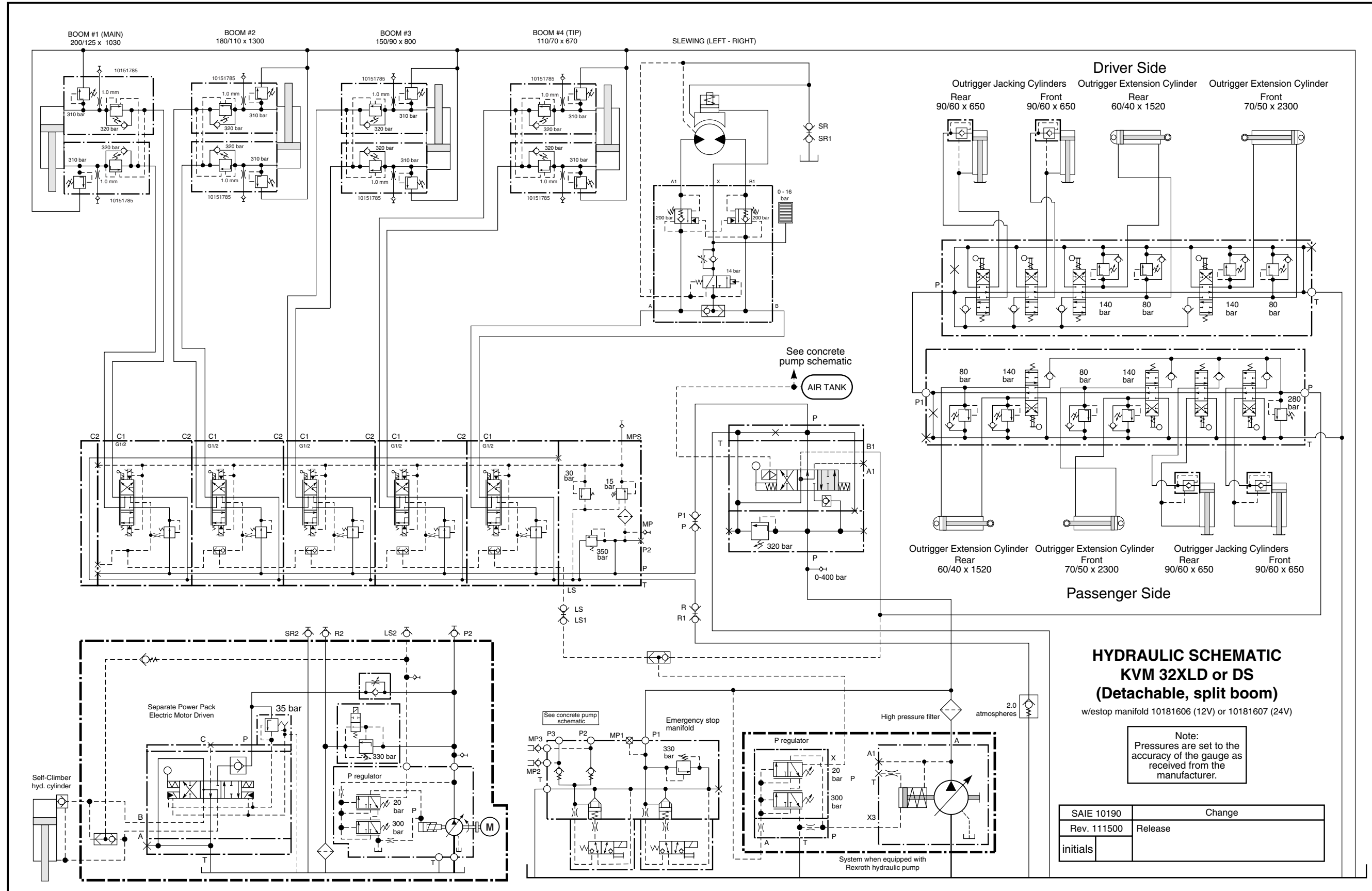
HYDRAULIC SCHEMATIC

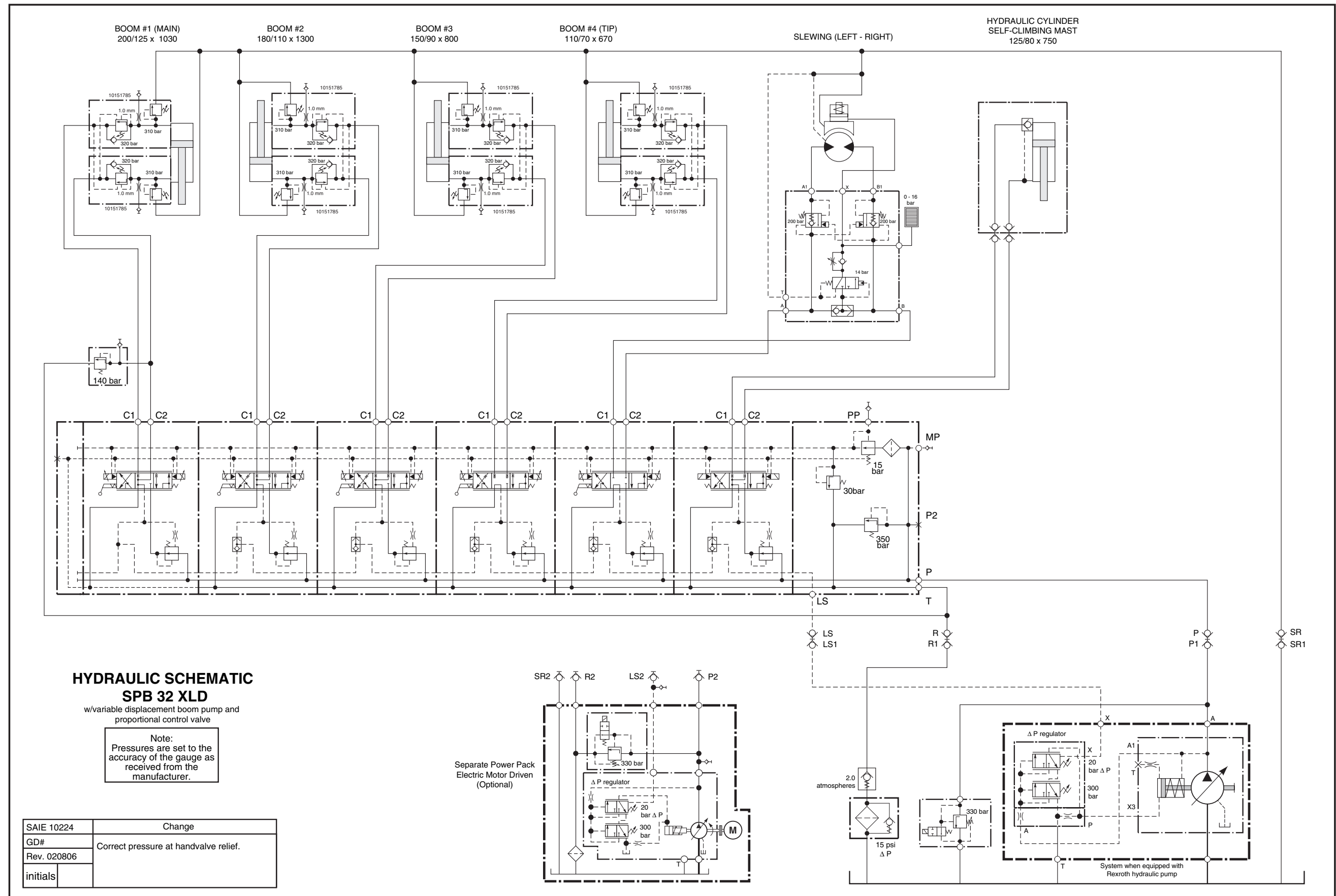
KVM 32XL

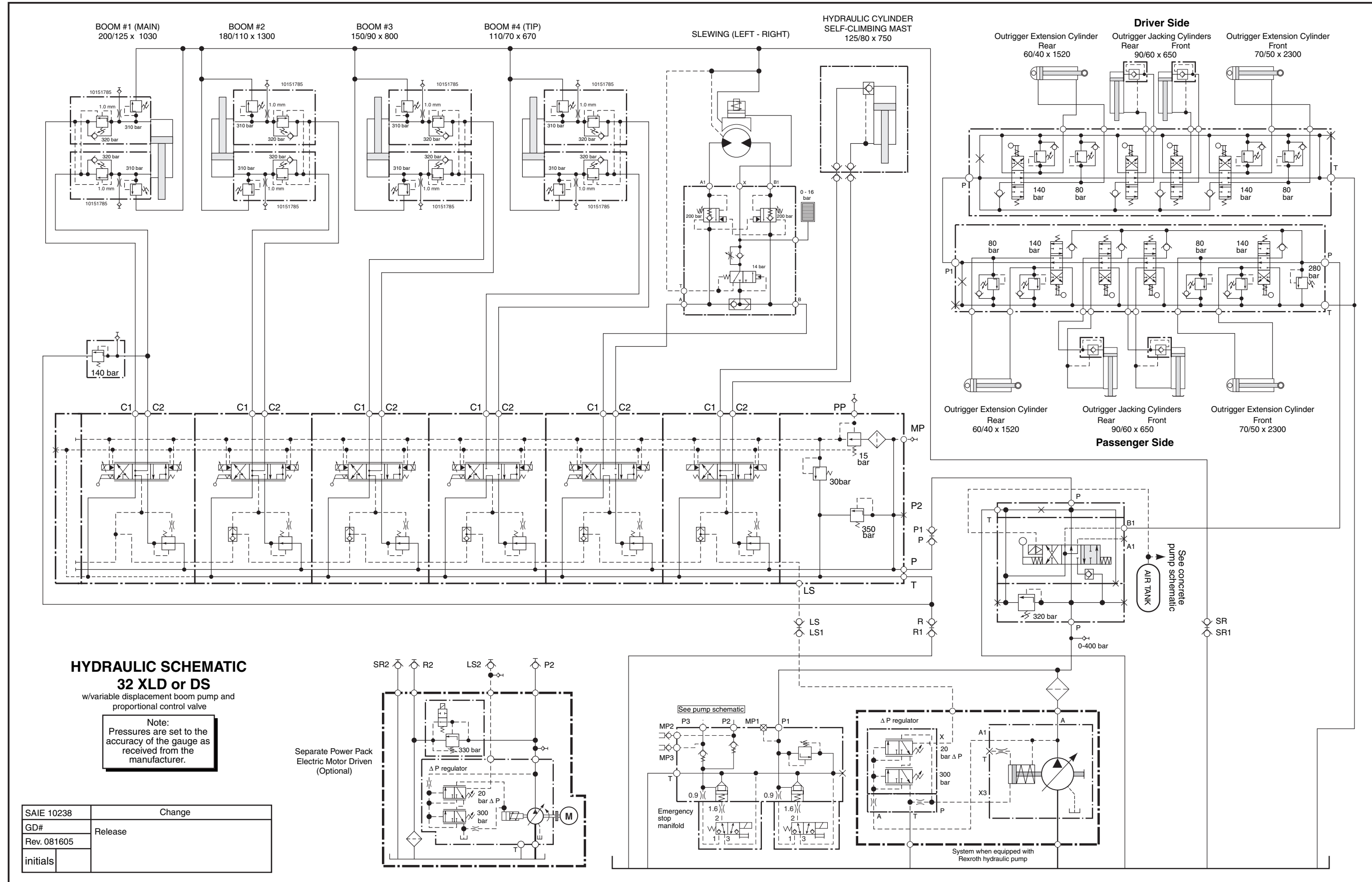
w/meter out spools
 applies to proportional units only
 and E-stop manifold number 10181606 (12v)
 or 10181607 (24v)

Note:
 Pressures are set to the
 accuracy of the gauge as
 received from the
 manufacturer.

SAIE 10188	Change
Rev. 061900	Release
initials	







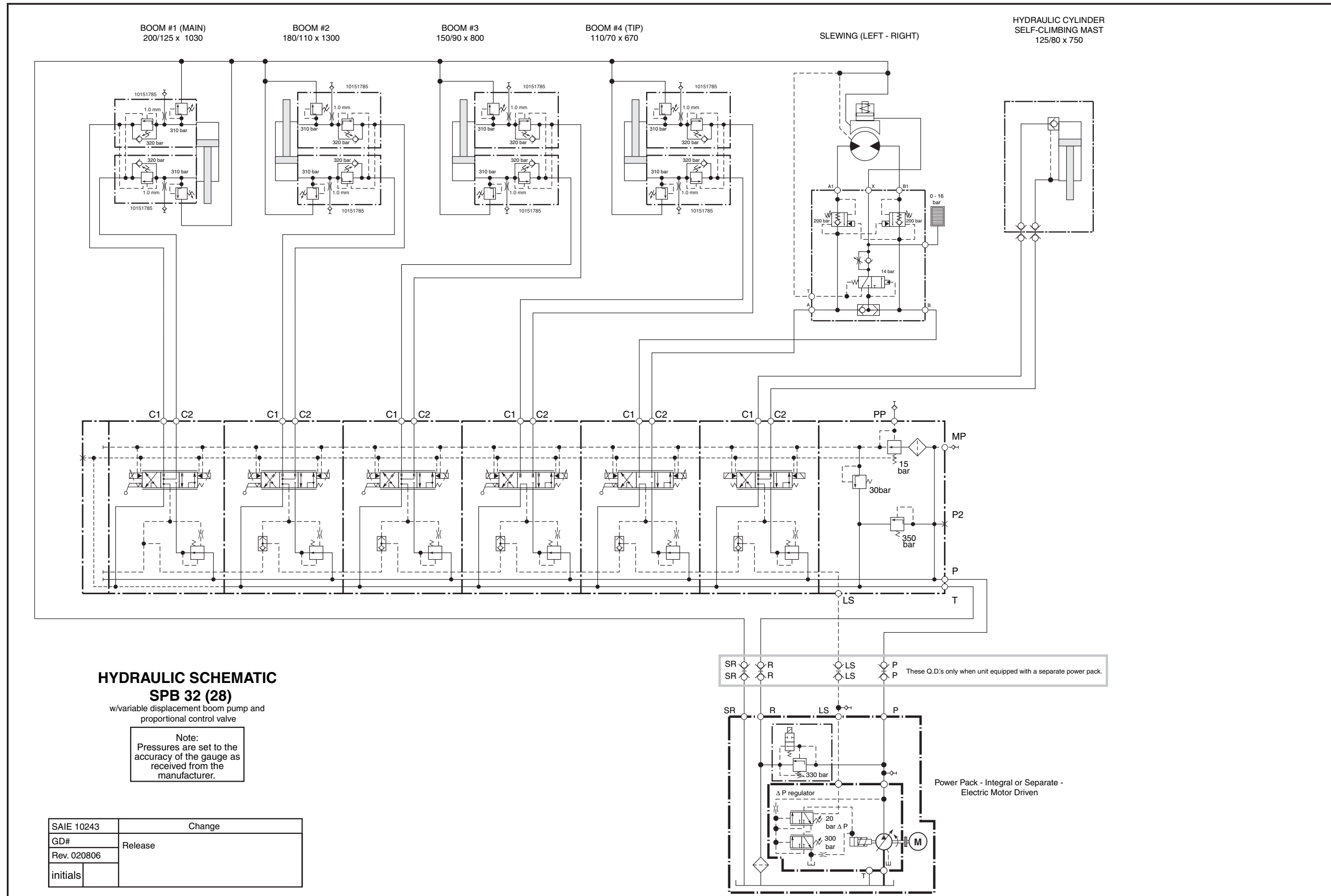
HYDRAULIC SCHEMATIC
32 XLD or DS

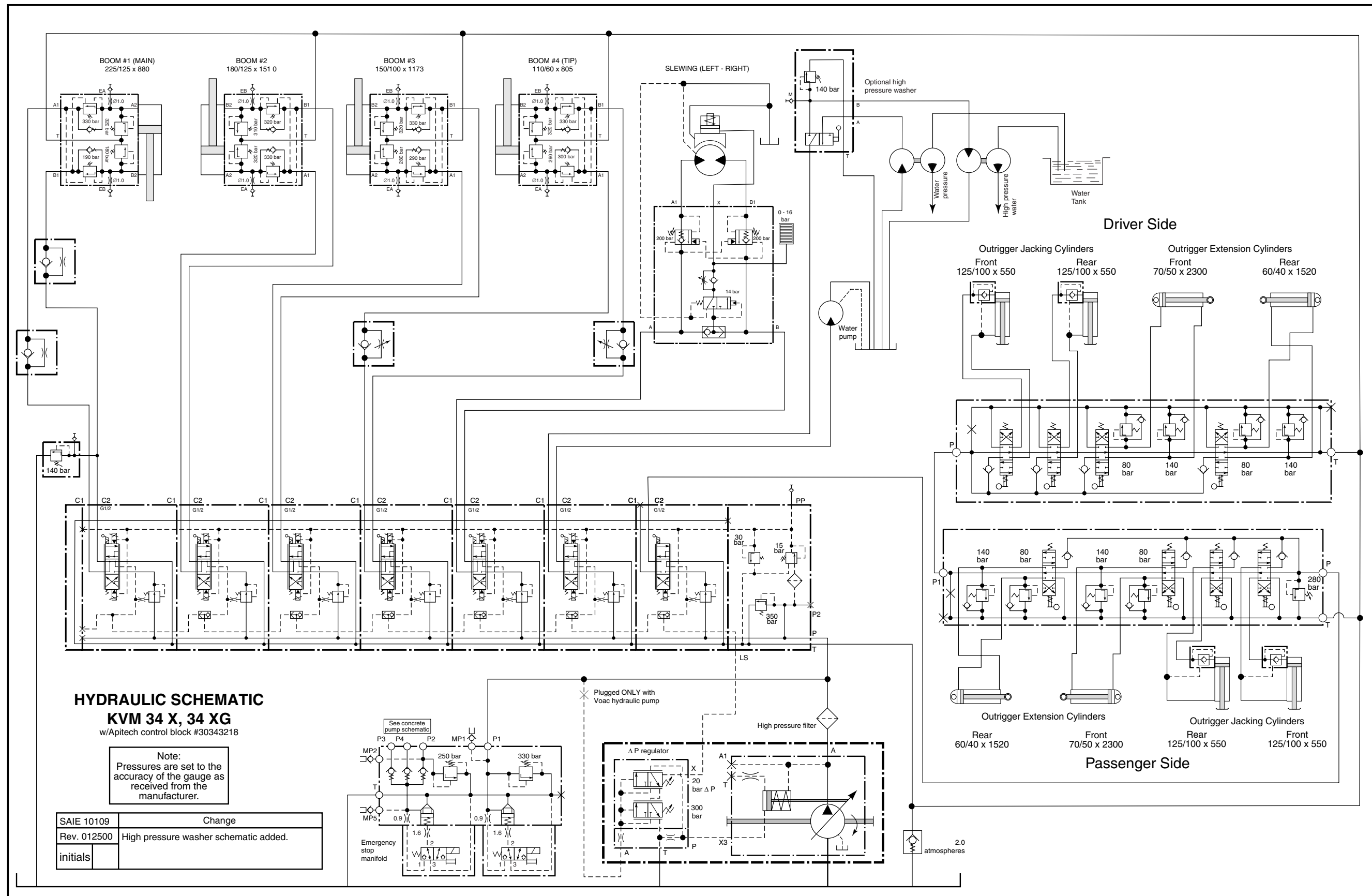
w/variable displacement boom pump and proportional control valve

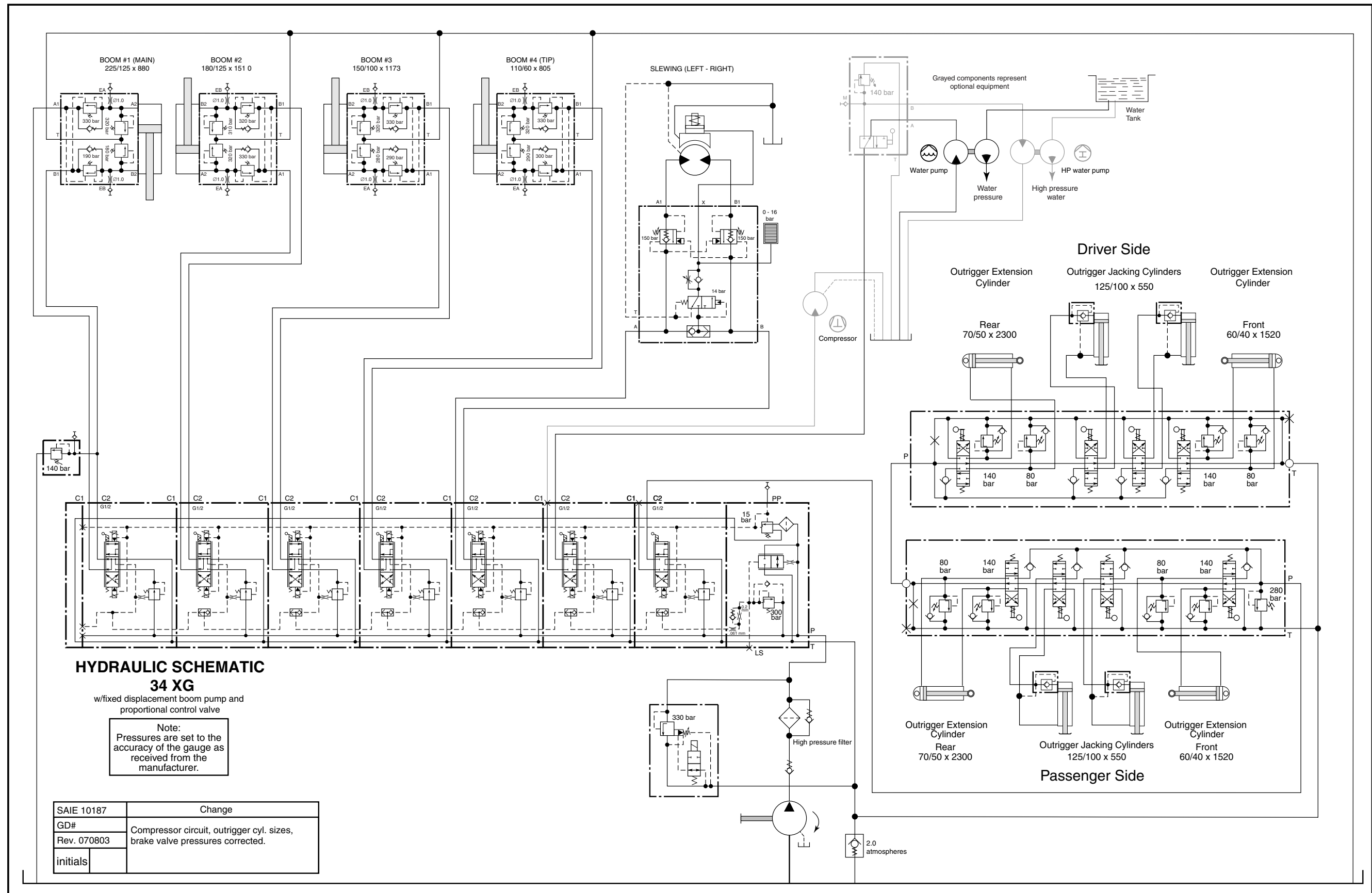
Note:
Pressures are set to the accuracy of the gauge as received from the manufacturer.

Separate Power Pack
Electric Motor Driven
(Optional)

SAIE 10238	Change
GD#	Release
Rev. 081605	
initials	





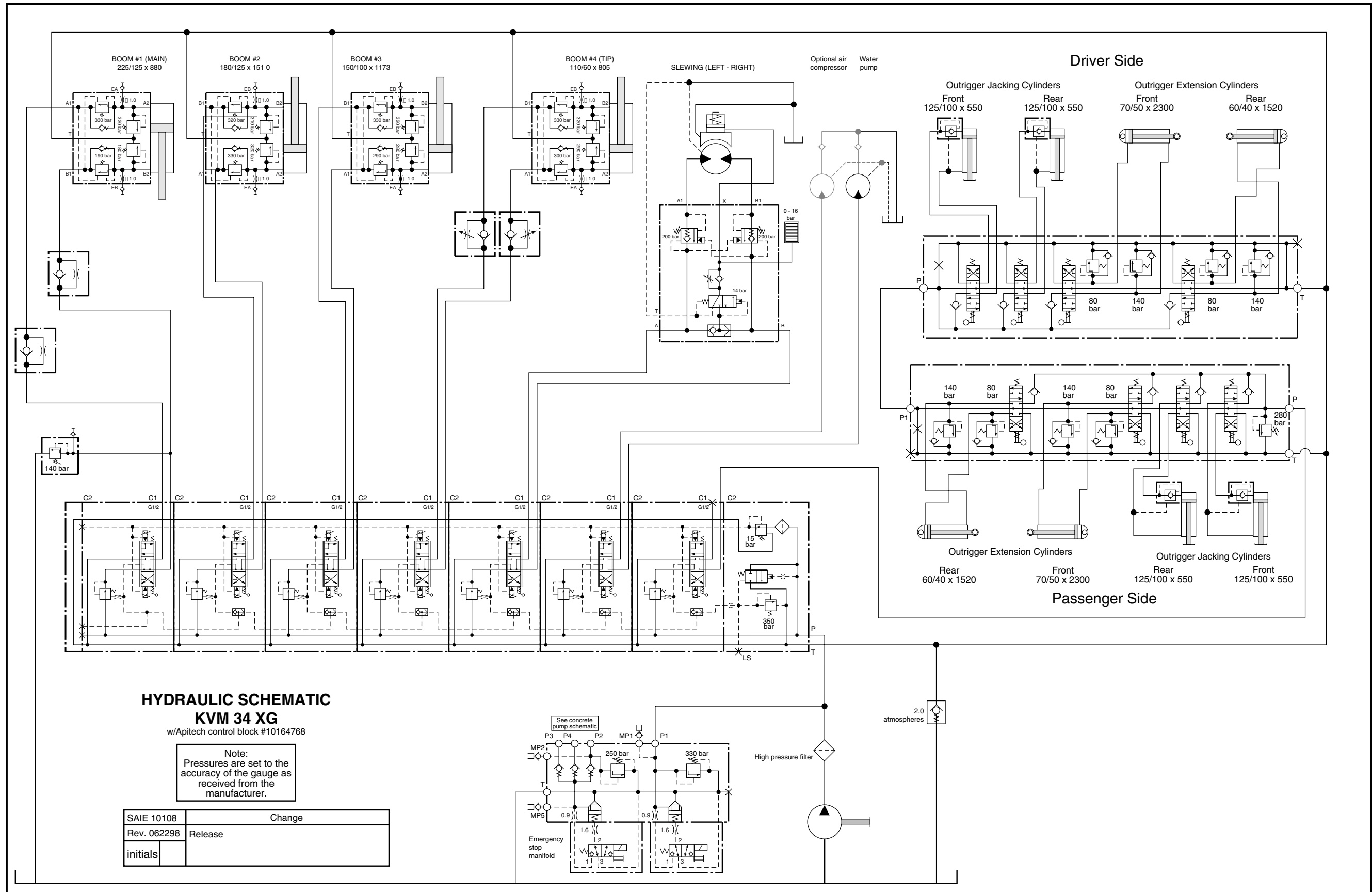


**HYDRAULIC SCHEMATIC
34 XG**

w/fixed displacement boom pump and
proportional control valve

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

SAIE 10187	Change
GD#	Compressor circuit, outrigger cyl. sizes, brake valve pressures corrected.
Rev. 070803	
initials	

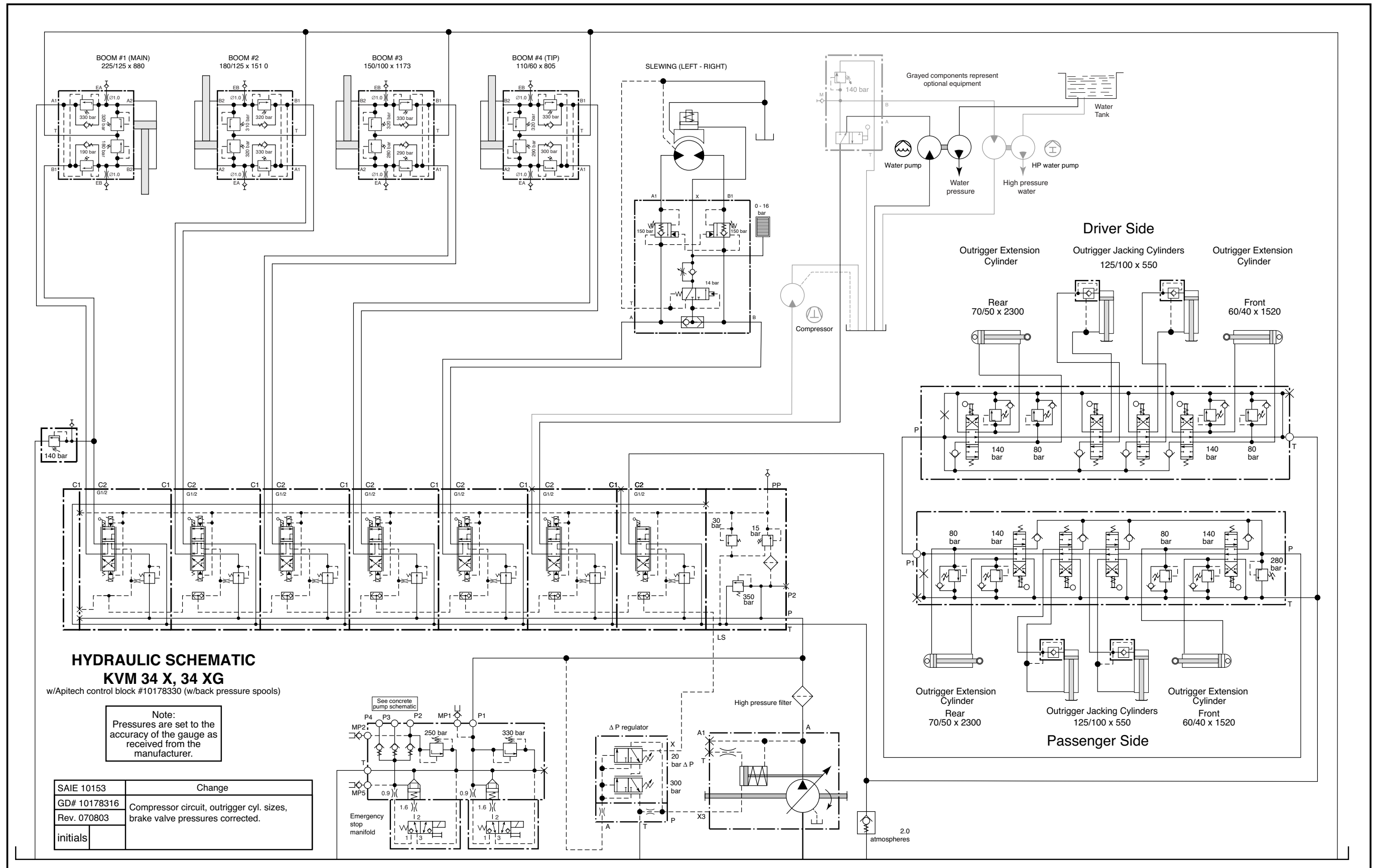


**HYDRAULIC SCHEMATIC
KVM 34 XG**

w/Apitech control block #10164768

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

SAIE 10108	Change
Rev. 062298	Release
initials	

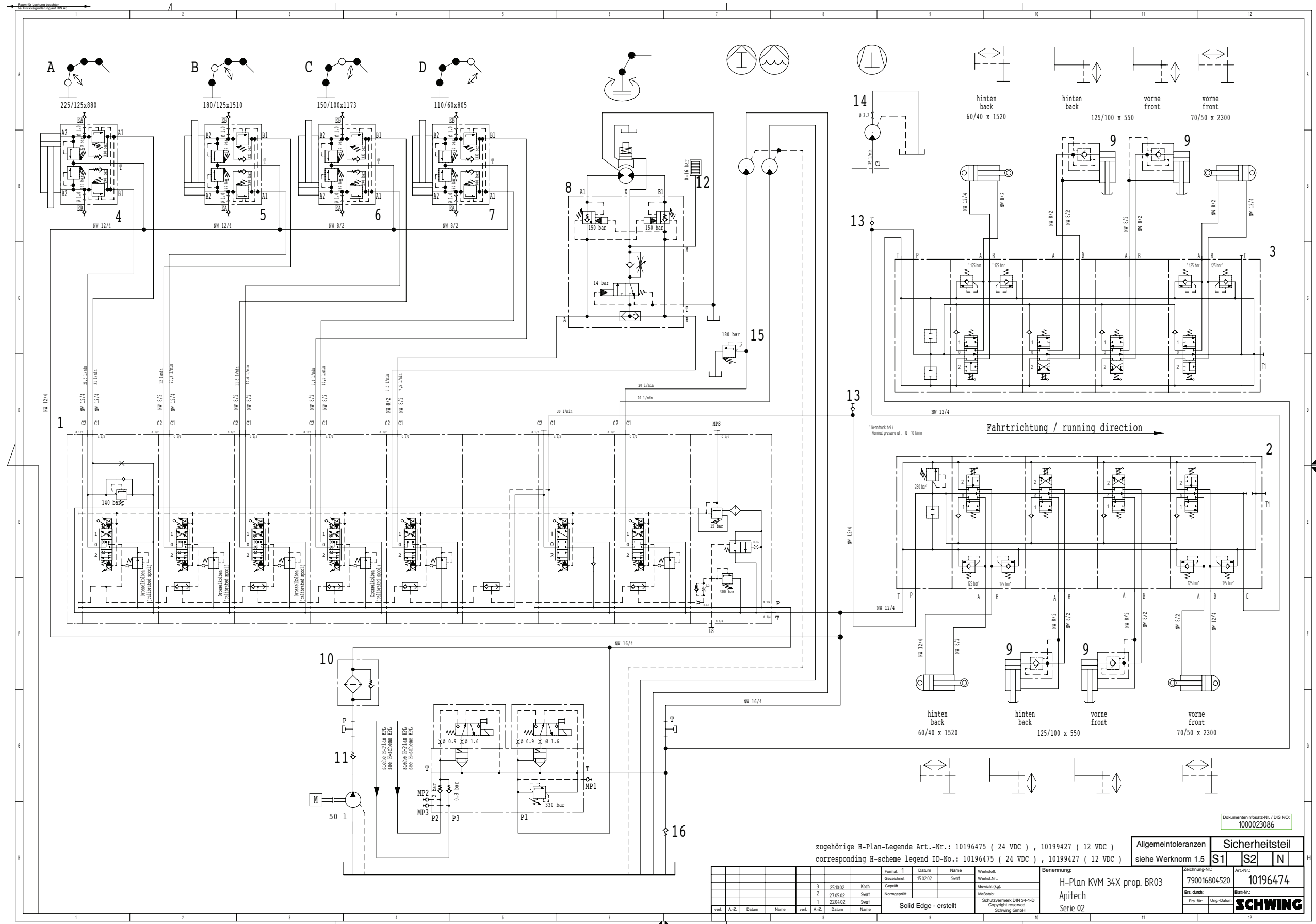


**HYDRAULIC SCHEMATIC
KVM 34 X, 34 XG**

w/Apitech control block #10178330 (w/back pressure spools)

Note:
Pressures are set to the accuracy of the gauge as received from the manufacturer.

SAIE 10153	Change
GD# 10178316	Compressor circuit, outrigger cyl. sizes, brake valve pressures corrected.
Rev. 070803	
initials	



zugehörige H-Plan-Legende Art.-Nr.: 10196475 (24 VDC), 10199427 (12 VDC)
 corresponding H-scheme legend ID-No.: 10196475 (24 VDC), 10199427 (12 VDC)

Allgemeintoleranzen siehe Werknorm 1.5	Sicherheitsteil S1 S2 N
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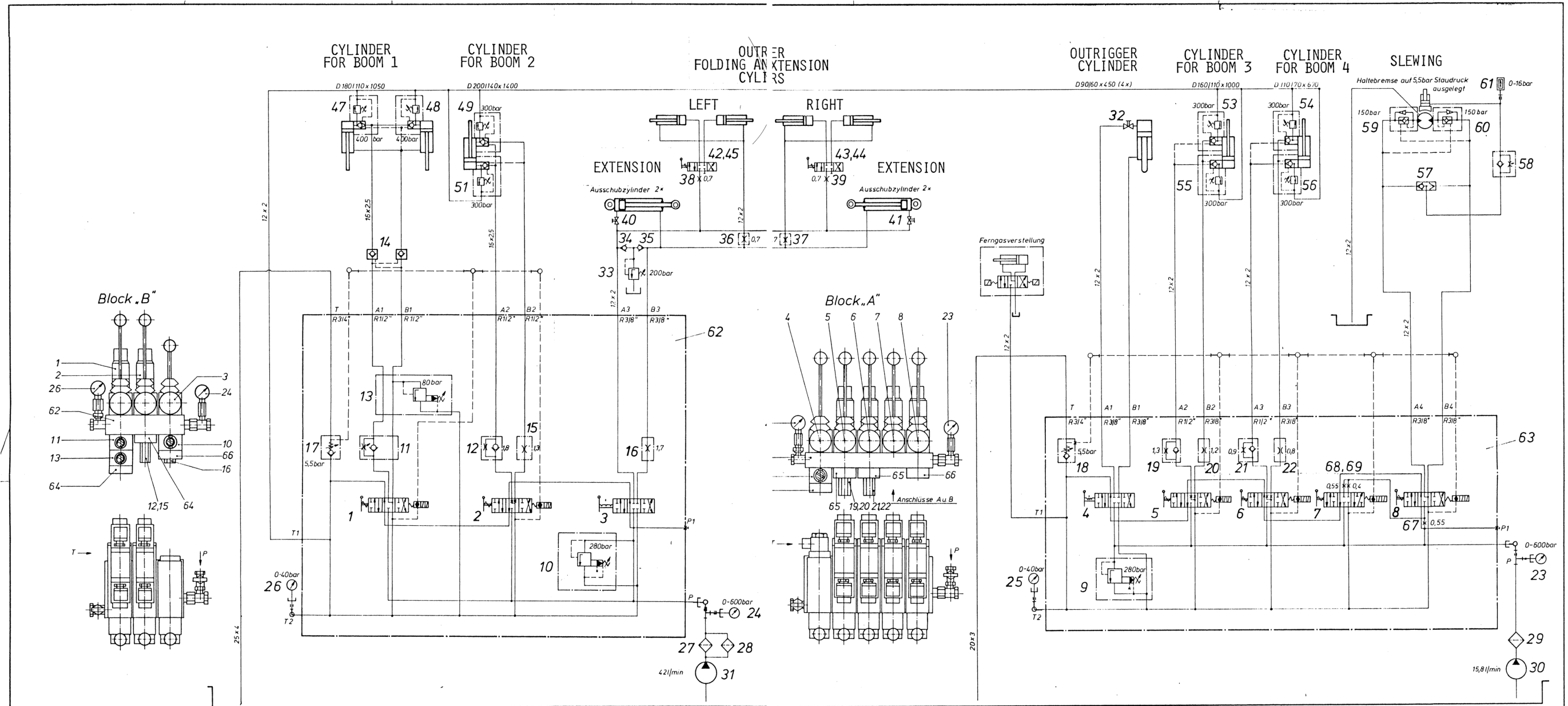
vorl.	A.-Z.	Datum	Name	vorl.	A.-Z.	Datum	Name

Format: 1 Gezeichnet: 15.02.02 Geprüft: Normgeprüft	Name: Swifl Mullstab:	Werkstoff: Werkst.Nr.: Gewicht (kg):	Benennung: H-Plan KVM 34X prop. BR03 Apitech Serie 02	Zeichnung-Nr.: 790016804520	Art.-Nr.: 10196474
Schutzmerkmal DIN 34-1-D Copyright reserved Schwing GmbH			Erst. durch: Ers. für:	Umg.-Datum:	SCHWING

HYDRAULIC SCHEMATICS

N/A

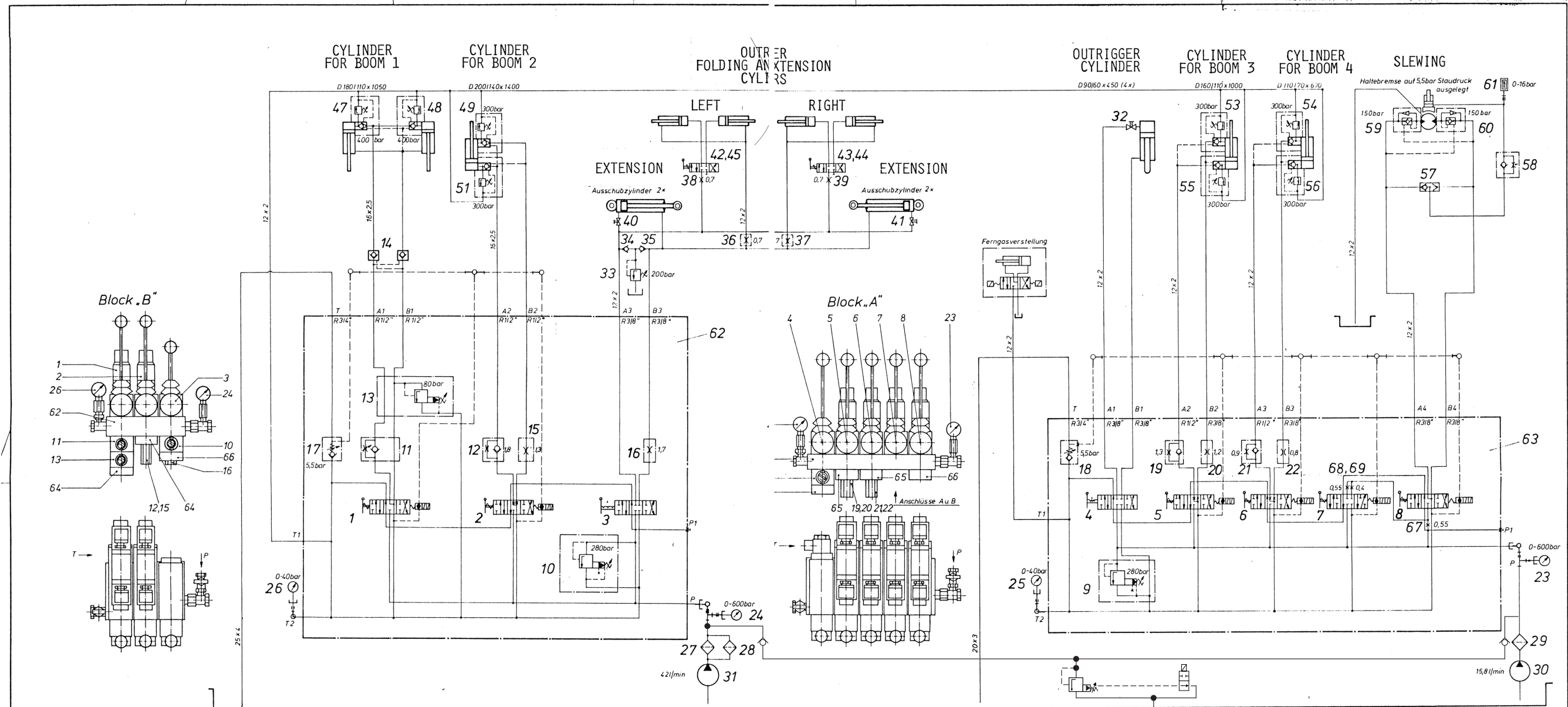
KVM 36M, HYDREL (manifold type), BLACK & WHITE



POSITION	DESCRIPTION	POSITION	DESCRIPTION	POSITION	DESCRIPTION	TECHNICAL DATA	
1.	6/3 way handvalve HVM 10632	21.	Throttle check valve R $\frac{3}{8}$ " 0.9mm K, EV 770.000	41.	Shut off valve (x2)	61.	Piston gauge 0-16 bar
2.	6/3 way handvalve HVM 10632F	22.	ORIFICE 0.8mm R3/8"	42.	Hand valve HSO 10431S	62.	Base plate NG10, 3 gang for block "B"
3.	6/3 way handvalve HSR 10631	23.	Gauge 0-600 bar	43.	Hand valve HSO 10431S	63.	Base plate NG10, 5 gang for block "A"
4.	6/3 way handvalve HSR 10631	24.	Gauge 0-600 bar	44.	Baseplate GPU 101.2	64.	End plate R $\frac{3}{8}$ "
5.	6/3 way handvalve HVM 10632F	25.	Gauge 0-40 bar	45.	Baseplate GPU 101.2	65.	End plate R $\frac{3}{8}$ "/R3/8"
6.	6/3 way handvalve HVM 10632F	26.	Gauge 0-40 bar	46.		66.	End plate R3/8"
7.	6/3 way handvalve HVM 10631/1	27.	High pressure filter	47.	Holding valve HER-SV2-R $\frac{3}{8}$ " 400 bar	67.	ORIFICE 0.55mm
8.	6/3 way handvalve HVM 10632	28.	High pressure filter	48.	Holding valve HER-SV2-R $\frac{3}{8}$ " 400 bar	68.	ORIFICE 0.55mm
9.	Pressure relief valve DVP-P-105 280 bar	29.	High pressure filter	49.	Holding valve HER-SV2-R $\frac{3}{8}$ " 300 bar	69.	ORIFICE 0.4mm
10.	Pressure relief valve DVP-P-105 280 bar	30.	Hydraulic pump 15.8 L/Min.	50.	Holding valve HER-SV2-R $\frac{3}{8}$ " 300 bar		
11.	Throttle check valve-adjustable SRD-A-10RS	31.	Hydraulic pump 42 L/Min.	51.	Holding valve HER-SV2-R $\frac{3}{8}$ " 300 bar		
12.	Throttle check valve R $\frac{3}{8}$ " 1.8mm L.EV770.000	32.	Shut off valve (x4)	52.	Holding valve HER-SV2-R $\frac{3}{8}$ " 300 bar		
13.	Pressure relief valve DVP-B/1-105 80 bar	33.	Pressure relief valve SLV-R $\frac{3}{8}$ " 200 bar	53.	Holding valve HER-SV2-R $\frac{3}{8}$ " 300 bar		
14.	Hydraulically unlockable check valve HER-4 R $\frac{3}{8}$ " (x2)	34.	Check valve RS 12 LS-A1	54.	Holding valve HER-SV2-R $\frac{3}{8}$ " 300 bar		
15.	ORIFICE 1.3mm R $\frac{3}{8}$ " C EV 302.001	35.	Check valve RS 12 LS-A1	55.	Holding Valve HER-SV2-R $\frac{3}{8}$ " 300 bar		
16.	ORIFICE 1.7mm D R3/8"	36.	ORIFICE 0.7mm R3/8" EV 302004	56.	Holding valve HER-SV2-R $\frac{3}{8}$ " 300 bar		
17.	Pretension valve VV-2-R3/4"	37.	ORIFICE 0.7mm R3/8" EV 302004	57.	Shuttle valve 544.08.0.2.00		
18.	Pretension valve VV-2-R3/4"	38.	ORIFICE 0.7mm A R3/8"	58.	Throttle check valve MK6-G1		
19.	Throttle check valve R $\frac{3}{8}$ " 1.3mm C, EV 770.000	39.	ORIFICE 0.7mm A R3/8"	59.	Brake valve 150 bar		
20.	ORIFICE 1.2mm F R3/8"	40.	Shut off valve (x4)	60.	Brake valve 150 bar		

Alle Ecken und Kanten unter 45° angedreht.		Abweichungen für Maße ohne Toleranzangabe nach DIN 7168, Genauigkeitsgrad mittel		Zur Größe-Rohstufe R $\frac{3}{8}$ bei Oberflächen nach DIN 7167		Für diese Zeichnung behalten wir uns alle Rechte vor. Ohne unsere vorherige Zustimmung darf sie weder vervielfältigt, noch Dritten zugänglich gemacht werden.		35
Gezeichnet	Datum	Name	Maßstab	Werkstoff:		SCHWING Zeichnung-Nr. 79001680405 1 Ersatz für Ers. durch		
30.8.79								
Benennung: Hydraulikschaltplan Maststeuerung KVM36 Plattenbauweise								

KVM 36M, HYDREL (manifold type) & DUMP VALVE, BLACK & WHITE

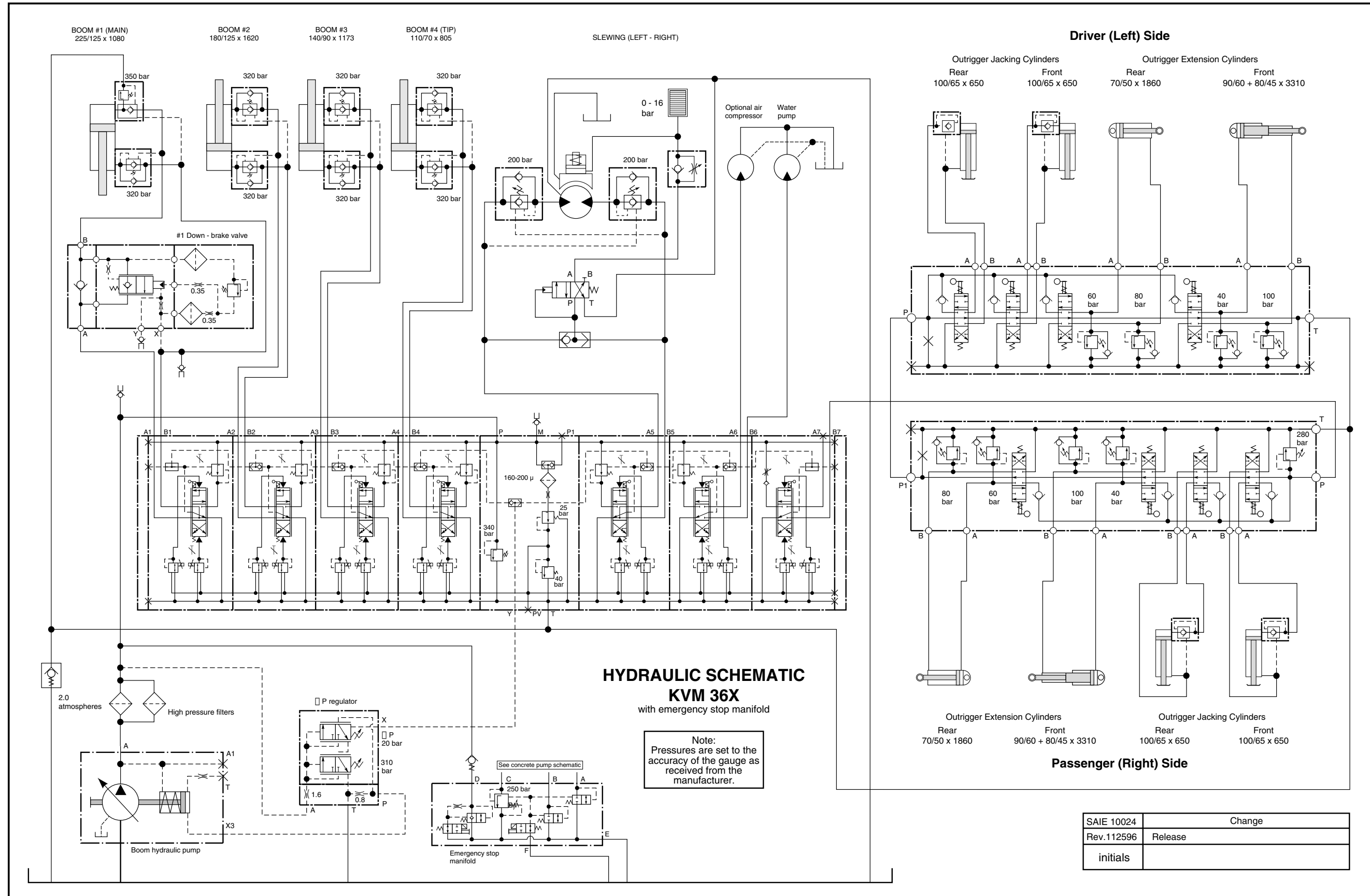


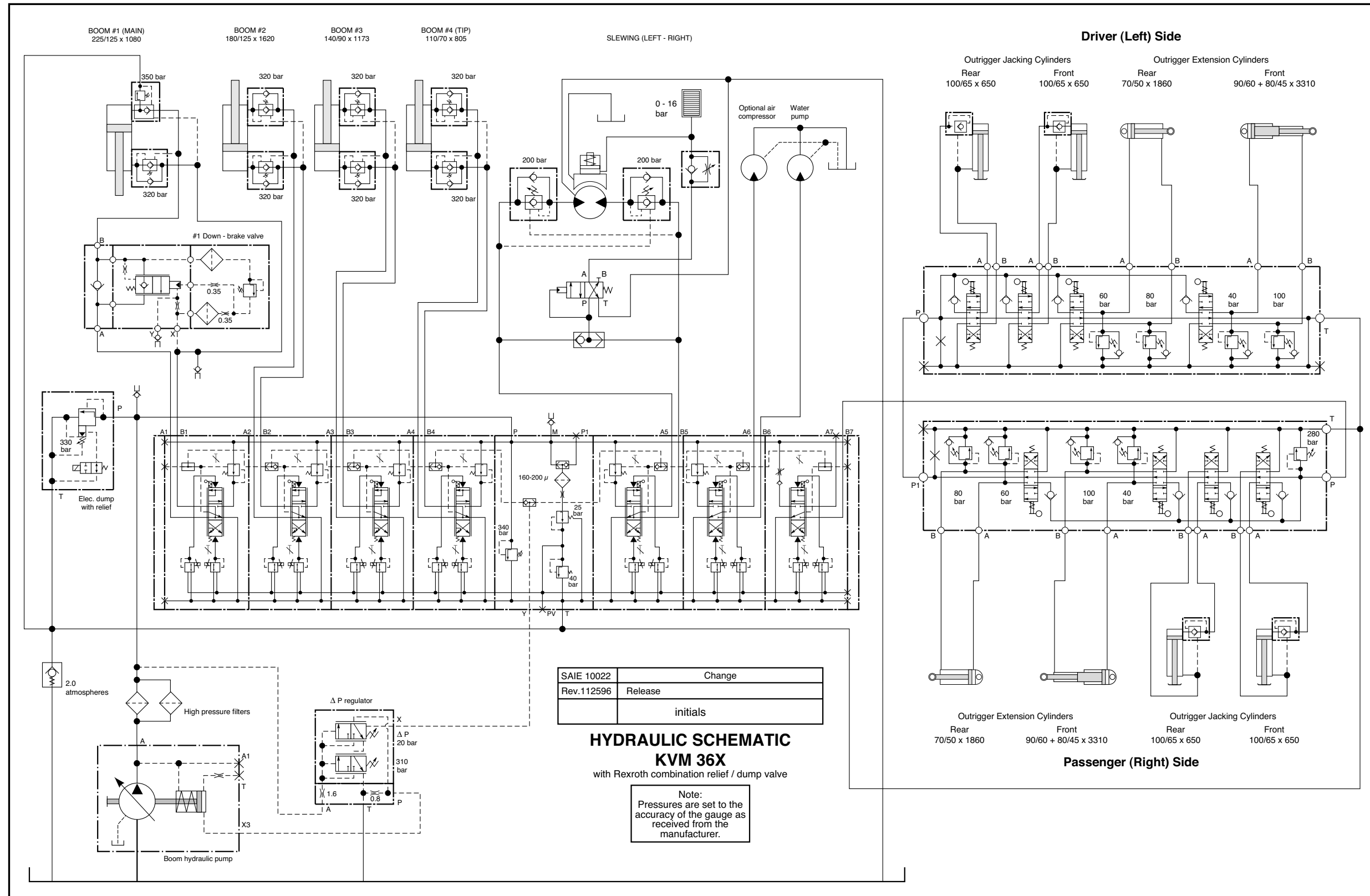
POSITION

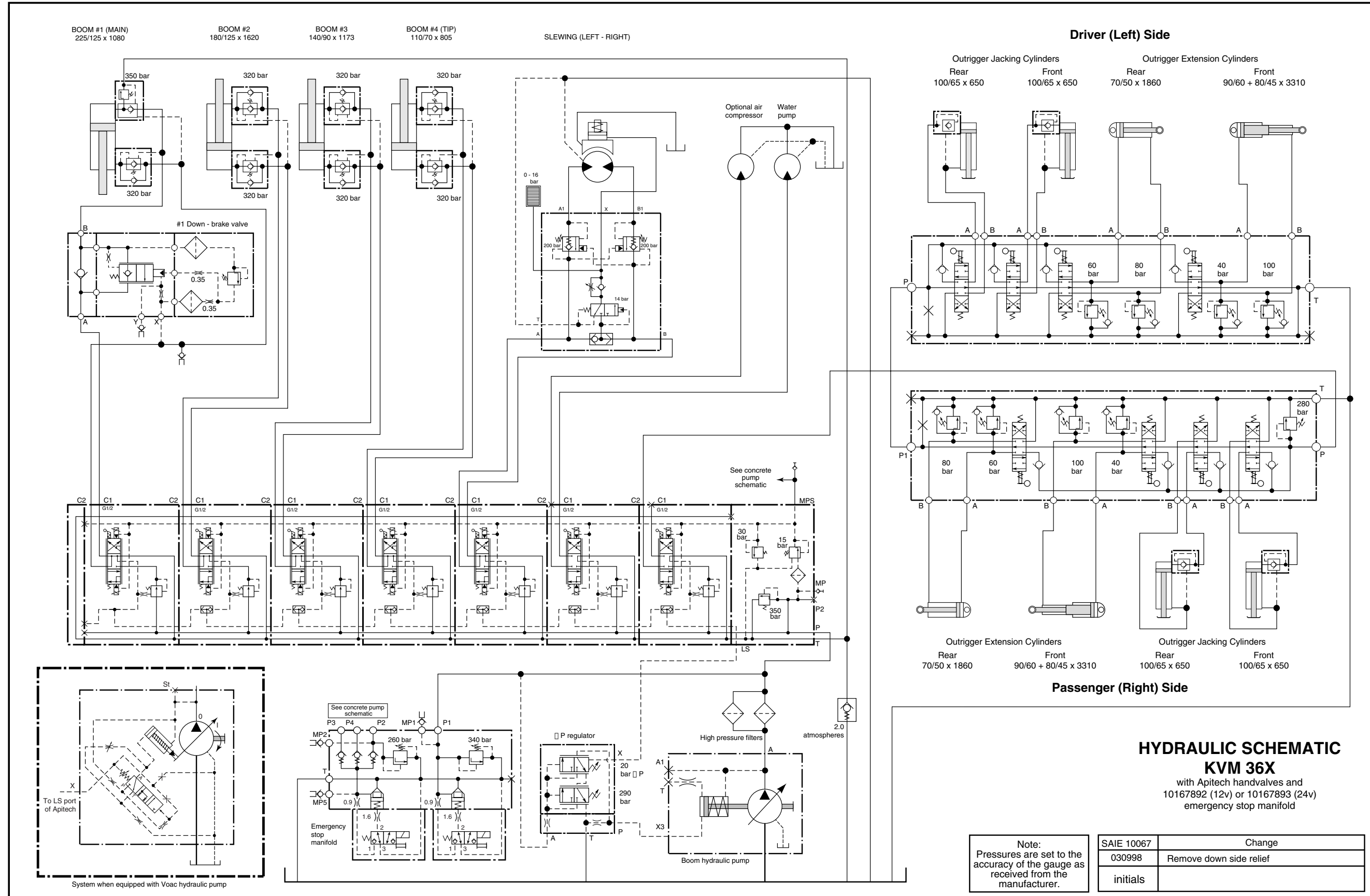
DESCRIPTION

1.	6/3 way handvalve HVM 10632	21.	Throttle check valve R $\frac{1}{2}$ " 0.9mm K, EV 770.000	41.	Shut off valve (x2)	61.	Piston gauge 0-16 bar	TECHNICAL DATA Pressure max 280 bar Flow max Q1=42 L/Min. Flow max Q2=15.8 L/Min. Maximum oil temp. = 80°C (176°F) Control = 12 volts
2.	6/3 way handvalve HVM 10632F	22.	ORIFICE 0.8mm R3/8"	42.	Hand valve HSO 10431S	62.	Base plate NG10, 3 gang for block 'B'	
3.	6/3 way handvalve HSR 10631	23.	Gauge 0-600 bar	43.	Hand valve HSO 10431S	63.	Base plate NG10, 5 gang for block 'A'	
4.	6/3 way handvalve HSR 10631	24.	Gauge 0-600 bar	44.	Baseplate GPU 101.2	64.	End plate R $\frac{1}{2}$ "	
5.	6/3 way handvalve HVM 10632F	25.	Gauge 0-40 bar	45.	Baseplate GPU 101.2	65.	End plate R $\frac{1}{2}$ "/R3/8"	
6.	6/3 way handvalve HVM 10632F	26.	Gauge 0-40 bar	46.		66.	End plate R3/8"	
7.	6/3 way handvalve HVM 10631/1	27.	High pressure filter	47.	Holding valve HER-SV2-R $\frac{1}{2}$ " 400 bar	67.	ORIFICE 0.55mm	
8.	6/3 way handvalve HVM 10632	28.	High pressure filter	48.	Holding valve HER-SV2-R $\frac{1}{2}$ " 400 bar	68.	ORIFICE 0.55mm	
9.	Pressure relief valve DVP-P-105 280 bar	29.	High pressure filter	49.	Holding valve HER-SV2-R $\frac{1}{2}$ " 300 bar	69.	ORIFICE 0.4mm	
10.	Pressure relief valve DVP-P-105 280 bar	30.	Hydraulic pump 15.8 L/Min.	50.	Holding valve HER-SV2-R $\frac{1}{2}$ " 300 bar			
11.	Throttle check valve-adjustable SRD-A-10RS	31.	Hydraulic pump 42 L/Min.	51.	Holding valve HER-SV2-R $\frac{1}{2}$ " 300 bar			
12.	Throttle check valve R $\frac{1}{2}$ " 1.8mm L.EV770.000	32.	Shut off valve (x4)	52.	Holding valve HER-SV2-R $\frac{1}{2}$ " 300 bar			
13.	Pressure relief valve DVP-B/1-105 80 bar	33.	Pressure relief valve SLV-R $\frac{1}{2}$ " 200 bar	53.	Holding valve HER-SV2-R $\frac{1}{2}$ " 300 bar			
14.	Hydraulically unlockable check valve HER-4 R $\frac{1}{2}$ " (x2)	34.	Check valve RS 12 LS-A1	54.	Holding valve HER-SV2-R $\frac{1}{2}$ " 300 bar			
15.	ORIFICE 1.3mm R $\frac{1}{2}$ " C EV 302.001	35.	Check valve RS 12 LS-A1	55.	Holding Valve HER-SV2-R $\frac{1}{2}$ " 300 bar			
16.	ORIFICE 1.7mm D R3/8"	36.	ORIFICE 0.7mm R3/8" EV 302004	56.	Holding valve HER-SV2-R $\frac{1}{2}$ " 300 bar			
17.	Pretension valve VV-2-R3/4"	37.	ORIFICE 0.7mm A R3/8" EV 302004	57.	Shuttle valve 544.08.0.2.00			
18.	Pretension valve VV-2-R3/4"	38.	ORIFICE 0.7mm A R3/8"	58.	Throttle check valve MK6-G1			
19.	Throttle check valve R $\frac{1}{2}$ " 1.3mm C, EV 770.000	39.	ORIFICE 0.7mm A R3/8"	59.	Brake valve 150 bar			
20.	ORIFICE 1.2mm F R3/8"	40.	Shut off valve (x4)	60.	Brake valve 150 bar			

Alle Ecken und Kanten unter 45° anfertigen!		Abweichungen für Maße ohne Toleranzangabe nach DIN 7180, Genauigkeitsgrad mittel		Zu große Rundhals R1 im Überfließen nach DIN 3167		Für diese Zeichnung behalten wir uns alle Rechte vor. Ohne unsere vorherige Zustimmung darf sie weder vervielfältigt, noch Dritten zugänglich gemacht werden.	
Gezeichnet	30.8.79	Name	Mü	Maßstab	/	Werkstoff	
Geprüft							
Normgeber							
Benennung: Hydraulikschaltplan Maststeuerung KVM36 Plattenbauweise							Zeichnung Nr. 790016804051
							Ersatz für Era durch



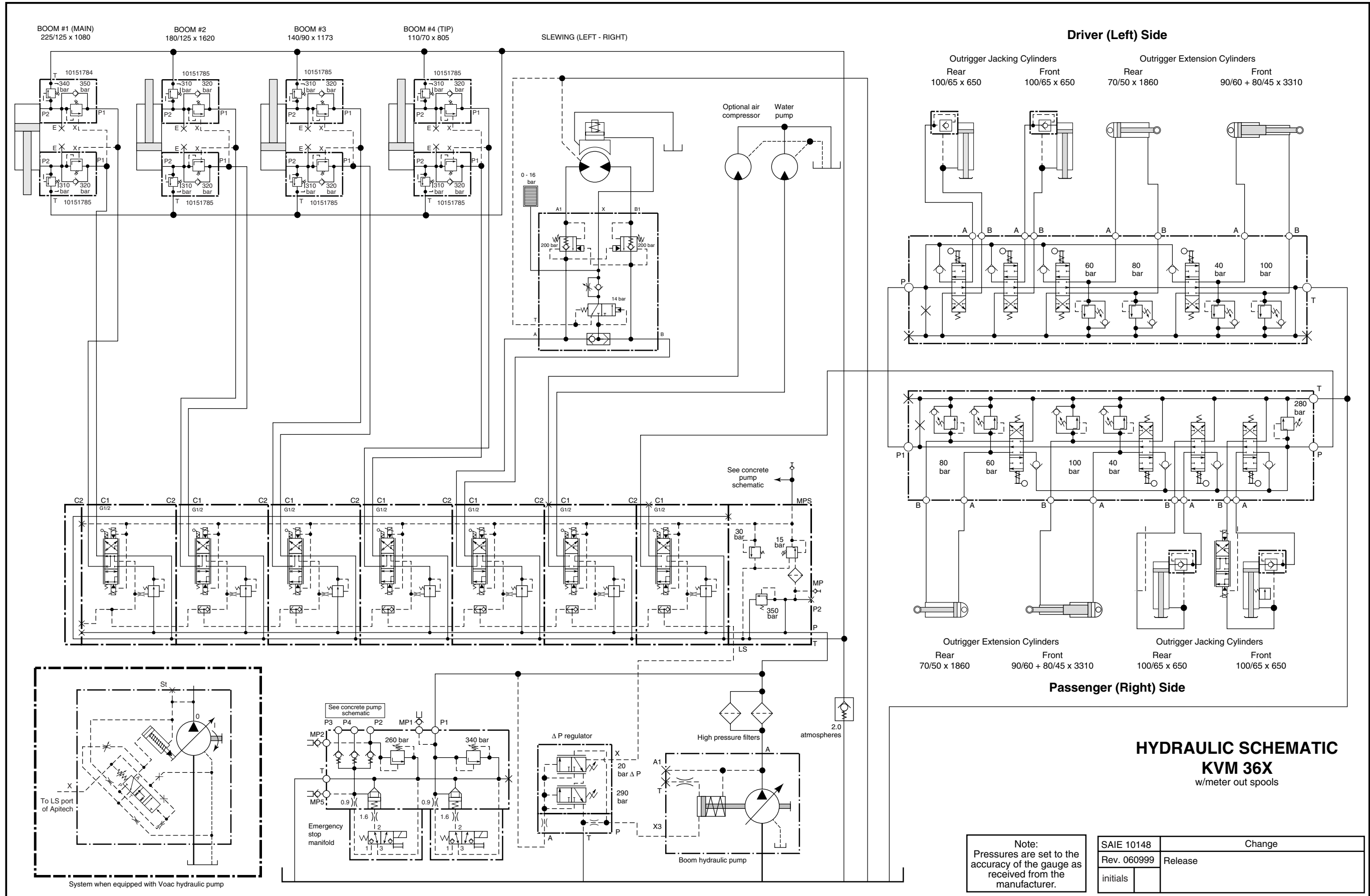




HYDRAULIC SCHEMATIC
KVM 36X
 with Apitech handvalves and
 10167892 (12v) or 10167893 (24v)
 emergency stop manifold

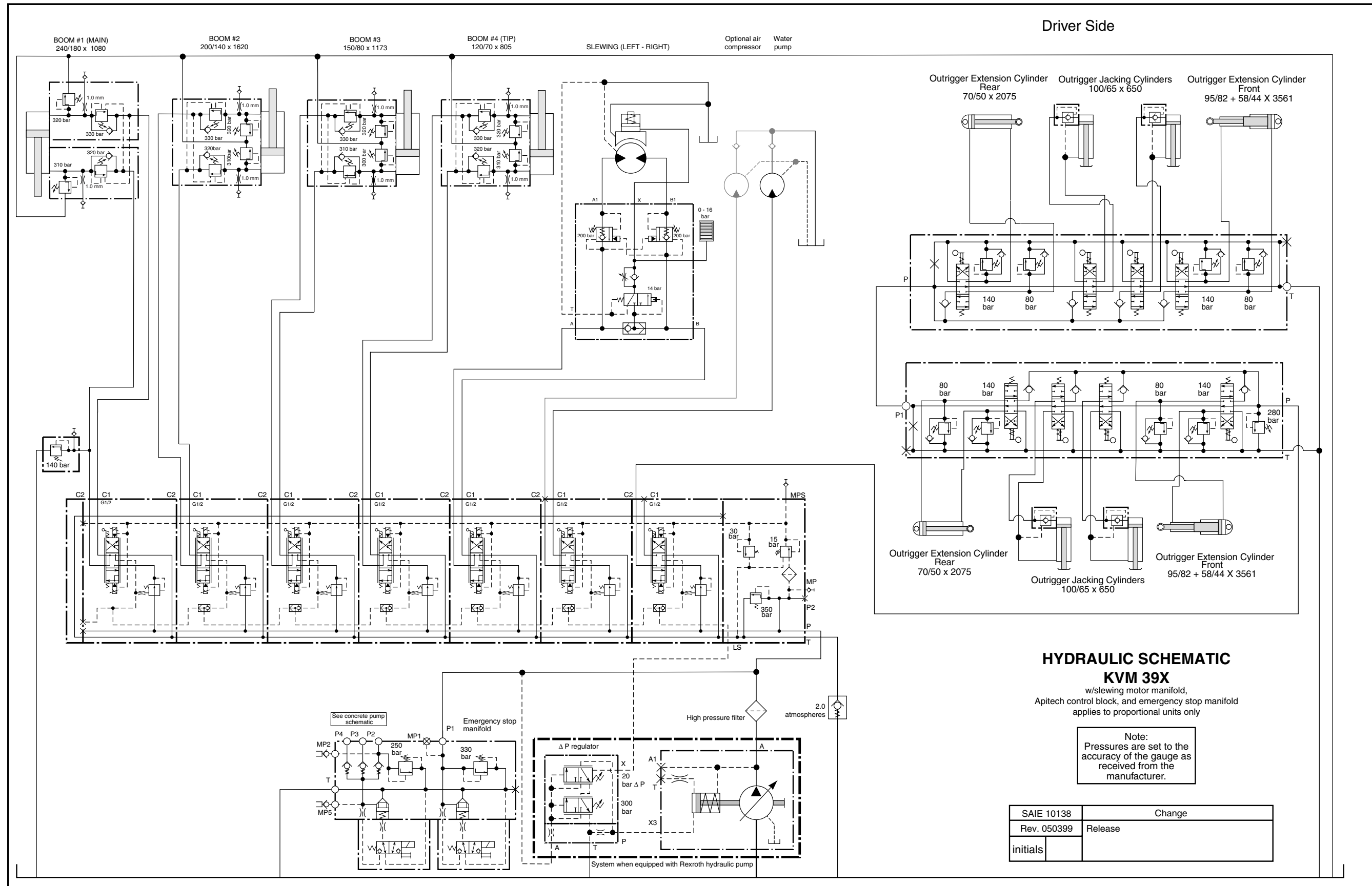
Note:
 Pressures are set to the
 accuracy of the gauge as
 received from the
 manufacturer.

SAIE 10067	Change
030998	Remove down side relief
initials	



Note:
Pressures are set to the accuracy of the gauge as received from the manufacturer.

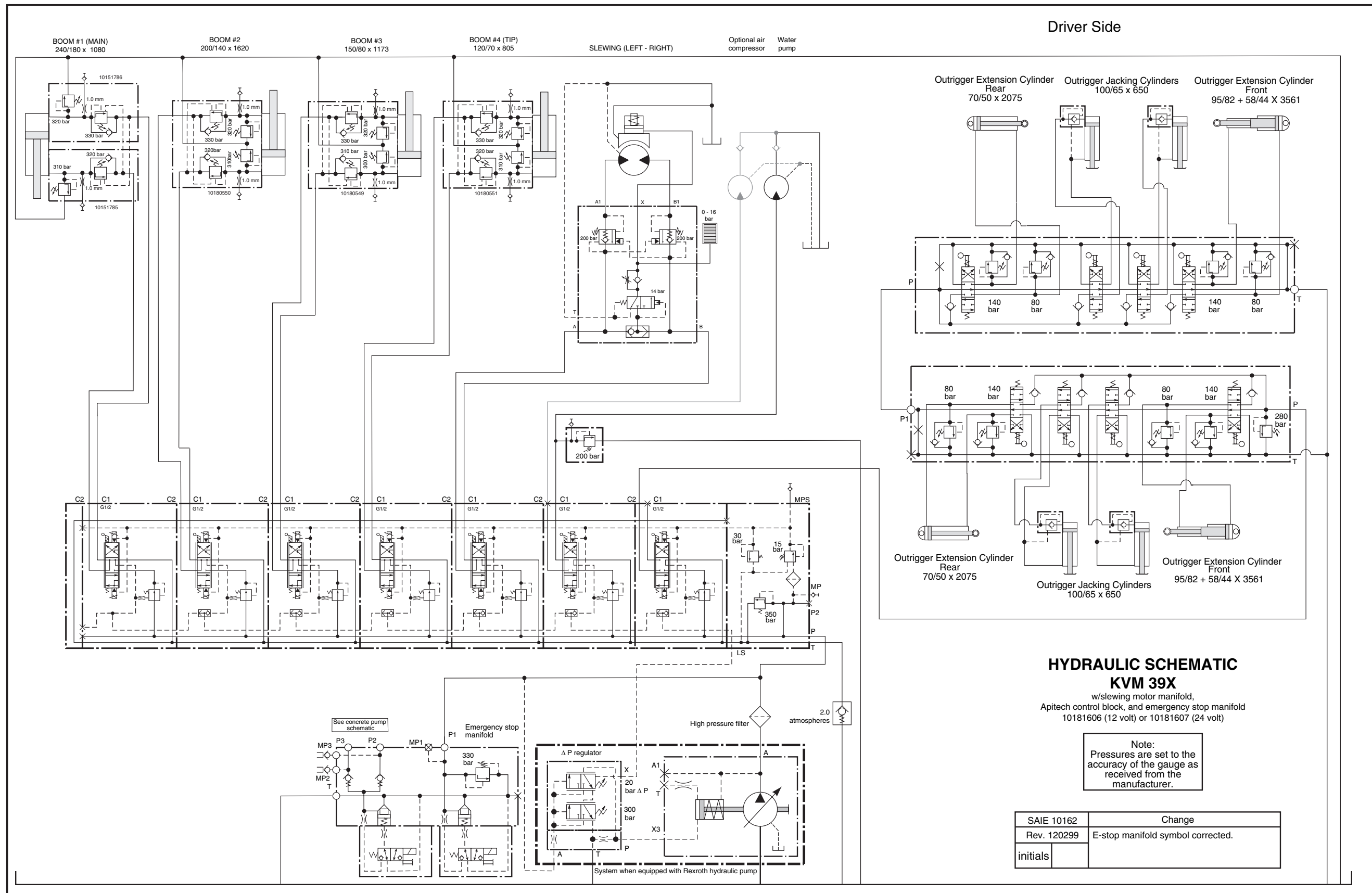
SAIE 10148	Change
Rev. 060999	Release
initials	



HYDRAULIC SCHEMATIC
KVM 39X
 w/slewing motor manifold,
 Apitech control block, and emergency stop manifold
 applies to proportional units only

Note:
 Pressures are set to the
 accuracy of the gauge as
 received from the
 manufacturer.

SAIE 10138	Change
Rev. 050399	Release
initials	

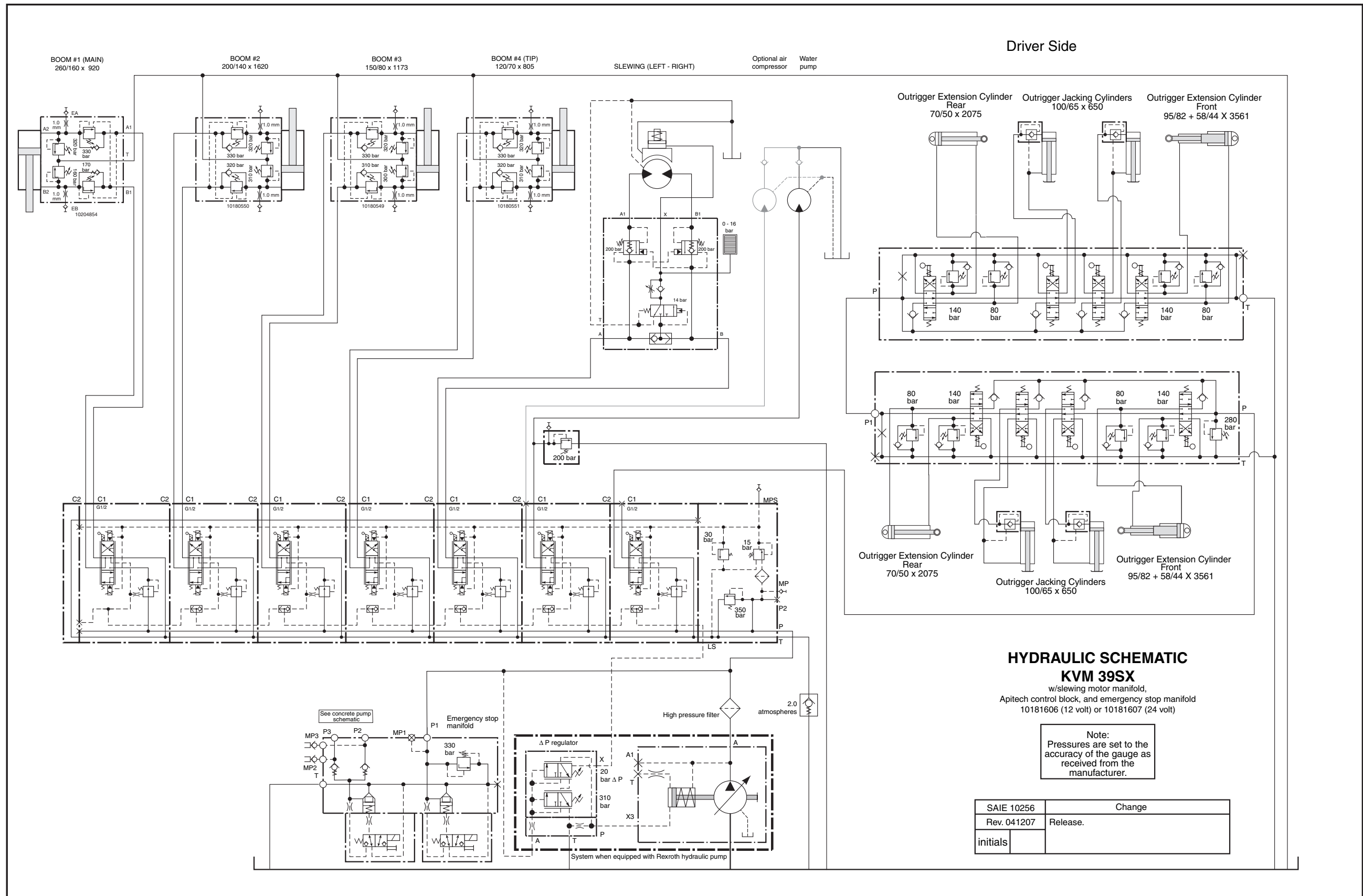


**HYDRAULIC SCHEMATIC
KVM 39X**

w/slewing motor manifold,
Apitech control block, and emergency stop manifold
10181606 (12 volt) or 10181607 (24 volt)

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

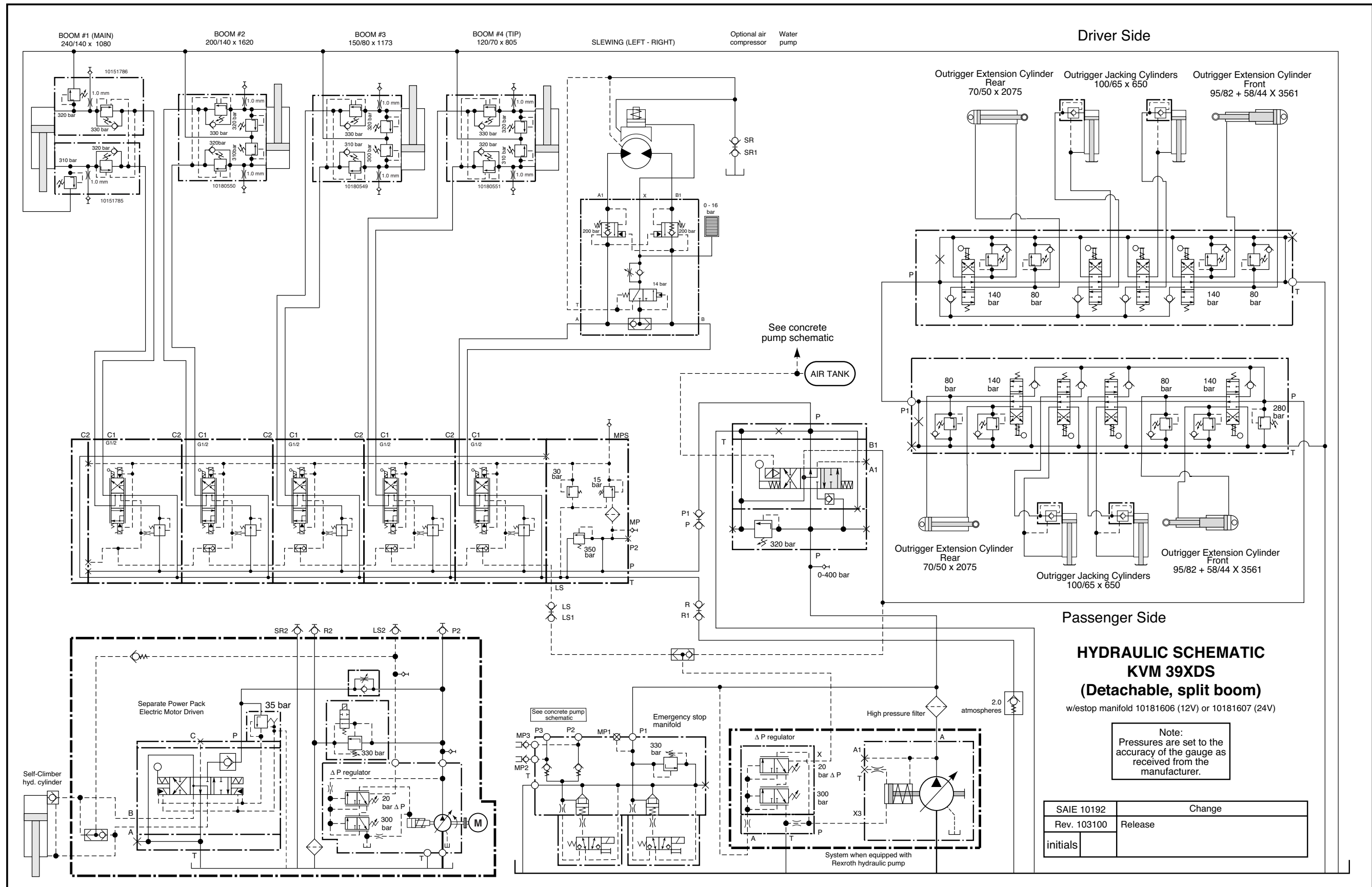
SAIE 10162	Change
Rev. 120299	E-stop manifold symbol corrected.
initials	

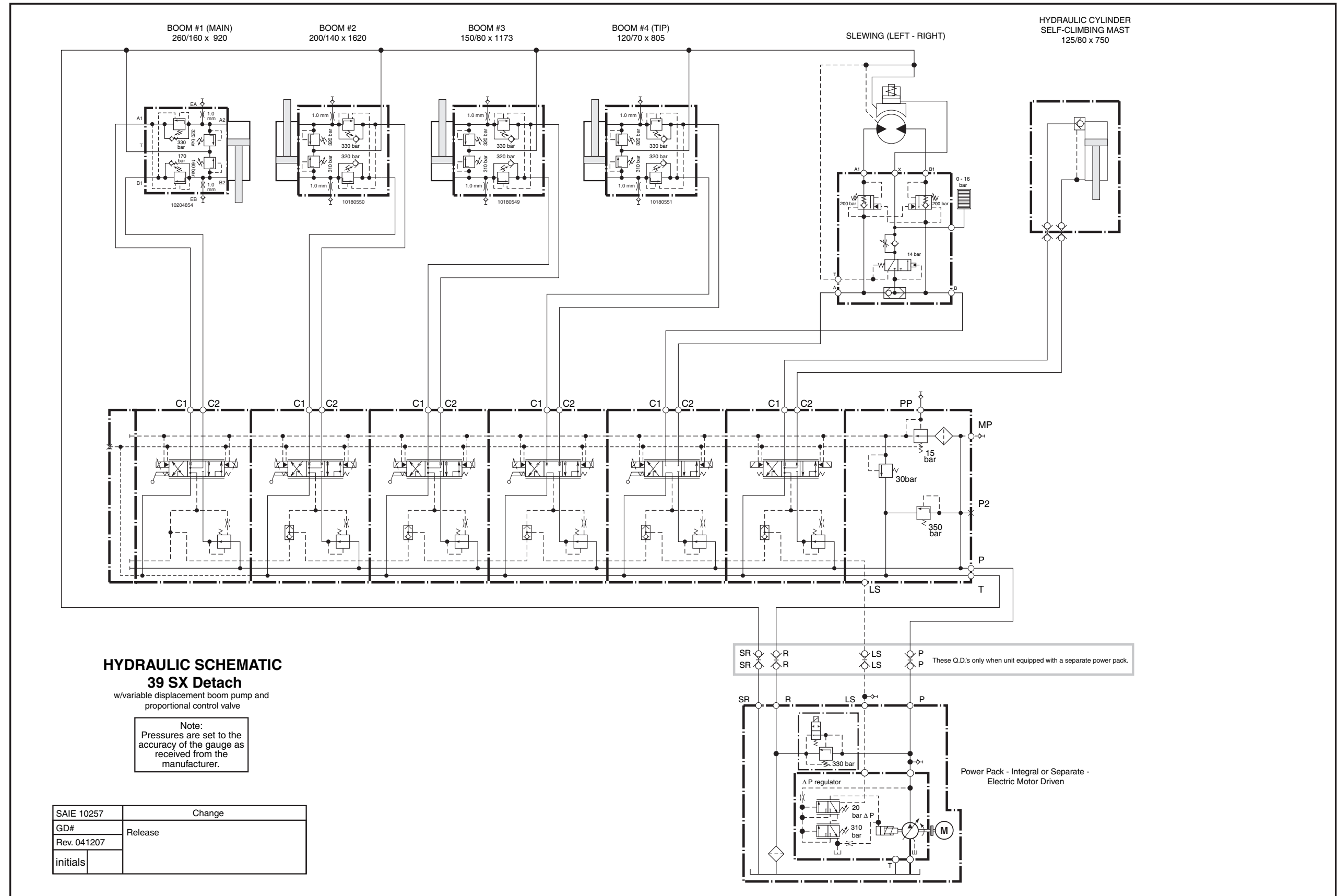


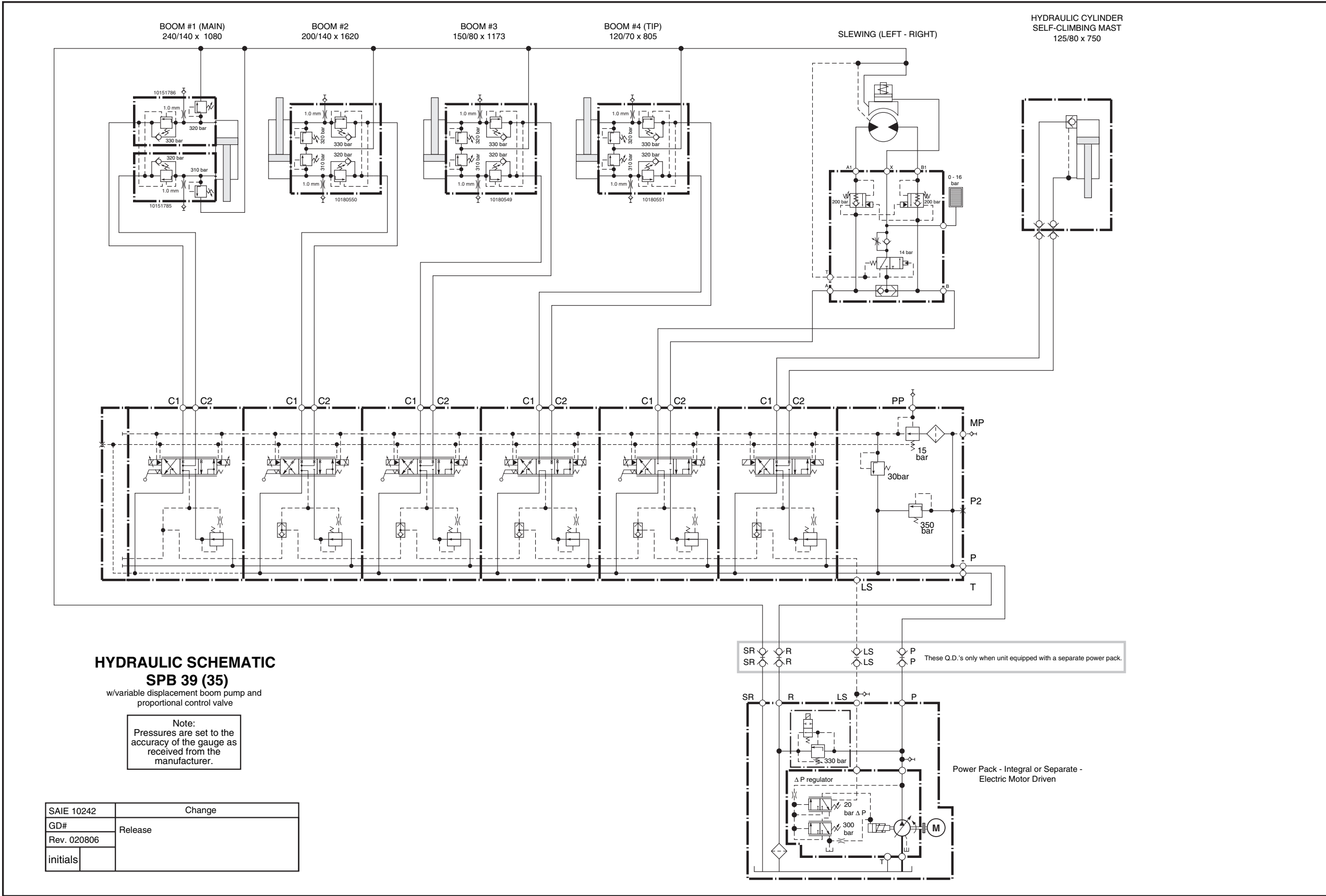
HYDRAULIC SCHEMATIC
KVM 39SX
 w/slewing motor manifold,
 Apitech control block, and emergency stop manifold
 10181606 (12 volt) or 10181607 (24 volt)

Note:
 Pressures are set to the
 accuracy of the gauge as
 received from the
 manufacturer.

SAIE 10256	Change
Rev. 041207	Release.
initials	

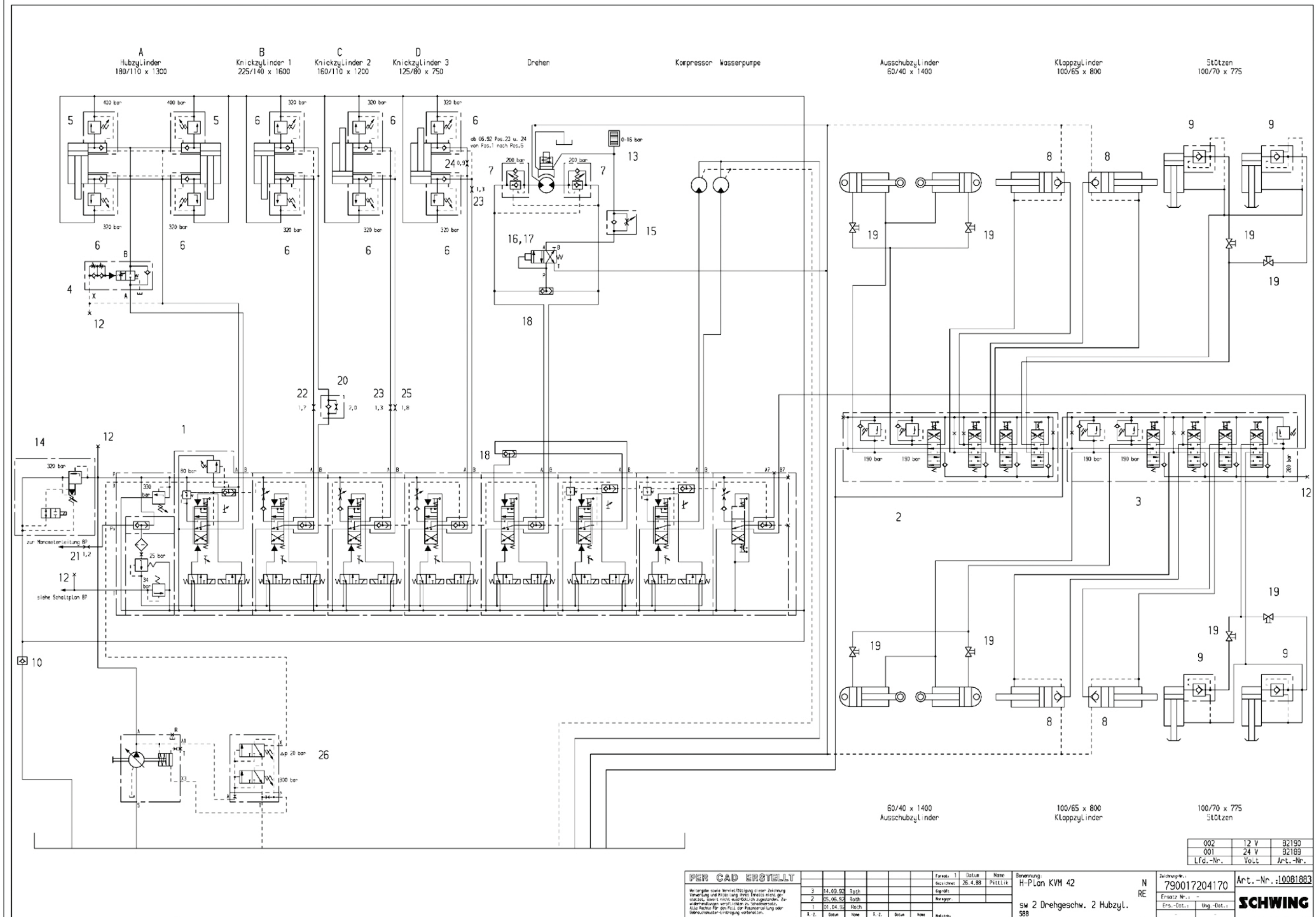






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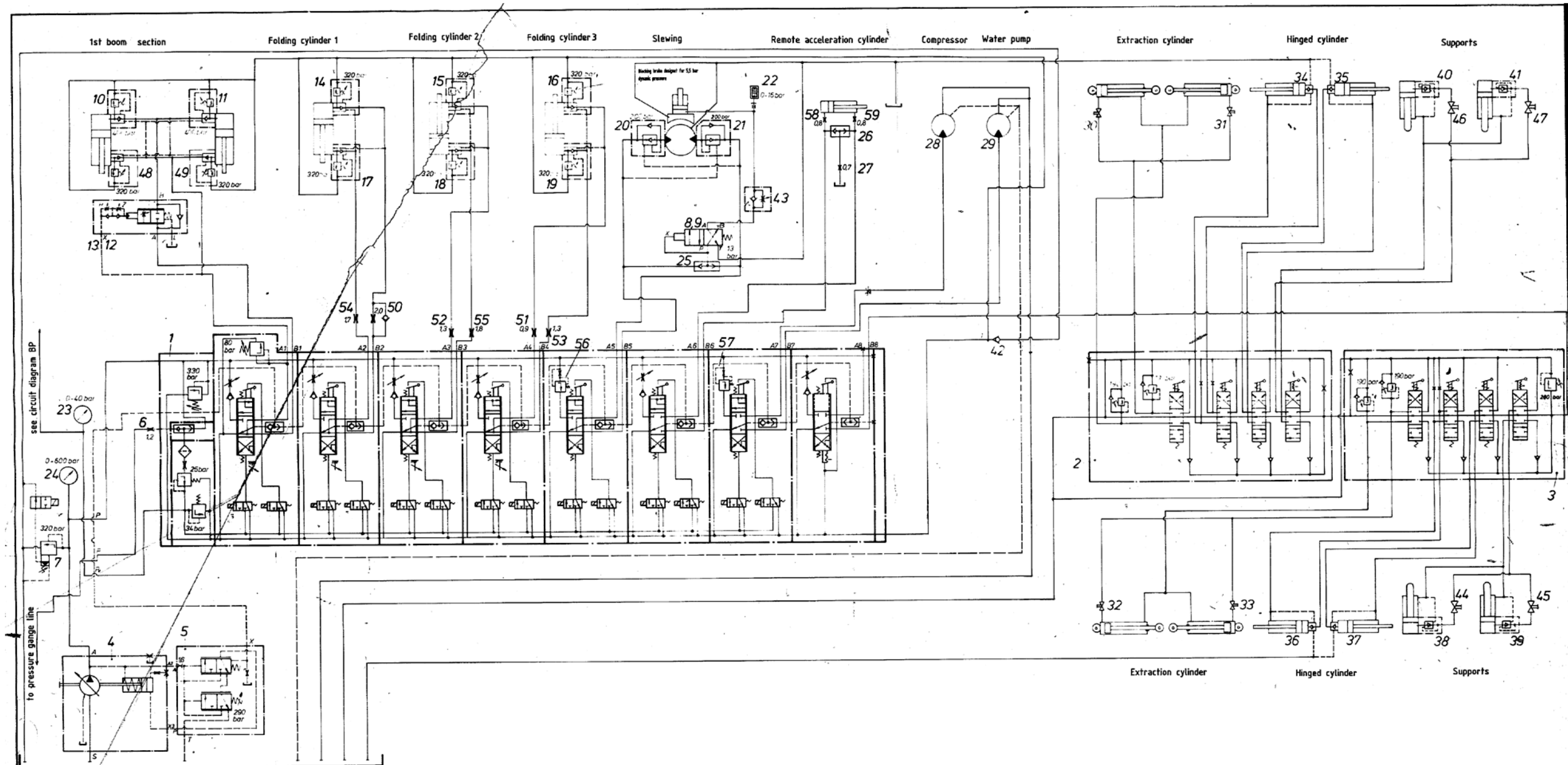
KVM 42



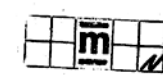
002	12 V	B2190
001	24 V	B2189
Lfd.-Nr.	Vol.	Art.-Nr.

PER CAD ERSTELLT				Formel. 1	Datum	Name	Benennung	Zweck	Art.-Nr.
3	14.09.92	Both		26.4.88	PILLIK	H-Plan KVM 42	N	790017204170	Art.-Nr.: 10081883
2	25.06.92	Both					RE		
1	01.04.92	Both							
1.2.	Both	Now	1.2.	Both	Now	Hydraul.			

sw 2 Drehgeschw. 2 Hubzyl.



Pos.	Benennung	Art. Nr.	Pos.	Benennung	Art. Nr.
1	Valve block SP1017-0018 SP 12L 1X with 3WE 4X11X AG 12 74 OR 3WE 4X11X AG 24 74		30-33	Globe valve 9HV 400 S 11	4685
2	Valve block HV 07-4157	37294	34-41	Hydraulically unlockable check valve HER-4-R ^{1/2} "	7779
3	Valve block HV 07-4158	37298	42	Hydraulically unlockable check valve HERF-1-10	14585
4	Hydraulic pump ATV Dr		43	Check valve S 20 A 2	14967
5	Pressure and ΔP governor	33538	43	One-way restrictor MK 6-G1	9304
6	Nozzle 1,2mm F EV 302.004	67689	44-47	Globe valve 9 MV 400 S 11	4685
7	Pressure limit valve DBW 20B 21/315 320 bar	33536	48-49	Hydraulically unlockable check valve HER-F-SV2-6,25 320 bar	49891
8	Reversing valve	7930	50	One-way restrictor EV 770.000 R ^{1/2} " 2,0 mm	32243
9	Base plate R 1/4" lateral GPS 0612	7947	52-53	Nozzle 0,9mm K EV 302.004	37858
10-11	Hydraulically unlockable check valve HER-F-SV1-10 400 bar	39659	54	Nozzle 1,3mm C EV 302.004	33543
12	Brake valve NG 10, 1.1555/1291B	45972	55	Nozzle 1,7mm D EV 302.004	12079
13	Connection valve		56	Nozzle 1,8mm L EV 302.004	37859
14-19	Hydraulically unlockable valve HER-F-SV2-6,25 320bar	49891	57	Current limiter SI	62506
20-21	Lowering brake valve GSB 80 200 bar	16427	58-59	Current limiter 20l	58993
22	Piston gauge 0-16 bar			Nozzle 0,8mm	33540
23	Pressure gauge 0-40 bar	12414			
24	Pressure gauge 0-600 bar	4661			
25-26	Shuttle valve 544.08.02.00	12814			
27	Nozzle 0,7mm	13886			
28	Motor compressor				
29	Motor water pump				

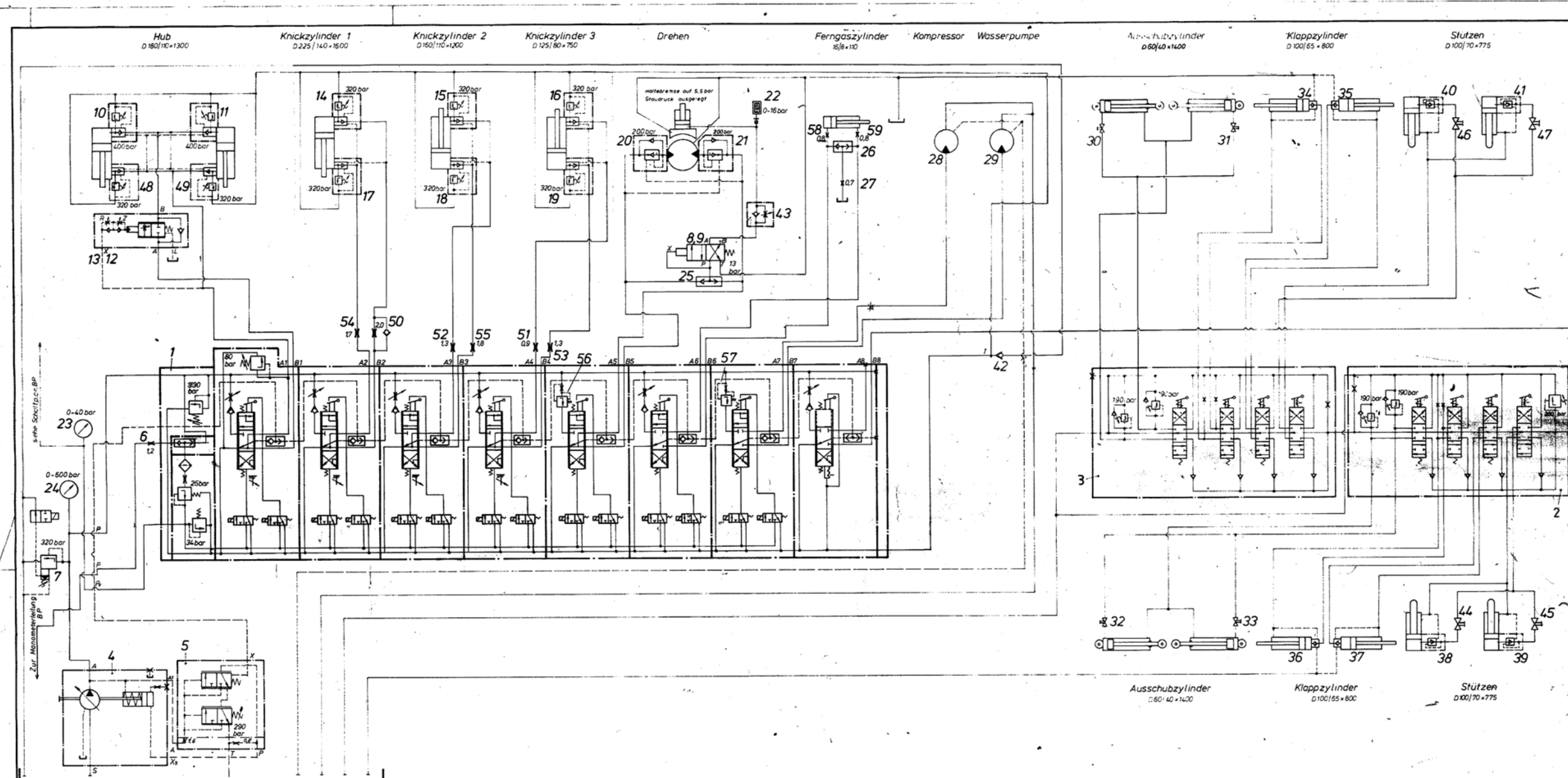


Art. Nr. 43631

Alle Ecken und Kanten unter 1:1 angedeutet Auslegen unter 90° vom Gew. Rand 2° einschlagen eintragen unter 120° vom Gew. Außen 0° einschlagen	Abweichungen für Maße ohne Toleranz, gegeben nach DIN 7182 nach DIN 7182	Zur großen Raute 1:1 bei Oberflächen nach DIN 7182	Für diese Zeichnung behalten wir uns das Recht vor, ohne unsere vorherige Zustimmung auf die weitere Verarbeit- barkeit, nach Dritten übertragen zu verleihen.
Gezeichnet: 9.5.84	Datum	Name	Werkstoff:
Geprüft:		Kelch	
Montage:			
Benennung: Hydraulic circuit diagram Boom control KVM 42 with pressure governor (12V and 24V). Black and white. Peries as of 5/85			Zeichnung-Nr. 790017204090
Erstellt für:			Ersatz für:
Ers. durch:			

10043631b

KVM 42



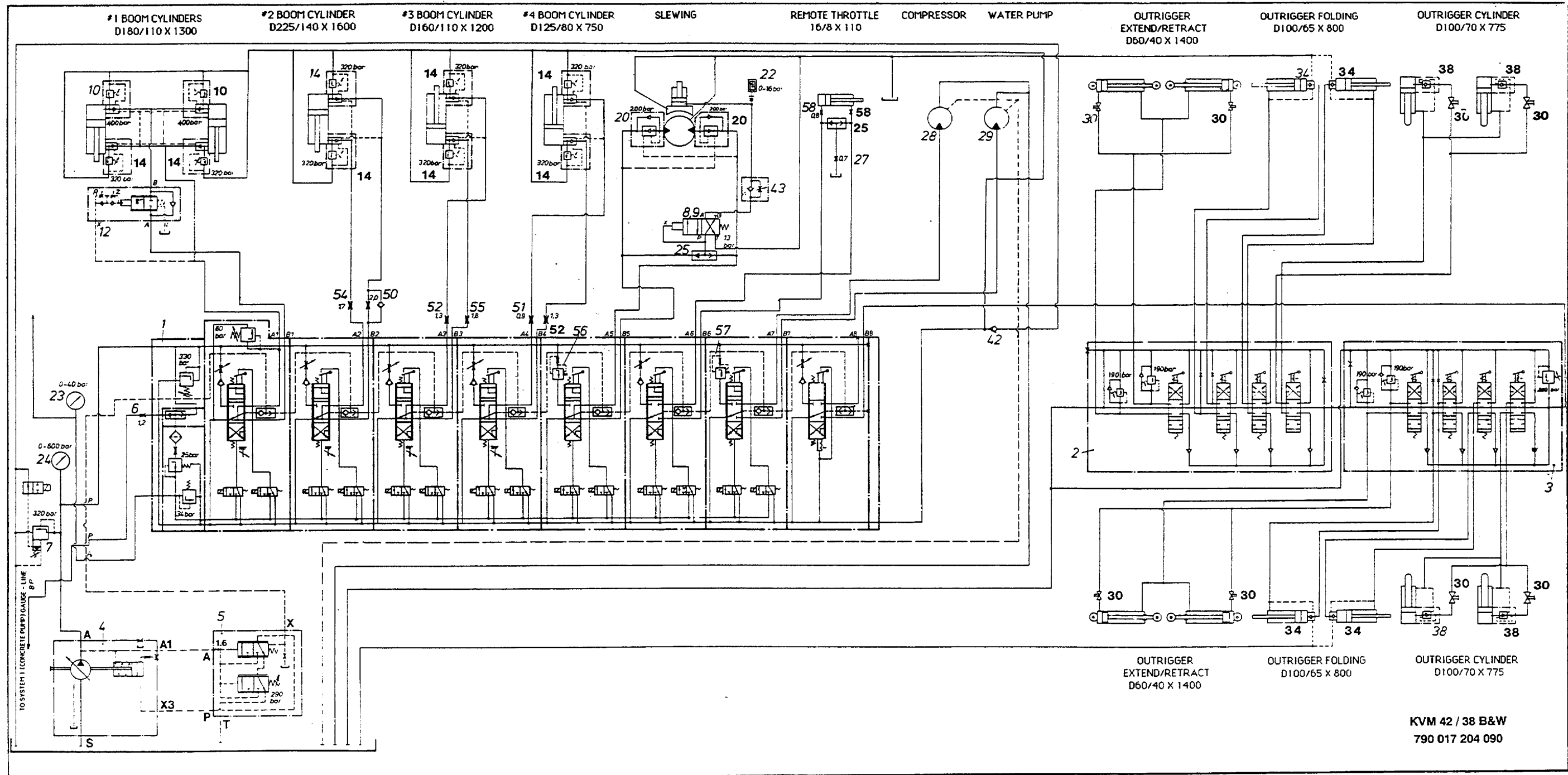
Pos.	Benennung	Art.Nr.	Pos.	Benennung	Art.Nr.
1	Ventilblock SPI017-00/8 SP 12 L 1X mit 3WE 4/3X/K AB 12-24 oder 3WE 4/3X/K AB 24-24		30-33	Niederschraubventil 9MV 400 S11	4685
2	Ventilblock HV 07-4157A	37294	34-37	Hydr.-entsperrbares Rückschlagventil HER-L-R 1 1/2	7779
3	Ventilblock HV 07-4158	37298	38-41	Hydr.-entsperrbares Rückschlagventil HERF -1-10	14585
4	Hydraulikpumpe ATV Dr		42	Rückschlagventil S20 A2	14967
5	Druck- und p-Regler	33538	43	Drosselrückschlagventil MK 6-G1	9304
6	Düse 12mm F EV 302.004	67689	44-47	siehe Pos. 30	4685
7	Druckbegrenzungsventil DBW 20B 21/315 320bar	33536	48-49	Hydr.-entsperrb. Rückschlagventil HER-F-SV2-6,25 320bar	49891
8	Umschaltventil DSVD 06421-B-Z-13	7930	50	Drosselrückschlagventil EV770.000 R 1/2" 2,0mm	32243
9	Grundplatte R 1/4" seitlich GPS 061.2	7947	51	Düse 0,9mm K EV302004	37858
10,11	Hydr.-entsperrbares Rückschlagventil HER-F-SV1-10 400bar	39659	52-53	Düse 1,3mm C	33543
12	Brmsventil NG 10, 11555/129113	45972	54	Düse 1,7mm D	12079
13	Anschlußplatte		55	Düse 1,8mm L	37859
14-19	siehe Pos. 48-49	49891	56	Strombegrenzer SI	62506
			57	Strombegrenzer 20I	58993
20-21	Senkbremsventil GSB 80 200 bar	16427	58-59	Düse 0,8mm	33540
22	Kolbenmanometer 0-16 bar				
23	Manometer 0-40 bar	12414			
24	Manometer 0-600 bar	4661			
25-26	Wechselventil 544 08 02 00	12814			
27	Düse 0,7 mm	13886			
28	Motor Kompressor				
29	Motor Wasserpumpe				

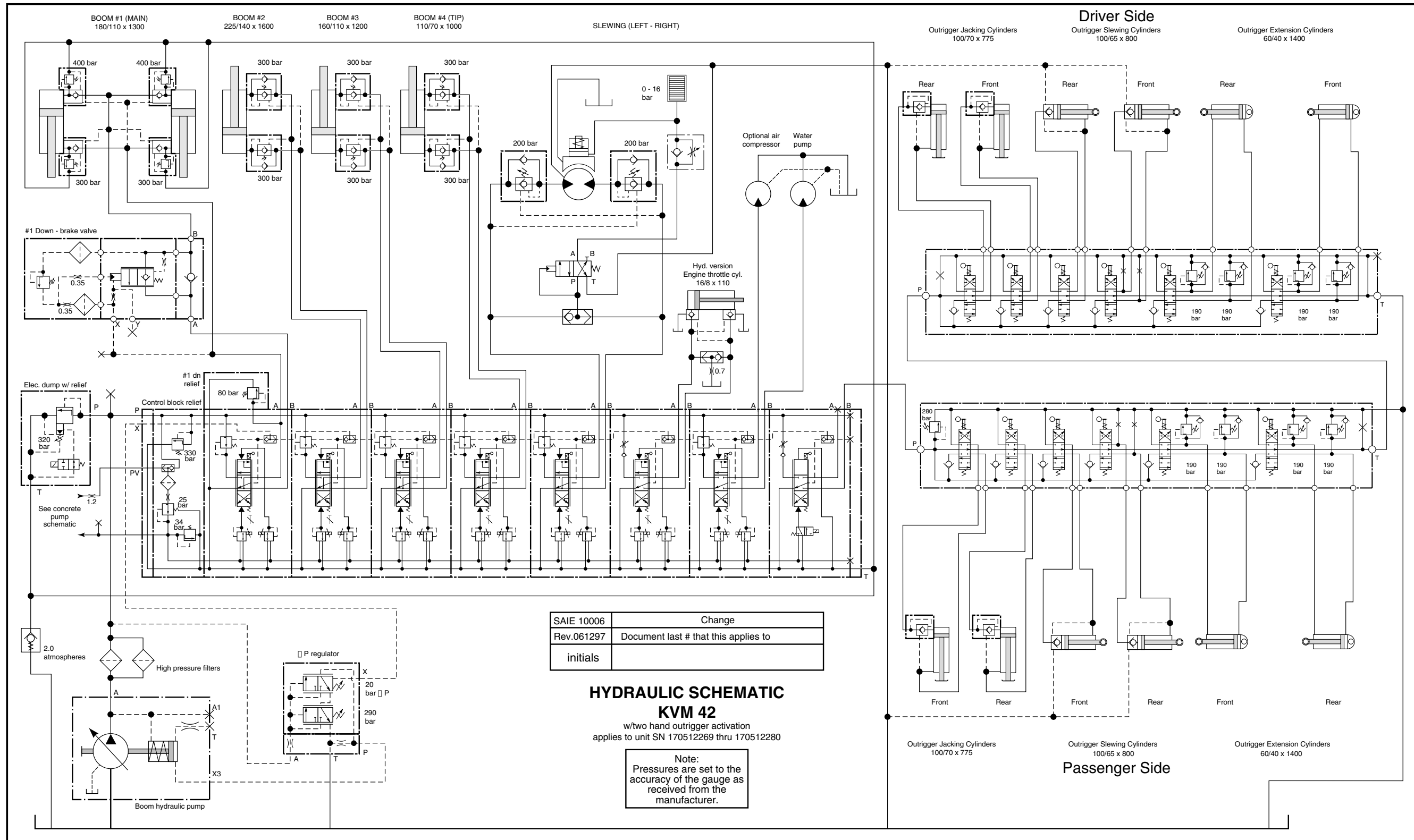
Achtung!
 Alle Änderungen die im deutschen Original durchgeführt werden, müssen auch auf den Fremdsprachenoriginalen festgehalten werden.
 Fremdsprachenoriginal sind nur 1x zu verfilmen und in der entsprechenden Kartei auszutauschen.

Art.-Nr. 43631

Alle Ecken und Kerben unter 15° anfertigen		Abweichungen für Maße ohne Toleranzangaben nach DIN 7181, Geometriegrundmittel		Zul. größte Rundstrahl für die Oberflächen nach DIN 7181		Für diese Zeichnung befolgen wir uns alle Maße vor. Eine andere vorläufige Zulassung darf an weder vorwärts, noch rückwärts geändert werden.	
Gezeichnet	Geprüft	Datum	Name	Maßstab	Werkstoff	SCHWING	
Benennung: Hydraulik - Schaltplan Maststeuerung KVM 42 mit Druckregler (12V und 24V) (Schwarz-weiß)						Serie ab Stk. 790017204.030	
Zustimmung:						Ersatz Nr.	
Name						Ers. durch	

2002

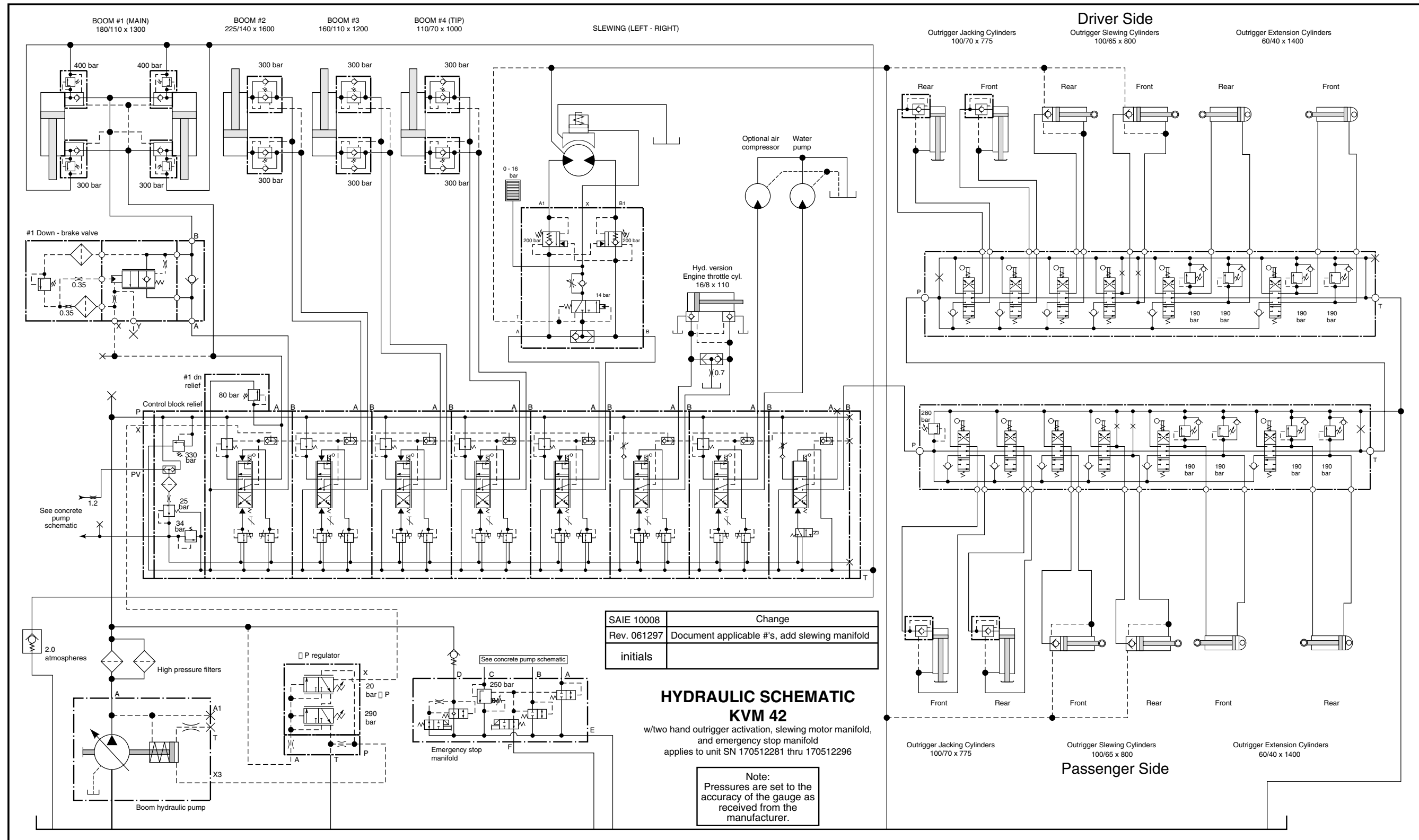




SAIE 10006	Change
Rev.061297	Document last # that this applies to
initials	

HYDRAULIC SCHEMATIC
KVM 42
 w/two hand outrigger activation
 applies to unit SN 170512269 thru 170512280

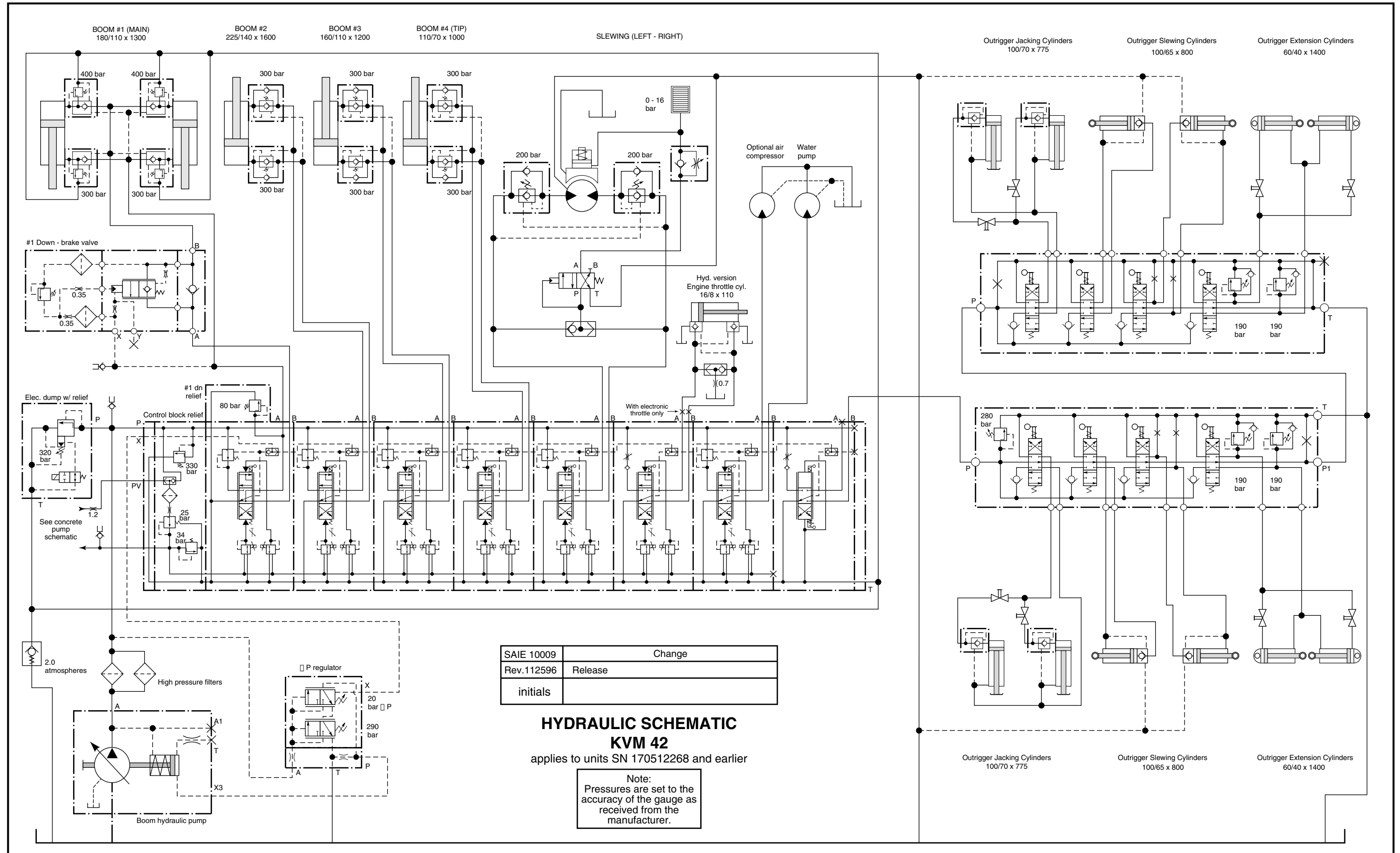
Note:
 Pressures are set to the accuracy of the gauge as received from the manufacturer.



SAIE 10008	Change
Rev. 061297	Document applicable #'s, add slewing manifold
initials	

**HYDRAULIC SCHEMATIC
KVM 42**
w/two hand outrigger activation, slewing motor manifold,
and emergency stop manifold
applies to unit SN 170512281 thru 170512296

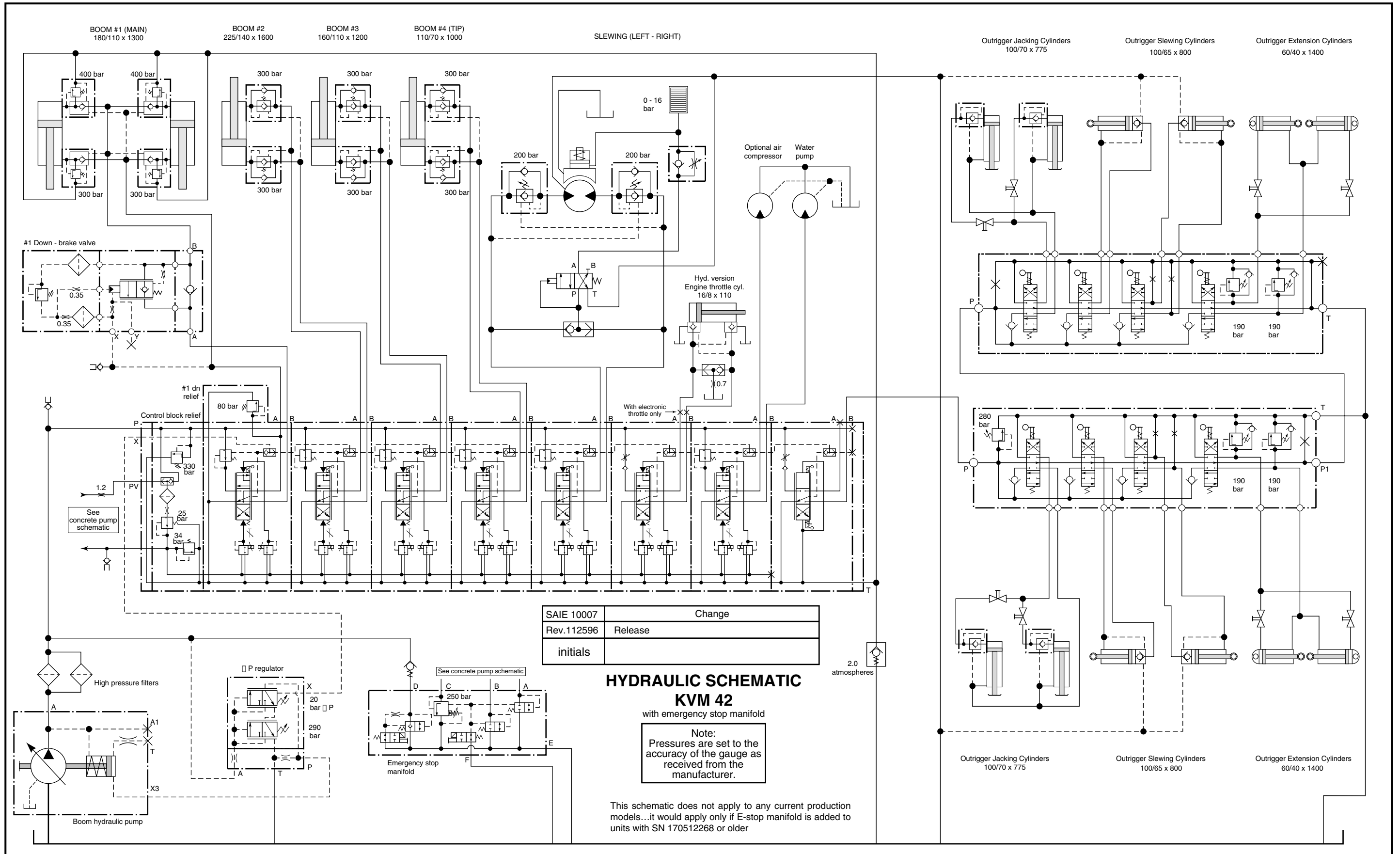
Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

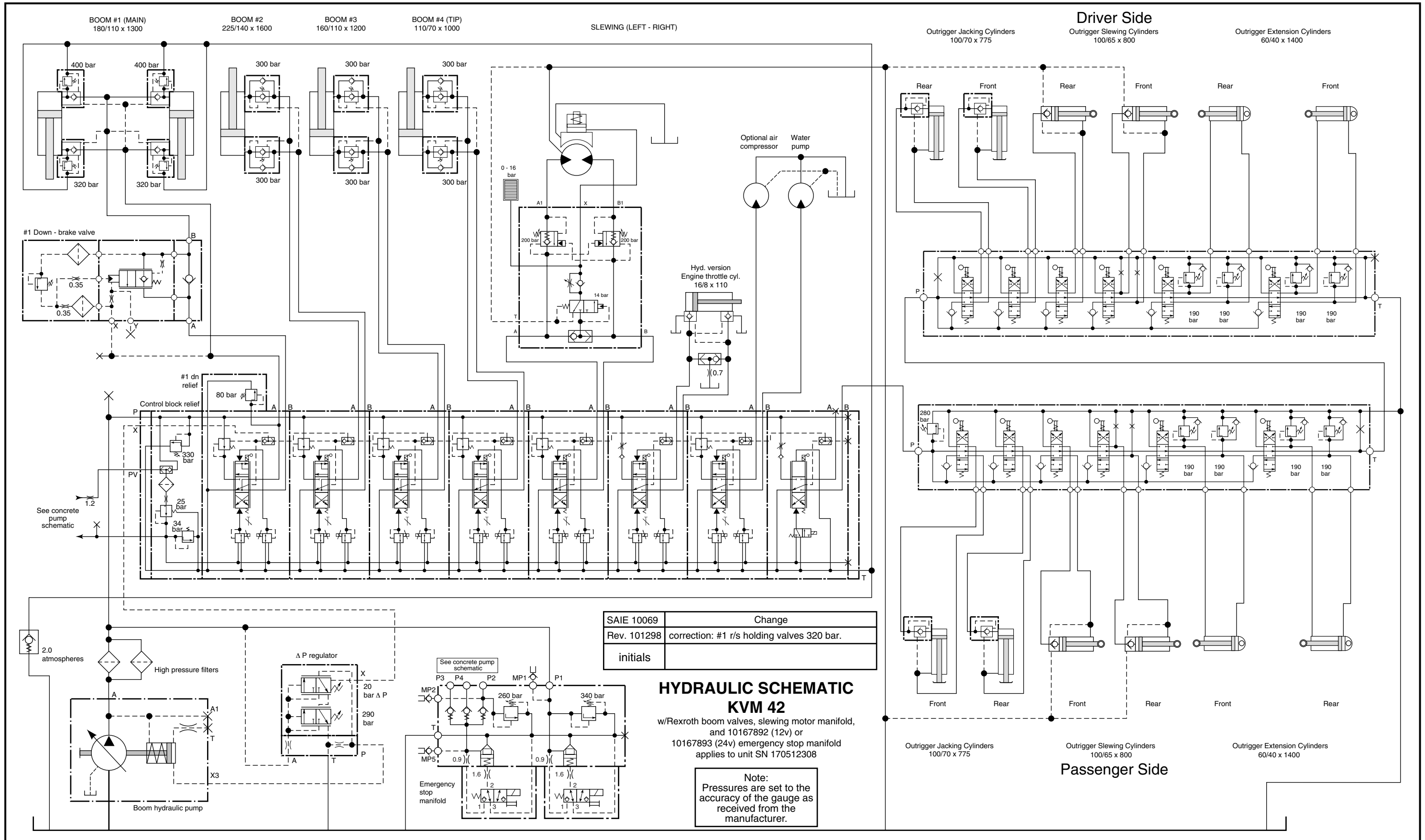


SAIE 10009	Change
Rev.112596	Release
initials	

HYDRAULIC SCHEMATIC
KVM 42
 applies to units SN 170512268 and earlier

Note:
 Pressures are set to the accuracy of the gauge as received from the manufacturer.



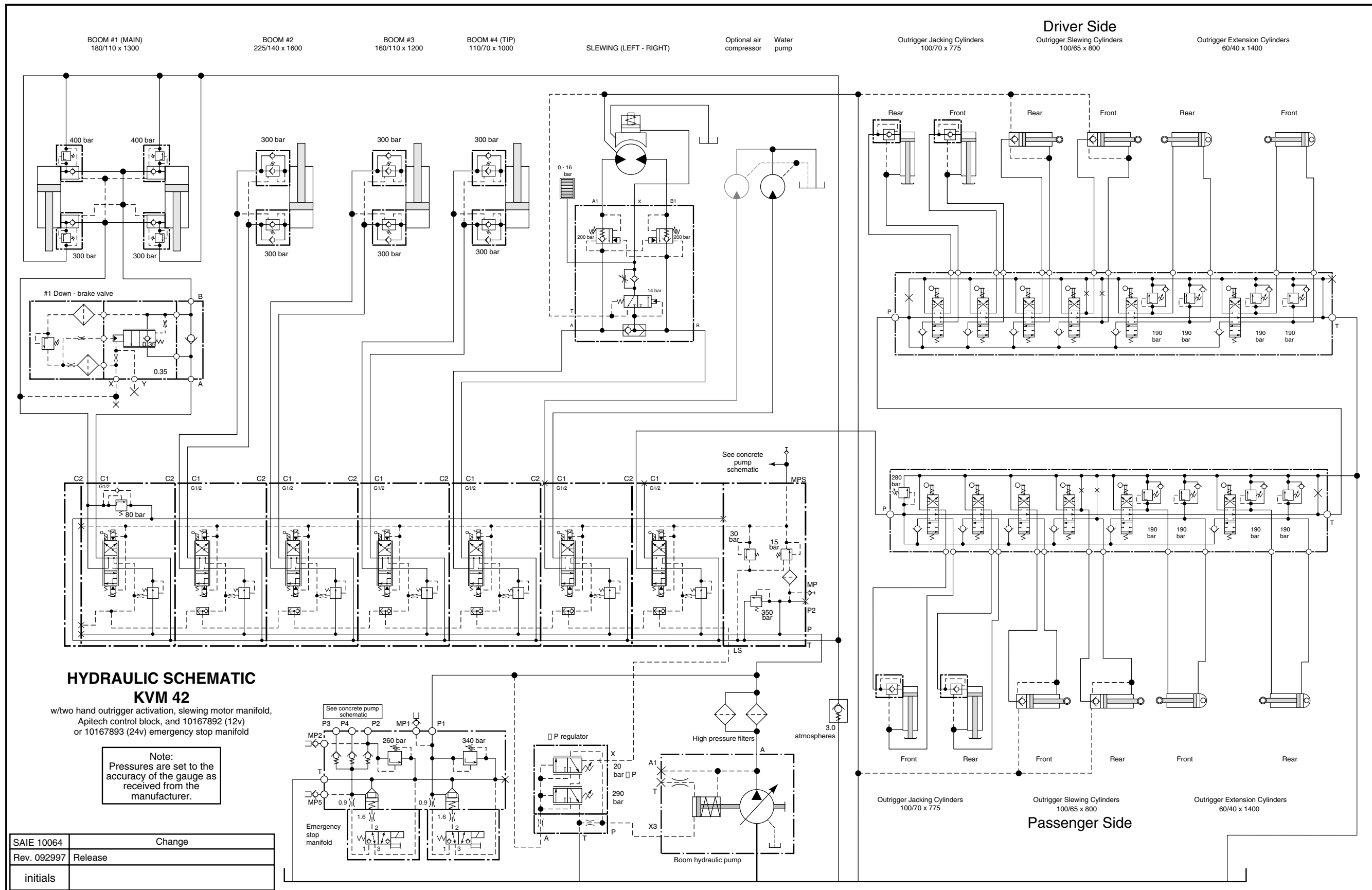


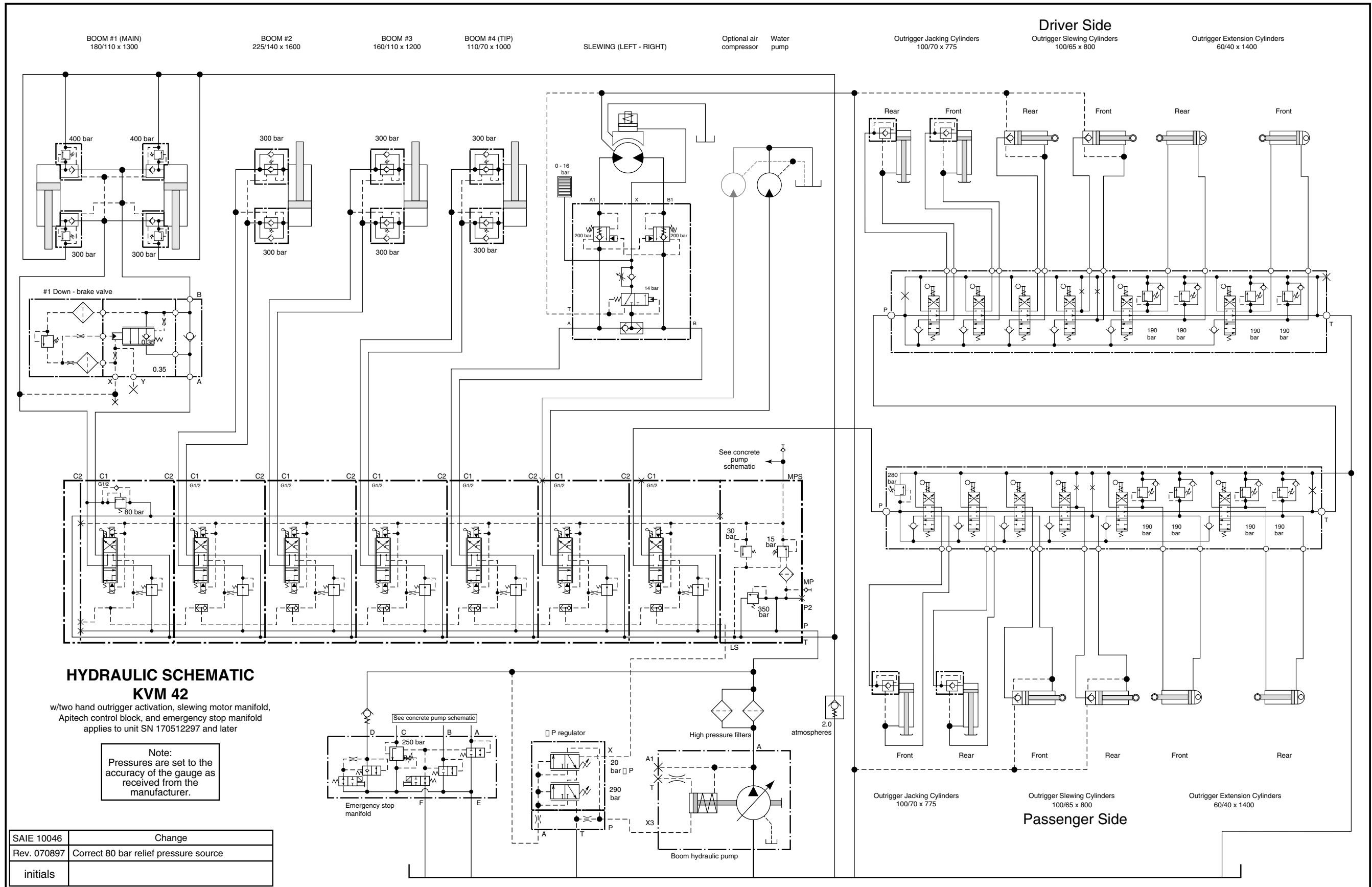
SAIE 10069	Change
Rev. 101298	correction: #1 r/s holding valves 320 bar.
initials	

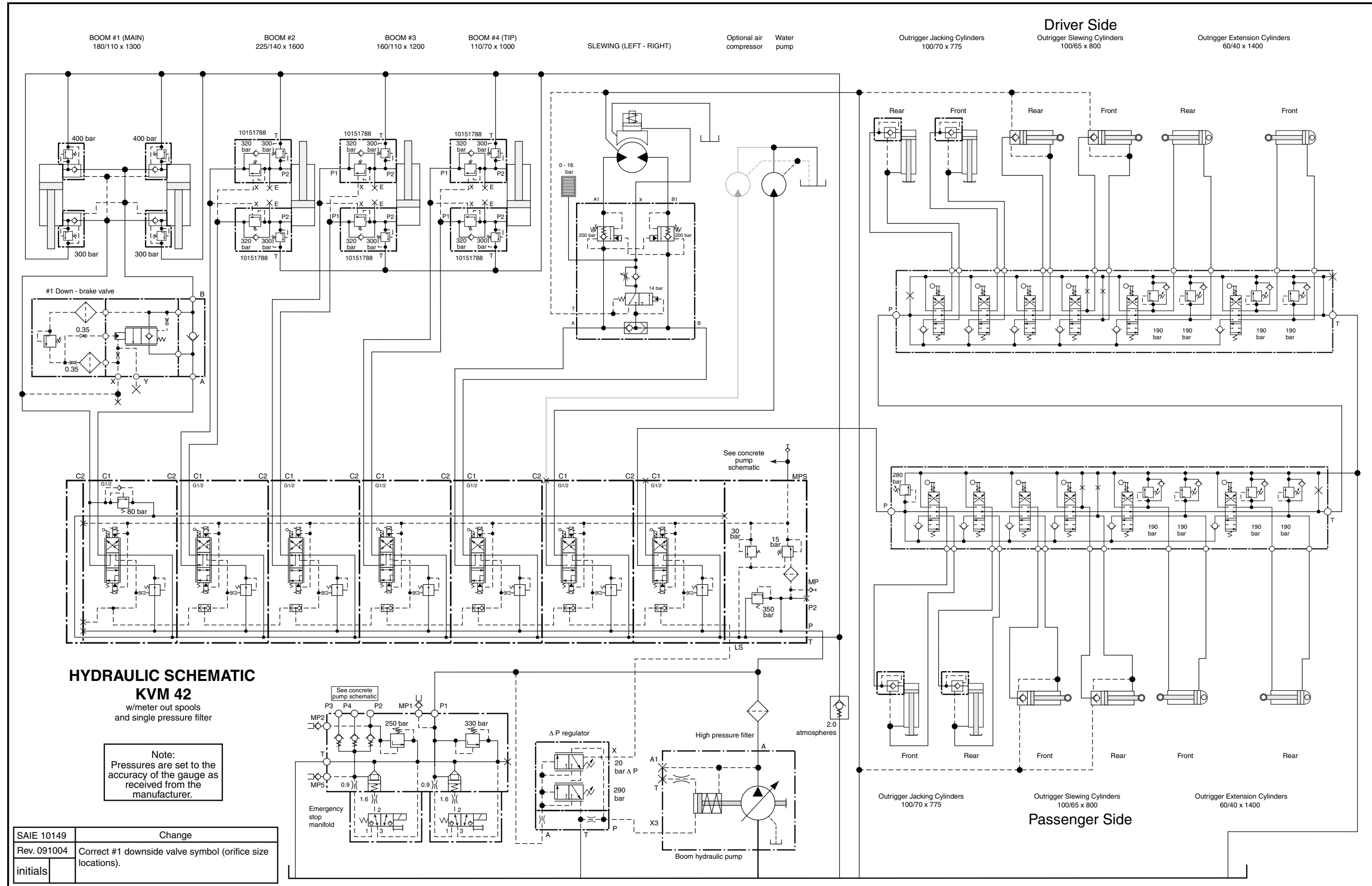
**HYDRAULIC SCHEMATIC
KVM 42**

w/Rexroth boom valves, slewing motor manifold, and 10167892 (12v) or 10167893 (24v) emergency stop manifold applies to unit SN 170512308

Note:
Pressures are set to the accuracy of the gauge as received from the manufacturer.







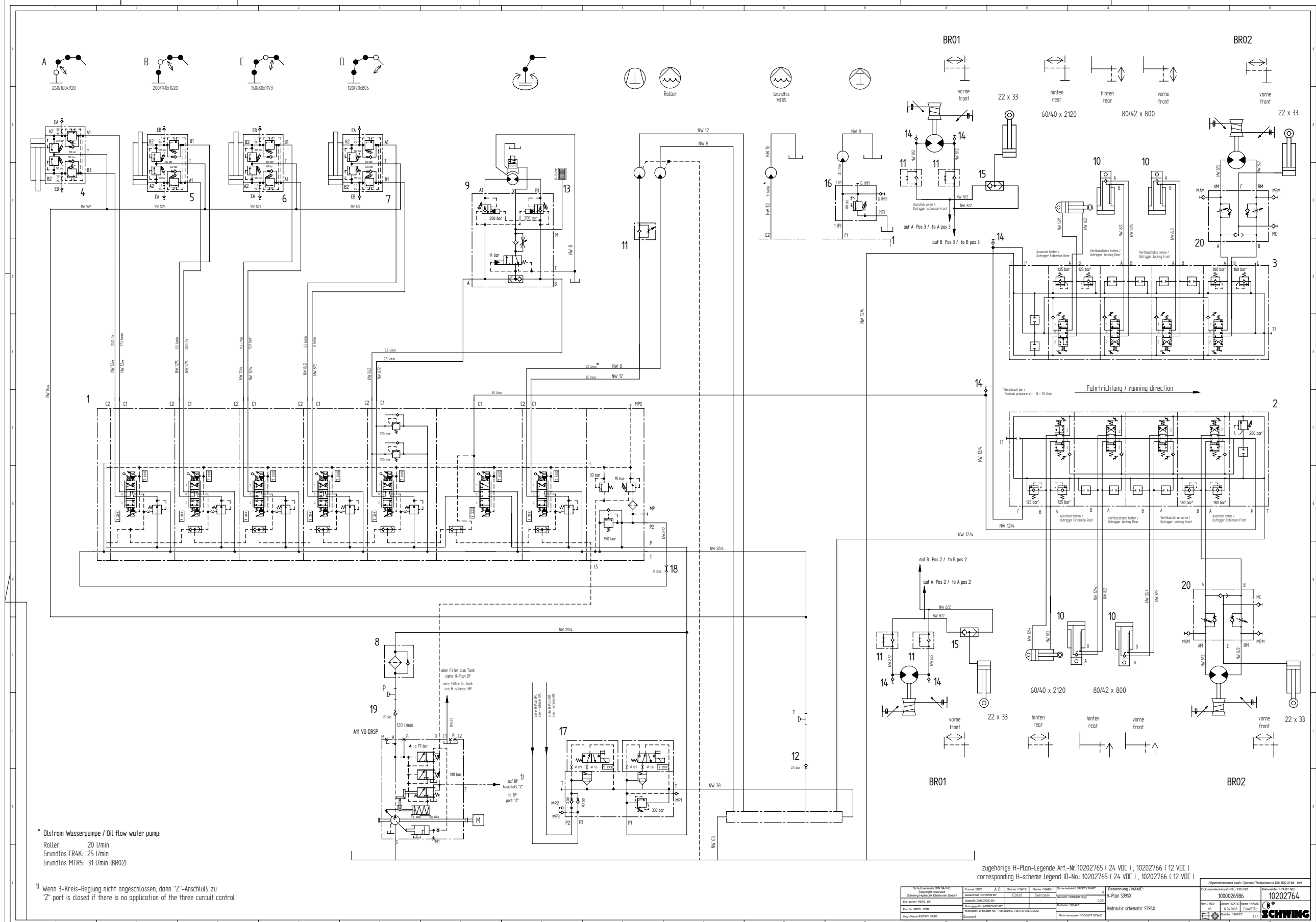
HYDRAULIC SCHEMATIC
KVM 42
w/meter out spools
and single pressure filter

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

SAIE 10149	Change
Rev. 091004	Correct #1 downside valve symbol (orifice size locations).
initials	

10202764

S 39-41 SX

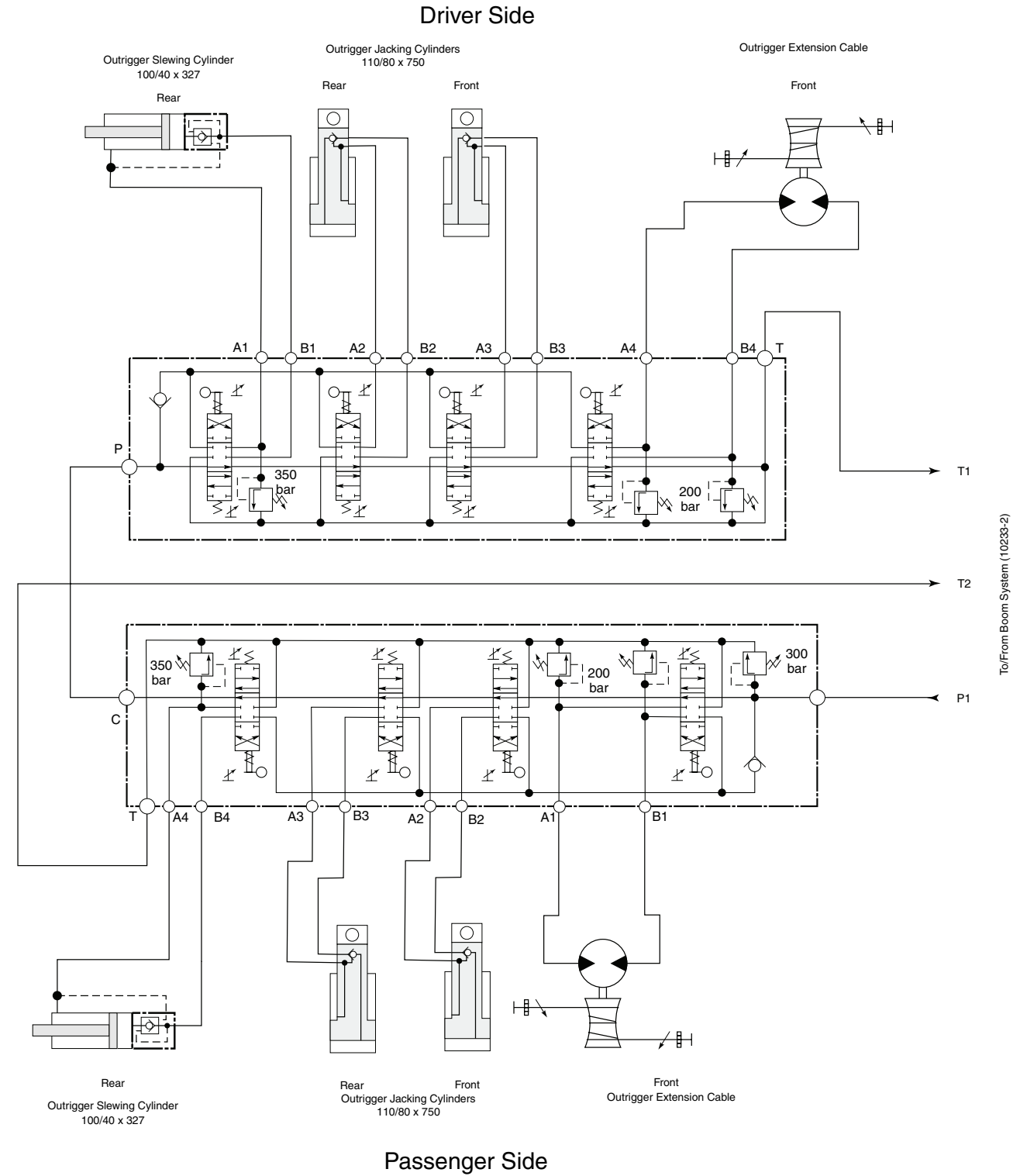


* Ölstrom Wasserpumpe / Oil flow water pump.
 Roller: 20 U/min
 Grundfos CR4K: 25 U/min
 Grundfos MTR5: 31 U/min (BR02)

1) Wenn 3-Kreis-Regelung nicht angeschlossen, dann "Z"-Anschluss zu "Z" port is closed if there is no application of the three circuit control

zugehörige H-Plan-Legende Art.-Nr. 10202765 (24 VDC), 10202766 (12 VDC)
 corresponding H-scheme legend ID-No. 10202765 (24 VDC), 10202766 (12 VDC)

Schwing Hydraulik Copyright reserved Schwing Hydraulik Betriebs GmbH Dieckmannstr. 10 42699 Solingen, Germany Tel. +49 (0) 212 639-1 Fax +49 (0) 212 639-2000 www.schwing-hydraulik.com	Formel / SIZE: A 0 Datum / DATE: 10.03.2013 Gezeichnet / DRAWN BY: T.0203 Geprüft / CHECKED BY: T.0203 Freigegeben / APPROVED BY: T.0203 Projekt / PROJECT: S 39-41 SX Material / MATERIAL: HYDRAULIC SCHEMATIC	Sicherheit / SAFETY PART: B Bemerkung / NAME: H-Plan S39SX Dokumentennummer / Doc No: 10202766 Version / Version: 1.0 Datum / DATE: 10.03.2013 Gezeichnet / DRAWN BY: T.0203 Geprüft / CHECKED BY: T.0203 Freigegeben / APPROVED BY: T.0203	Allgemeine Toleranzen nach: General Tolerances to DIN ISO 2768 - m1 Messung / MEASUREMENT: 10202766 Zeichnung / DRAWING: 10202766 Blatt / SHEET: 1 von 1 Schwing
--	---	--	--

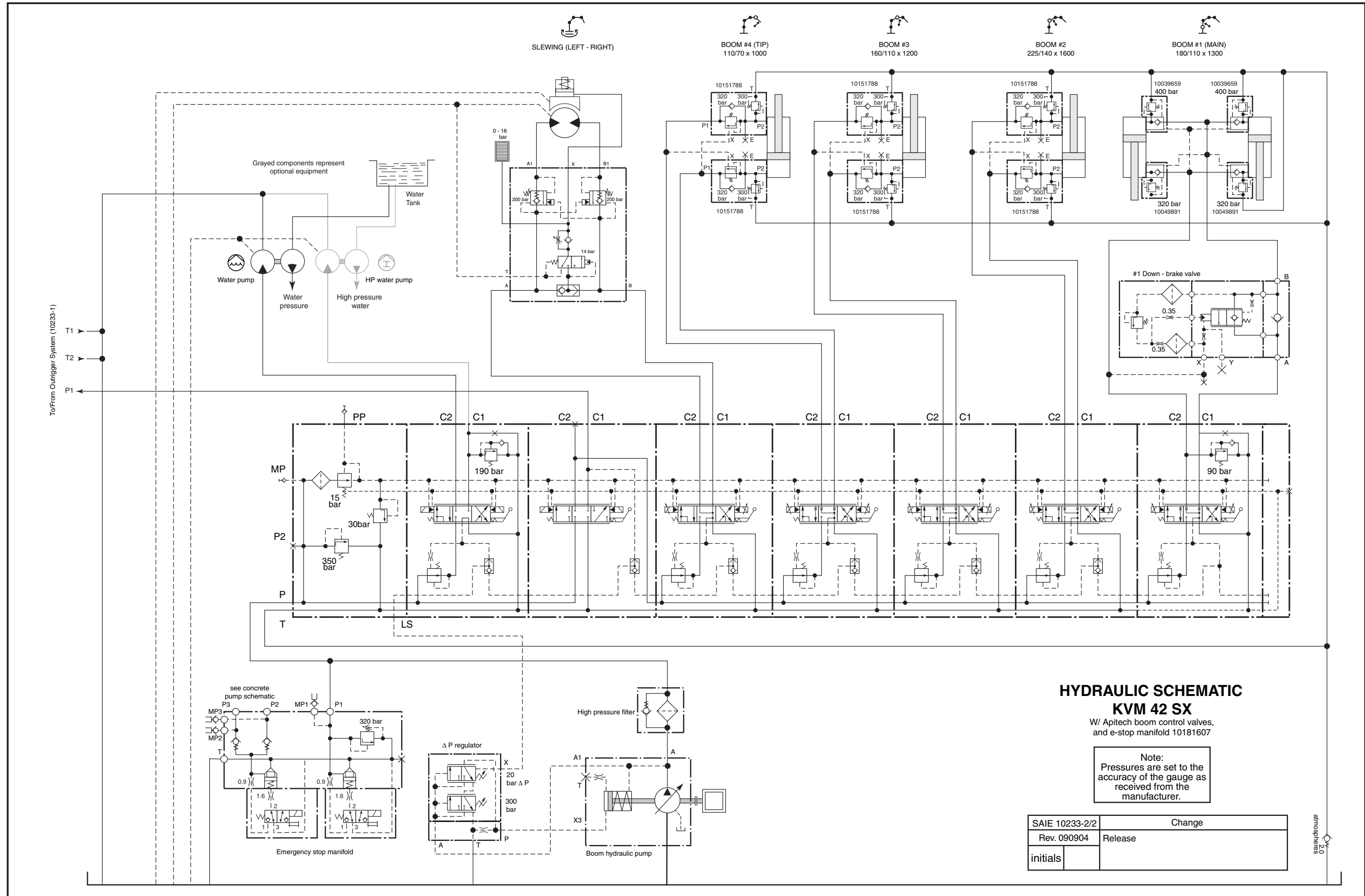


**HYDRAULIC SCHEMATIC
KVM 42 SX**

applies to units w/ symmetrical outrigger valves, and Apitech boom control valves.

Note:
Pressures are set to the accuracy of the gauge as received from the manufacturer.

SAIE 10233-1/2	Change
Rev. 090904	Release
initials	



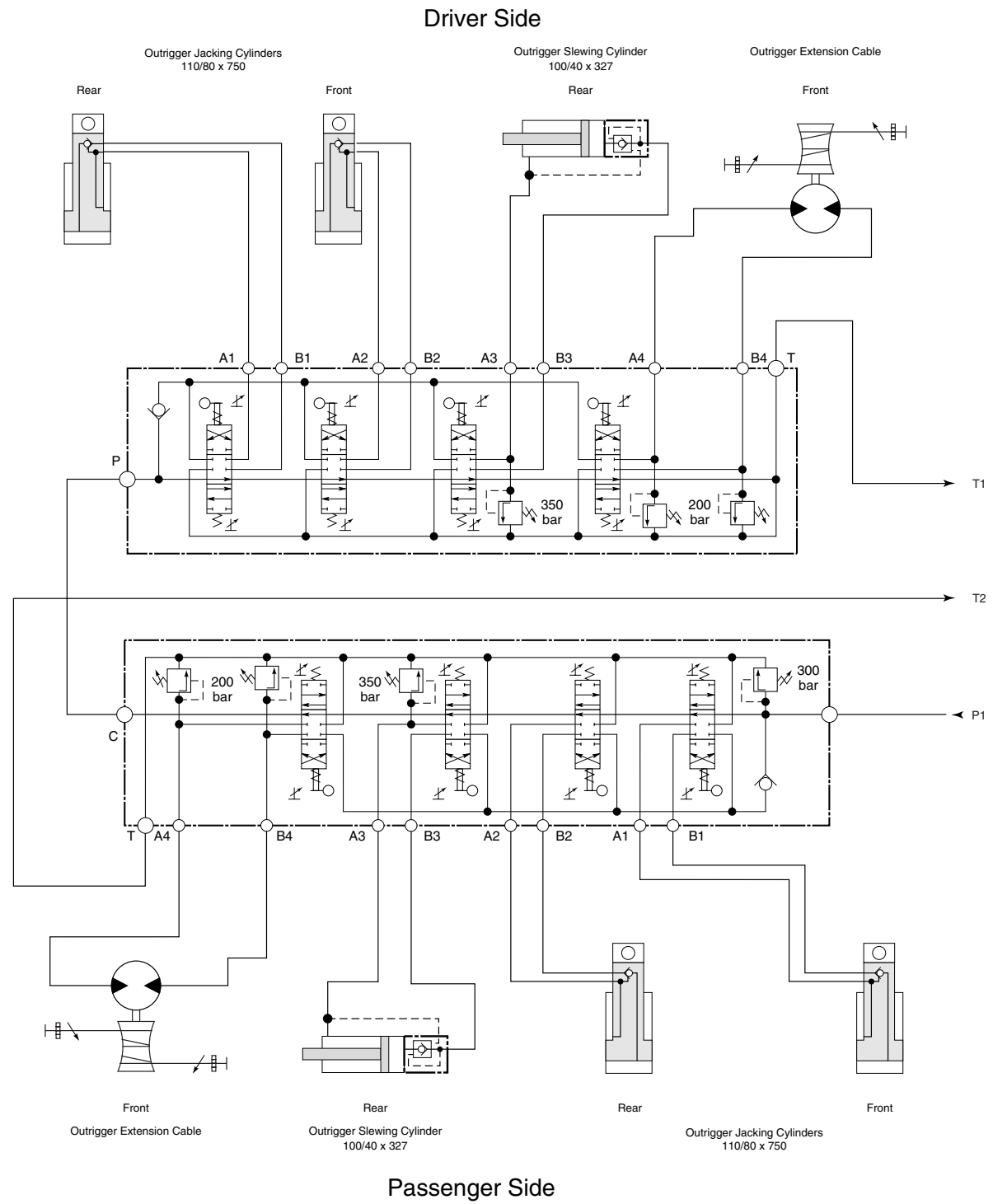
**HYDRAULIC SCHEMATIC
KVM 42 SX**

W/ Apitech boom control valves,
and e-stop manifold 10181607

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

SAIE 10233-2/2	Change
Rev. 090904	Release
initials	

atmospheres

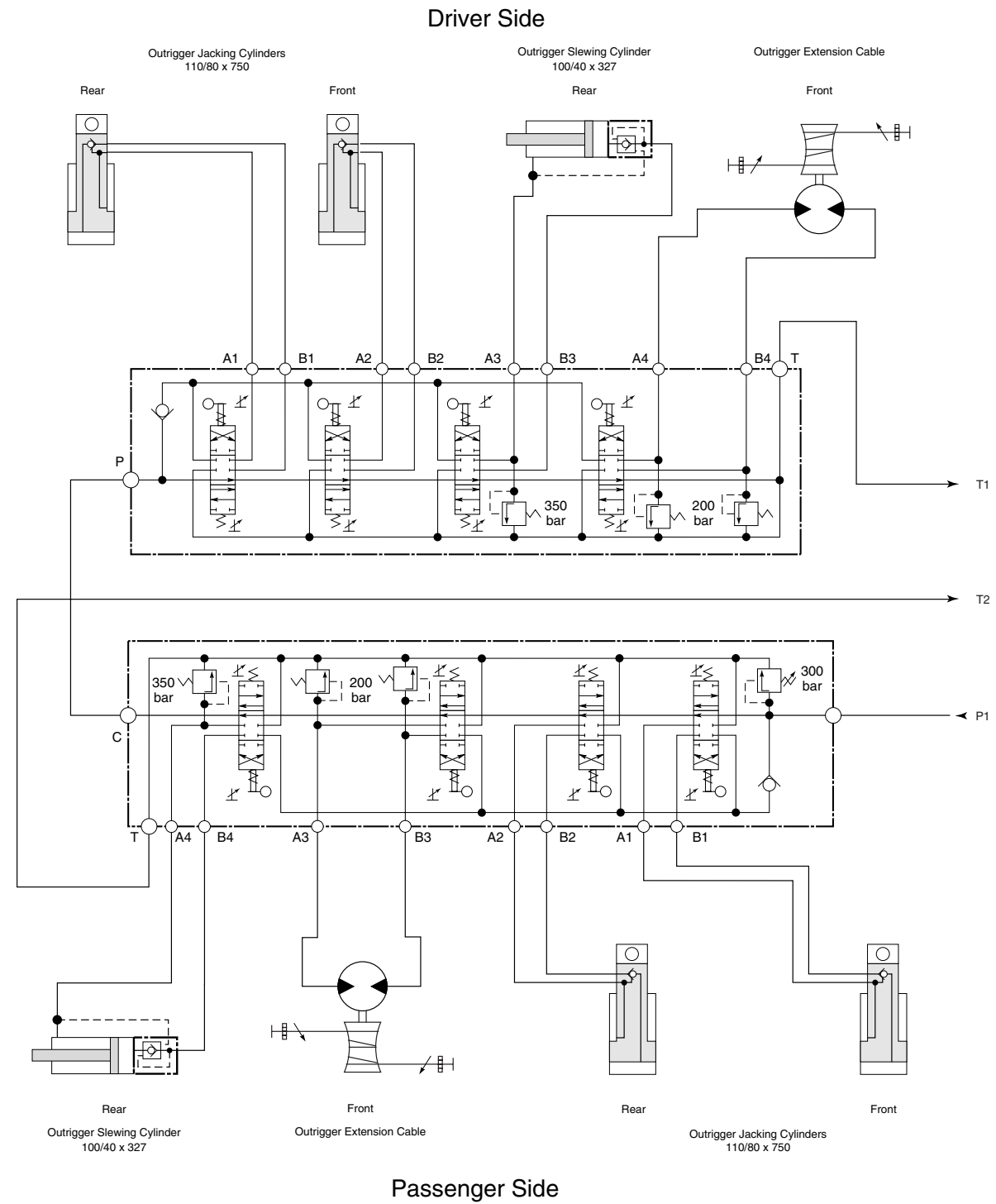


**HYDRAULIC SCHEMATIC
KVM 45 SX**

applies to unit SN 70526011, 170526002 and later

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

SAIE 10047-1/2	Change
Rev. 040898	Correct p.s. outrigger slewing/350 bar secondary relief connection
initials	

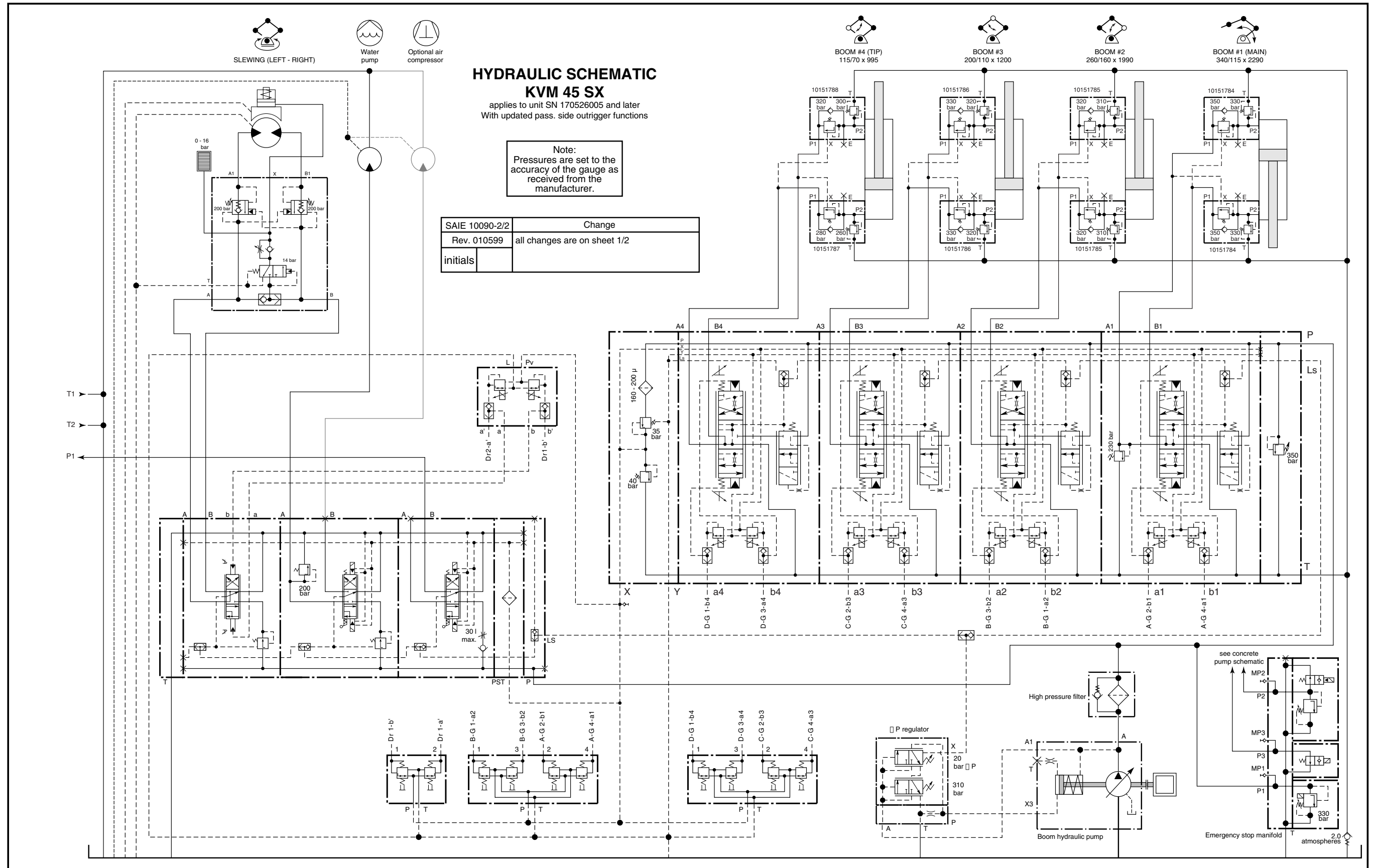


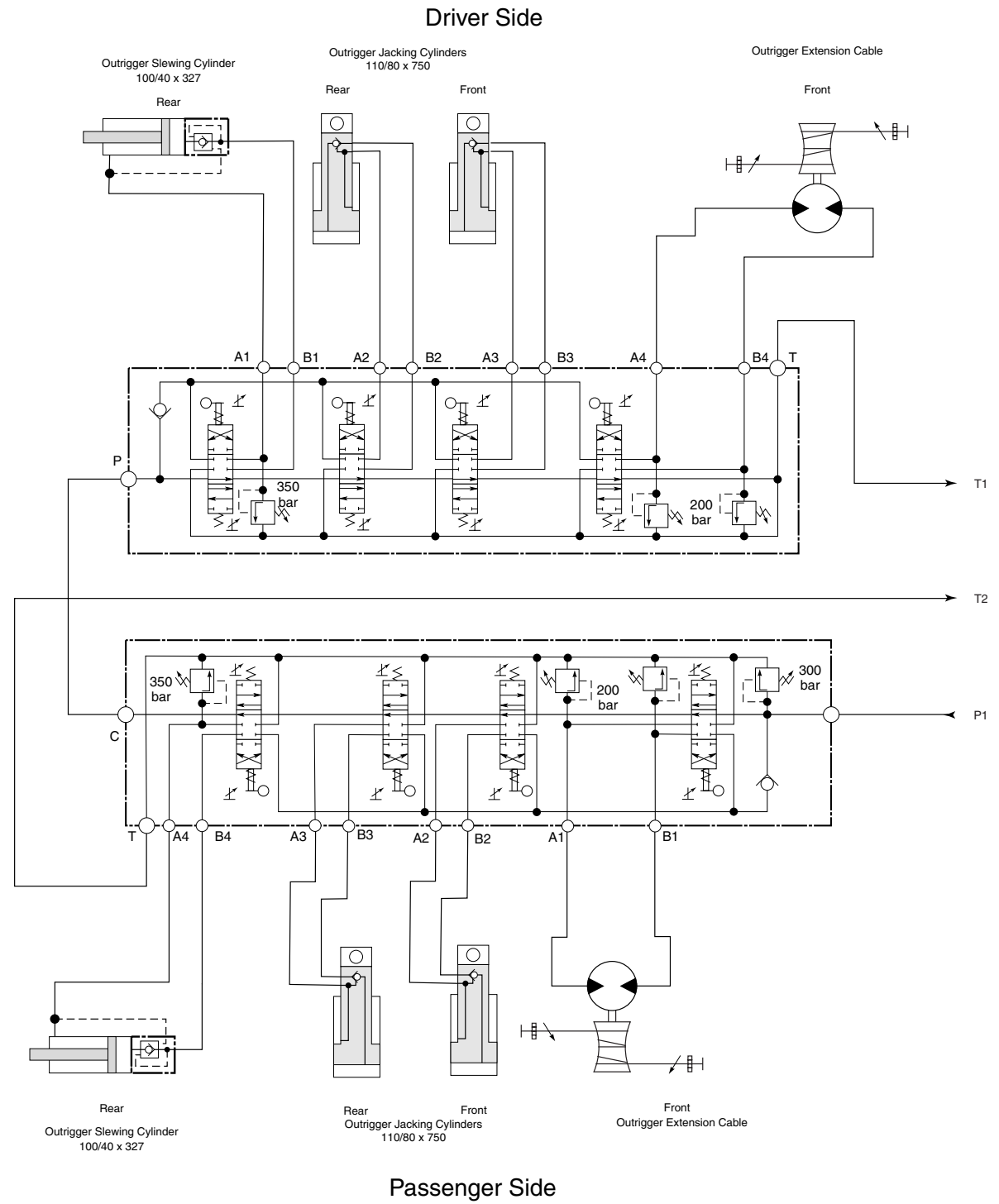
**HYDRAULIC SCHEMATIC
KVM 45 SX**

applies to unit SN 170526005 and later
With updated pass. side outrigger functions

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

SAIE 10090-1/2	Change
Rev. 010599	Make secondary reliefs non-adjustable
initials	





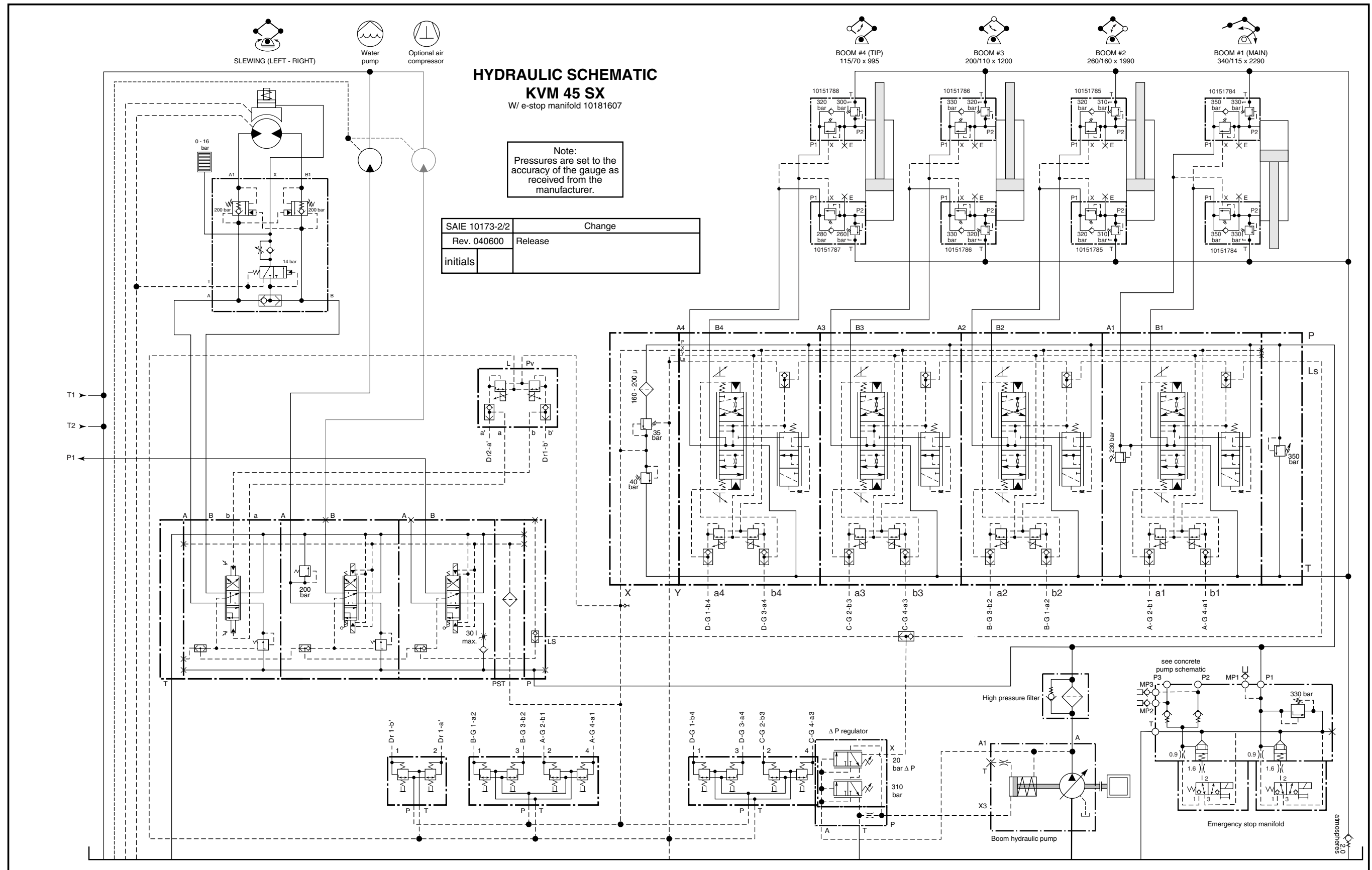
HYDRAULIC SCHEMATIC

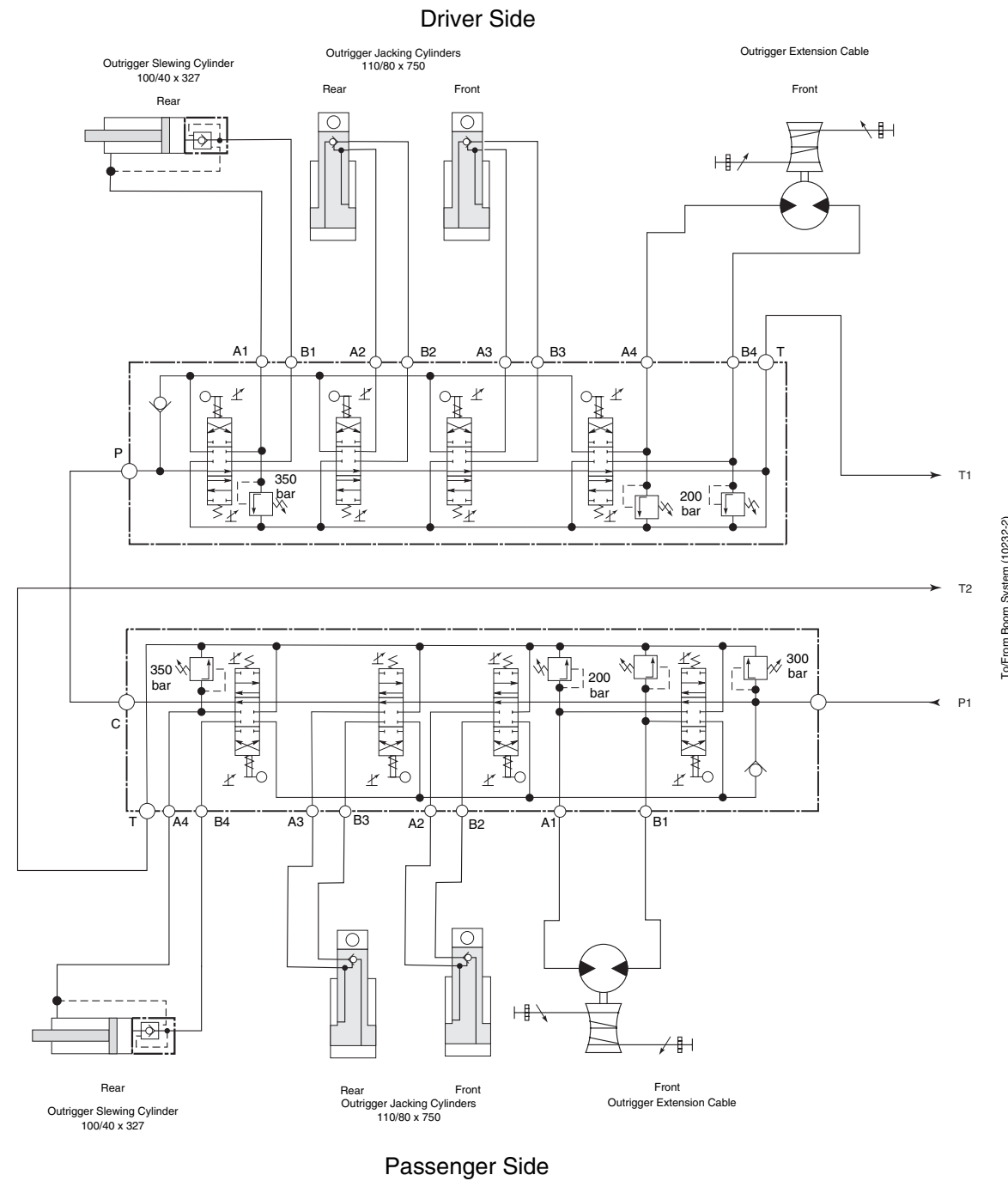
KVM 45 SX

applies to units w/ symmetrical outrigger valves.

Note:
Pressures are set to the accuracy of the gauge as received from the manufacturer.

SAIE 10173-1/2	Change
Rev. 040600	Release
initials	

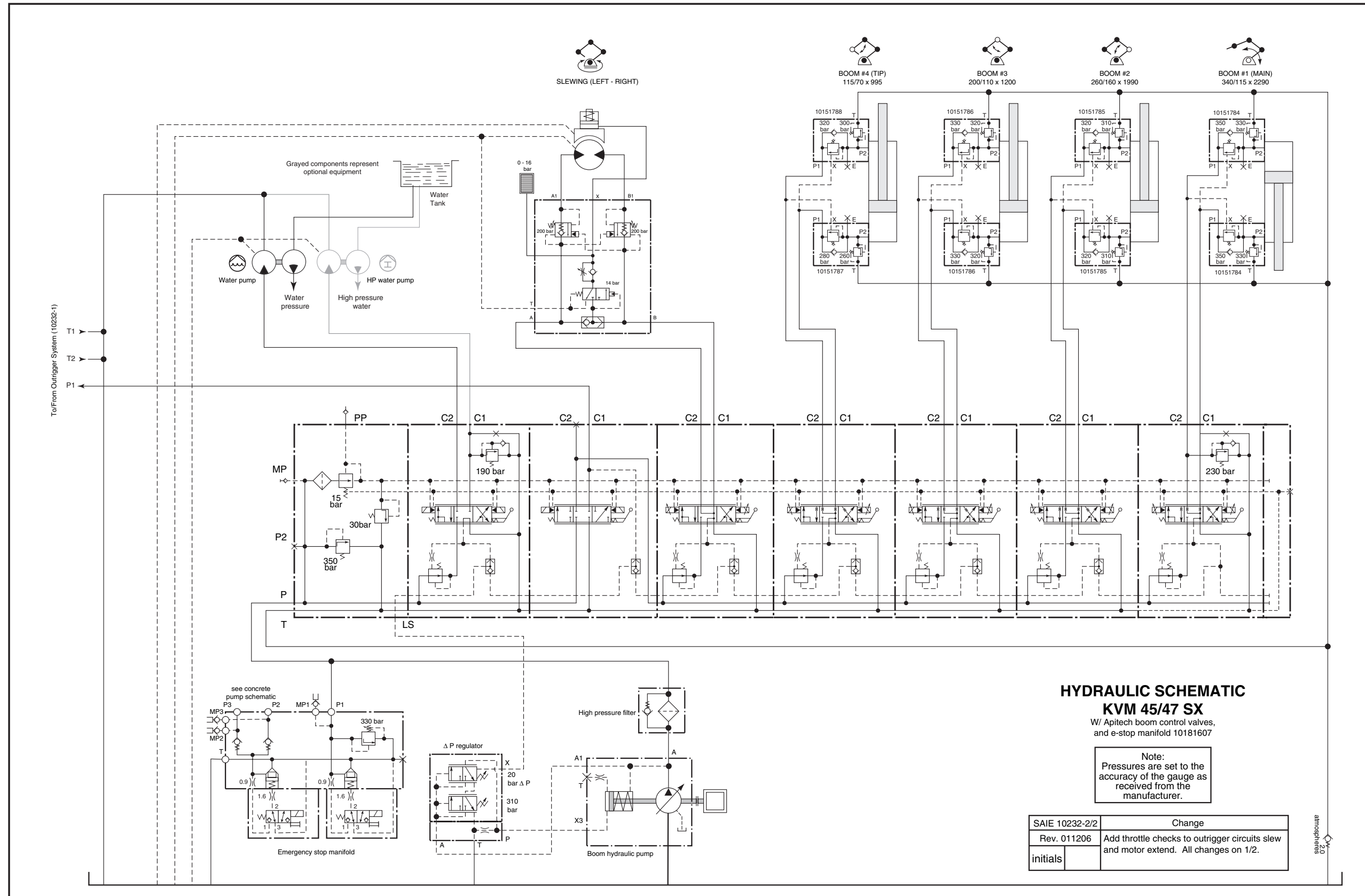




HYDRAULIC SCHEMATIC
KVM 45/47 SX
 applies to units w/ symmetrical outrigger valves, and Apitech boom control valves.

Note:
 Pressures are set to the accuracy of the gauge as received from the manufacturer.

SAIE 10232-1/2	Change
Rev. 090804	Release
initials	



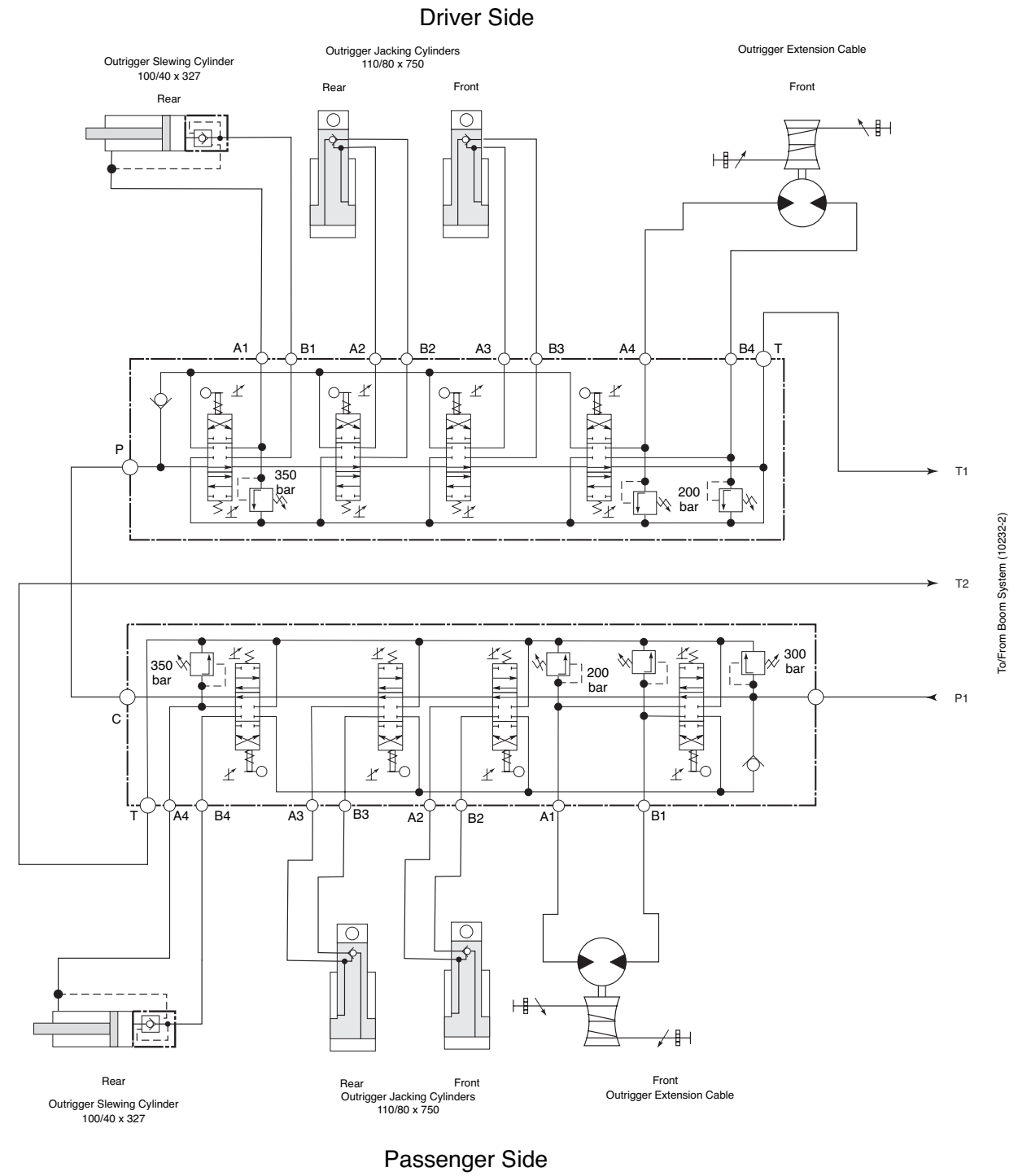
**HYDRAULIC SCHEMATIC
KVM 45/47 SX**

W/ Apitech boom control valves,
and e-stop manifold 10181607

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

SAIE 10232-2/2	Change
Rev. 011206	Add throttle checks to outrigger circuits slew and motor extend. All changes on 1/2.
initials	

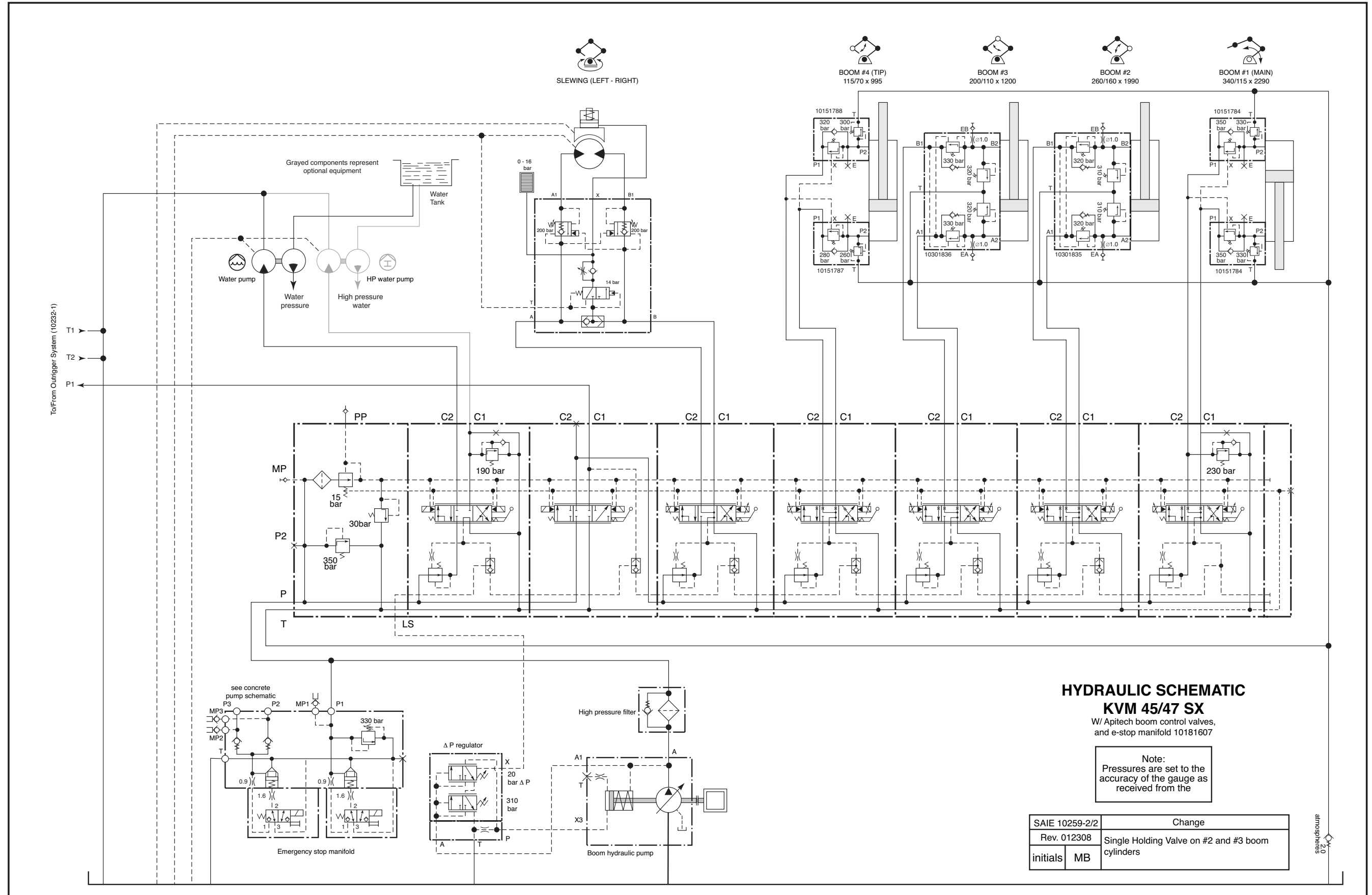
atmosphère



HYDRAULIC SCHEMATIC
KVM 45/47 SX
 applies to units w/ symmetrical outrigger valves, and Apitech boom control valves.

Note:
 Pressures are set to the accuracy of the gauge as received from the

SAIE 10259-1/2	Change
Rev. 012308	Single Holding Valve on #2 and #3 boom cylinders
initials	MB



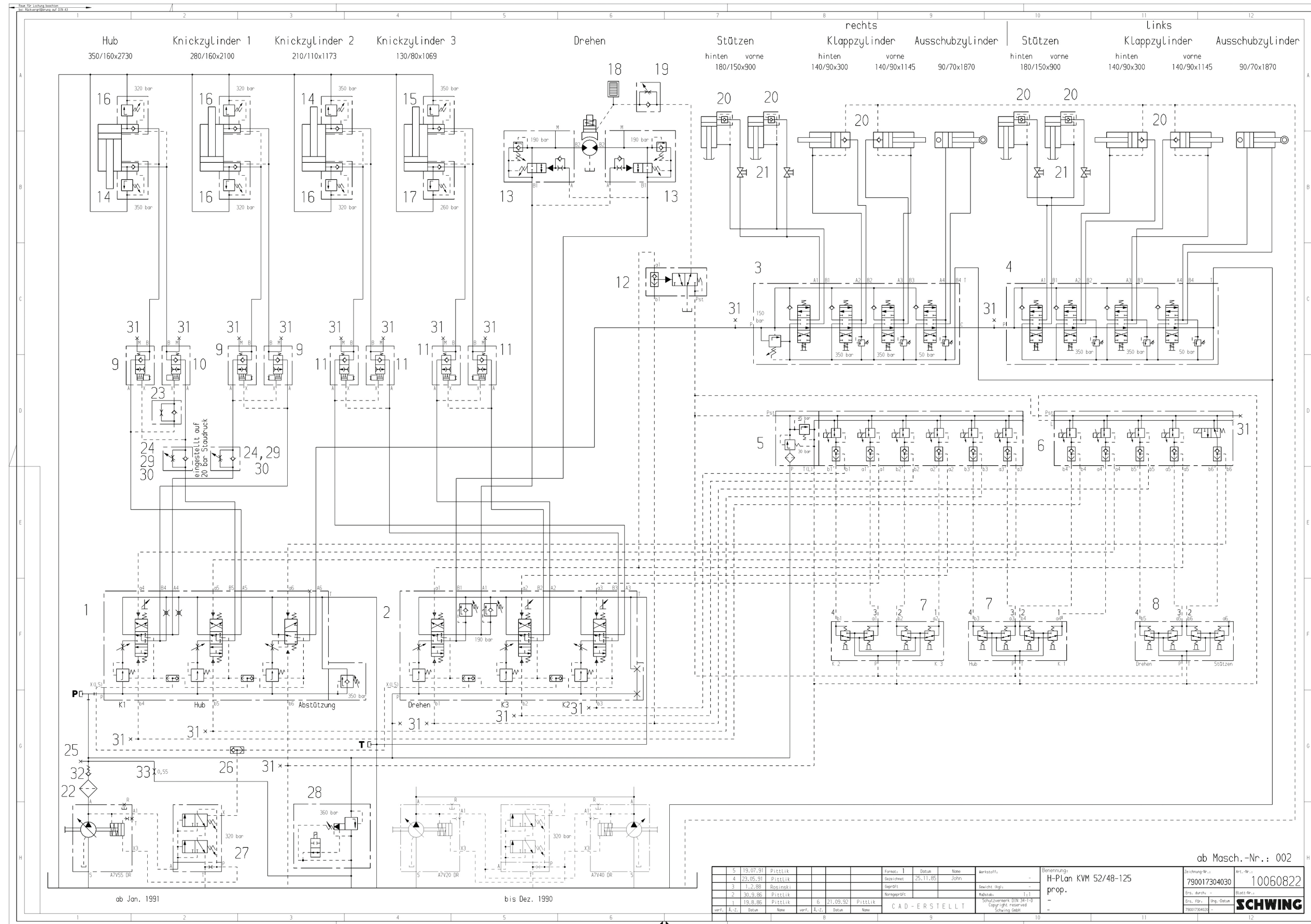
**HYDRAULIC SCHEMATIC
KVM 45/47 SX**

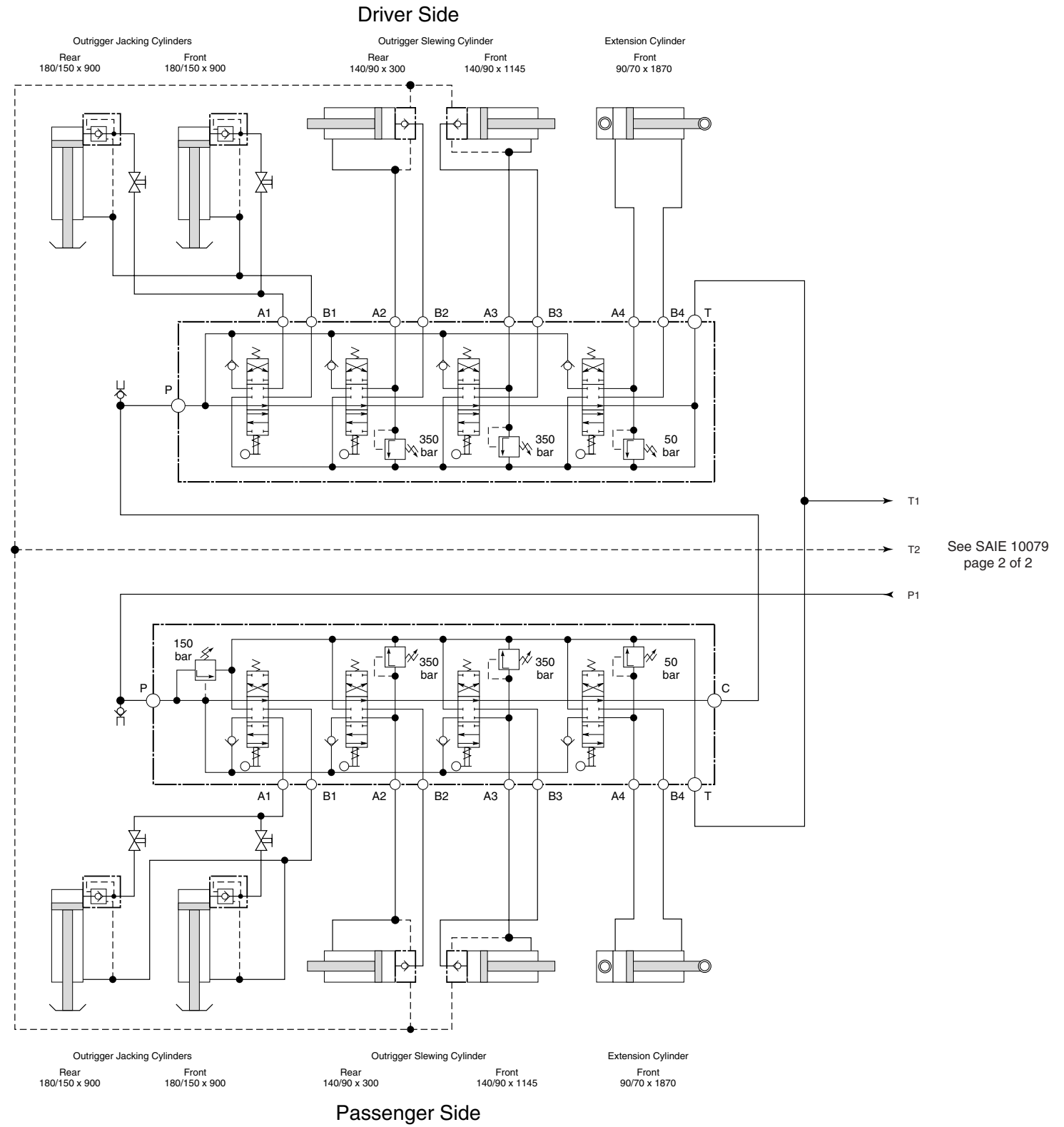
W/ Apitech boom control valves,
and e-stop manifold 10181607

Note:
Pressures are set to the
accuracy of the gauge as
received from the

SAIE 10259-2/2	Change
Rev. 012308	Single Holding Valve on #2 and #3 boom cylinders
initials MB	

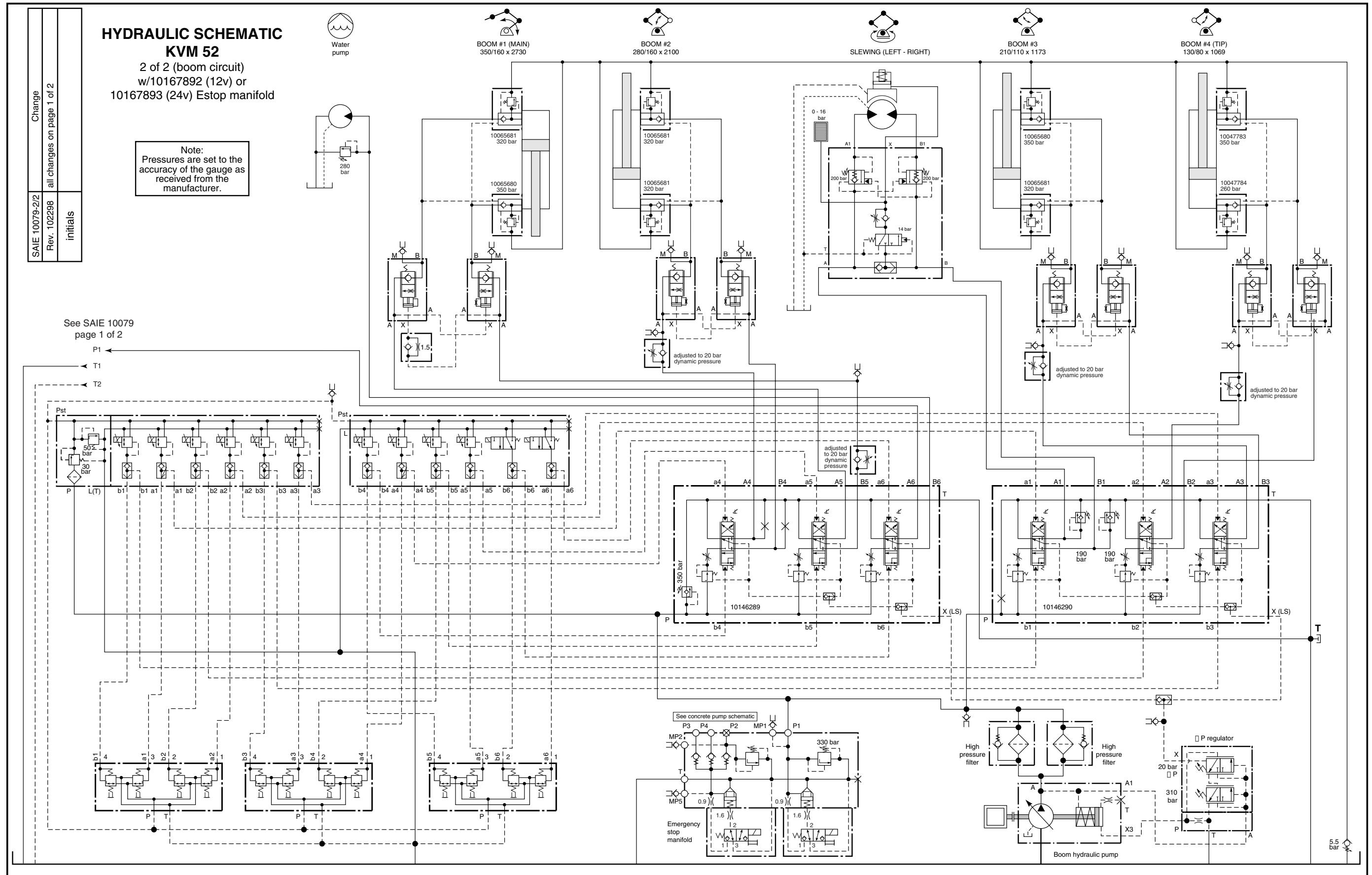
atmospheres
3.0

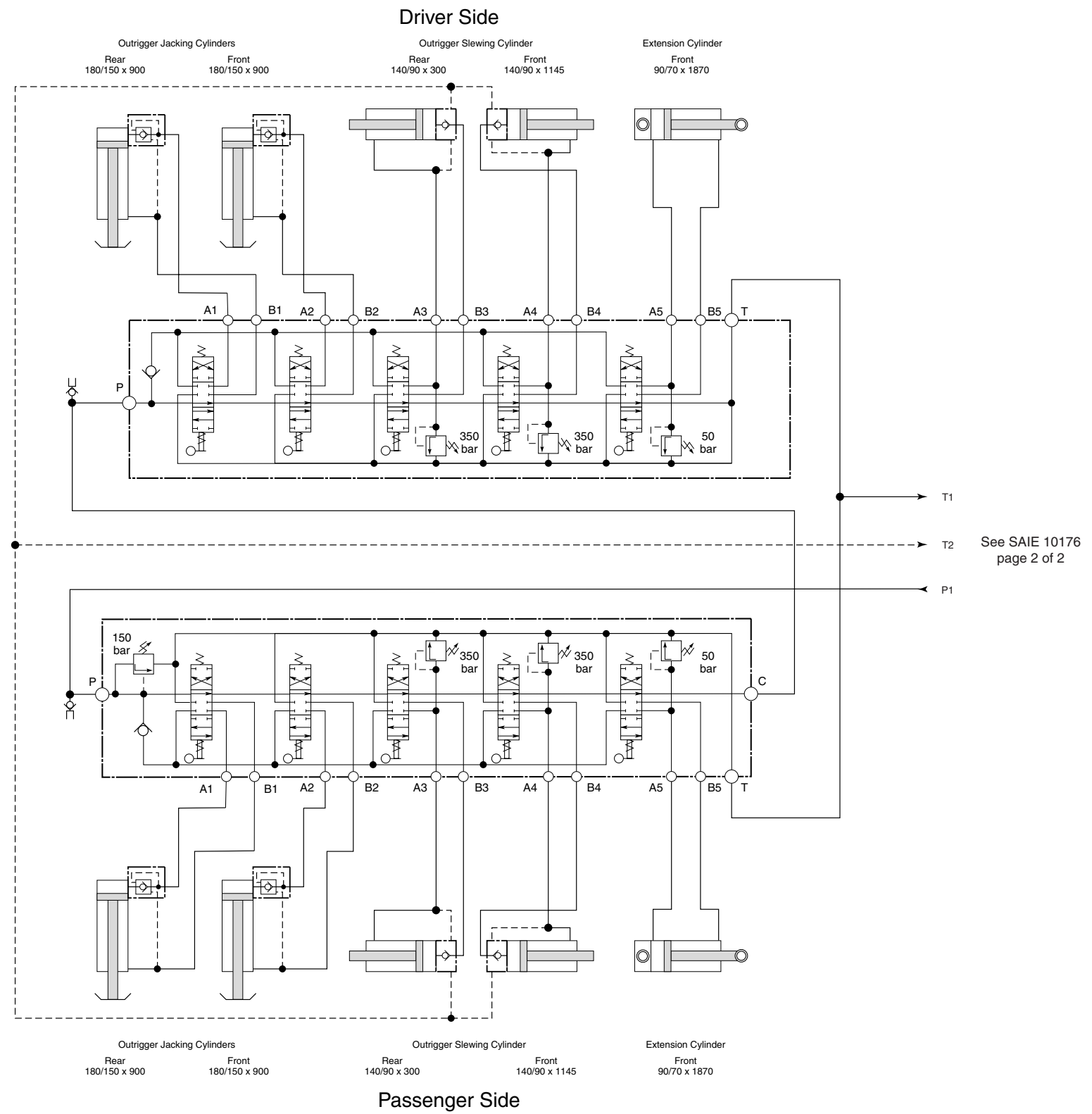




HYDRAULIC SCHEMATIC
KVM 52
 1 of 2 (outrigger circuit)

SAIE 10079-1/2	Change
Rev. 102298	change main outrigger relief to 150 bar
initials	

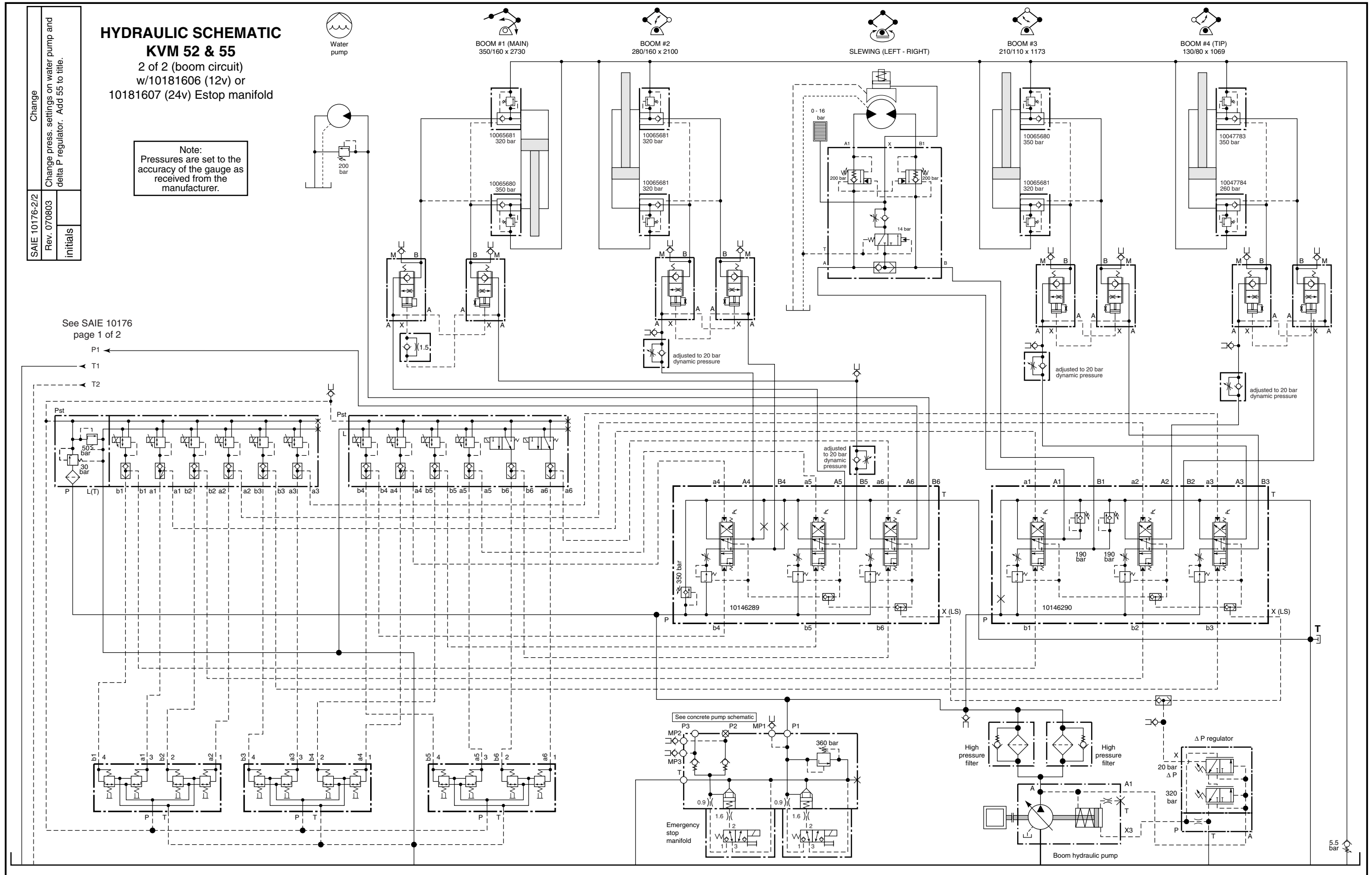


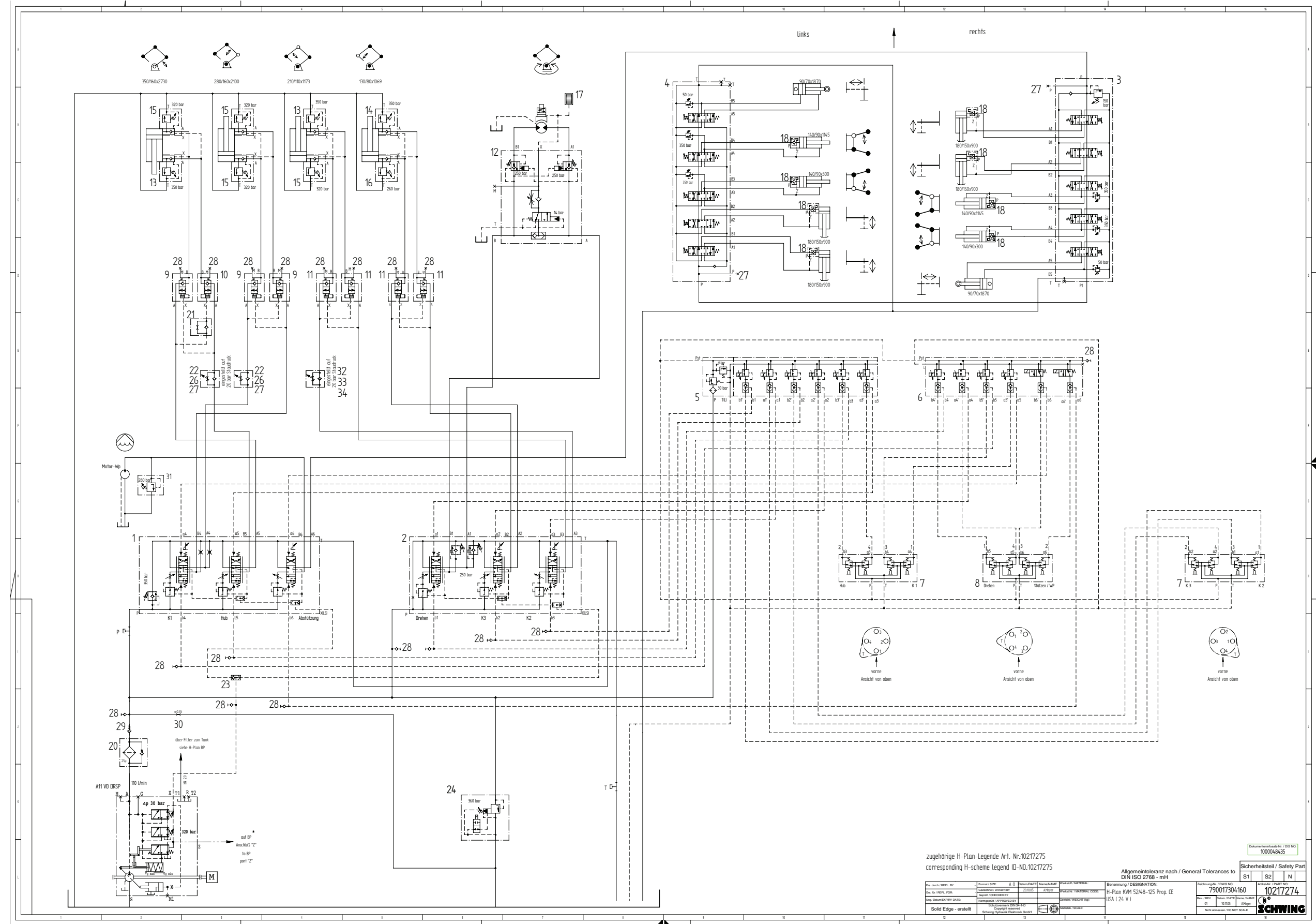


HYDRAULIC SCHEMATIC
KVM 52
 1 of 2 (outrigger circuit)

Note:
 Pressures are set to the accuracy of the gauge as received from the manufacturer.

SAIE 10176-1/2	Change
Rev. 070803	All changes on page 2/2.
initials	





zugehörige H-Plan-Legende Art.-Nr. 10217275
 corresponding H-scheme Legend ID-NO. 10217275

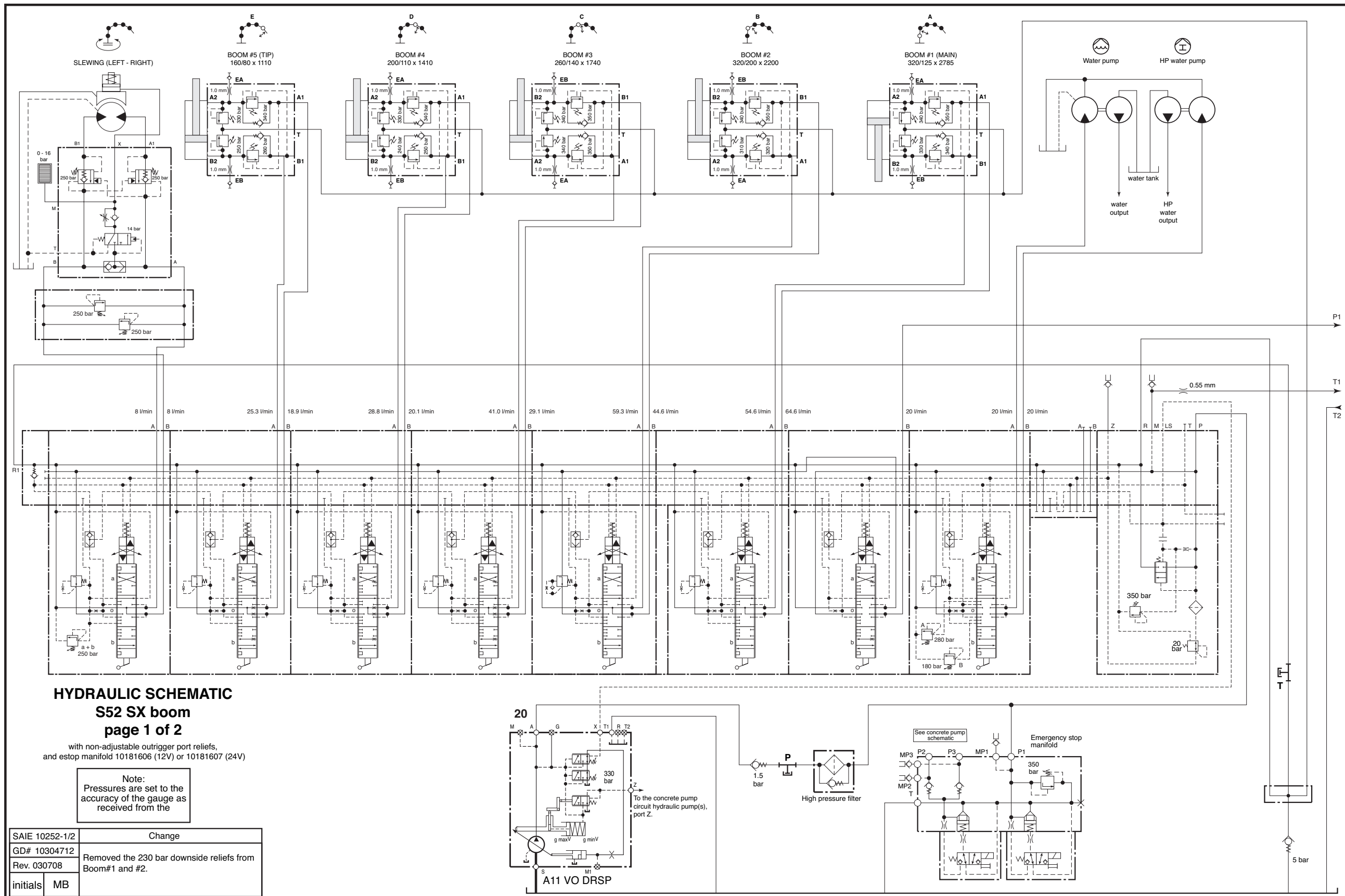
Allgemeintoleranz nach / General Tolerances to
 DIN ISO 2768 - mH

Doc. No. / Zeichn.-Nr.	10217274	Doc. Rev. / Zeichn.-Rev.	01	Doc. Date / Zeichn.-Datum	20.03.2018	Doc. Name / Zeichn.-Name	H-Plan KVM 52/48-125 Prop. IE	Doc. No. / Zeichn.-Nr.	10217274
Doc. No. / Zeichn.-Nr.	10217274	Doc. Rev. / Zeichn.-Rev.	01	Doc. Date / Zeichn.-Datum	20.03.2018	Doc. Name / Zeichn.-Name	H-Plan KVM 52/48-125 Prop. IE	Doc. No. / Zeichn.-Nr.	10217274
Doc. No. / Zeichn.-Nr.	10217274	Doc. Rev. / Zeichn.-Rev.	01	Doc. Date / Zeichn.-Datum	20.03.2018	Doc. Name / Zeichn.-Name	H-Plan KVM 52/48-125 Prop. IE	Doc. No. / Zeichn.-Nr.	10217274

Document Reference No. / Doc. No.
 100004835

Sicherheitsteil / Safety Part	S1	S2	N
Doc. No. / Zeichn.-Nr.	790017304160	Doc. Rev. / Zeichn.-Rev.	01
Doc. No. / Zeichn.-Nr.	10217274	Doc. Rev. / Zeichn.-Rev.	01



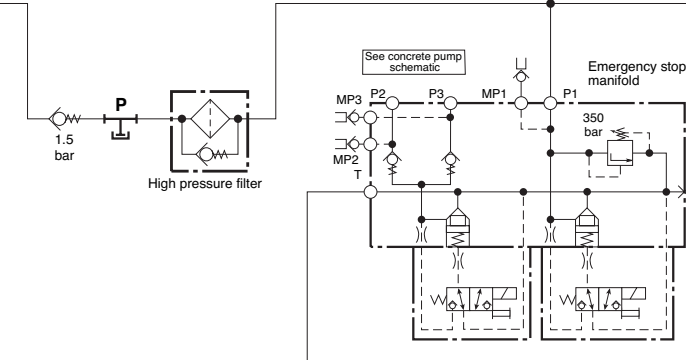
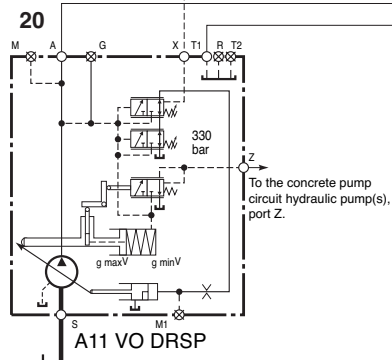


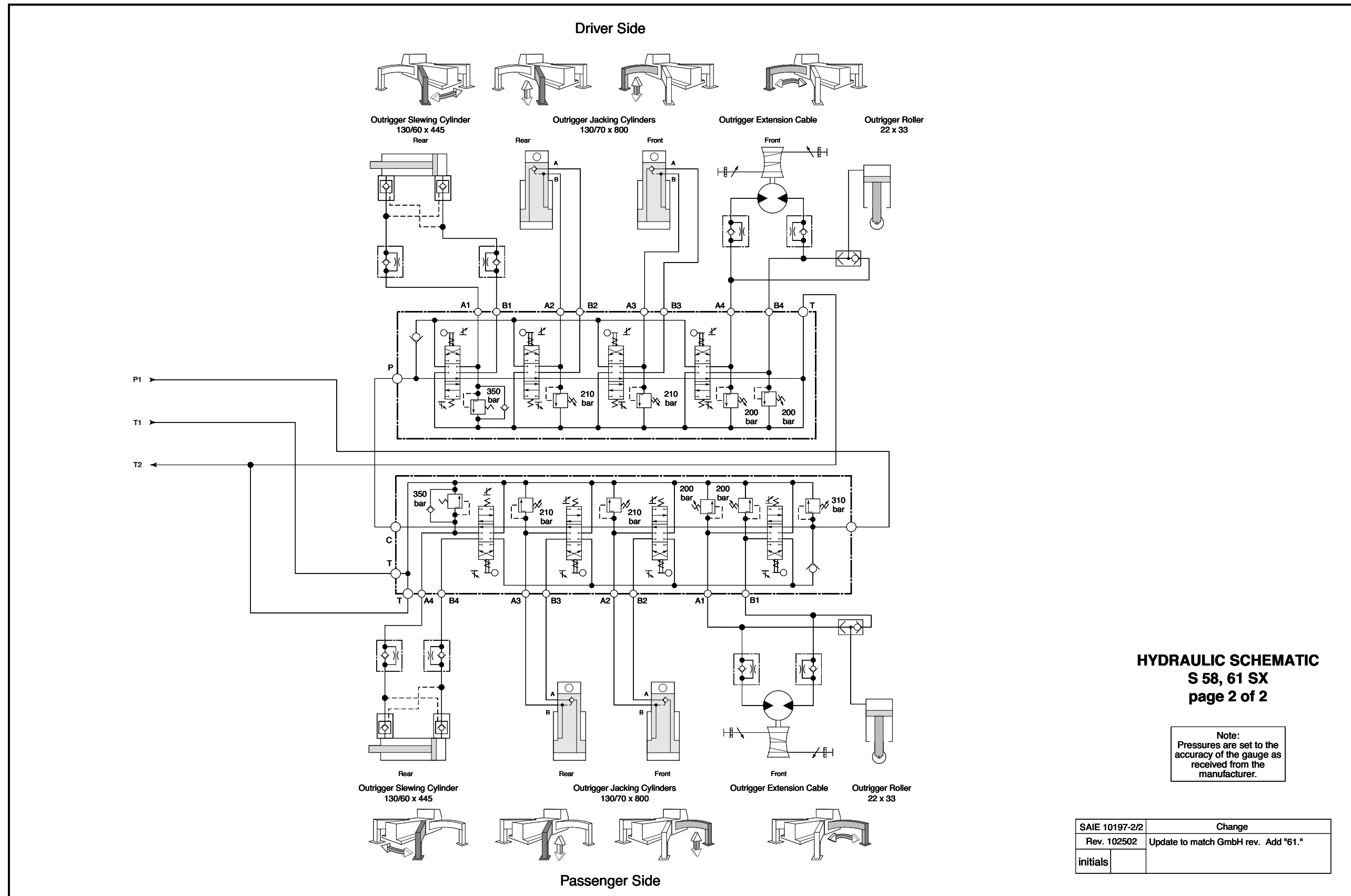
HYDRAULIC SCHEMATIC
S52 SX boom
page 1 of 2

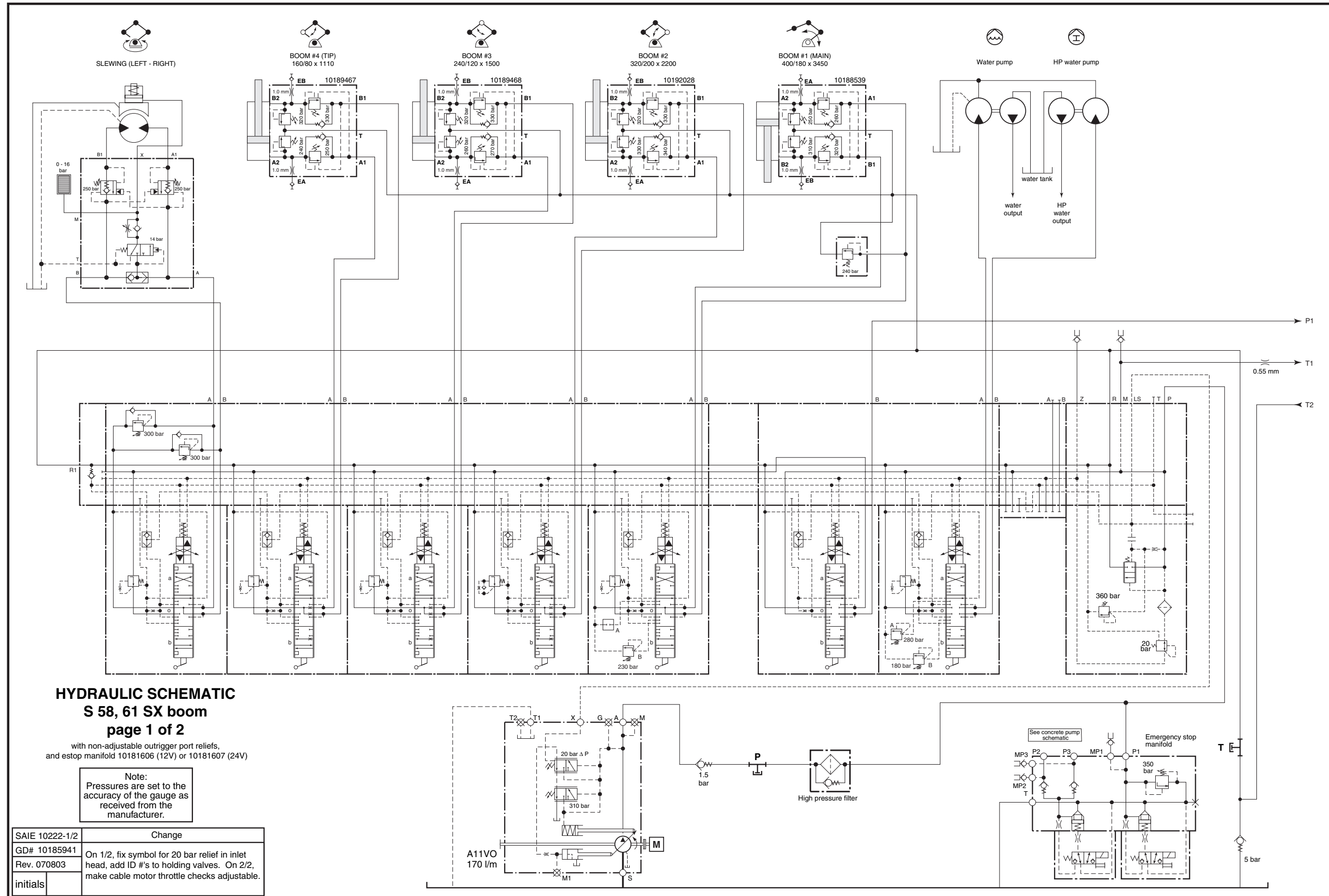
with non-adjustable outrigger port reliefs,
 and estop manifold 10181606 (12V) or 10181607 (24V)

Note:
 Pressures are set to the
 accuracy of the gauge as
 received from the

SAIE 10252-1/2	Change
GD# 10304712	Removed the 230 bar downside reliefs from Boom#1 and #2.
Rev. 030708	
initials	MB





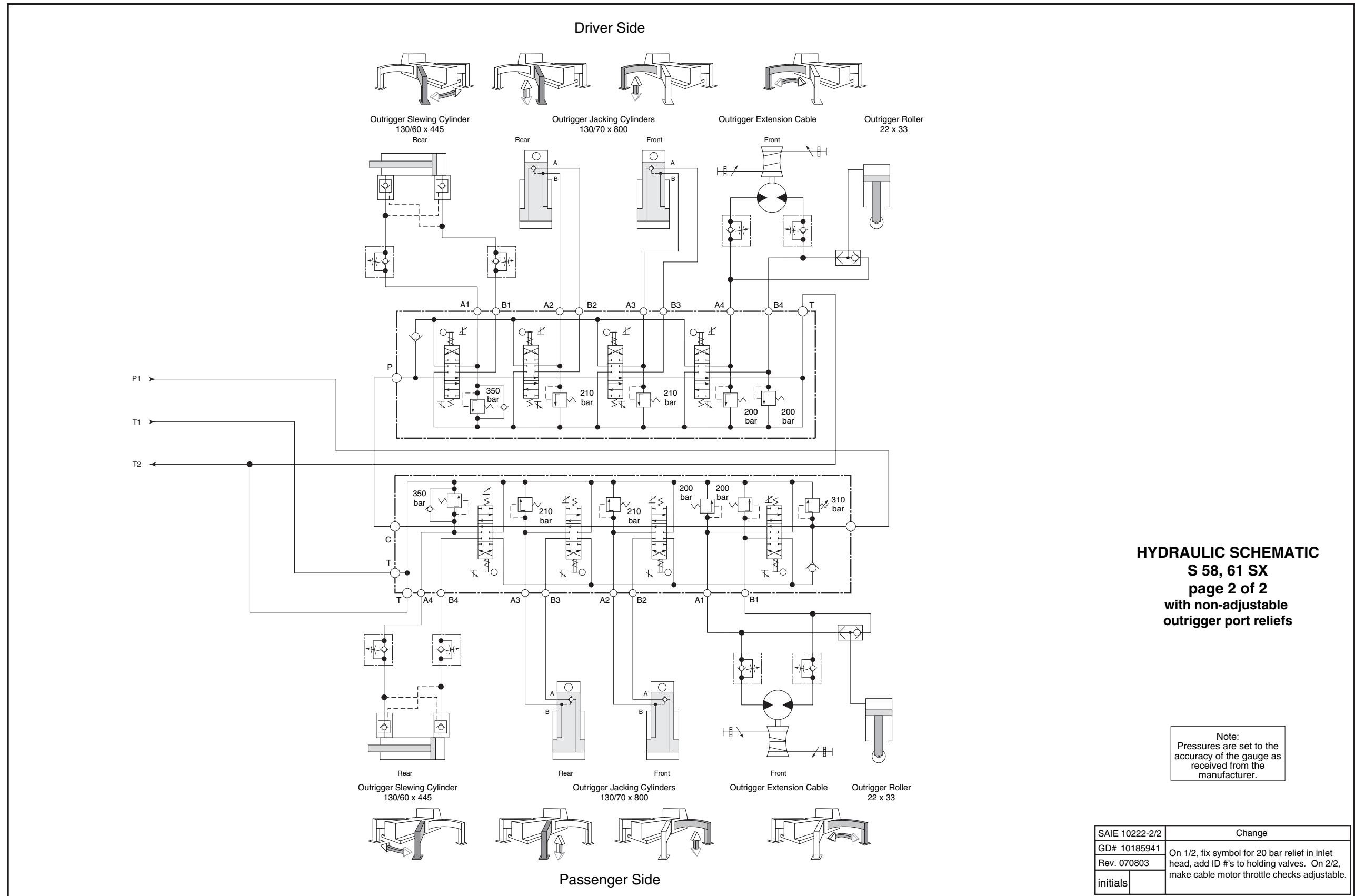


HYDRAULIC SCHEMATIC
S 58, 61 SX boom
page 1 of 2

with non-adjustable outrigger port reliefs,
 and estop manifold 10181606 (12V) or 10181607 (24V)

Note:
 Pressures are set to the
 accuracy of the gauge as
 received from the
 manufacturer.

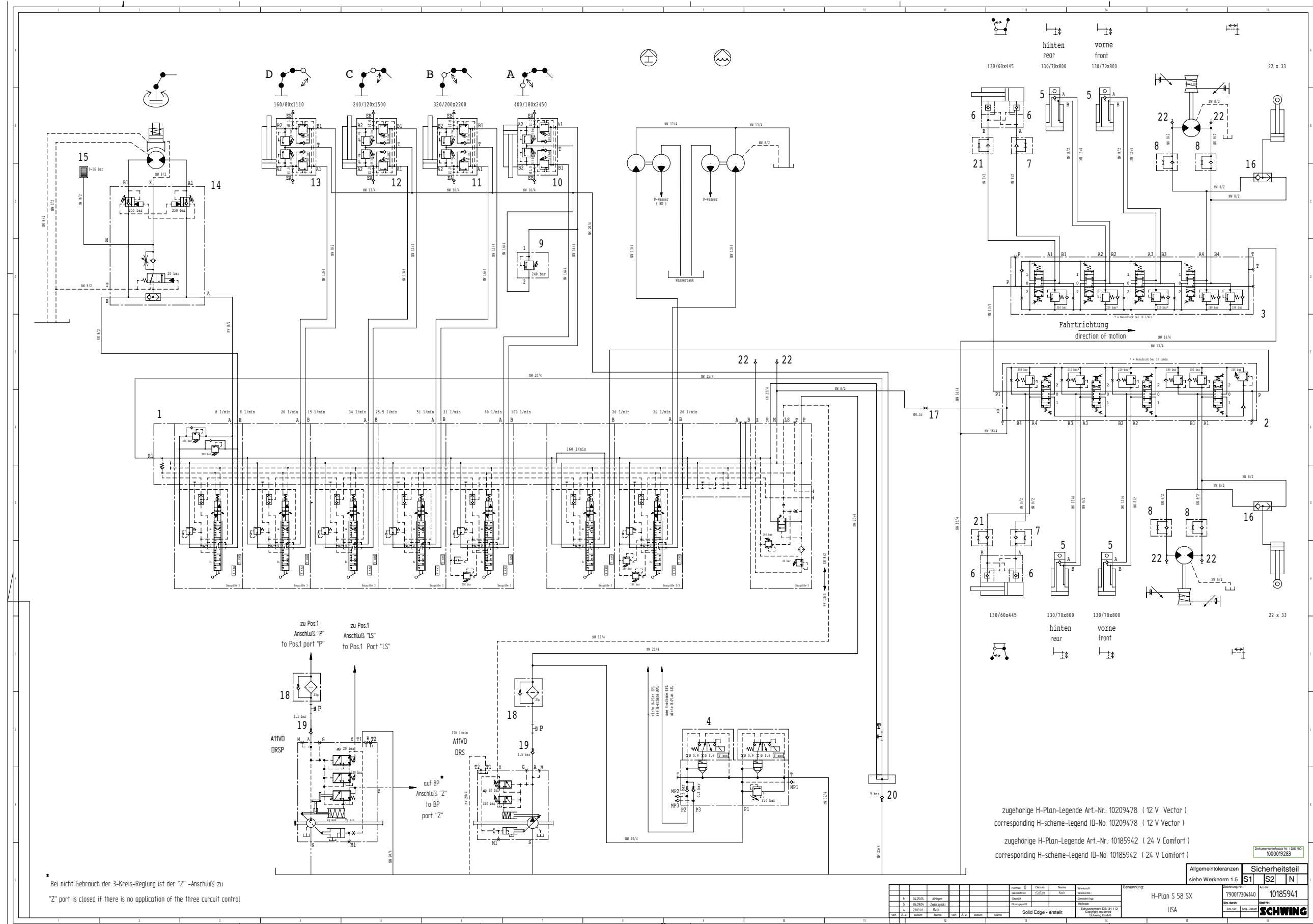
SAIE 10222-1/2	Change
GD# 10185941	On 1/2, fix symbol for 20 bar relief in inlet head, add ID #'s to holding valves. On 2/2, make cable motor throttle checks adjustable.
Rev. 070803	
initials	



HYDRAULIC SCHEMATIC
S 58, 61 SX
 page 2 of 2
 with non-adjustable
 outrigger port reliefs

Note:
 Pressures are set to the
 accuracy of the gauge as
 received from the
 manufacturer.

SAIE 10222-2/2	Change
GD# 10185941	On 1/2, fix symbol for 20 bar relief in inlet head, add ID #'s to holding valves. On 2/2, make cable motor throttle checks adjustable.
Rev. 070803	
initials	



Bei nicht Gebrauch der 3-Kreis-Reglung ist der "Z"-Anschluss zu
 "Z" port is closed if there is no application of the three circuit control

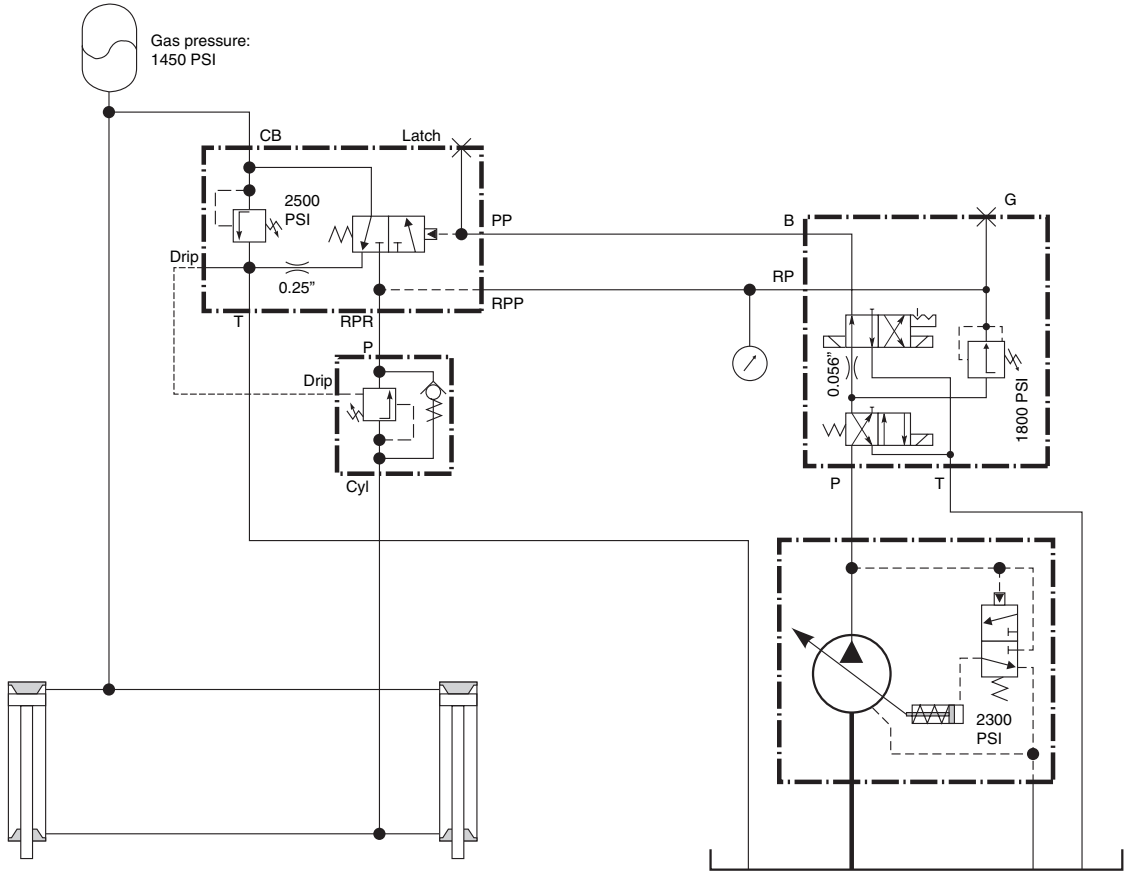
zugehörige H-Plan-Legende Art.-Nr.: 10209478 (12 V Vector)
 corresponding H-scheme-Legend ID-No.: 10209478 (12 V Vector)
 zugehörige H-Plan-Legende Art.-Nr.: 10185942 (24 V Comfort)
 corresponding H-scheme-Legend ID-No.: 10185942 (24 V Comfort)

Allgemeintoleranzen siehe Werknorm 1.5		Sicherheitsteil S1 S2 N	
79007304140		10185941	
H-Plan S 58 SX		USA	
Solid Edge - erstellt		Copyright reserved Schwing GmbH	

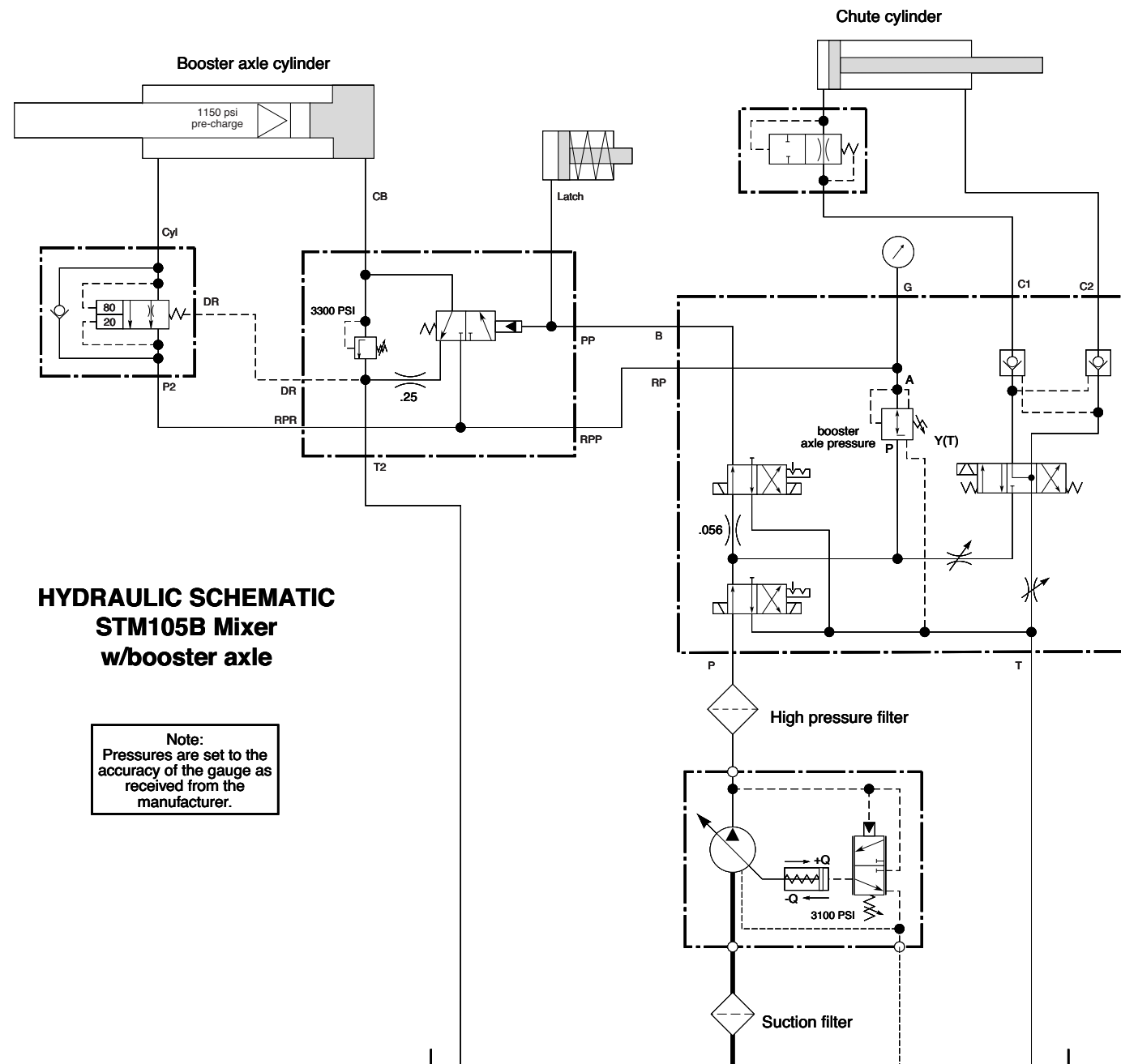
SAIE 10241	Change
Rev. 012506	Release
initials	

HYDRAULIC SCHEMATIC
KVM booster axle

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

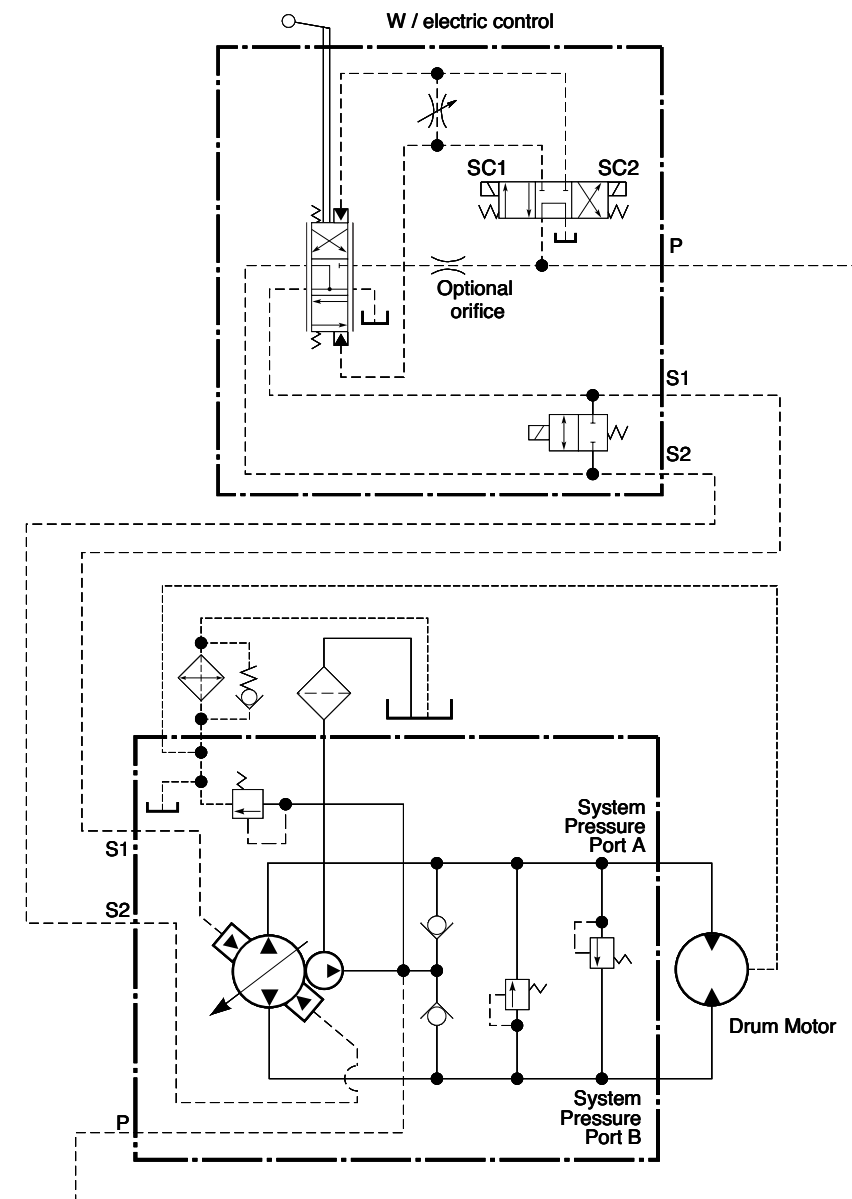
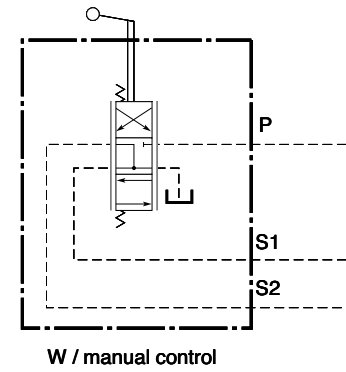


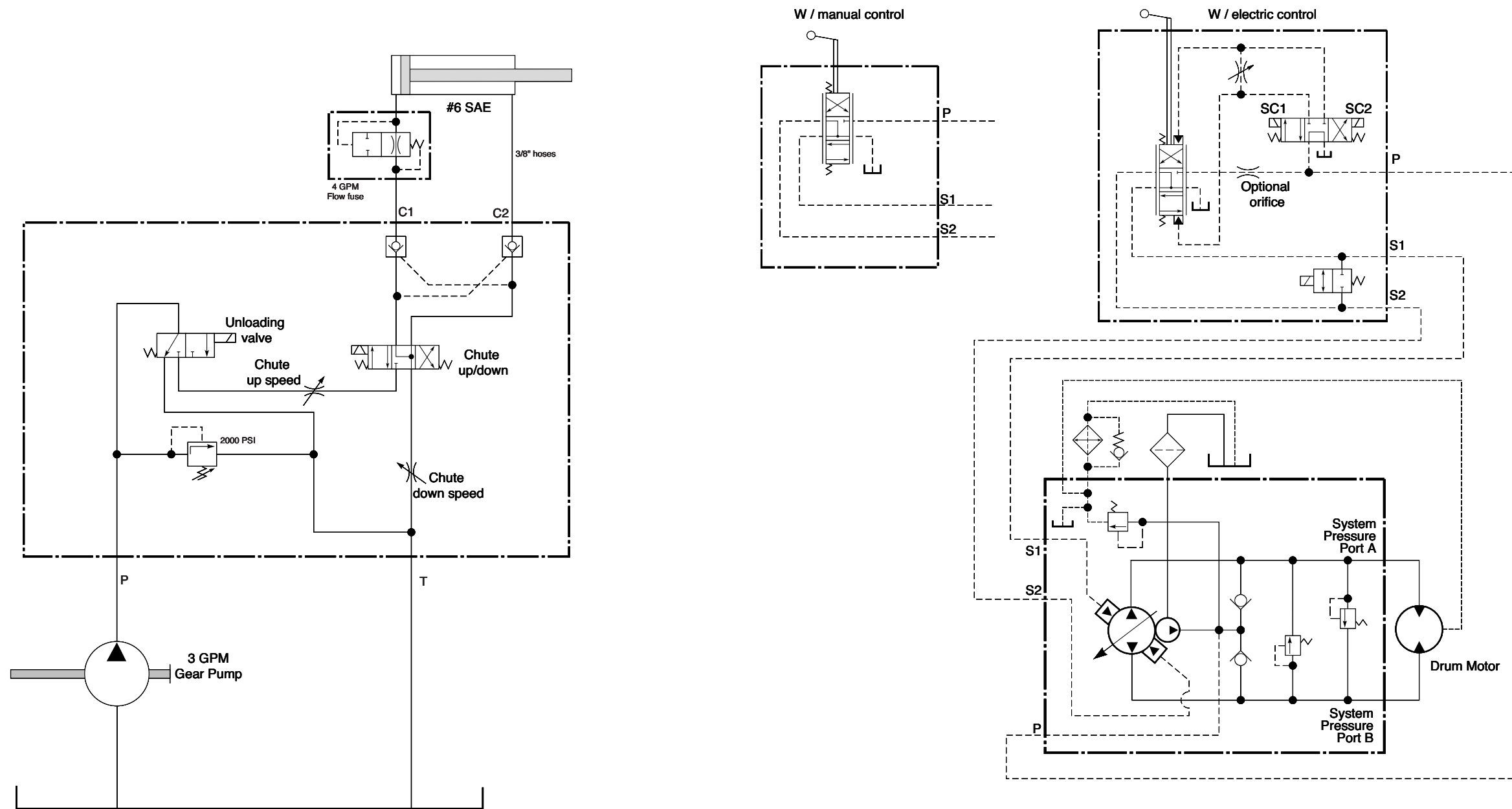
SAIE 10193	Change
Rev. 061301	Update pump, correct T2 tank line, add manual control option.
initials	



**HYDRAULIC SCHEMATIC
STM105B Mixer
w/booster axle**

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

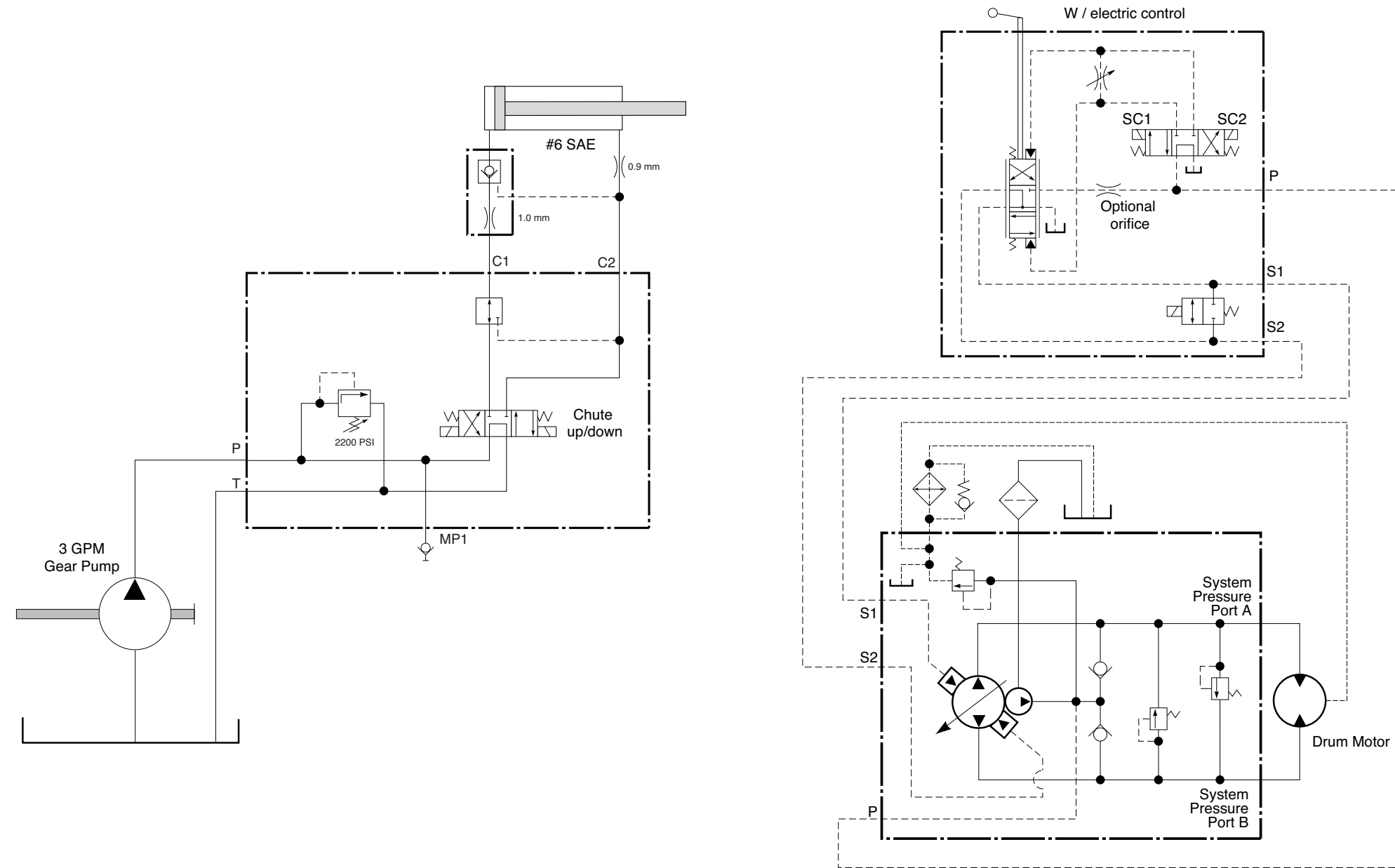




HYDRAULIC SCHEMATIC
STM105C Mixer

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

SAIE 10194	Change
Rev. 061301	Add electric controls, update chute valve symbol.
initials	



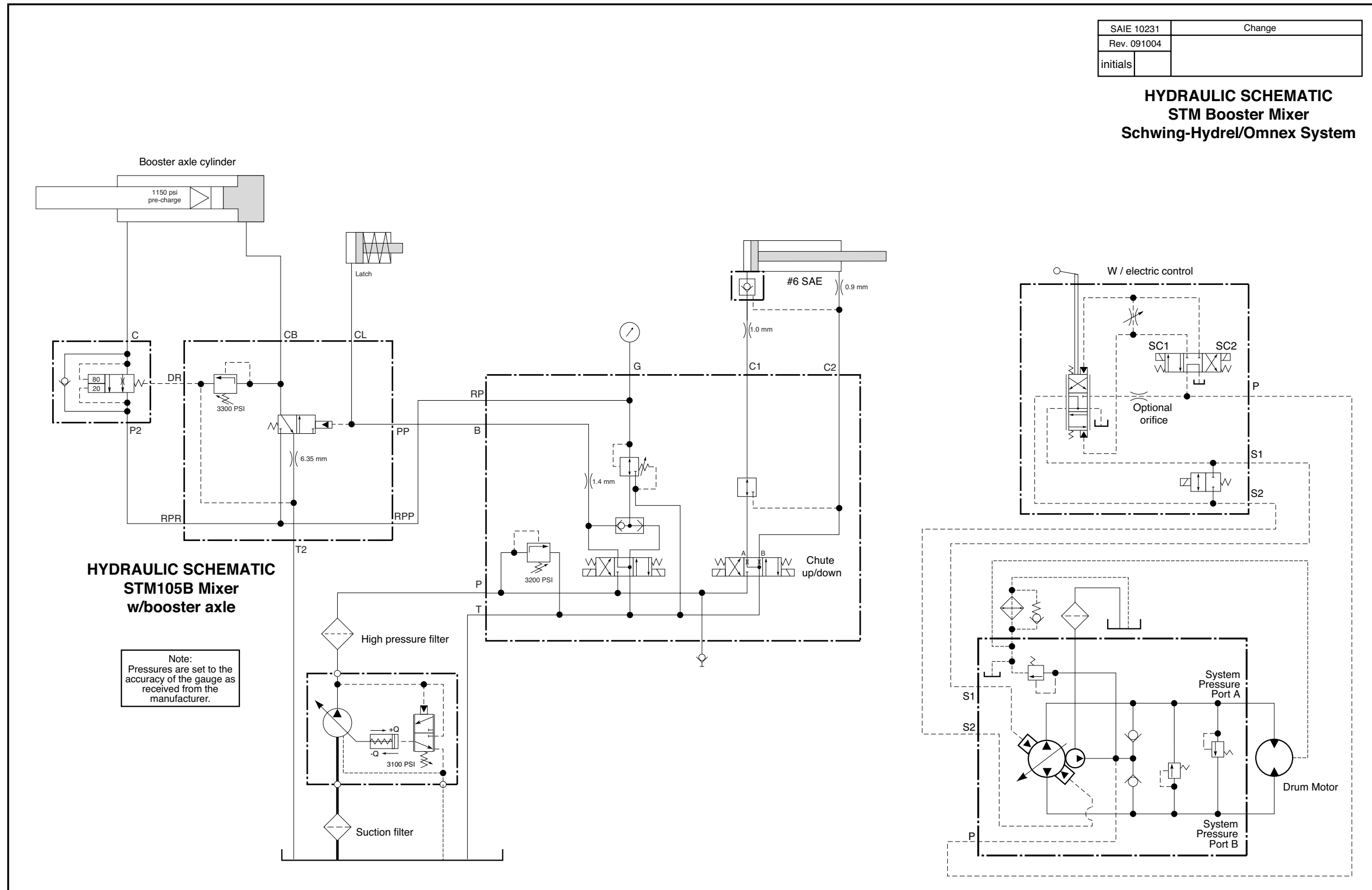
**HYDRAULIC SCHEMATIC
STM105C Mixer**

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

SAIE 10230	Change
Rev. 061301	
initials	

SAIE 10231	Change
Rev. 091004	
initials	

**HYDRAULIC SCHEMATIC
STM Booster Mixer
Schwing-Hydel/Omnex System**



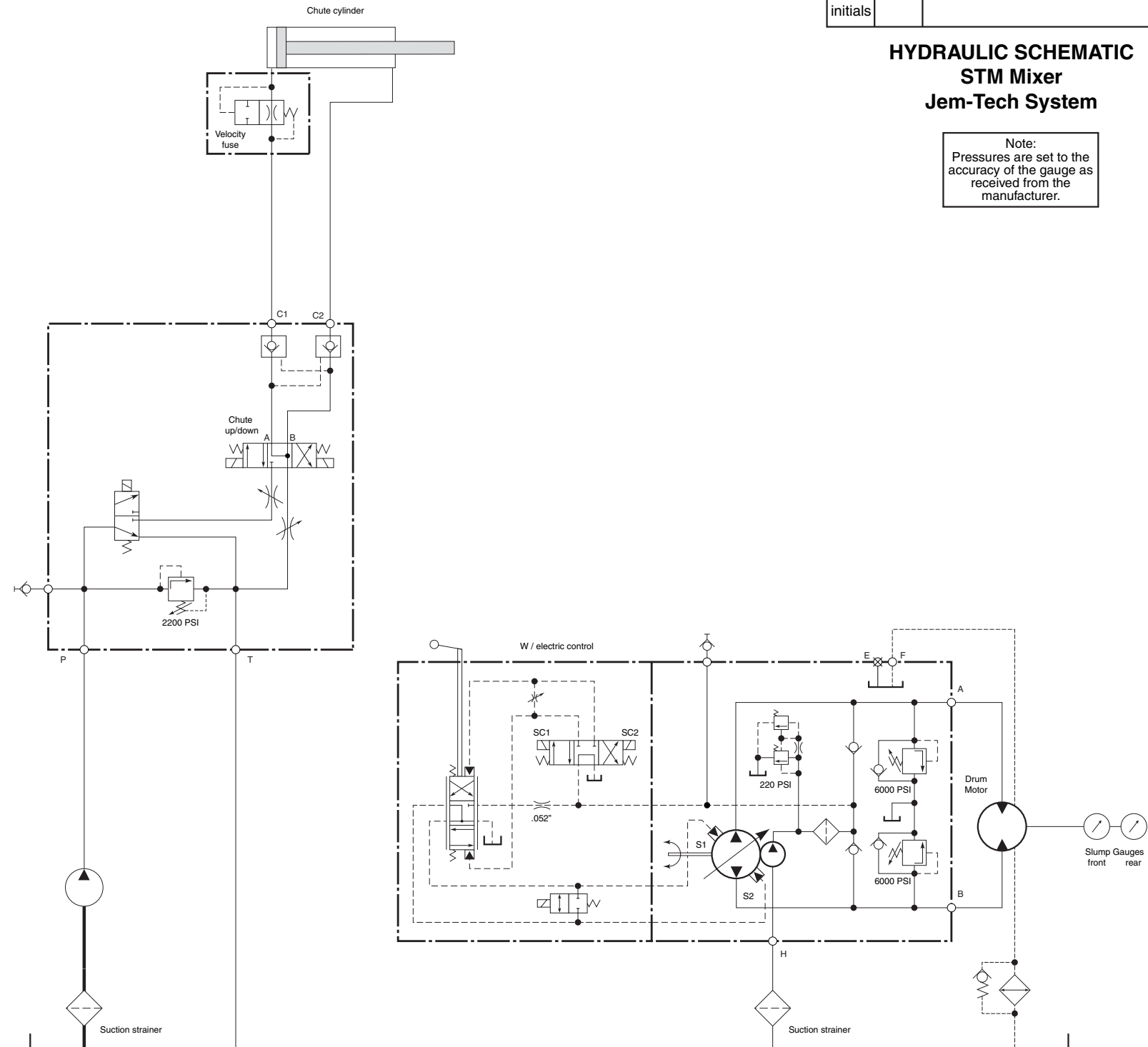
**HYDRAULIC SCHEMATIC
STM105B Mixer
w/booster axle**

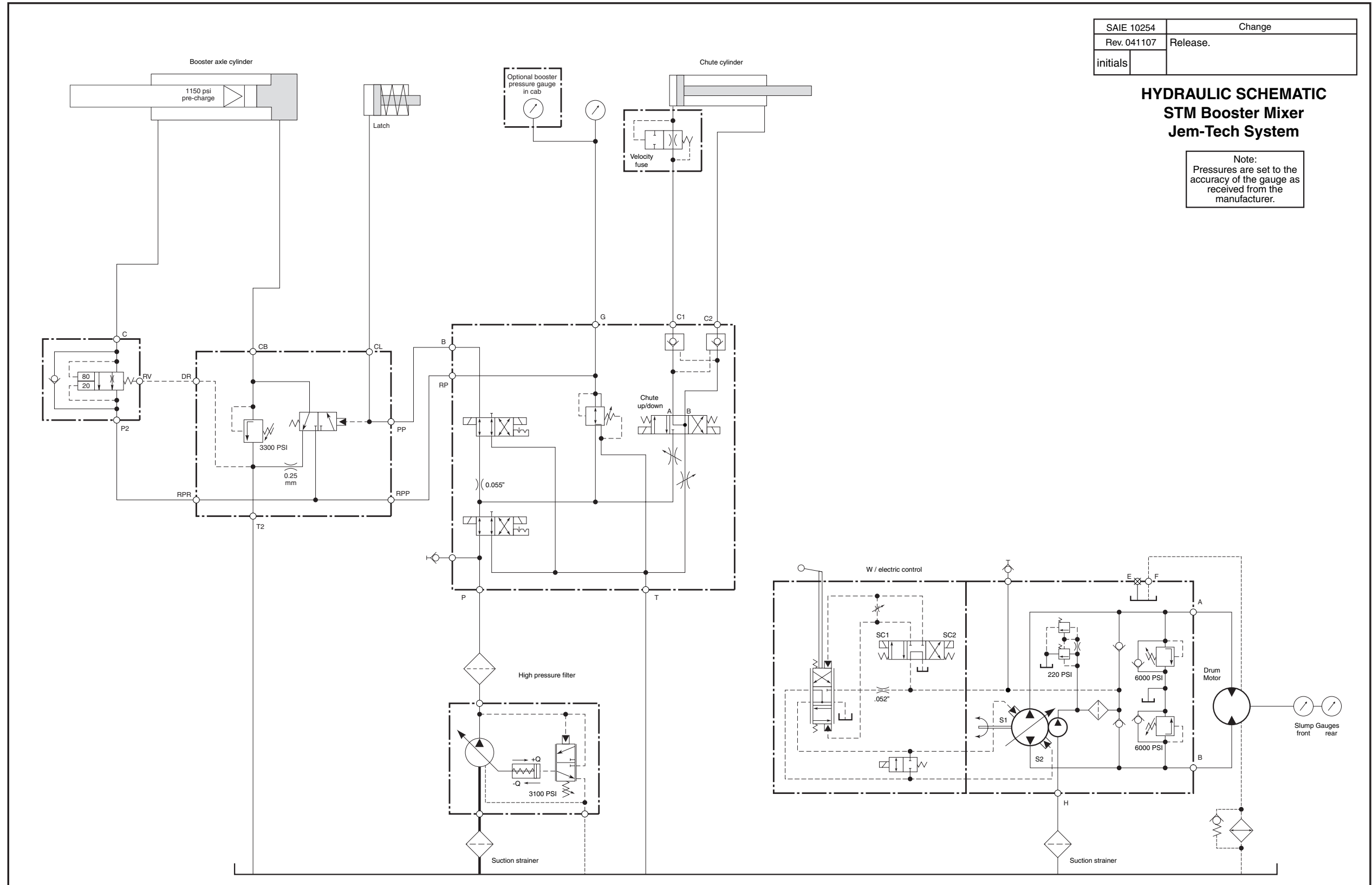
Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

SAIE 10255	Change
Rev. 041107	Release..
initials	

**HYDRAULIC SCHEMATIC
STM Mixer
Jem-Tech System**

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.





SAIE 10254	Change
Rev. 041107	Release.
initials	

**HYDRAULIC SCHEMATIC
STM Booster Mixer
Jem-Tech System**

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

SAIE 10261	Change
Rev. 062408	New Release
initials	MB

**HYDRAULIC SCHEMATIC
STM Mixer**

Manual, Rexroth pumps and Jem-Tech Valves

Note:
Pressures are set to the
accuracy of the gauge as
received from the
manufacturer.

