

# KLINGELNBERG GmbH

Industriestraße 19 D-76275 Ettlingen Tel: +49 7243 599-0

E-mail: info@klingelnberg.com

customer : Hero Motors

location : Indien

plant designation : SV 300 ES

Machine no : 433021

manufacturer : Klingelnberg GmbH

typ : Cylindrical gear grinding machine Speed Viper Master

			date	04.07.2022	machine type Speed Viper 300	inventory No.
			name	Sche_Kor	Speed viper 500	
			on	19.04.2022	customer KLINGELNBERG	M. no 433021
modification	date	name	plot	23.11.2022	origin	replac. for



designation / page
Cover sheet

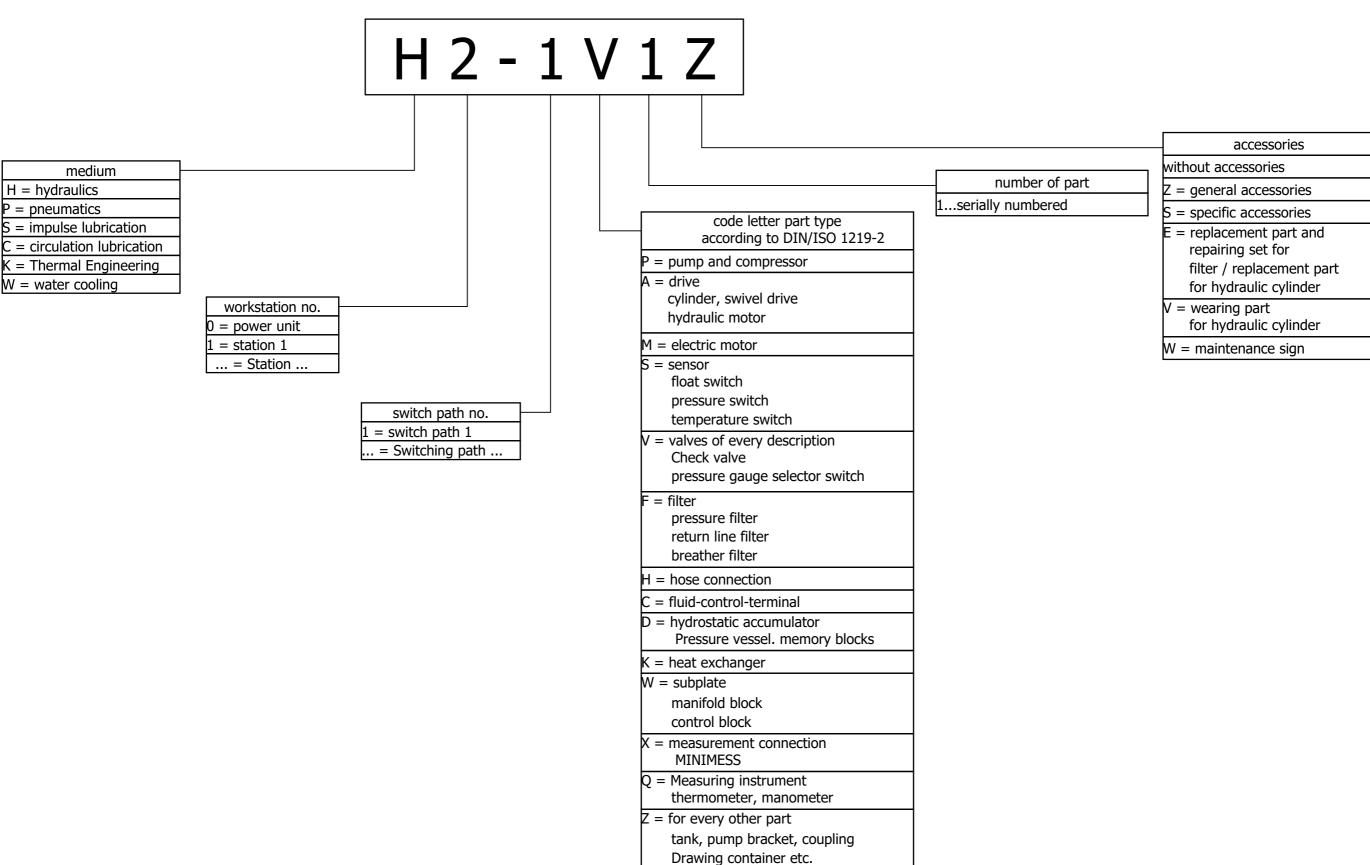
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			date	04.07.2022	machine type	inventory No.
			name	Sche_Kor	Speed Viper 300	
			on	19.04.2022	customer KLINGELNBERG	M. no 433021
modification	date	name	plot	23.11.2022	origin	replac. for



designation / page

device tag according to DIN/ISO 1219-2

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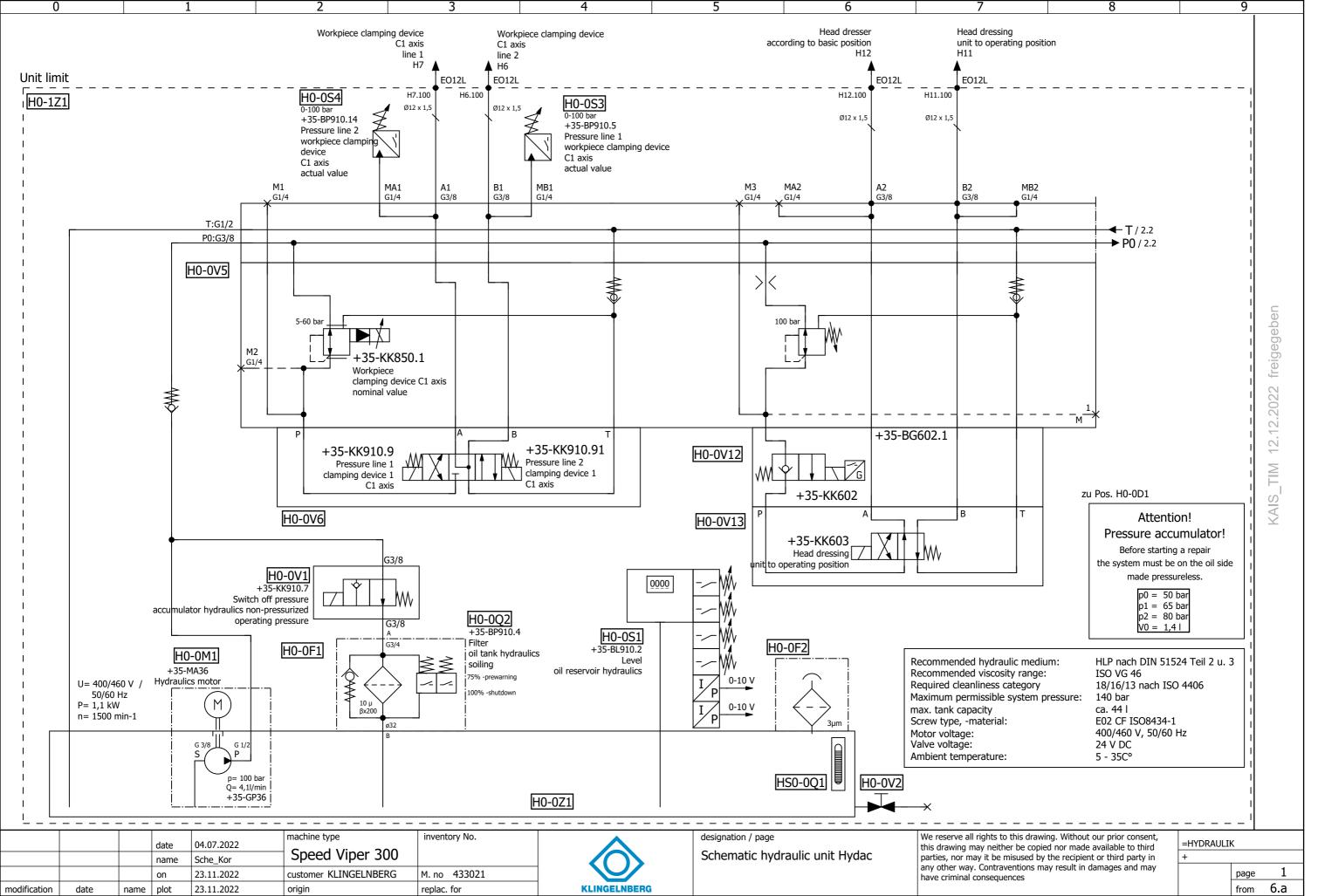
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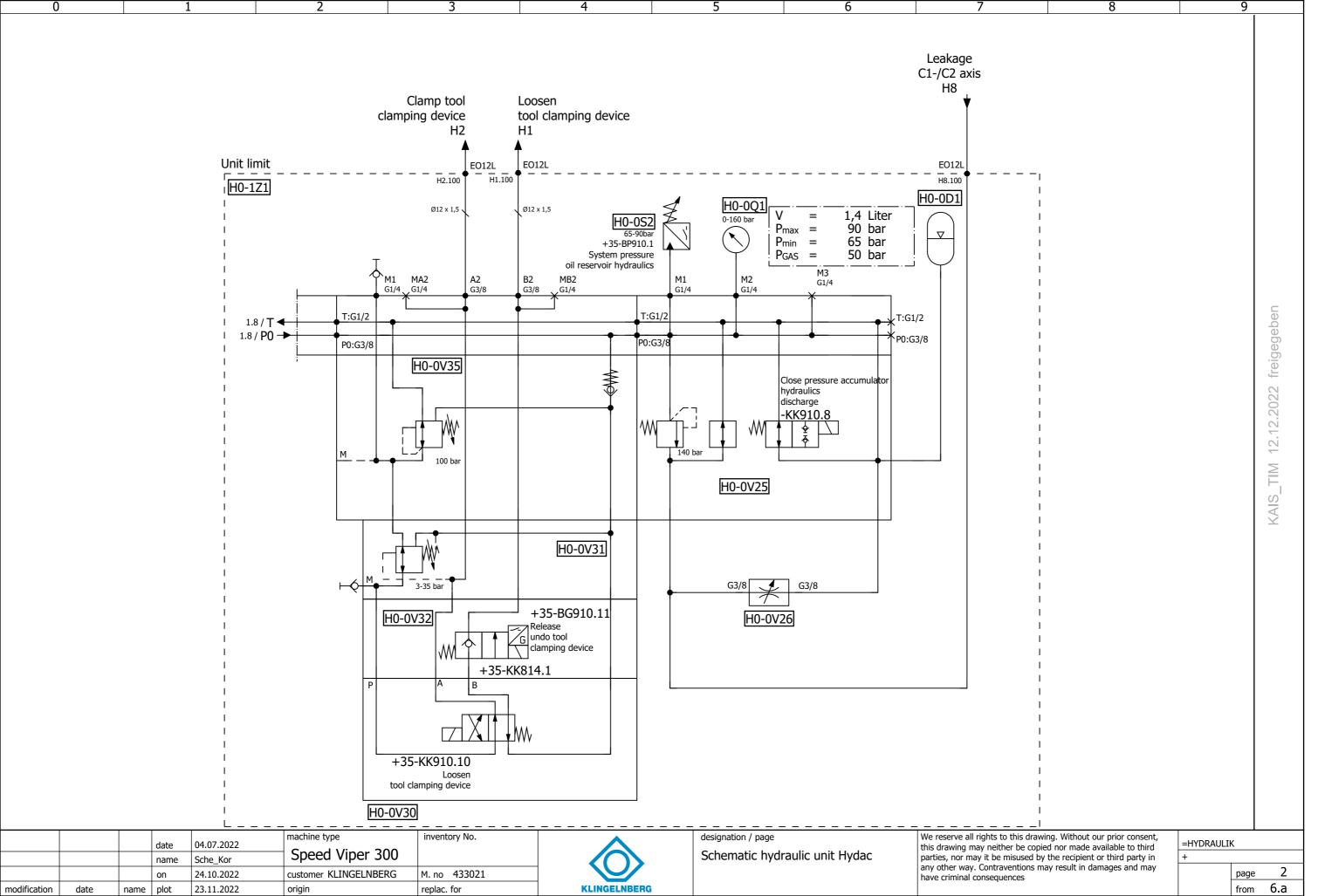
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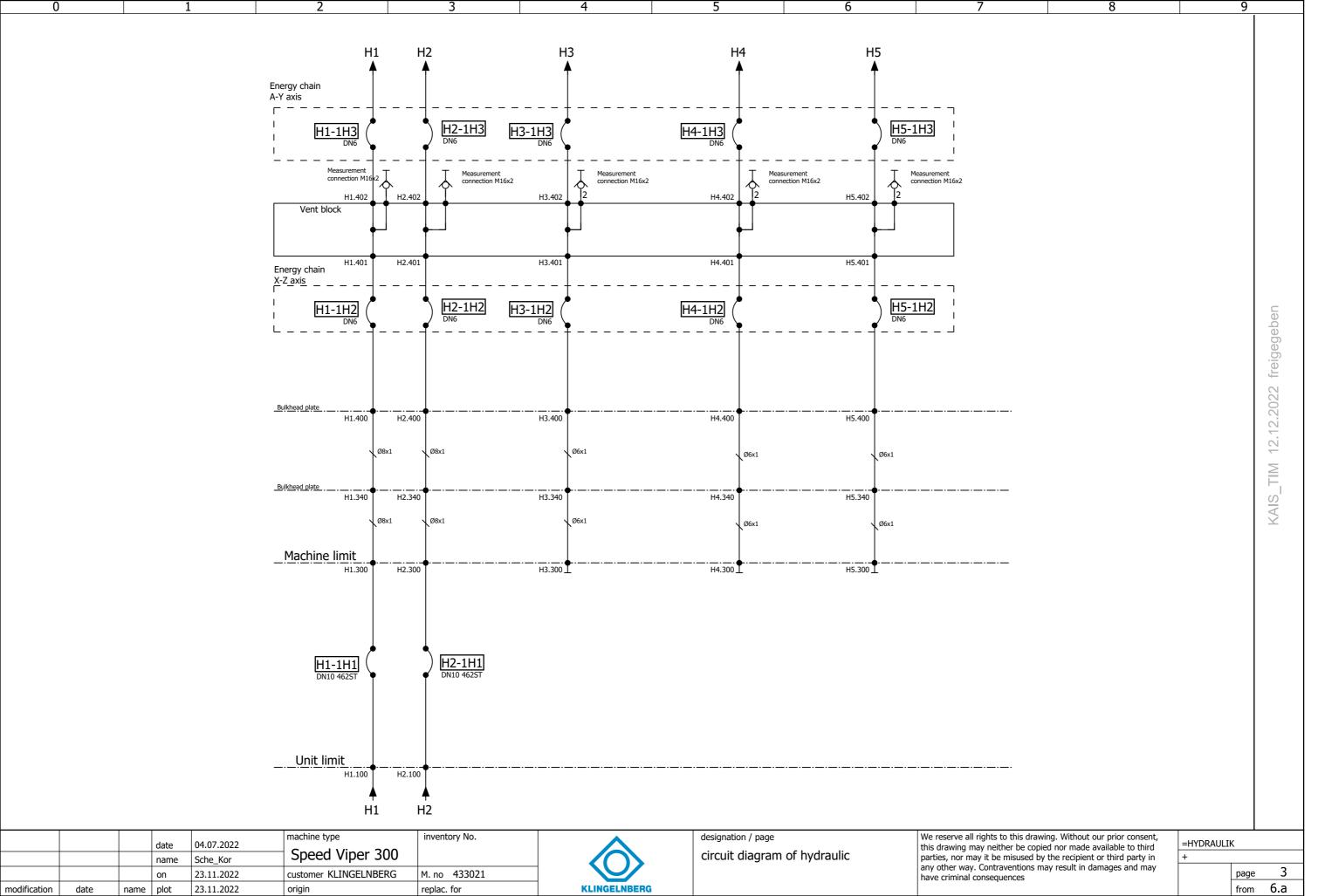
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/2				device ta	g according to DIN/ISO	1219-2			structure identifier overvie	ew	19.04.2022	Sche_Kor	
/3				Table of	contents				Table of contents		06.07.2022	Sche_Kor	
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=HYDRAU	LIK/1			Schemati	ic hydraulic unit Hydac				circuit diagram fluid		06.07.2022	Sche_Kor	
=HYDRAU	LIK/2			Schemati	ic hydraulic unit Hydac				circuit diagram fluid		06.07.2022	Sche_Kor	
=HYDRAU	LIK/3			circuit dia	agram of hydraulic				circuit diagram fluid		06.07.2022	Sche_Kor	
=HYDRAU	LIK/4			circuit dia	agram of hydraulic				circuit diagram fluid		06.07.2022	Sche_Kor	
=HYDRAU	LIK/5			STL hydr	aulics				PARTS LIST		06.07.2022	Sche_Kor	
=HYDRAU	LIK/5.a			STL hydr	aulics				PARTS LIST		06.07.2022	Sche_Kor	
=IMPULSS	CHMIERU	JNG/1		circuit dia	agram of impulse lubrica	tion unit			circuit diagram fluid		05.07.2022	Sche_Kor	
=IMPULSS	CHMIERL	JNG/2		circuit dia	agram of impulse lubrica	tion			circuit diagram fluid		06.07.2022	Sche_Kor	her
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=IMPULSS	CHMIERL	JNG/4		circuit dia	agram of impulse lubrica	tion			circuit diagram fluid		06.07.2022	Sche_Kor	Dige
=IMPULSS	CHMIERL	JNG/5		STL pulse	e lubrication				PARTS LIST		06.07.2022	Sche_Kor	fre
=PNEUMA	TIK/1			valve teri	minal				circuit diagram fluid		04.07.2022	Sche_Kor	022
=PNEUMA	TIK/2			circuit dia	agram of pneumatic unit				circuit diagram fluid		06.07.2022	Sche_Kor	2.2
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=PROZESS	SKUEHLUI	NG/1		PCS unit	filter system Hoffmann				circuit diagram fluid		06.07.2022	Sche_Kor	
=PROZESS	SKUEHLUI	NG/2		Cooling o	oil circuit diagram				circuit diagram fluid		06.07.2022	Sche_Kor	
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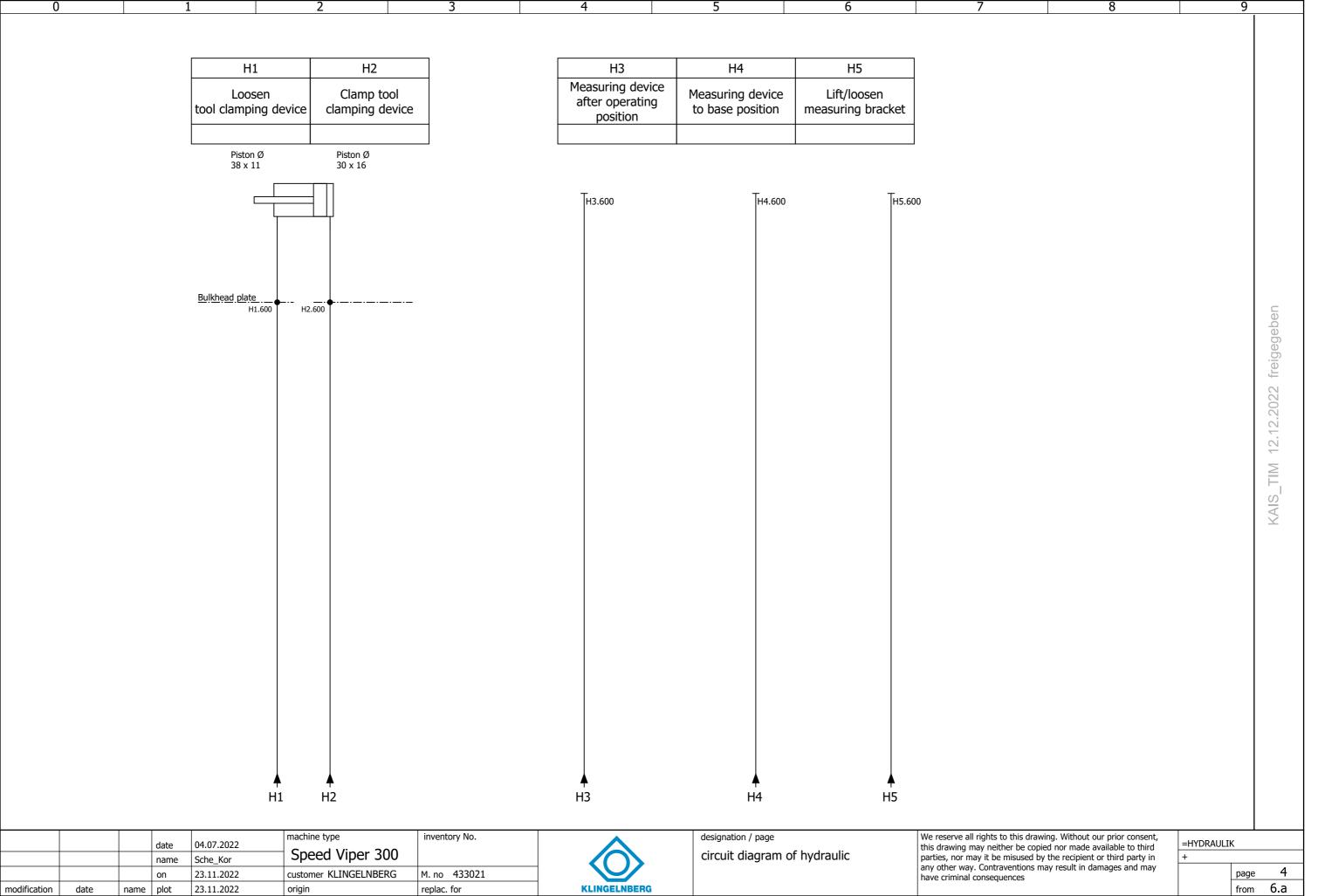
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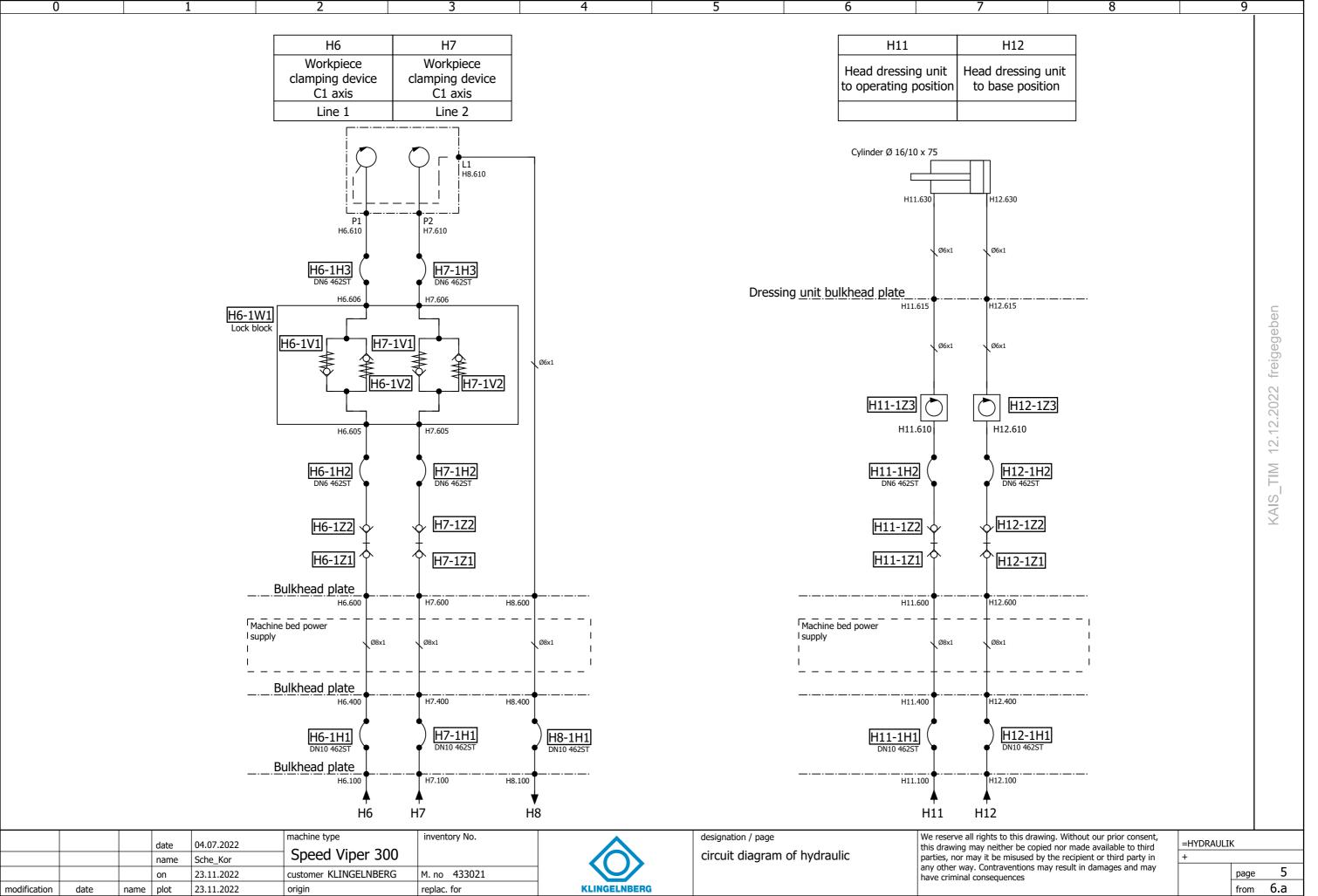
### table of contents Page page description edited by page type date Cooling oil circuit diagram circuit diagram fluid Sche\_Kor =PROZESSKUEHLUNG/3 06.07.2022 Cooling oil circuit diagram circuit diagram fluid 06.07.2022 =PROZESSKUEHLUNG/4 Sche\_Kor =PROZESSKUEHLUNG/5 STL process cooling PARTS LIST 06.07.2022 Sche\_Kor CO2 fire extinguishing system circuit diagram fluid 06.07.2022 Sche\_Kor =FEUERLOESCHANLAGE/1 STL fire extinguishing system PARTS LIST 06.07.2022 Sche\_Kor =FEUERLOESCHANLAGE/2 =WASSERKUEHLUNG/1 circuit diagram cooling unit circuit diagram fluid Sche\_Kor 05.07.2022 =WASSERKUEHLUNG/2 Circuit diagram water cooling circuit diagram fluid 06.07.2022 Sche\_Kor Sche\_Kor =WASSERKUEHLUNG/3 Circuit diagram water cooling circuit diagram fluid 06.07.2022 =WASSERKUEHLUNG/4 PARTS LIST STL water cooling 06.07.2022 Sche\_Kor freigegeben 12.12.2022 KAIS TIM inventory No. machine type designation / page We reserve all rights to this drawing. Without our prior consent, 04.07.2022 date this drawing may neither be copied nor made available to third Speed Viper 300 Table of contents parties, nor may it be misused by the recipient or third party in Sche\_Kor any other way. Contraventions may result in damages and may 3.a customer KLINGELNBERG 06.07.2022 M. no 433021 page on have criminal consequences 3.a 23.11.2022 plot origin from modification date replac. for name











# KAIS\_TIM 12.12.2022 freigegeben

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# parts list

23.11.2022

origin

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modification

date

equipment sign	electric equipment sign	part no.	designation	designation 2	designation 3	manufacture
H0-0Q2	+35-BP910.4	1265422-HYDAC	Dynamic pressure display VR2LZ.1/-BO			HYDAC
H0-0D1		3041945-HYDAC	Diaphragm accumulator 1,4 l	SBO140-1,4E1/112U-140AK		HYDAC
H0-0F1	-BP910.4	1276953-HYDAC	return line filter RFN BN/HC63BC10A1.0			HYDAC
H0-0F2		1278798-HYDAC	Filling and ventilation filter	ELF P30 F3 W1.0		HYDAC
H0-0M1	+35-MA36	6194440-HYDAC	Electric motor .IMB5 BG 90S- 1,10 KW-1500 U	Aluminum case		SIEMENS
H0-0M1	+35-GP36	3510531-HYDAC	External gear pump	PGE 101-315-RBQ1-N-3700		HYDAC
H0-0Q1		606766-HYDAC	pressure gauge HN60-01-A 63/160 / G1 / 4B	-		HYDAC
H0-0S1	+35-BL910.2	392644A	LEVEL SWITCH ENS 3000 * HYDAC	CAPACITIVE LEVEL SENSOR BAR LENGTH: 250MM,	RANGE: 170MM, CONNECTION: M12x1 / 8 WAY	HYDAC
H0-0S2	+35-BP910.1	459550A	Pressure switch EDS 824-F31-0250-000	0-250bar; G 1/4", 10-21V DC PNP, IP67	IO link interface / freely configurable	HYDAC
H0-0S3	+35-BP910.5	924790-HYDAC	Electronic pressure switch	EDS 824-F30-0100-000		HYDAC
H0-0S4	+35-BP910.14	924790-HYDAC	Electronic pressure switch	EDS 824-F30-0100-000		HYDAC
H0-0V1	+35-KK910.7	562881-HYDAC	2/2-directional control valve, pilot-controlled UNF	WS08Y-01M-C-N-0		HYDAC
10-0V2		551093-HYDAC_1	Low pressure ball valve KHNVS-Rp1 / 2-2233-12X			HYDAC
10-0V5	+35-KK850.1	3915984-HYDAC	Double function module with pressure control valve	HL-2FD2-0-xx-0-RV4-WVE-0-xx-RV14 xxxxx		HYDAC
10-0V6	+35-KK910.9	3796836-HYDAC	4/3 way solenoid valve NG 6 directly controlled	4WE6JS08-24DG/N		HYDAC
0-0V12	+35-KK?	3361705-HYDAC	2/2-way solenoid valve UNF directly controlled	WS08Z-01E-C-N-24DG		HYDAC
0-0V12 0-0V13	+35-KK?	3761174-HYDAC	4/2 directional control valve 4WE6DS08-24DG/N/8Watt	W3002-01E-C-N-24DG		HYDAC
0-0V13 0-0V25	+33-IVK!	3923023-HYDAC	Function module	HL-FS1-xx-0-DV-xx		HYDAC
		710300-HYDAC		DV5E-01X		HYDAC
0-0V26	+35-KK910.10		Flow control valve 4/2 directional control valve 4WE6DS08-24DG/N/8Watt	DV3C-01V		
0-0V30	+35-KK910.10	3761174-HYDAC	,	THE DAMAGE OF THE COSTAIN		HYDAC
0-0V31		6082098-HYDAC	Sandwich plate pressure reducing valve NG 6	ZW-DM06-01-PA 035V-N		HYDAC
0-0V32	+35-KK814.1	3361705-HYDAC	2/2-way solenoid valve UNF directly controlled	WS08Z-01E-C-N-24DG		HYDAC
0-0V35		3905741-HYDAC	Function module NG6	HL-FD2-0-x-0-R4-#1-x		HYDAC
0-0Z1		631152-HYDAC	Oil tank assembly NG 44 without stand	ALU		HYDAC
0-1Z1		491494A	hydraulic unit SV V1 O3 ES180/300	- OPTION 3: CLAMP/RELEASE TOOL	- MOTOREN: IE3, 230/400/690 V, 50 HZ / 460V 6	HYDAC
l-1H1		443937A	super high pressure hose DN10/462ST-6X1110	super high pressure hose DN10/462ST-6X1110	FITTING 1CA46-12-6 / 1CA46-12-6 * FA.PARKER	PARKER HCD
1-1H2		454771A	ultra-high pressure hose DN 6/462ST- 4X 2730	FITTING 1CA46-8-4 / 1CA46-8-4 * FA.PARKER		PARKER HCD
1-1H3		454772A	ultra-high pressure hose DN 6/462ST- 4X 2490	FITTING 1CA46-8-4 / 1CA46-8-4 * FA.PARKER		PARKER HCD
2-1H1		443937A	super high pressure hose DN10/462ST-6X1110	super high pressure hose DN10/462ST-6X1110	FITTING 1CA46-12-6 / 1CA46-12-6 * FA.PARKER	PARKER HCD
2-1H2		454773A	ultra-high pressure hose DN 6/462ST- 4X 2760	FITTING 1CA46-8-4 / 1CA46-8-4 * FA.PARKER		PARKER HCD
2-1H3		454774A	ultra-high pressure hose DN 6/462ST- 4X 2540	FITTING 1CA46-8-4 / 1CA46-8-4 * FA.PARKER		PARKER HCD
3-1H2		454775A	ultra-high pressure hose DN 6/462ST- 4X 2720	Fitting 1CA46-6-4/1CA46-6-4 *Parker		PARKER HCD
3-1H3		454778A	ultra-high pressure hose DN 6/462ST- 4X 2555	Fitting 1CA46-6-4/1CA46-6-4 *Parker		PARKER HCD
4-1H2		454777A	ultra-high pressure hose DN 6/462ST- 4X 2670	Fitting 1CA46-6-4/1CA46-6-4 *Parker		PARKER HCD
4-1H3		443964A	super high pressure hose DN 6/462ST-4X2350	FITTING 1CA46-8-4 / 1CA46-8-4 * FA.PARKER		PARKER HCD
5-1H2		454779A	ultra-high pressure hose DN 6/462ST- 4X 2680	Fitting 1CA46-6-4/1CA46-6-4 *Parker		PARKER HCD
5-1H3		454780A	ultra-high pressure hose DN 6/462ST- 4X 2530	FITTING 1CA46-6-4/1D046-6-4 *FA.PARKER		PARKER HCD
6-1H1		487547A	ultra-high pressure hose DN 12/462ST- 8X 830	FITTING: 1CA46-12-8 /1CA46-12-8		PARKER
6-1H2		487544A	ultra-high pressure hose DN 12/462ST- 8X 290	FITTING: 1CA46-12-8 /1CF46-12-8		PARKER
6-1H3		487545A	ultra-high pressure hose DN 12/462ST- 8X 400	FITTING: 1CA46-12-8 /1CF46-12-8		PARKER
6-1V1		454531A - Hydac	Check valve	RVM06020-01-C-N-0.3		HYDAC
6-1V1 6-1V2		454531A - Hydac	Check valve	RVM06020-01-C-N-0.3		HYDAC
6-1V2 6-1W1		472626A	B-BM LEADER BLOCK	141100020 01 011 0.3		HYDAC
6-1V1 6-1Z1		487542A	locking coupling SP DN106*WALTHER	M 18 x 1,5 SW19	Order no.SP-006-2-L1218-11-1	WALTHER
6-1Z1 6-1Z2		487543A	LOCKING NIPPLE SP DN10*WALTHER	M 18 x 1,5 SW19	Order no.SP-006-2-L1218-11-1	WALTHER
0-122 7-1H1		487547A	ultra-high pressure hose DN 12/462ST- 8X 830	FITTING: 1CA46-12-8 /1CA46-12-8	OldCl 110.3r -000-2-L1210-11-1	PARKER
7-1H1 7-1H2		487544A		· ·		PARKER
			ultra-high pressure hose DN 12/462ST- 8X 290	FITTING: 1CA46-12-8 /1CF46-12-8		
7-1H3		487546A	ultra-high pressure hose DN 12/462ST- 8X 280	FITTING: 1CA46-12-8 /1CA46-12-8		PARKER
7-1V1		454531A - Hydac	Check valve	RVM06020-01-C-N-0.3		HYDAC
7-1V2		454531A - Hydac	Check valve	RVM06020-01-C-N-0.3	0	HYDAC
7-1Z1		487542A	locking coupling SP DN106*WALTHER	M 18 x 1,5 SW19	Order no.SP-006-2-L1218-11-1	WALTHER
7-1Z2		487543A	LOCKING NIPPLE SP DN10*WALTHER	M 18 x 1,5 SW19	Order no.SP-006-2-L1218-11-1	WALTHER
8-1H1		443937A	super high pressure hose DN10/462ST-6X1110	super high pressure hose DN10/462ST-6X1110	FITTING 1CA46-12-6 / 1CA46-12-6 * FA.PARKER	PARKER HCD
11-1H1		454388A	ultra-high pressure hose DN 10/462ST- 6X 980	FITTING 1CA46-12-6 / 1CA46-12-6 * FA.PARKER		PARKER-ERMETO
	date name	04.07.2022	nachine type inventory No.  Speed Viper 300	designation / page STL hydraulics	We reserve all rights to this drawing. Without our parties, nor may it be misused by the recipient or the misused by the misused	lable to third =HYDRAULII third party in +
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### parts list equipment equipment designation 2 designation 3 designation manufacturer part no. sign sign H11-1H2 461492A ultra-high pressure hose DN 6/462ST- 4X 840 FITTING 1C946-6-4/1CA46-8-4 \*PARKER PARKER H11-1Z1 461493A Sealing coupling SP DN 6\*WALTHER Order No. SP-006-0-L0814-11-1 WALTHER Sealing nipple SP DN 6\*WALTHER ORDER NO. SP-006-2-L0814-11-1 WALTHER H11-1Z2 461494A 461497A BALL BEARING SWIVEL JOINT DG101/06SOMD PARKER H11-1Z3 454388A ultra-high pressure hose DN 10/462ST- 6X 980 FITTING 1CA46-12-6 / 1CA46-12-6 \* FA.PARKER PARKER-ERMETO H12-1H1 H12-1H2 461492A ultra-high pressure hose DN 6/462ST- 4X 840 FITTING 1C946-6-4/1CA46-8-4 \*PARKER PARKER Sealing coupling SP DN 6\*WALTHER Order No. SP-006-0-L0814-11-1 WALTHER H12-1Z1 461493A H12-1Z2 461494A Sealing nipple SP DN 6\*WALTHER ORDER NO. SP-006-2-L0814-11-1 WALTHER 461497A BALL BEARING SWIVEL JOINT DG101/06SOMD PARKER H12-1Z3 HS0-0Q1 700036-HYDAC Liquid level indicator FSA 127-1.X / - / 12 HYDAC freigegeben 12.12.2022 $\geq$ KAIS machine type inventory No. designation / page We reserve all rights to this drawing. Without our prior consent, =HYDRAULIK 04.07.2022 this drawing may neither be copied nor made available to third Speed Viper 300 STL hydraulics parties, nor may it be misused by the recipient or third party in any other way. Contraventions may result in damages and may name Sche\_Kor 6.a customer KLINGELNBERG 23.11.2022 M. no 433021 page on have criminal consequences 6.a modification plot 23.11.2022 **KLINGELNBERG** from origin replac. for

date

name

MIRCOLUBE GB 00 basic oil viscosity DIN 51 561 at 40°C 700 mm<sup>2</sup>/s

1 Pulse to 500 m approach path X,Y, Z axis

1 pulse by machine starting or

1 Pulse to 500 m approach path Z1, Z3, Z4 axis

Once the one impuls is reached the counter readings will be set to "0"

Container volume Oil type standard part no.	: 3 : GB 00 : DIN 51	Liter .561	<sub> </sub>
Lubrication cycle			·—
Set-up mode Automatic operation	: [val] _: [val]	min <u>min</u>	_ į

: <u>Auto</u>	: Automatic operation				
PQ	: 30 bar : 0.2 l/min				
n Pel U f	: 2600 min-1 : 60 W : 115/230 Volt : 50 Hz				
n Pel U	: 3050 min-1 : 75 W : 115/230 Volt : 60 Hz				

			date	04.07.2022	machine type	inventory No.
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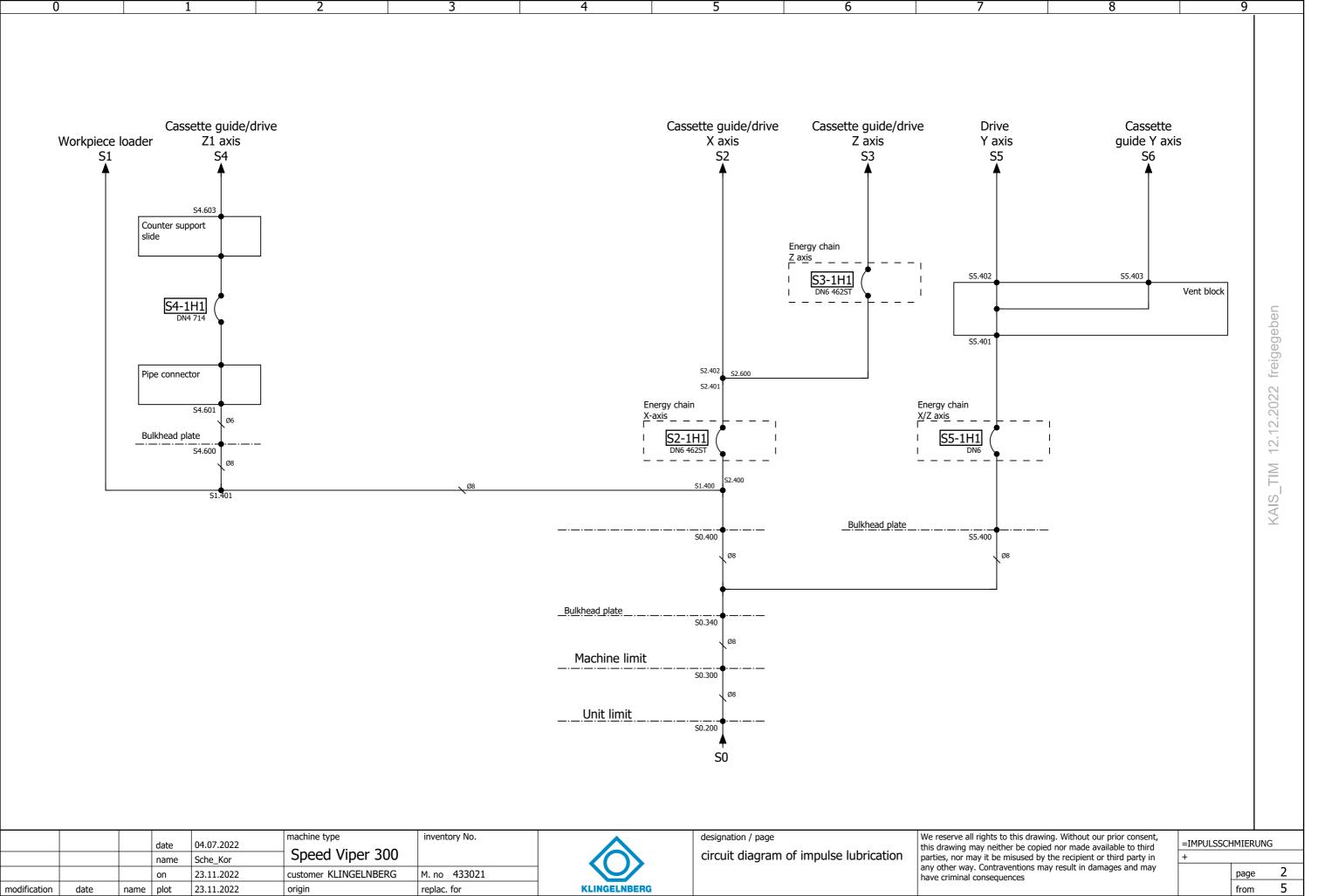


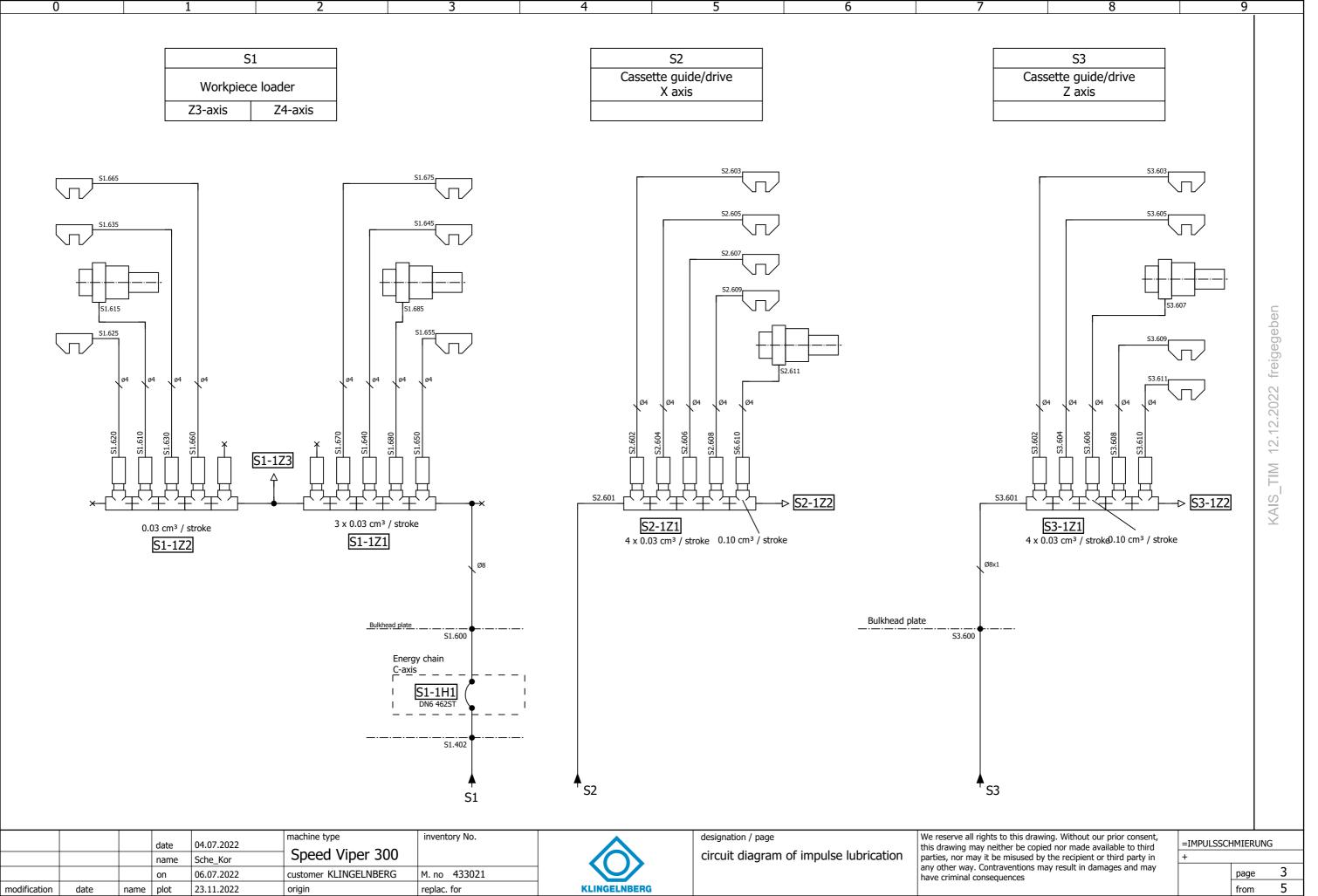
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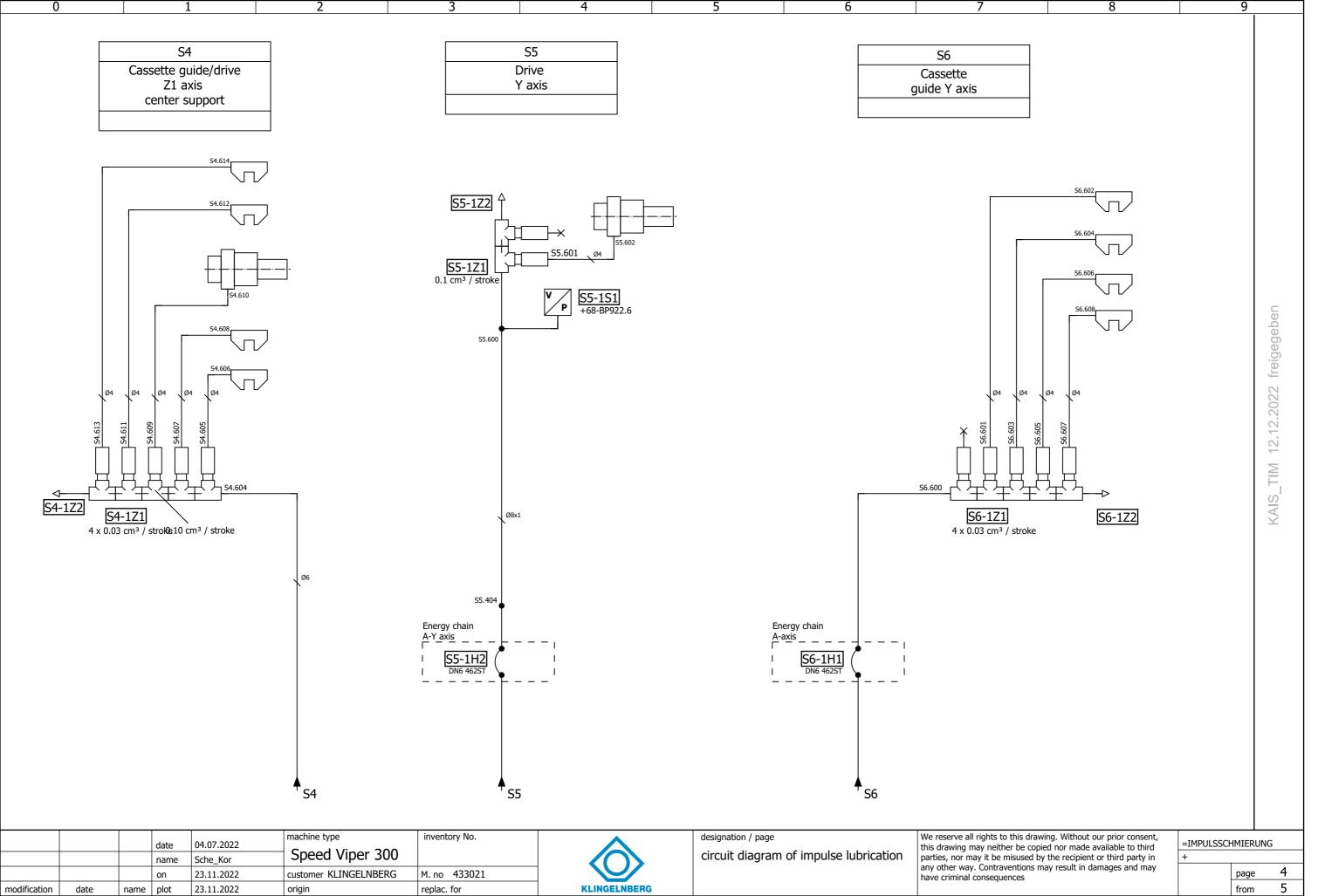
Circuit diagram of impulse lubrication

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# manufacturer PARKER-ERMETO SKF VOGEL PARKER HCD SKF VOGEL PARKER HCD freigegeben KAIS\_TIM 12.12.2022

	designation 2	designation 3
	Compact unit, liquid grease (UL)	MKF2-12BC12000 + 924 (24V DC)
	FITTING 1CA46-8-4 / 1CA46-8-4 * FA.PARKER	
	995.001.085	
	FITTING 1CA46-8-4 / 1CA46-8-4 * FA.PARKER	
	995.001.085	
	FITTING 1CA46-8-4 / 1CA46-8-4 * FA.PARKER	
	995.001.085	
Ī	lubrication hose 714-1400-K	*SKF

	PARKER HCD
	SKF
	VOGEL
*SKF	SKF-VOGEL
	SKF
	VOGEL
	PARKER-ERMETO
	PARKER-ERMETO
18-30V DC PNP, 2x NO/NC	IFM
	SKF
	PARKER HCD
	SKF
	VOGEL

18-30V DC PNP, 2x NO/NC	IFM
	SKF
	PARKER HCD
	SKF
	VOGEL
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		STL pulse lubrication	this drawing may neither be copied nor made available to the parties, nor may it be misused by the recipient or third part any other way. Contraventions may result in damages and	y in	+	
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				date	04.07.2022	C	11/: 200	
				name	Sche_Kor	Speed	l Viper 300	
				on	06.07.2022	customer l	KLINGELNBERG	M. no 433021
modification	da	te	name	plot	23.11.2022	origin		replac. for

parts list

equipment

sign

+35-GP3

+68-BP922.6

part no.

7832474A

454796A

7832447A

7832447A

419877A

443964A

457695A

419877A

443964A

457712A

419877A

461660A

457802A

419877A

454781A

454782A

448459A

454191A

443900A

454192A

419877A

designation

Compact unit MKF2-12BC12000+924

Divider valve 345-5VS-22224-NF\*SKF

Divider valve 345-5VS-22422-FC\*SKF

Divider valve 345-500-22422-BF\*SKF

Divider valve 342-5VS-4V000-FN\*SKF

Divider valve 345-5VS-V2222-NF\*SKF

Ventilation screw \*Vogel

PRESSURE SENSOR PN 7092

HOSE LINE D 4 X 1400 NR.714

ultra-high pressure hose DN 6/462ST- 4X 1900

super high pressure hose DN 6/462ST-4X2350

super high pressure hose DN 6/462ST-4X2350

ultra-high pressure hose DN 6/462ST- 4X 2790

ultra-high pressure hose DN 6/462ST- 4X 2235

super high pressure hose DN 6/462ST-4X2050

PISTON DISTRIBUTOR GREASE NO.345-5VS-33333-ZZ

PISTON DISTRIBUTOR GREASE NO.345-5VS-33333-ZZ

equipment

sign

S0-0Z1

S1-1H1

S1-1Z1

S1-1Z2

S1-1Z3

S2-1H1

S2-1Z1 S2-1Z2

S3-1H1

S3-1Z1

S3-1Z2

S4-1H1

S4-1Z1

S4-1Z2

S5-1H1

S5-1H2

S5-1S1

S5-1Z1

S6-1H1

S6-1Z1

S6-1Z2



995.001.085

995.001.085

FITTING 1CA46-8-4 / 1CA46-8-4 \* FA.PARKER

FITTING 1CA46-8-4 / 1CA46-8-4 \* FA.PARKER

FITTING 1CA46-8-4 / 1CA46-8-4 \* FA.PARKER

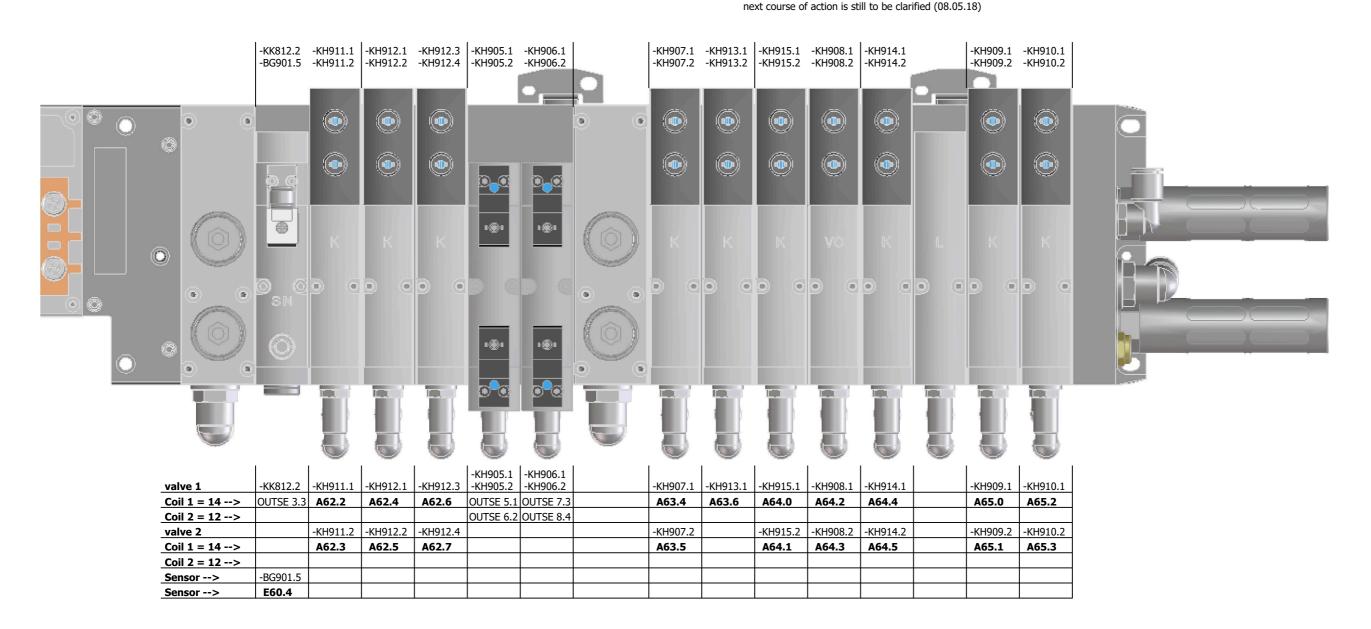
0-100bar; 0-1450PSI; 0-10MPa, G 1/4",

RUNG 5

### Valve terminal view with all options

# Comment: -KH913 for Festo fitted between -KH914 and -KH909, the

6



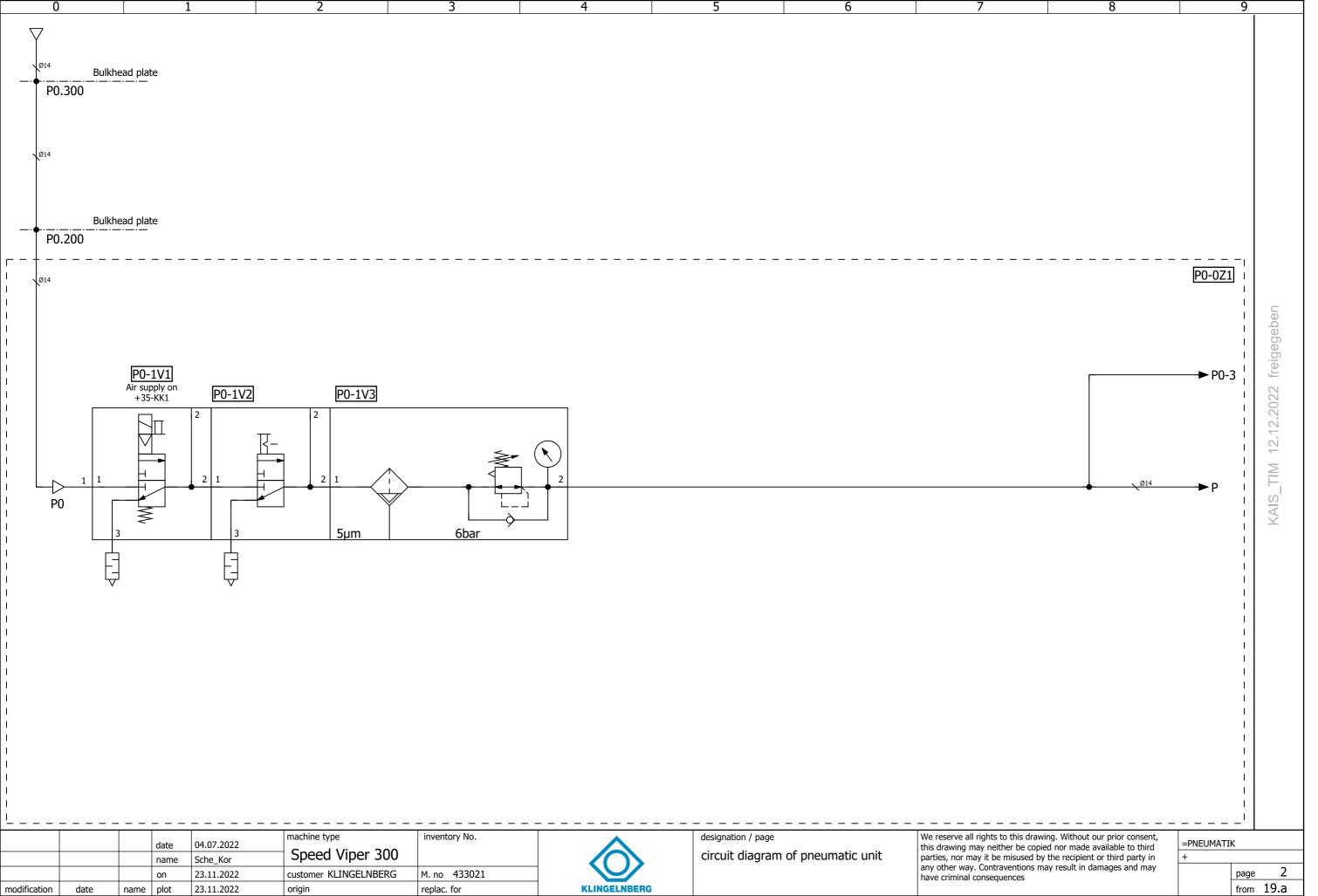
			date	04.07.2022	machine type	inventory No.
			name	Sche_Kor	Speed Viper 300	
			on	04.07.2022	customer KLINGELNBERG	M. no 433021
modification	date	name	plot	23.11.2022	origin	replac. for

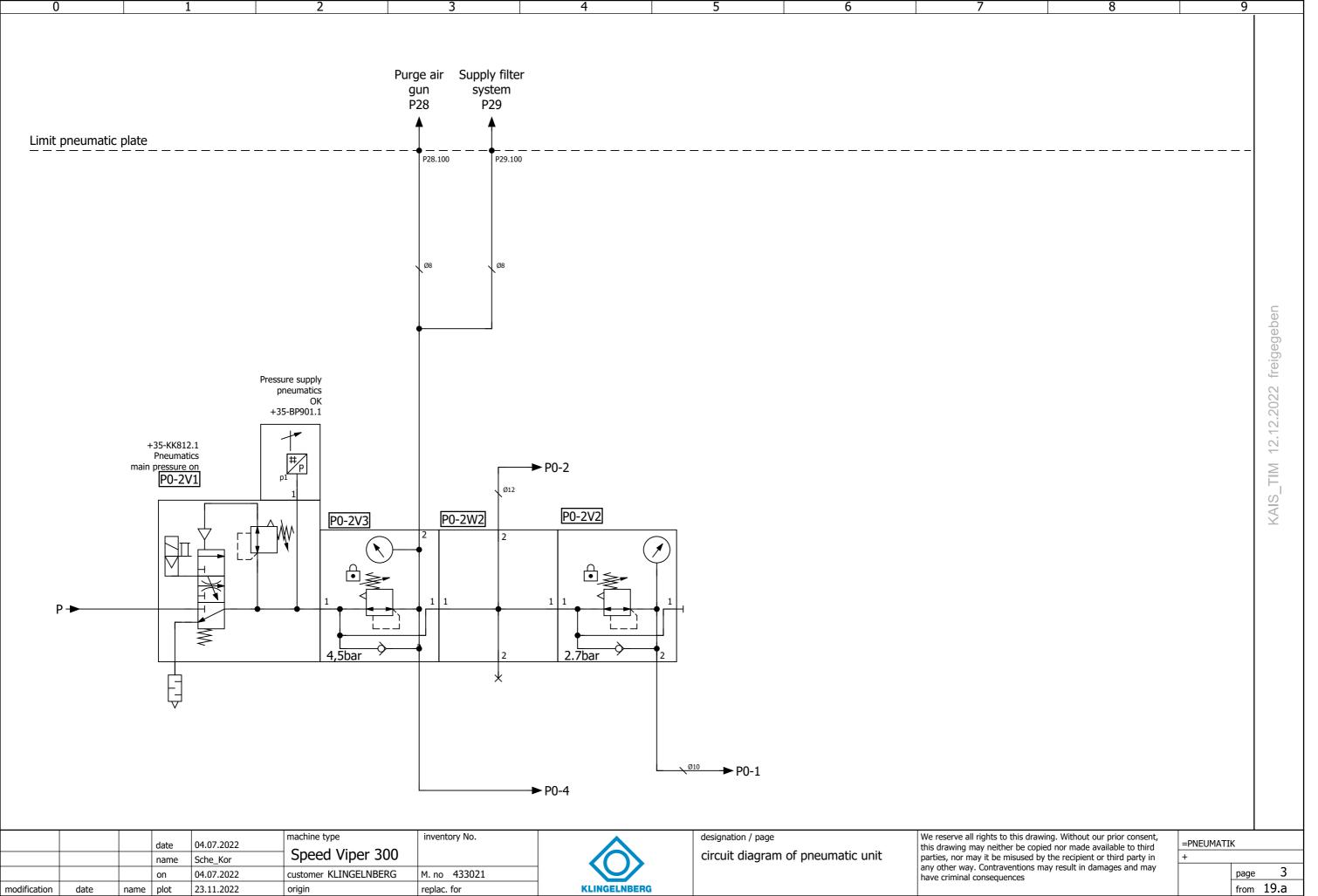


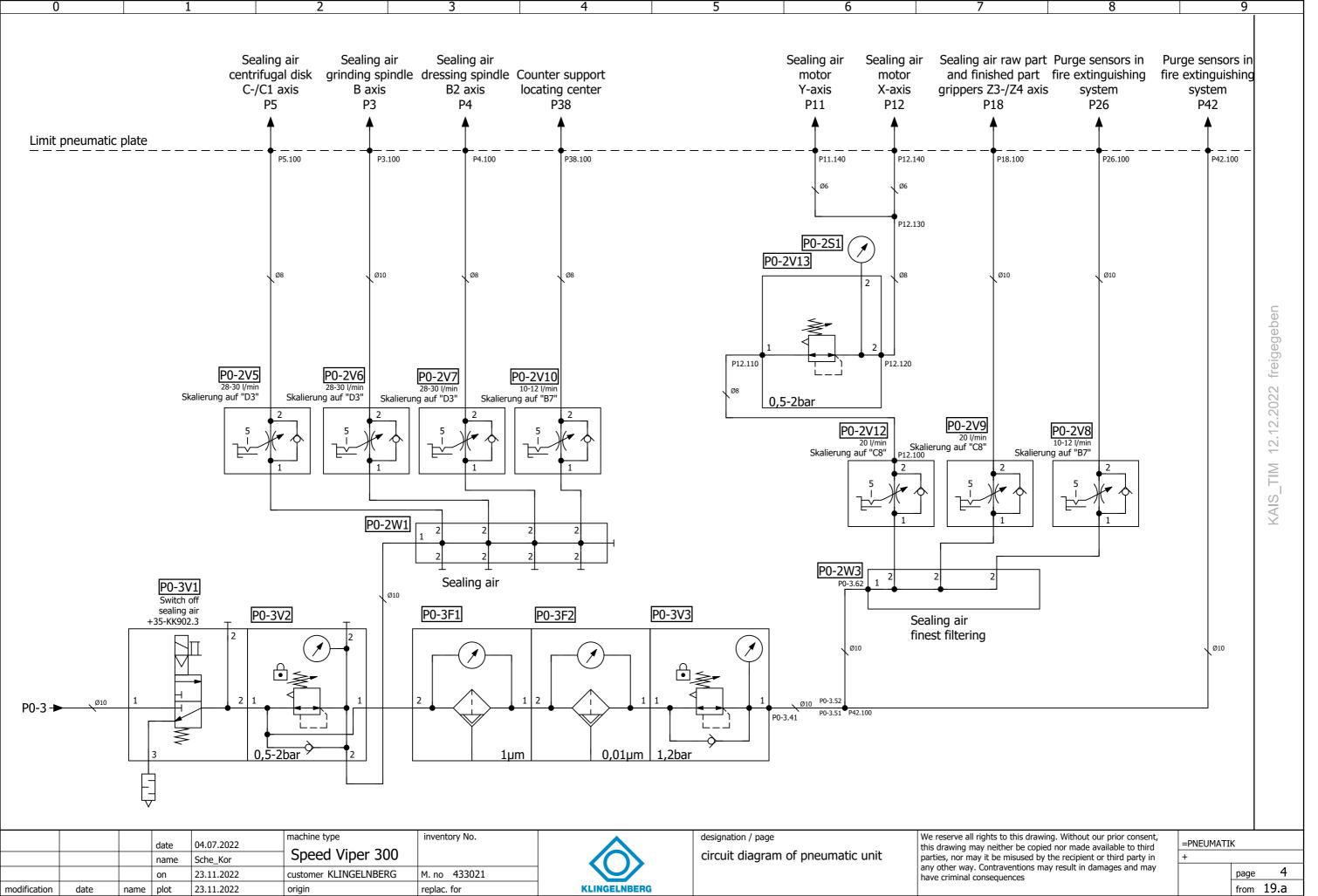
designation / page valve terminal

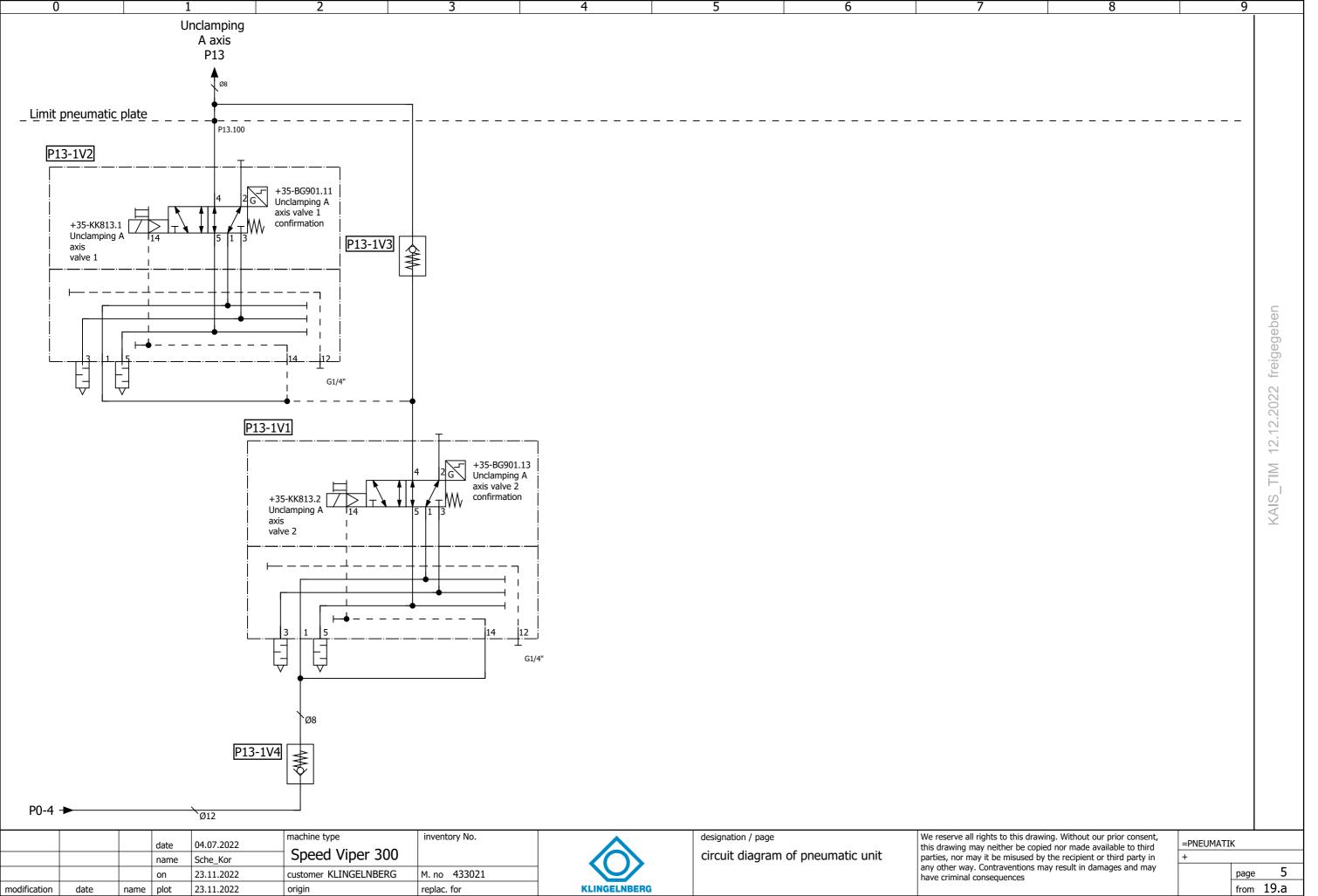
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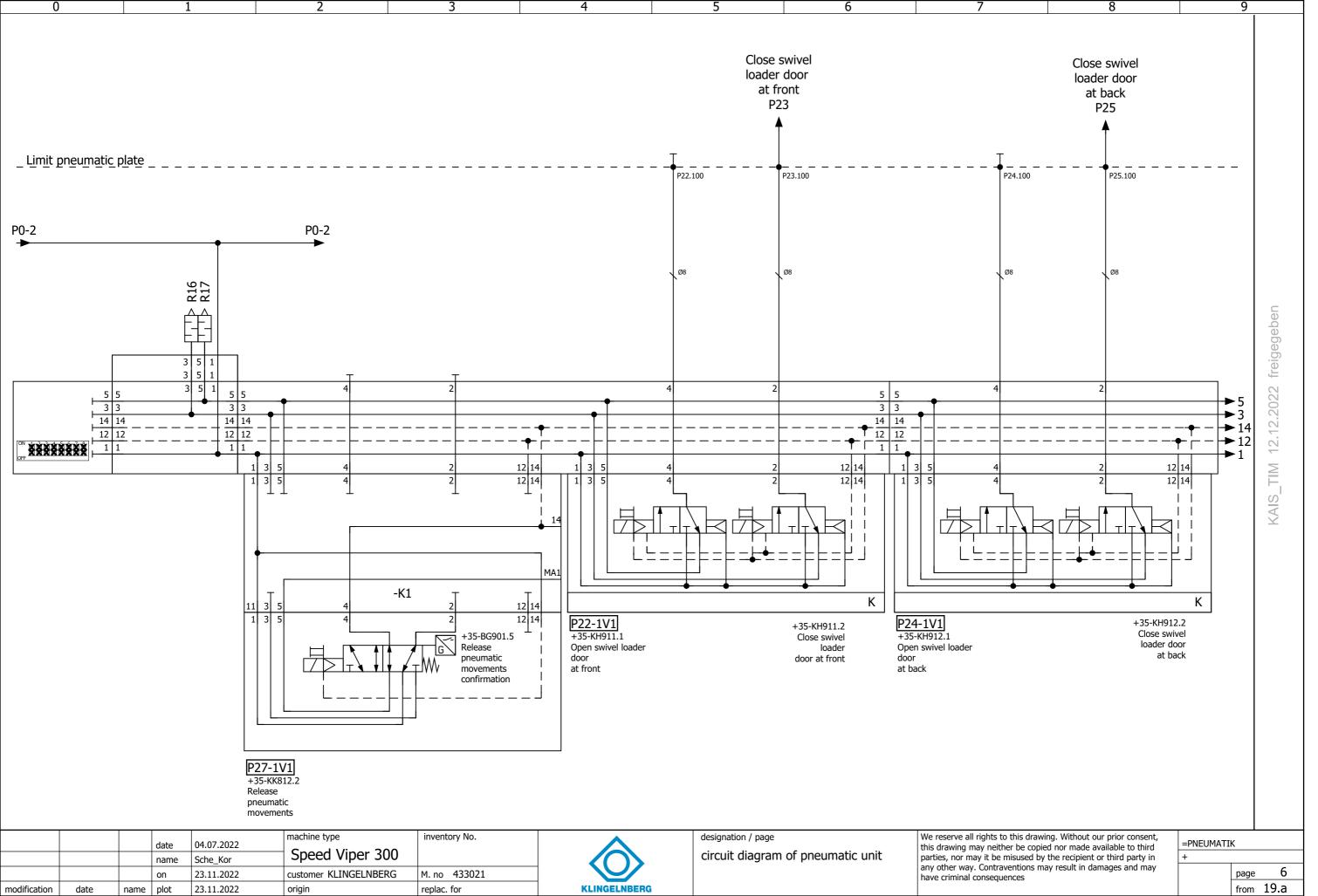
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	page	1				
	from	19.a				

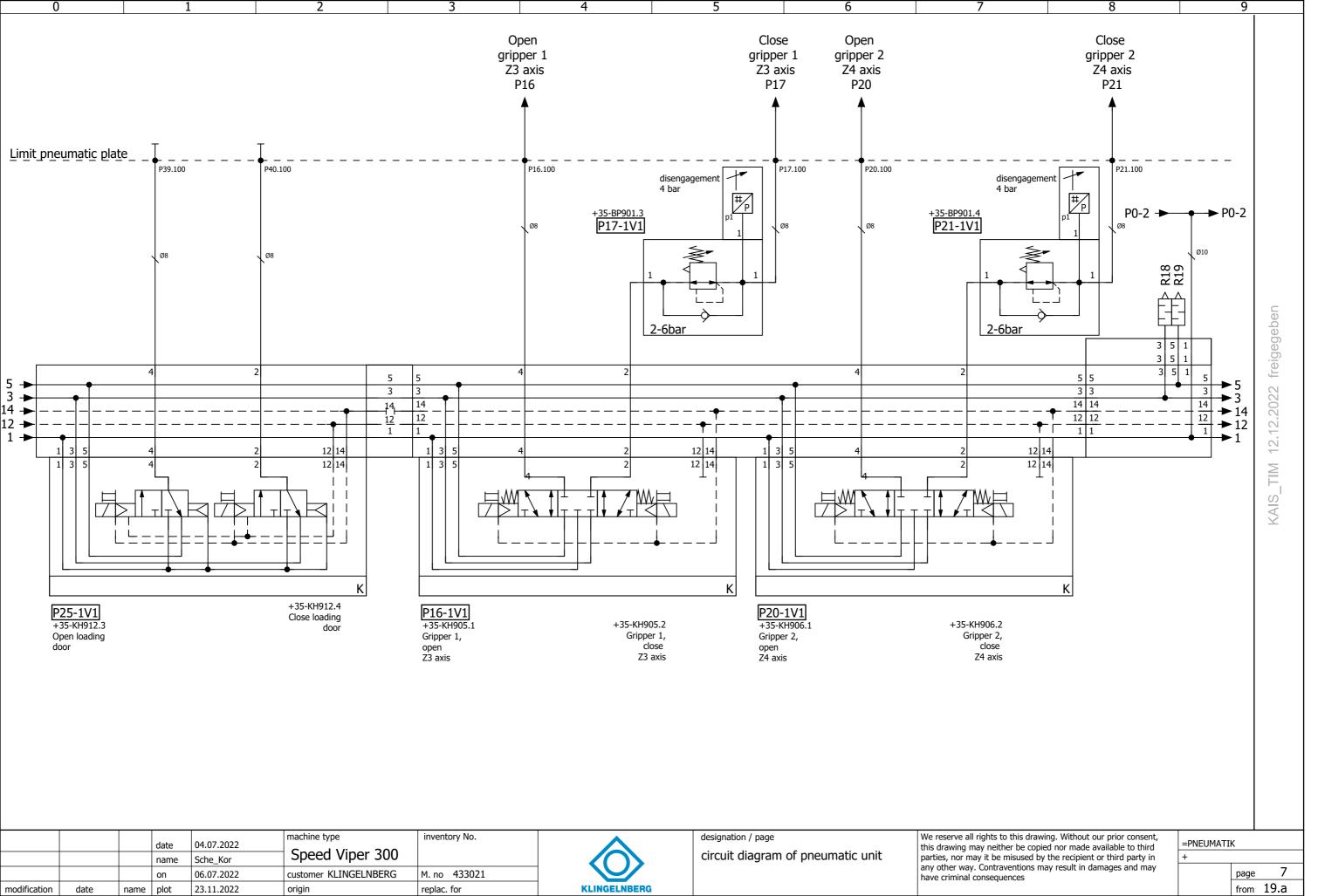


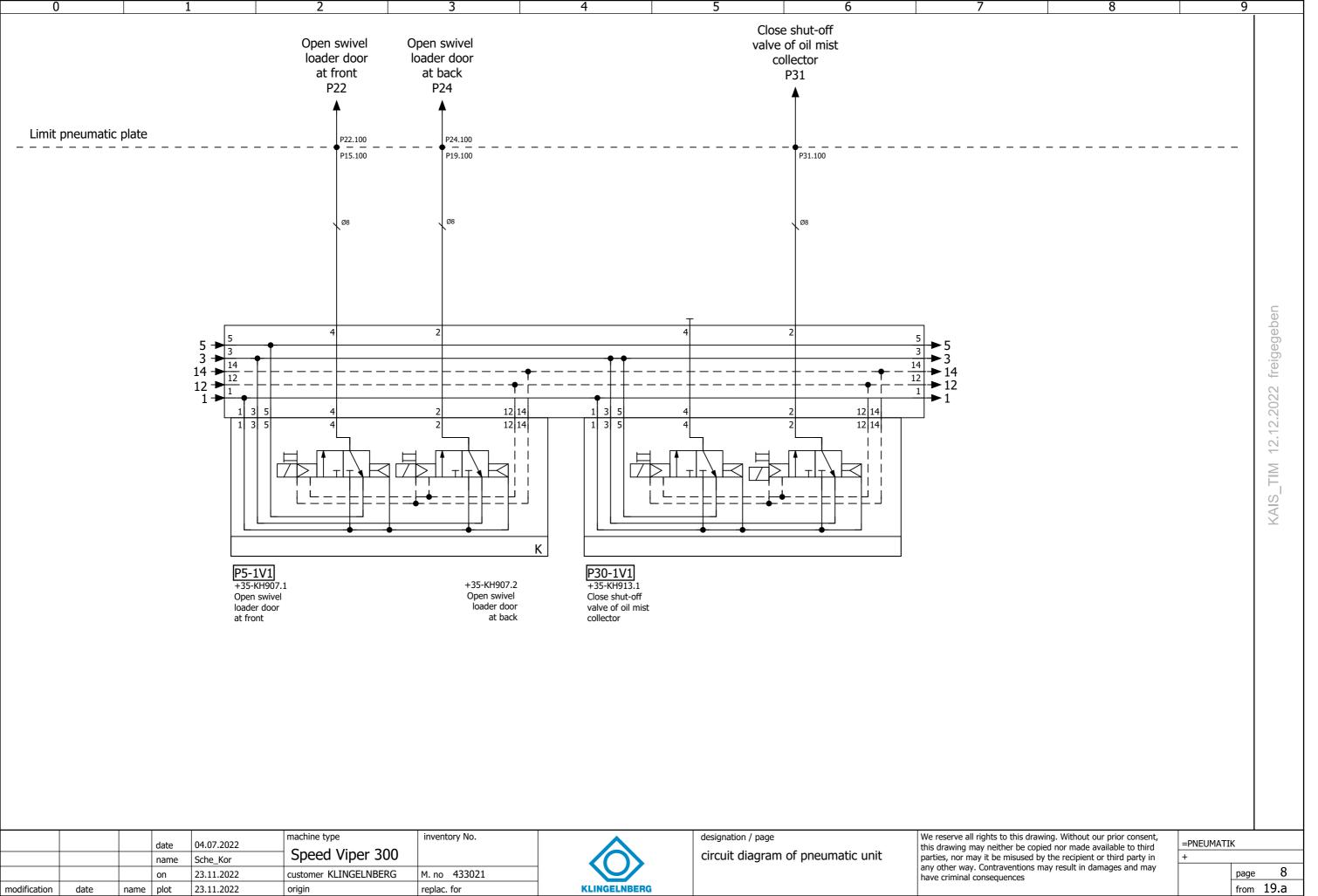


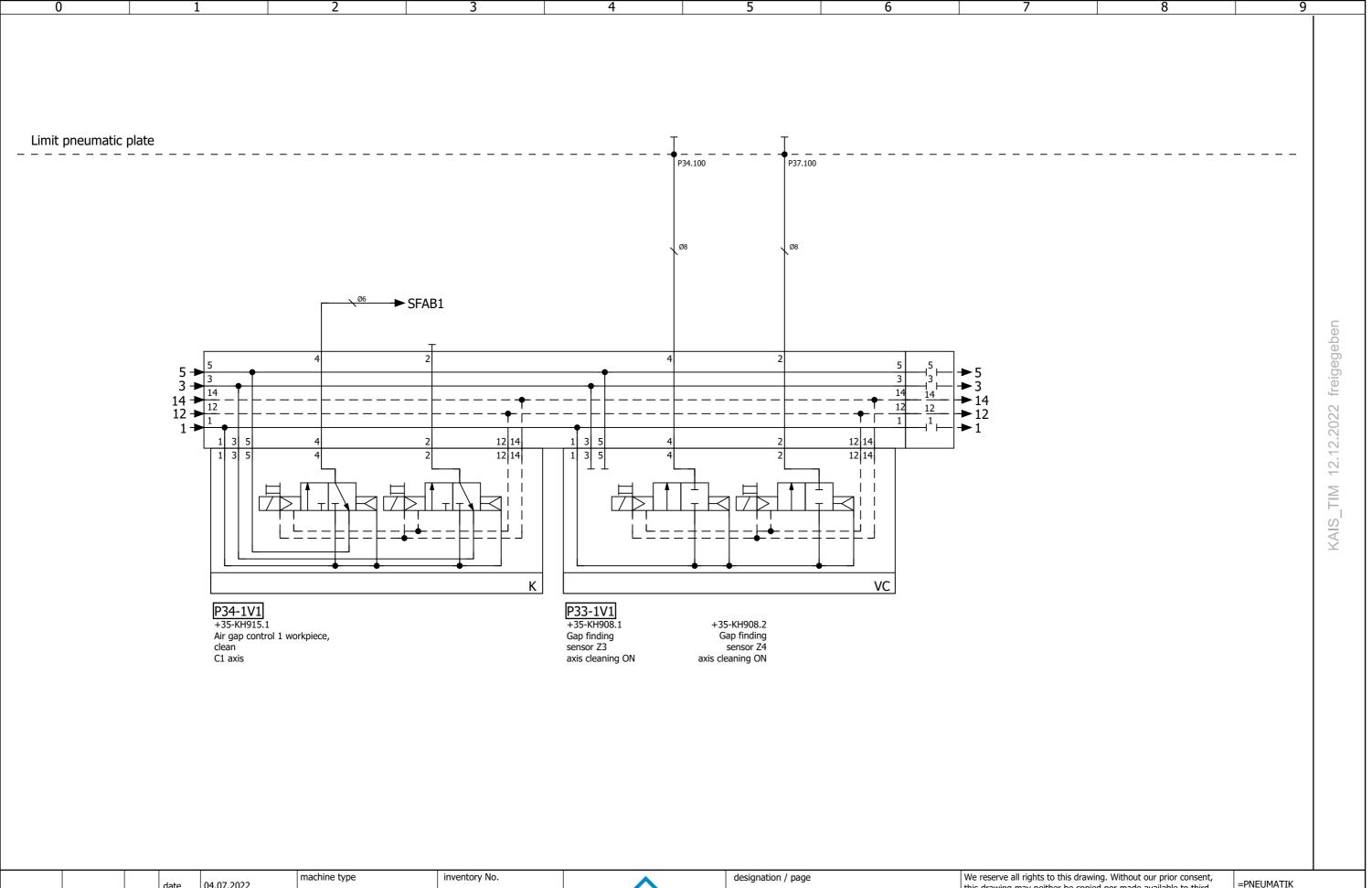










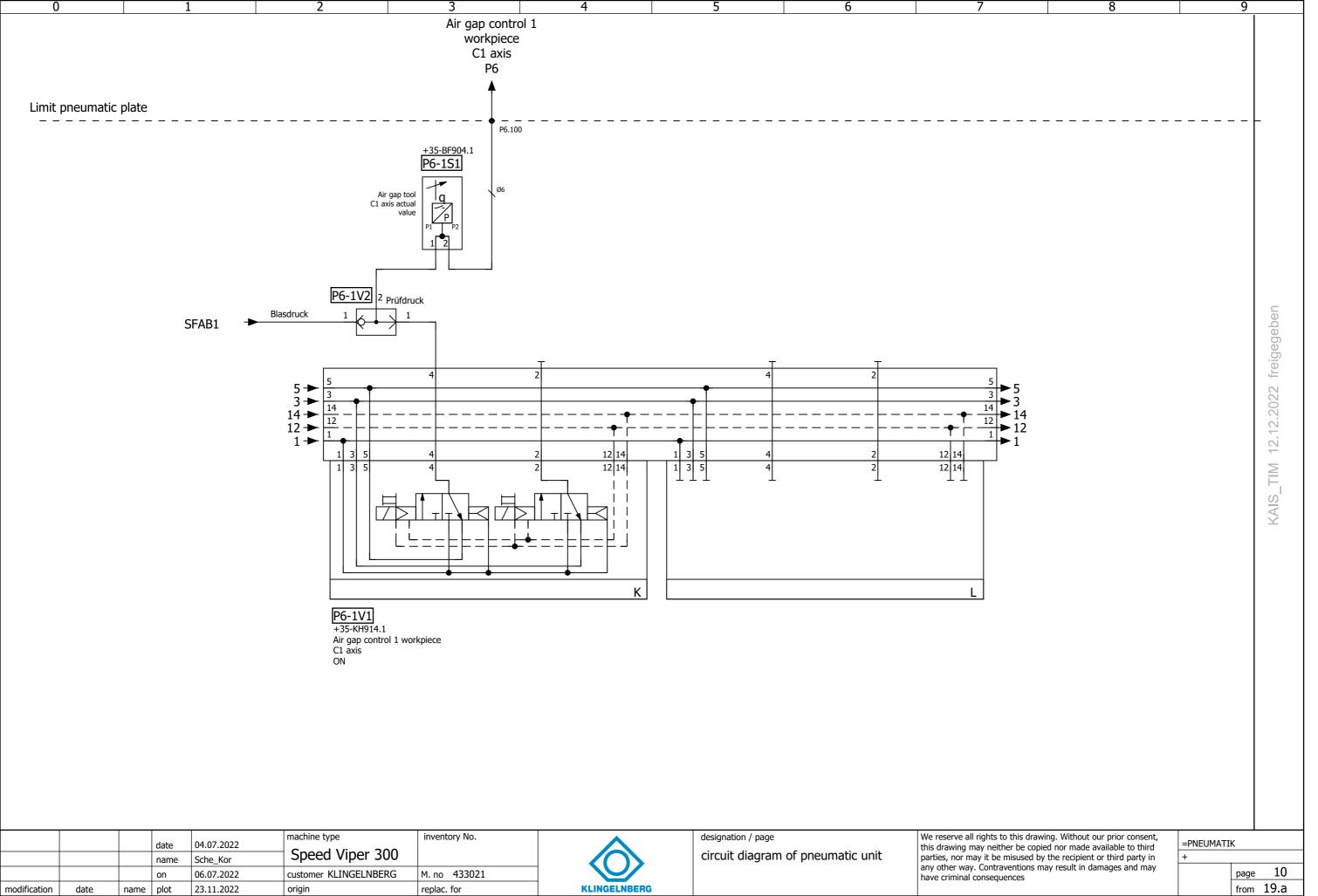


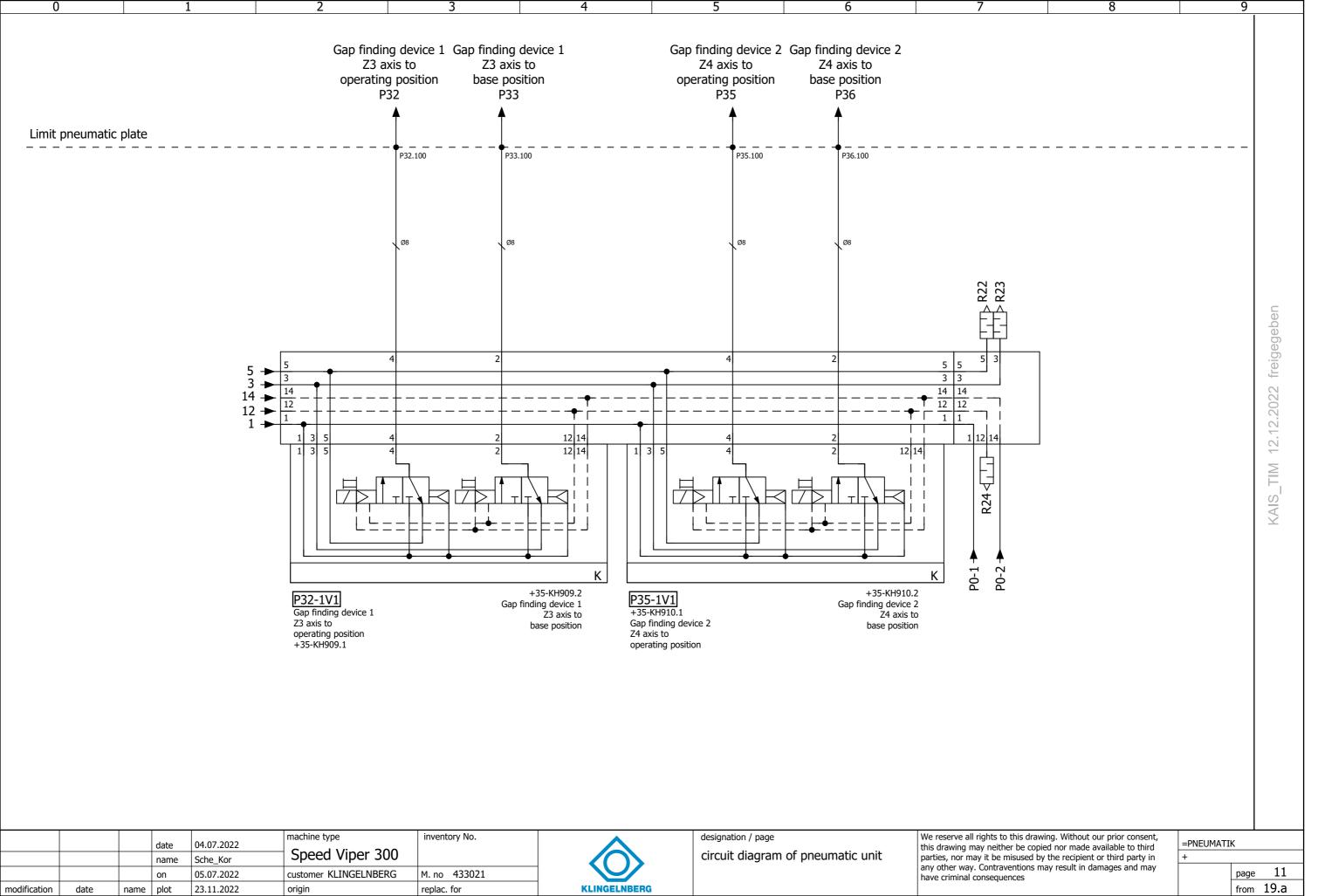


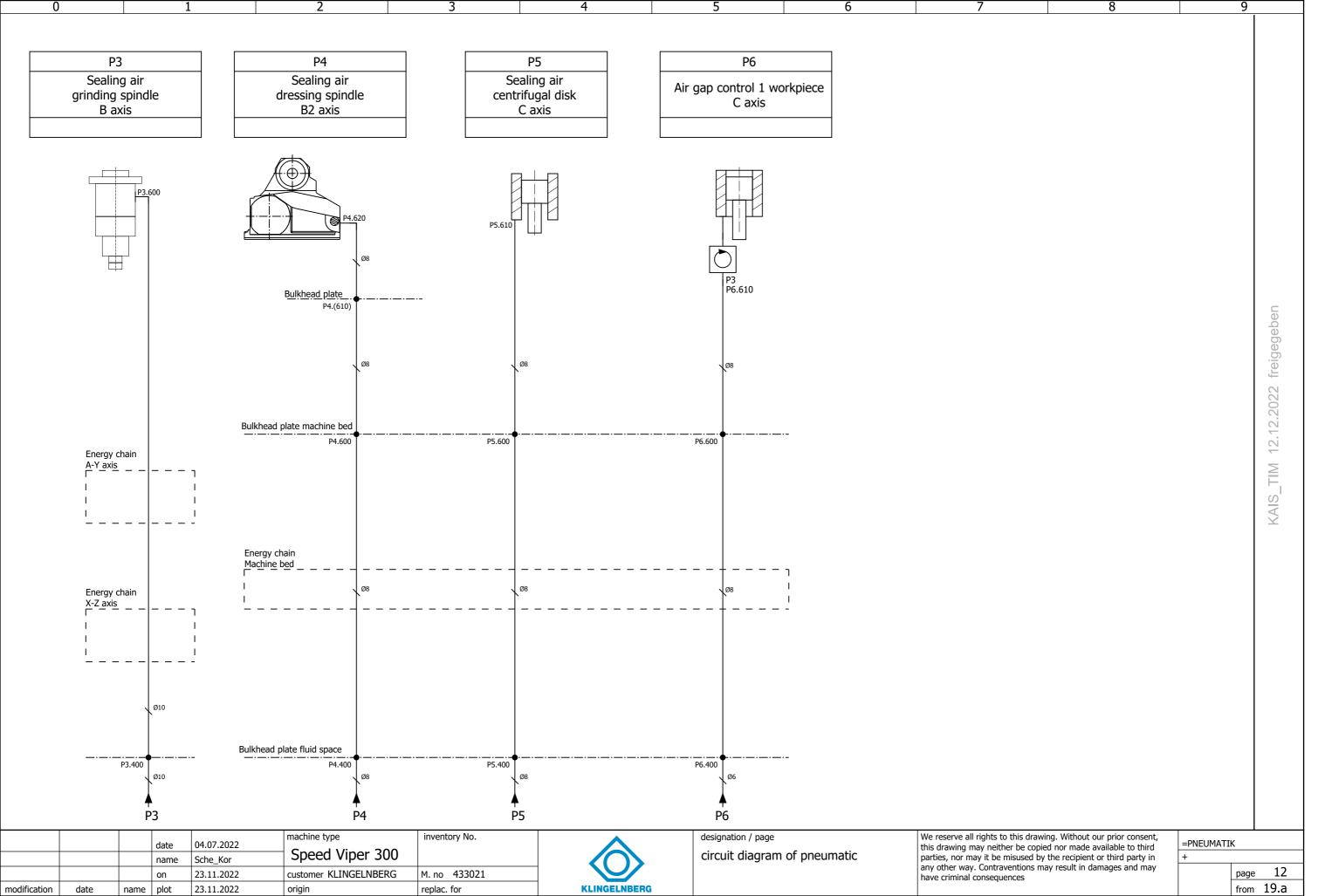
circuit diagram of pneumatic unit

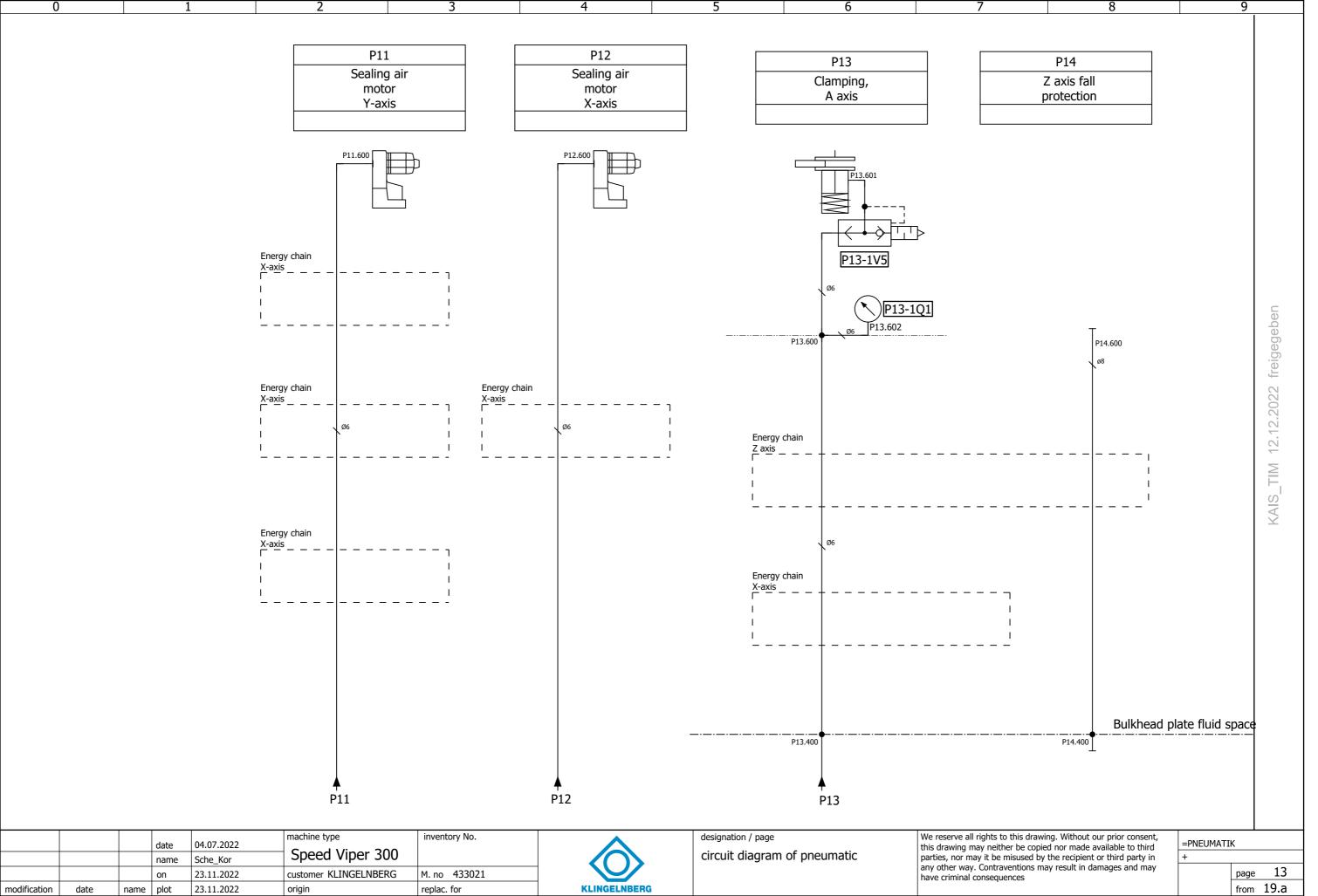
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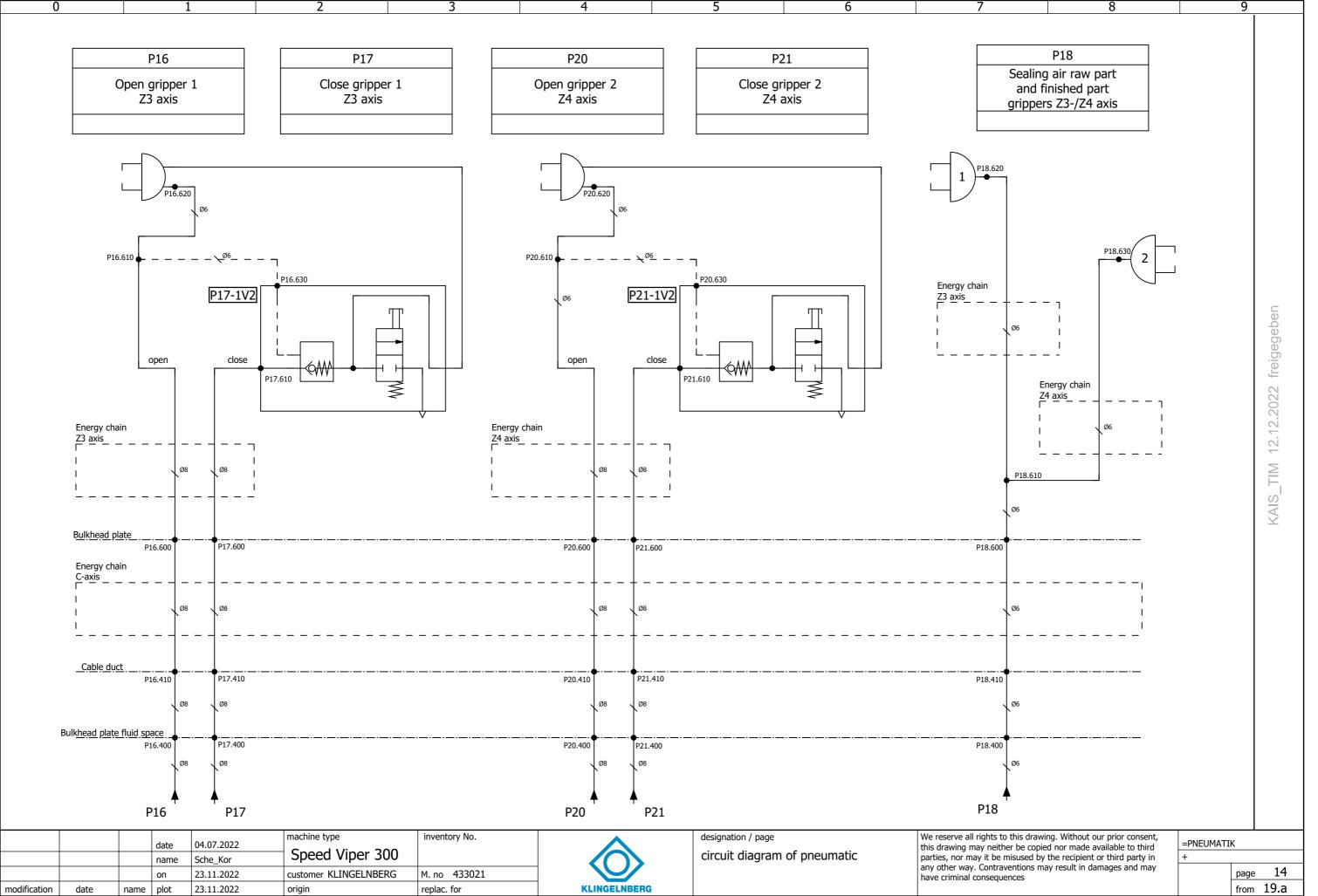
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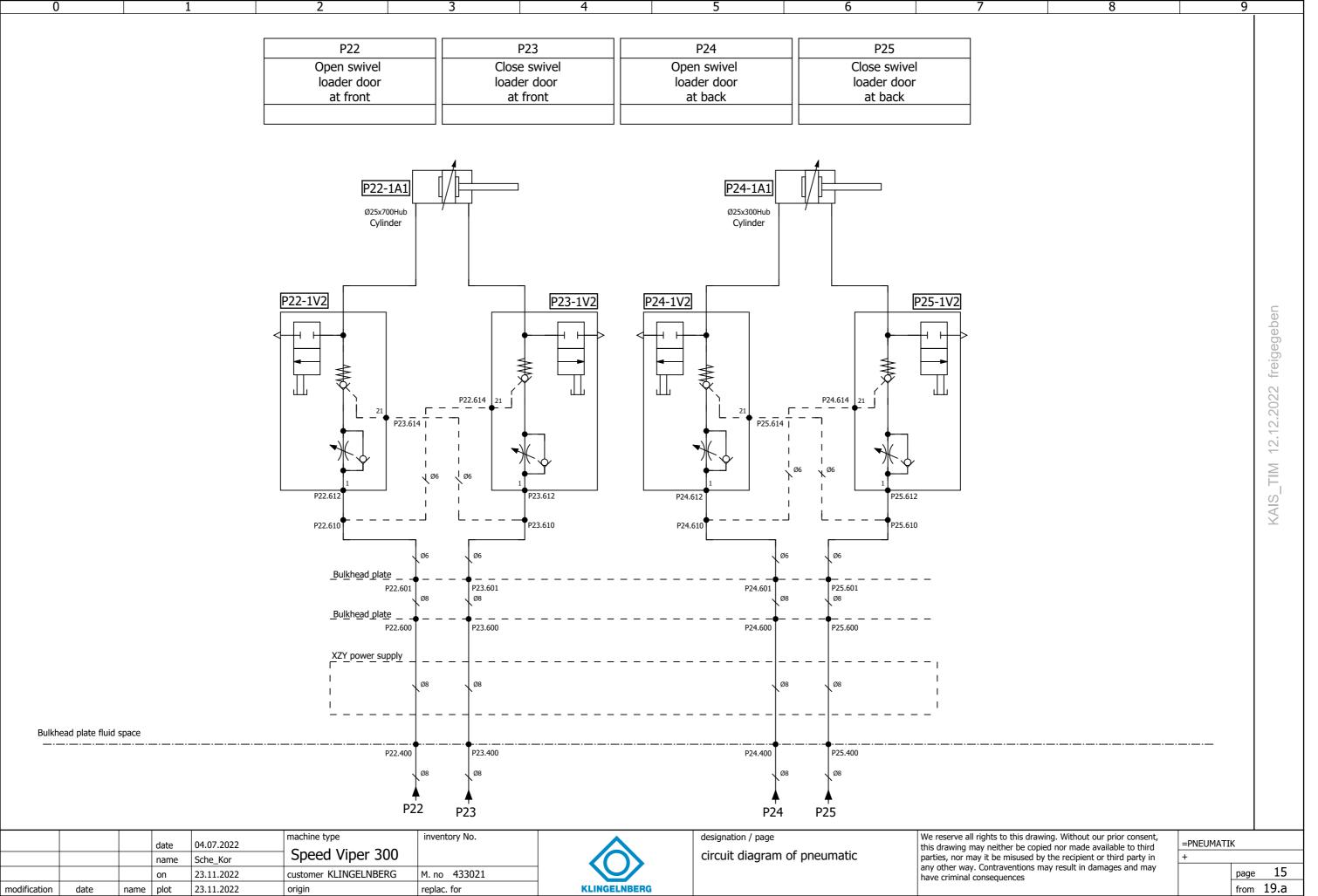


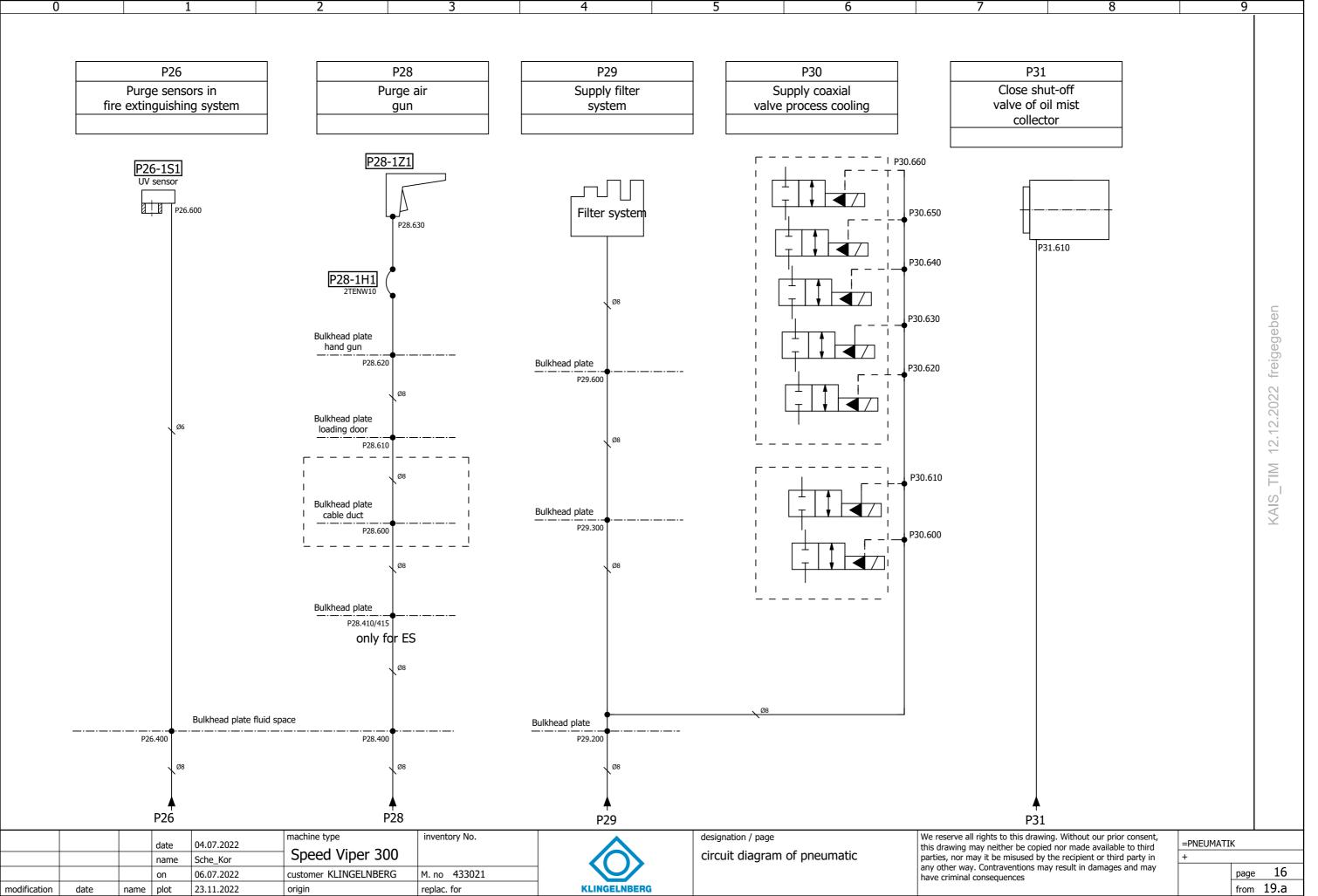


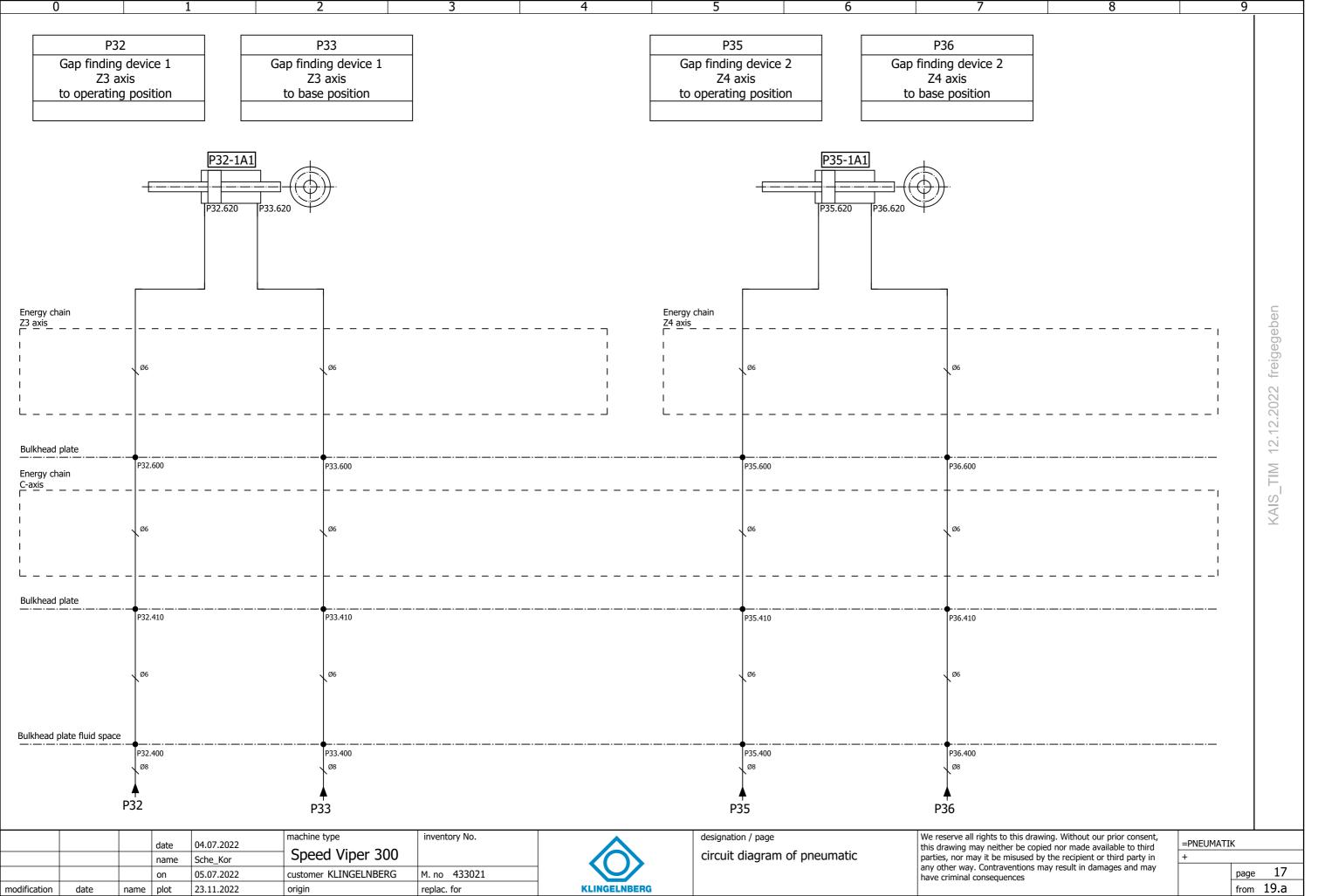


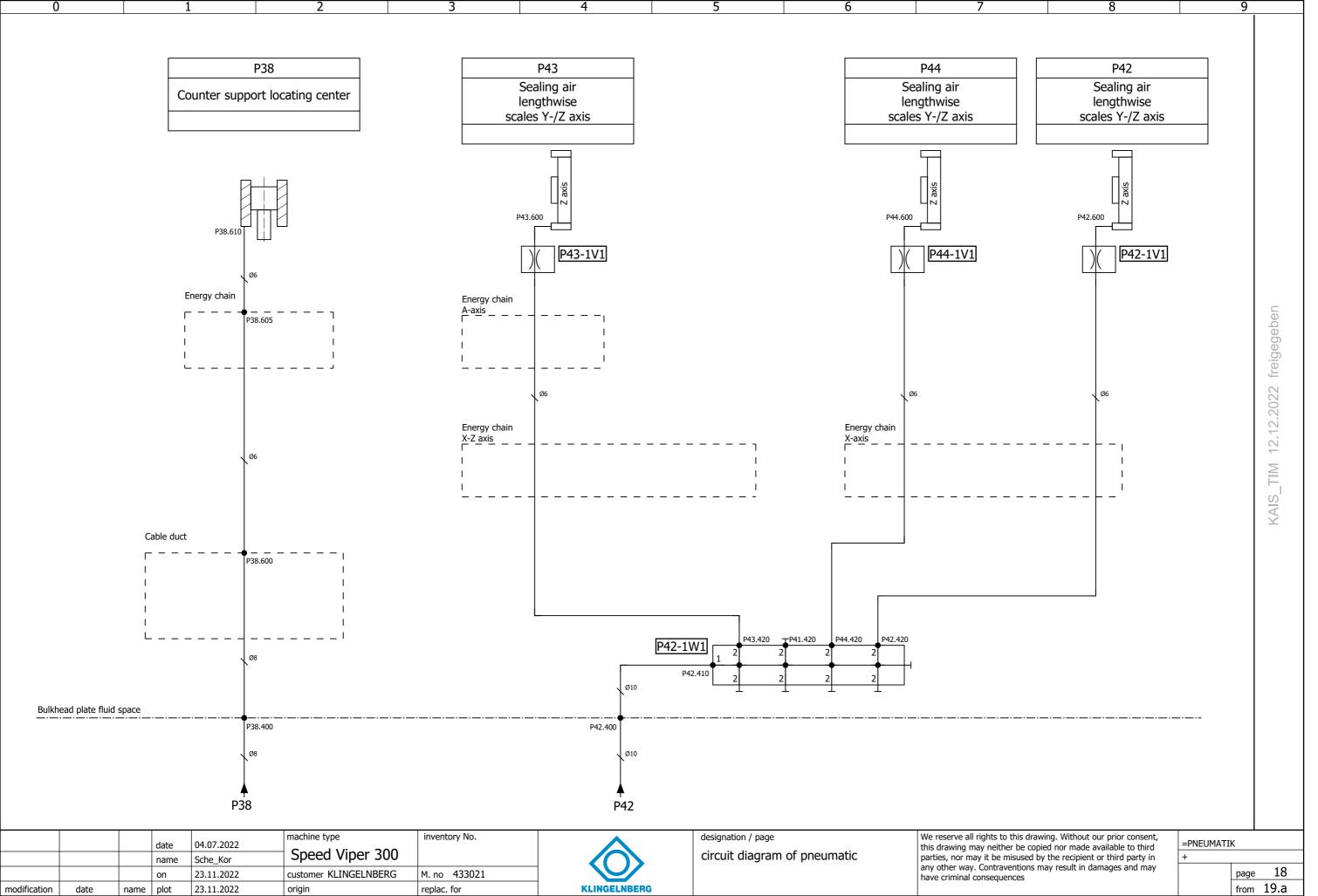












parts	list
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06.07.2022

23.11.2022

customer KLINGELNBERG

origin

M. no 433021

replac. for

on

name plot

modification

date

Parce								
equipment sign	electric equipment part no. designation		designation 2	designation 3	manufacturer			
0-2V3	Sign		7835029A	Pressure control valv	re MS6-LRB LN:527665	Pressure control valve MS6-LRB-1/2-D6-RG-LD-AS-BD	LN: 527665	FESTO
0-2V5			540662-FESTO		I valve GRLSA-1/4-QS-8	FESTO NR.: 540662	E111 5E7 665	FESTO
)-2V6			540662-FESTO		I valve GRLSA-1/4-QS-8	FESTO NR.: 540662		FESTO
)-2V7			540662-FESTO		l valve GRLSA-1/1-QS-8	FESTO NR.: 540662		FESTO
0-2 <b>v</b> 7 0-2V8		540662-FESTO			l valve GRLSA-1/4-QS-8	FESTO NR.: 540662		FESTO
)-2V6 )-2V9					, ,	FESTO NR.: 540662		FESTO
0-2V9 0-2V10			540662-FESTO 540662-FESTO		l valve GRLSA-1/4-QS-8	FESTO NR.: 540662		
					l valve GRLSA-1/4-QS-8		DECT ND - 2077	FESTO
0-2W1	. 25 1//042 2		2077-Festo	distributor	D MES ME 44 464 400	FR-8-1/8	BEST-NR.:2077	FESTO
13-1V1	+35-KK813.2		454419A		-B-M52-MZ-A1-1C1-APP	Art. no. 560726 *Festo		FESTO
13-1V2	+35-KK813.1		454419A		-B-M52-MZ-A1-1C1-APP	Art. no. 560726 *Festo		FESTO
3-1V3			355228A	Check valve H-QS-8		*FESTO		FESTO FESTO
.3-1V4			355228A	Check valve H-QS-8		*FESTO		FESTO
30-1V1	+35-KH913.1		407168A		-B-T32C-AZD-A1-1T1L	PART NR.539150 * FESTO		FESTO FESTO
.3-1V1	+35-BG901.13		454419A	Solenoid valve VSVA	-B-M52-MZ-A1-1C1-APP	Art. no. 560726 *Festo		FESTO FESTO
)-0Z1			452457A	PNEUMATIC UNIT S\	/300/SV180/ES	PROJECT No: DE_CS.1515826-A> B (from ???)		FESTO FESTO
)-1V1	+35-KK1		419600A	On-off MS6-EE-1/2-V	/24	No.527682 *FESTO		FESTO FESTO
·1V2			541268-Festo	Manual on-off valve	MS6-EM1-1/2-S	541268 *FESTO		FESTO
)-1V3			526490-Festo	filter regulator		MS6-LFR-1/2-D6-C-R-V-RG-AS	BEST-NR.: 526490	FESTO
-1V4	+35-BP901.1		356596A	EXHAUST VALVES M	S6-SV-1/2-C-10V24P-S-AD7	NO.548713*FESTO	(WITH SILENCER U-3/4-B 6845)	FESTO
-2S1			7837463A	GAUGES PAGN-40-10	)-R18-1.6	FOR PRESSURE REGULATING VALVE LRP-1/8-6*FESTO (2849914)		FESTO
-2V1	+35-KK812.1		356596A		S6-SV-1/2-C-10V24P-S-AD7	NO.548713*FESTO	(WITH SILENCER U-3/4-B 6845)	FESTO
-2V2			7835029A		re MS6-LRB LN:527665	Pressure control valve MS6-LRB-1/2-D6-RG-LD-AS-BD	LN: 527665	FESTO
)-2V12			540662-FESTO		l valve GRLSA-1/4-QS-8	FESTO NR.: 540662		FESTO
-2V13			7837462A	PRESSURE REGULAT		PRECISION PRESSURE REGULATOR	size 40	FESTO FESTO
-2W2			549337-Festo	distributor block MS6	•	MS6-FRM-FRZ	ORDER NO.:549337	FESTO
-2W3			346700A	Distributor block	PI KIPI KE	FR-4-1/4-C	Order no.: 7849	FESTO
)-3F1			527697-Festo	Fine filter		MS4-LFM-1/4-B-U-V-DA	527697-Festo	FESTO
0-3F2						·		
	. 25 1/1/002 2		537214-Festo	Finest filter	1/4 10)/24 C	MS4-LFM-1/4-A-U-V-DA	537214-Festo	FESTO FESTO
)-3V1	+35-KK902.3		7835032A	on-off-valve MS4-EE-	<u>'</u>	NO. 542598 *FESTO	542598	FESTO FESTO
)-3V2			7835033A	<u> </u>	e MS4-LRB LN:527692	pressure control valve MS4-LRB-1/4-D5-RG-AS	LN: 527692	FESTO
)-3V3			443390A	· · · · · · · · · · · · · · · · · · ·	e MS4-LR-1/4-D5-RG 527690	1:		FESTO
5-1V1			440872A	COVER VABB-S4-1-W		*FESTO		FESTO
5-1S1	+35-BF904.1		7838414A		AB-50U-HQ6-2SV-M12	FESTO-No. 565390*FESTO		FESTO .
5-1V1	+35-KH914.1		407168A		-B-T32C-AZD-A1-1T1L	PART NR.539150 * FESTO		FESTO FESTO
5-1V2			7832738A	Shuttle valve 6681/0	OS-1/8-B	Shuttle valve / or part 6681 / OS-1/8-B	SHUTTLE VALVE / OR LINK 6681 / OS-1/8-B	FESTO
3-1Q1			448461A	pressure sensor PN7	094	-1-10bar; -14,5-145PSI; -0,1-1,0MPa,	18-30V DC PNP, 2x NO/NC, G 1/4"	IFM
3-1V5			444008A	quick-exhaust valve		NR. 547531*FESTO		FESTO
.6-1V1	+35-KH905.1		7835344A	5/3 directional contro	ol valve VSVA-B-P53C-ZH-A1-1C1	547086 *Festo		FESTO
17-1V1	+35-BP901.3		487583A	DRUCKREGELVENTIL	_ MS4-LR-1/4-D6-AD1			FESTO
l7-1V2			356388A	CHECK VALVE VBNF	LBA-G18-Q6 8001460	*FESTO	for modular CGS 30 loader	FESTO
20-1V1	+35-KH906.1		7835344A	5/3 directional contro	ol valve VSVA-B-P53C-ZH-A1-1C1	547086 *Festo		FESTO
1-1V1	+35-BP901.4		487583A	DRUCKREGELVENTIL	_ MS4-LR-1/4-D6-AD1			FESTO
21-1V2			356388A CHECK VALVE VBNF LBA-G18-Q6 8001460		*FESTO	for modular CGS 30 loader	FESTO	
2-1A1			MY1B25-700	Rodless band cylinde		MY1B25-700L7H7Z-M9PZ *SMC		SMC
22-1V1	+35-KH911.1;+	-35-KH91			·B-T32C-AZD-A1-1T1L	PART NR.539150 * FESTO		FESTO
2-1V2			439437A		l valve VFOF-LE-BAH-G18-Q	*FESTO		FESTO
3-1V2		439437A 439437A		,	I valve VFOF-LE-BAH-G18-Q	*FESTO		FESTO FESTO
4-1A1		439437A MY1B25-300		Rodless band cylinde		MY1B25-300LZ-M9PZ *SMC		SMC
4-1V1	+35-KH012 1-1	MY1B25-300   +35-KH912.1;+35-KH912.2   407168A			·B-T32C-AZD-A1-1T1L	PART NR.539150 * FESTO		FESTO
4-1V1 4-1V2	+33-101312.1,1	+35-KH912.1;+35-KH912.2   40/168A   439437A			l valve VFOF-LE-BAH-G18-Q	*FESTO		FESTO
5-1V1	±3E_N⊓013 3+1	25_KU01				PART NR.539150 * FESTO		FESTO
	+33-NUA15'-	(H912.3;+35-KH912.4 407168A solenoid valve VSVA-B-T32C-AZD-A1-1T1L						
25-1V2		25 25 5	439437A		l valve VFOF-LE-BAH-G18-Q	*FESTO		FESTO
27-1V1	+35-KK812.2;+	-35-BG90			-B-M52-MZ-A1-1C1-APP	Art. no. 560726 *Festo		FESTO
28-1Z1			35528-FESTO	Low consumption air	gun LSP-1/4-D	*FESTO		FESTO
				machine type	inventory No.	designation / page	We reserve all rights to this drawing. Without ou	ır prior consent.
		date	04.07.2022				this drawing may neither be copied nor made av	
			Sche_Kor	Speed Viper 300	1	STL pneumatics	parties, nor may it be misused by the recipient of	

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page 19 from 19.a

### parts list equipment equipment designation 2 designation 3 manufacturer part no. designation sign sign P32-1A1 454605A Flat cylinder DZF-25-10-P-A \*FESTO FESTO P32-1V1 +35-KH909.1;+35-KH909.2 407168A PART NR.539150 \* FESTO FESTO solenoid valve VSVA-B-T32C-AZD-A1-1T1L +35-KH908.1;+35-KH908.2 561149-FESTO P33-1V1 Solenoid valve VSVA-B-T22C-AZD-A1-1T1L Parts no.561149 \*Festo FESTO +35-KH915.1 407168A solenoid valve VSVA-B-T32C-AZD-A1-1T1L PART NR.539150 \* FESTO FESTO P34-1V1 P35-1A1 454605A Flat cylinder DZF-25-10-P-A FESTO P35-1V1 +35-KH910.1;+35-KH910.2 407168A solenoid valve VSVA-B-T32C-AZD-A1-1T1L PART NR.539150 \* FESTO **FESTO** THROTTLE CHECK VALVE GRLSA-1/8-QS-6 FESTO P41-1V1 422592A FESTO NO.: 540661 P42-1V1 7814355A connecting piece with throttle no.226270-02 for scale housings .ID-No.226270-02 HEIDENHAIN P42-1W1 2077-Festo FR-8-1/8 BEST-NR.:2077 FESTO distributor connecting piece with throttle no.226270-02 P43-1V1 7814355A for scale housings .ID-No.226270-02 HEIDENHAIN P44-1V1 for scale housings .ID-No.226270-02 HEIDENHAIN 7814355A connecting piece with throttle no.226270-02 freigegeben 12.12.2022 $\geq$ KAIS We reserve all rights to this drawing. Without our prior consent, this drawing may neither be copied nor made available to third machine type inventory No. designation / page =PNEUMATIK 04.07.2022 Speed Viper 300 STL pneumatics parties, nor may it be misused by the recipient or third party in any other way. Contraventions may result in damages and may name Sche\_Kor page 19.a customer KLINGELNBERG 23.11.2022 M. no 433021 on have criminal consequences from 19.a

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modification

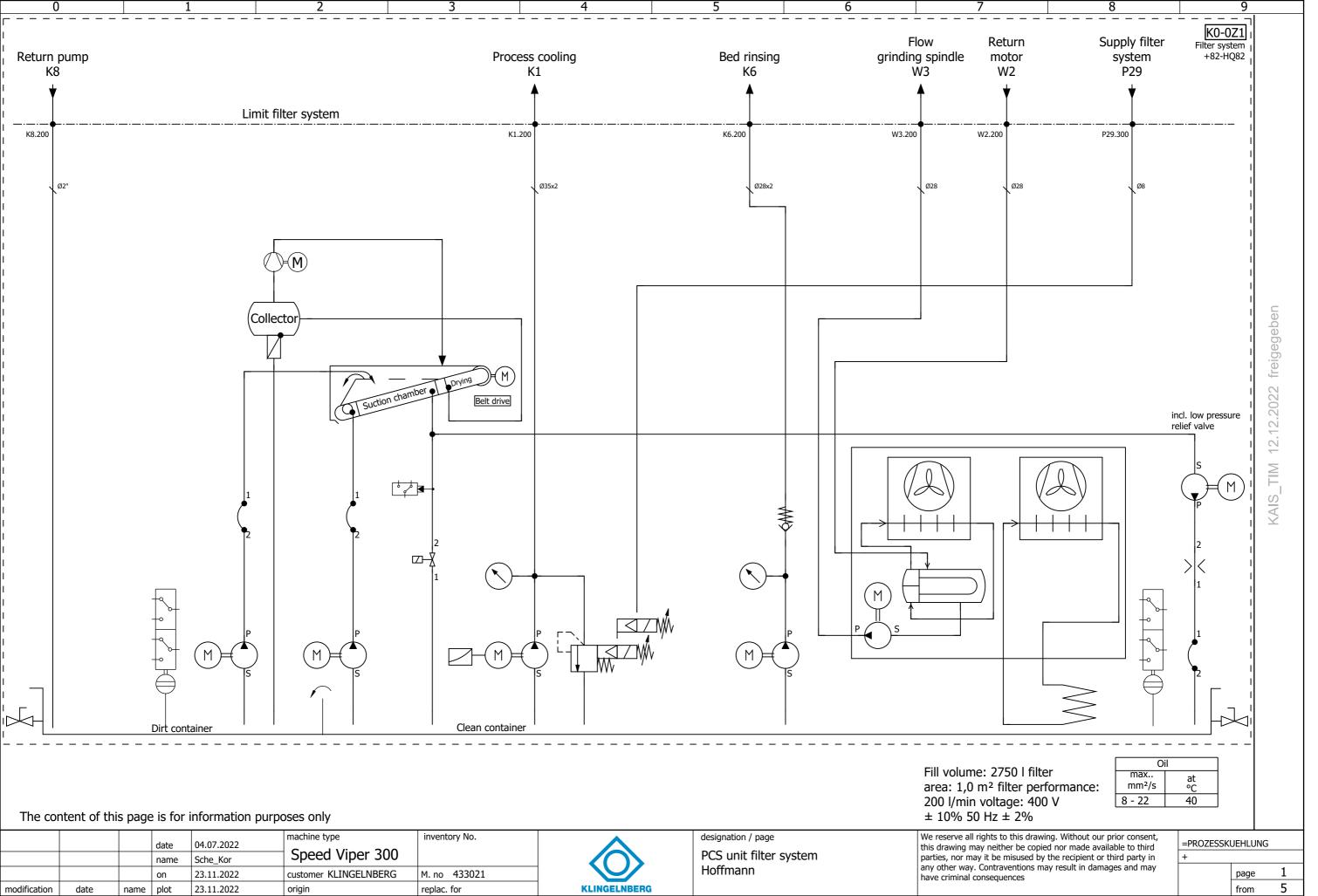
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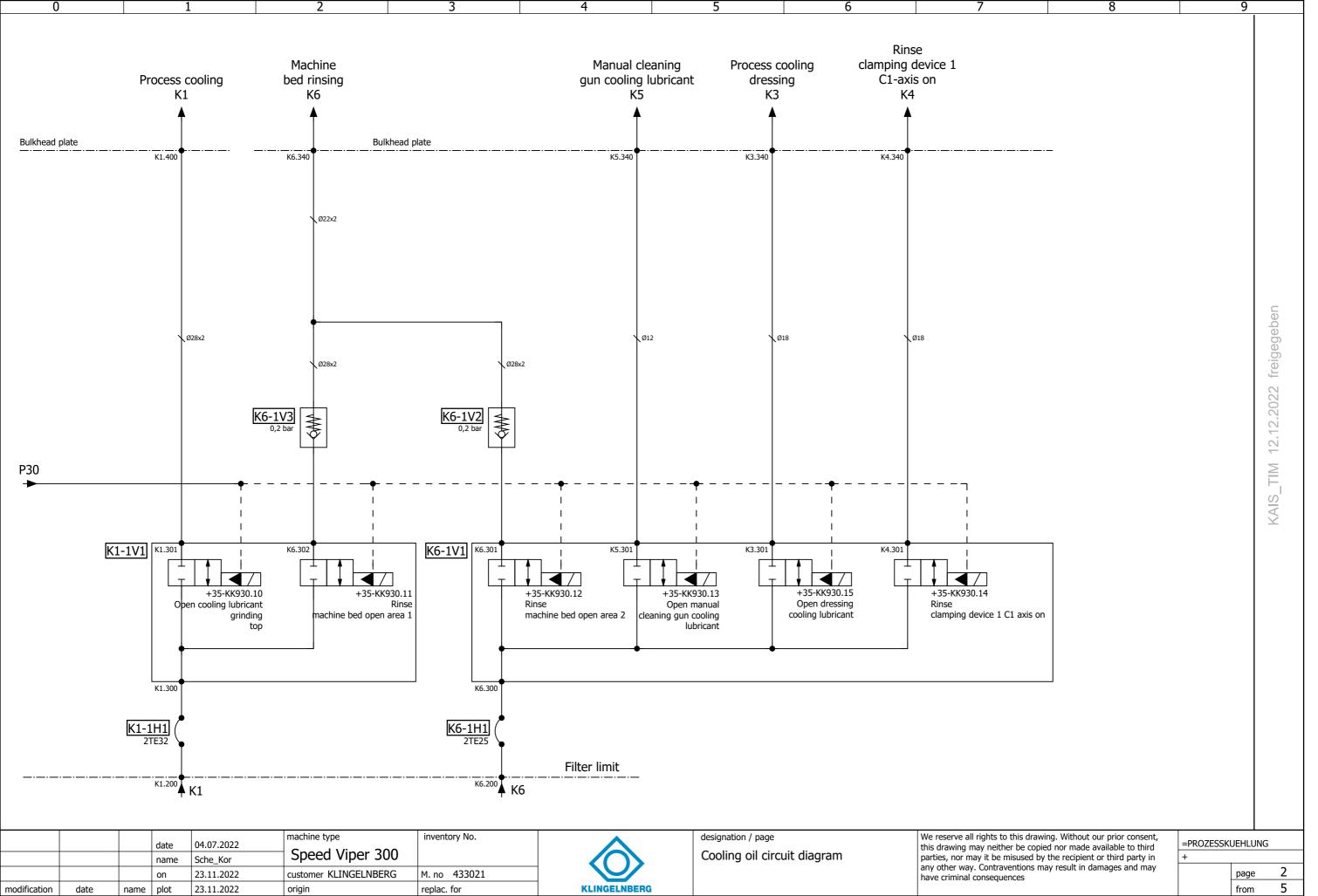
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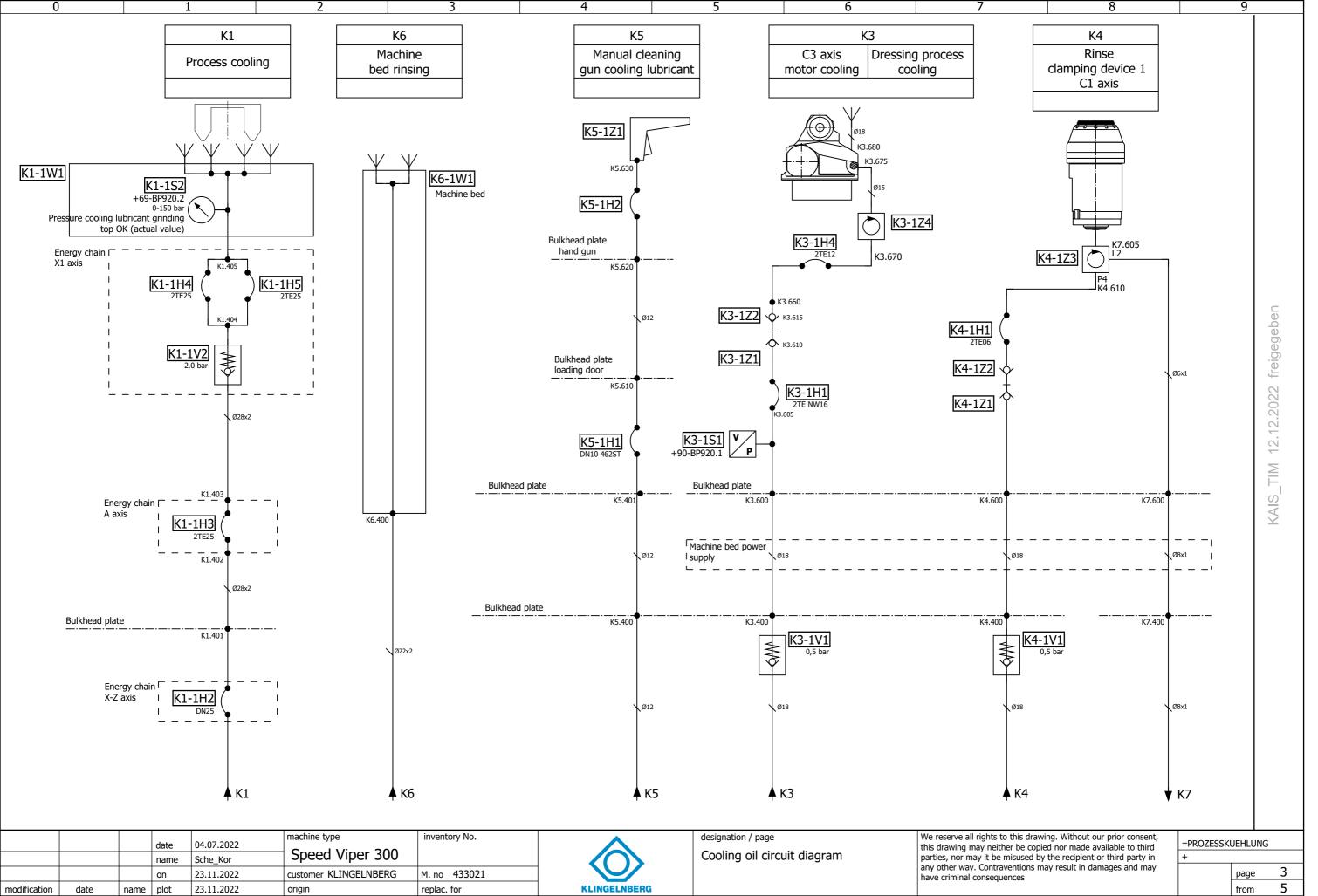
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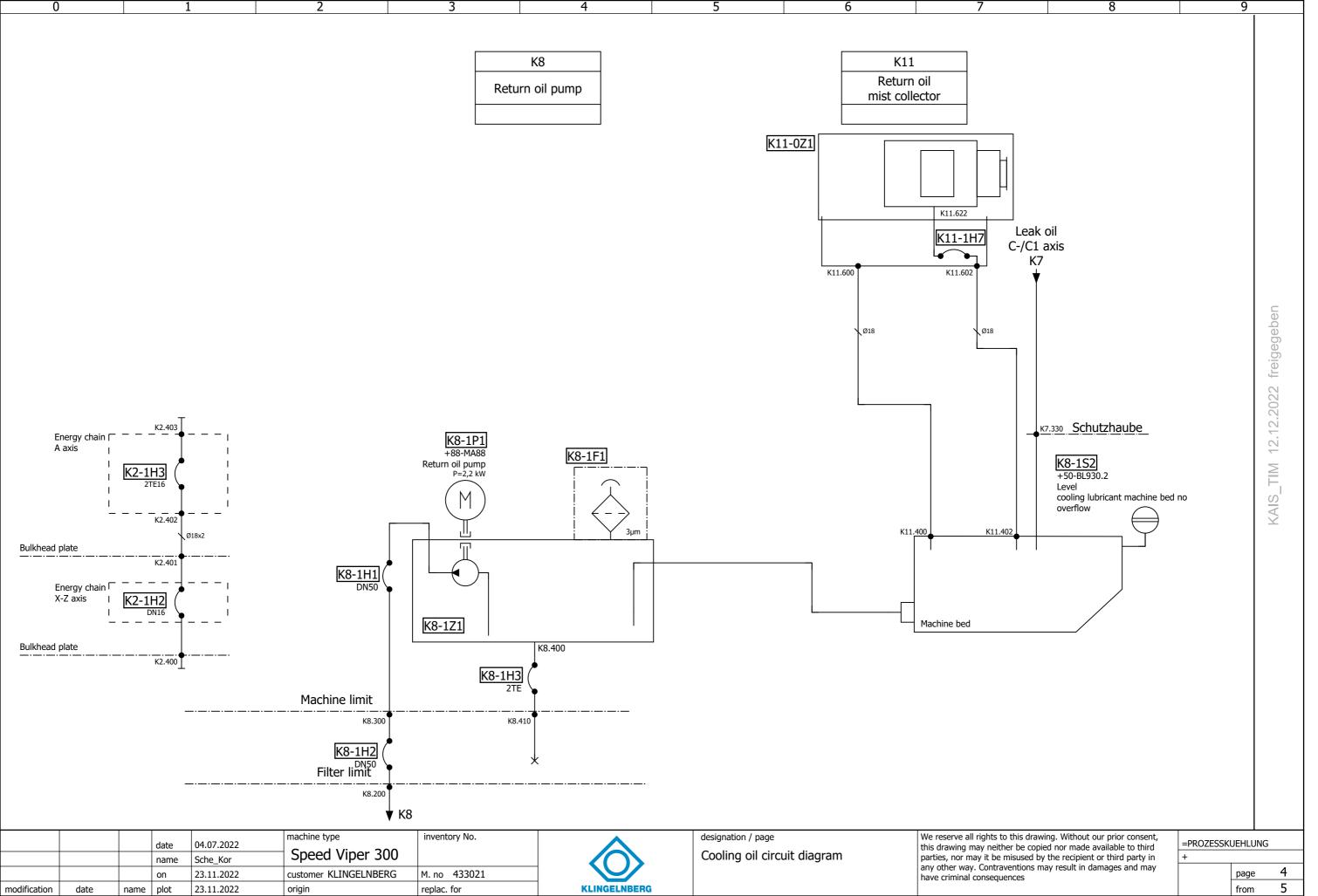
origin

replac. for









# parts list equipment electric equipment equipment electric

equipment sign	electric equipment sign	part no.	designation	designation 2	designation 3	manufacturer
K3-1H1		454349A	high pressure hose 2TE 16 A35 A35- 500-180°			ARGUS
K0-0Z1	+82-HQ82	7836791A	Filter system HSF100 F. SV300/180 TROPICS	ON BASIC OFFER FOR 480195A	TROPICAL VERSION UP TO +45 °C ACCORDING TO A1016549	HOFFMANN
K0-0Z1	+82-HQ82	7003066\$	CONVERSION KIT 2 CIRCUIT COOLER TROPICS F.HSF100SE	CONVERSION KIT FILTER SYSTEM TO 2-CIRCUIT COOLER + TROPICA	INNIGERATIONAF (SWISKE) CIRCULATING CHILLER, TYPE OEDRK 260-	HECOTOR FRIENDLY FOR CONNECTION
K6-1H1		454561A	HP hose 2TE 25 A05 A35- 3350			ARGUS
K6-1V1		454719A	Valve block CX06M-22-FC-2-15-064-100-PV-	24V-M12-5XL *HYDAC		HYDAC
K6-1V1	+35-KK930.12;+35-KK930.1	3454836KK930.15;+35-KK930.14	Valve block CX06M-22-FC-2-15-064-100-PV-	24V-M12-4XL *HYDAC		HYDAC
K6-1V2		454365A	Check valve RHV 28 LR ED OMD CF	*PARKER		PARKER-ERMETO
K6-1V3		454365A	Check valve RHV 28 LR ED OMD CF	*PARKER		PARKER-ERMETO
K6-1W1		455326A	Machine bed SV80/180 DS			KLINGELNBERG
K1-1H1		454560A	HP hose 2TE 32 A05 A35- 3250			ARGUS
K1-1H2		454784A	ultra-high pressure hose DN 25/462ST- 16X 2650	Fitting 1CA46-28-16/1CA46-28-16 *Parker		PARKER-ERMETO
K1-1H3		454792A	high pressure hose 2TE 25 A05 D1 – 1760	HOSE TYPE: PARKER 681		PARKER-ERMETO
K1-1S2	+69-BP920.2	606766-HYDAC	pressure gauge HN60-01-A 63/160 / G1 / 4B			HYDAC
K1-1V1	+35-KK930.10;+35-KK930.1	1454362A	Valve block CX06M-22-FC-2-20-064-100-PV-	24V-M12-2XL *HYDAC	Parts number is determined after purchase order receipt	HYDAC
K1-1V2		7811392A	CHECK VALVE RHD 22L 2 B OMD CF	CHECK VALVE RHD 22L 2 B OMD CF	A3C	PARKER-ERMETO
K3-1H4		454350A	HP hose 2TE 12 A05 A05- 800			ARGUS
K3-1S1	+90-BP920.1	362754A	pressure sensor PP7554	PRESSURE RANGE: -1 10 BAR, ANSCHLUSSGEW. G 1/4 A / M5I	24VDC, 2 SO. 2Ö programmable (REPLACES PP7024)	ARGUS IFM PARKER-ERMETO WALTHER WALTHER Coheritor bludge till Combile
K3-1V1		437964A	non-return valve RHD 18LOMDCF 0,5BAR*PARKER	, , , ,	, , ,	PARKER-ERMETO
K3-1Z1		<u> </u>	Sealing nipple LP DN19* Walther	Order no. LP-019-2-L1826-11-1		WALTHER
K3-1Z2		454346A	Sealing coupling LP DN19*Walther	Order no. LP-019-0-L1826-11-1		WALTHER
K3-1Z4		454344A	Straight swivel joint L 15 M22X1,5		LIGHT SERIES; PMAX. 25 BAR; SEALS NBR;	Schmitter Hydraulik GmbH
K5-1Z1		374292A	water cleaning nozzle DINGA09 1/2"	·	PRESSURE BAR max.24	
K2-1H2		454785A	ultra-high pressure hose DN 16/462ST- 10X 2750	Fitting 1CA46-22-10/1CA46-18-10 *Parker		FA.CARL SIEBERT GMBH PARKER-ERMETO PARKER-ERMETO PARKER-ERMETO WALTHER
K2-1H3		454794A	high pressure hose 2TE 16 D1 D1 - 1610	HOSE TYPE: PARKER 681		PARKER-ERMETO
K4-1V1		437964A	non-return valve RHD 18LOMDCF 0,5BAR*PARKER	11002 111211111111111111111111111111111		PARKER-ERMETO
K4-1Z1		454345A	Sealing coupling LP DN12*Walther	Order no. LP-012-0-L1522-11-1		WALTHER
K4-1Z2		<u> </u>	Sealing nipple LP DN12* Walther	Order no. LP-012-2-L1522-11-1		WALTHER
K4-1Z3			Straight swivel joint L 12 M18X1,5		LIGHT SERIES; PMAX. 25 BAR; SEALS NBR;	Schmitter Hydraulik GmbH
K8-1F1		7831765A	ventilation filter PI 0126/200 SM-L		ORDER N ° 77789498	Schmitter Hydraulik GmbH MAHLE-FILTER
K8-1H1		290829A	tanker hose Elaflex TW 50	FA.SPRANGER+BRAUKMANN	0.02.(.) 77705.00	
K8-1H2		290829A	tanker hose Elaflex TW 50	FA.SPRANGER+BRAUKMANN		GONDROM GONDROM TECHNO-CHEMIE
K8-1H3			high pressure hose 2TE 16X 600 DKOL/RKDKOL 913			TECHNO-CHEMIE
K8-1P1	+88-MA88		Sip pump Submersible pump SGL 502/370-Q40MVXZ+3699	SLURPING SUBMERSIBLE PUMP WITH	MOTOR 2,2KW; 3X380-415V +/-5%; 50HZ; 2890U/MIN	BRINKMANN
K8-1S2	+50-BL930.2	392896A	LEVEL SENSOR LMT110		1830VDC; 1S/1Ö;	IFM
K8-1Z1			OIL TANK WITH FLANGE	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2		KLINGELNBERG
K11-0Z1		•	oil mist collector ELSTAR EL 2002 NTD*INDUSA	part number LE4402040 5132		INDUSA
<del>                                     </del>		1				L

KLINGELNBERG

inventory No.

M. no 433021

replac. for

machine type

origin

Speed Viper 300

customer KLINGELNBERG

date

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date

04.07.2022

06.07.2022

23.11.2022

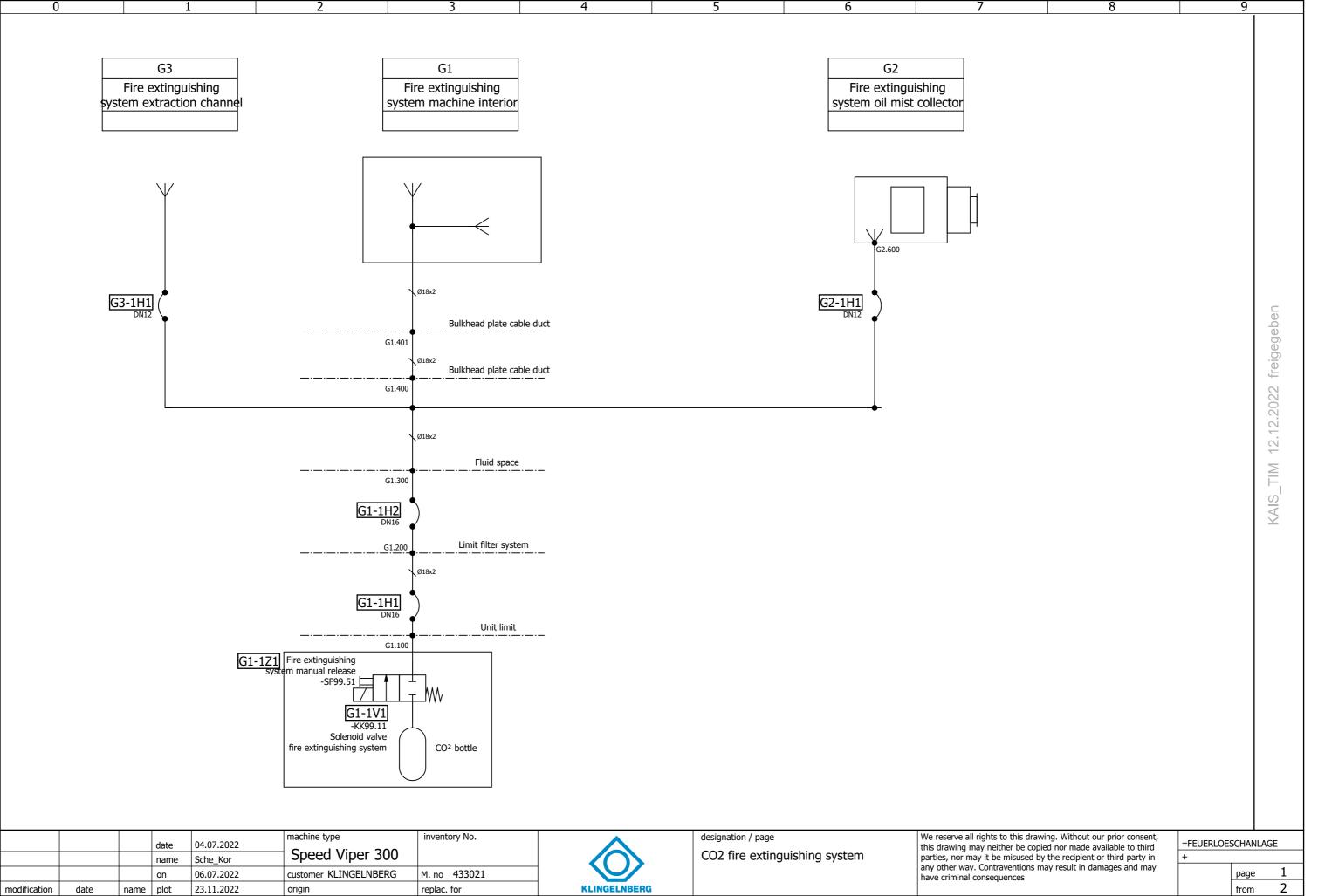
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STL process cooling

designation / page

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## parts list equipment equipment designation 2 designation 3 designation manufacturer part no. sign sign G1-1H2 454565A Super high-pressure hose DN 16/462ST-10X 3200 FITTING 1CA48-18-10/1CF48-18-10 \*FA.PARKER PARKER G1-1Z1 7835251A CO2- extinguishing system FB704 M. 18MM extinguisher line. Order number: 21560-0 from 2.6.2017 230V 50HZ KRAFT+BAUER 12.12.2022 freigegeben KAIS\_TIM We reserve all rights to this drawing. Without our prior consent, this drawing may neither be copied nor made available to third parties, nor may it be misused by the recipient or third party in any other way. Contraventions may result in damages and may machine type inventory No. designation / page =FEUERLOESCHANLAGE 04.07.2022 Speed Viper 300 STL fire extinguishing system Sche\_Kor customer KLINGELNBERG M. no 433021 06.07.2022 on have criminal consequences KLINGELNBERG

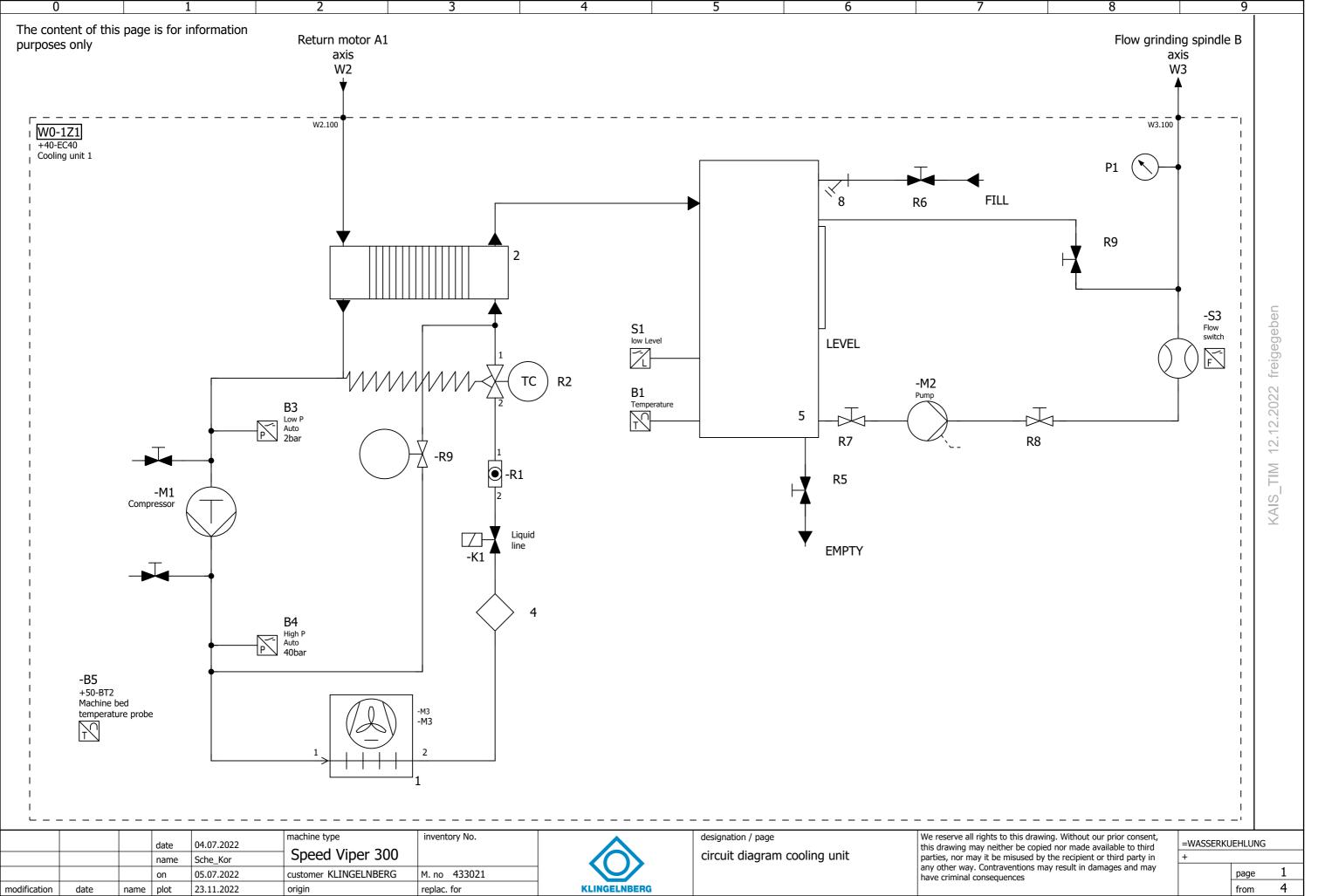
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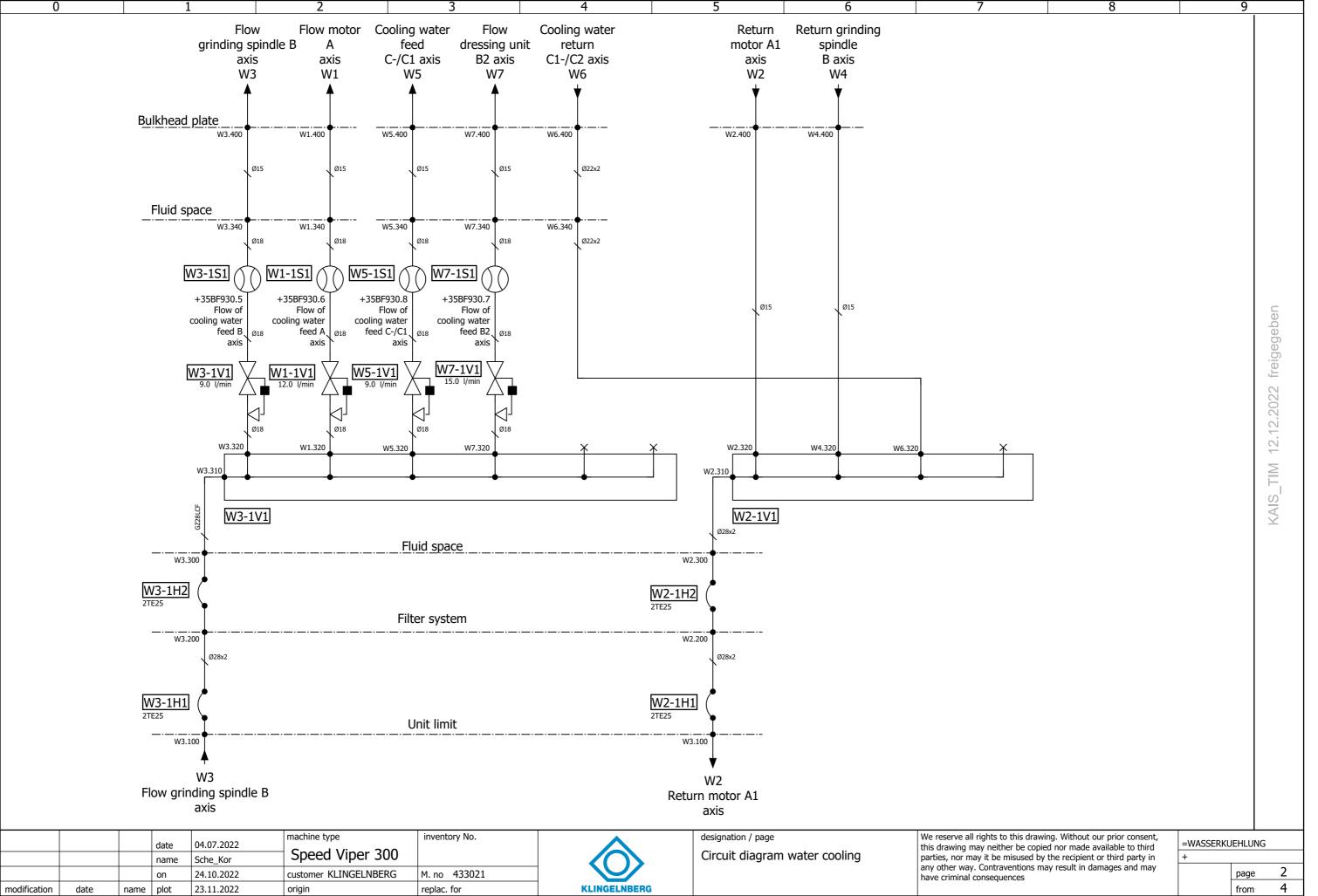
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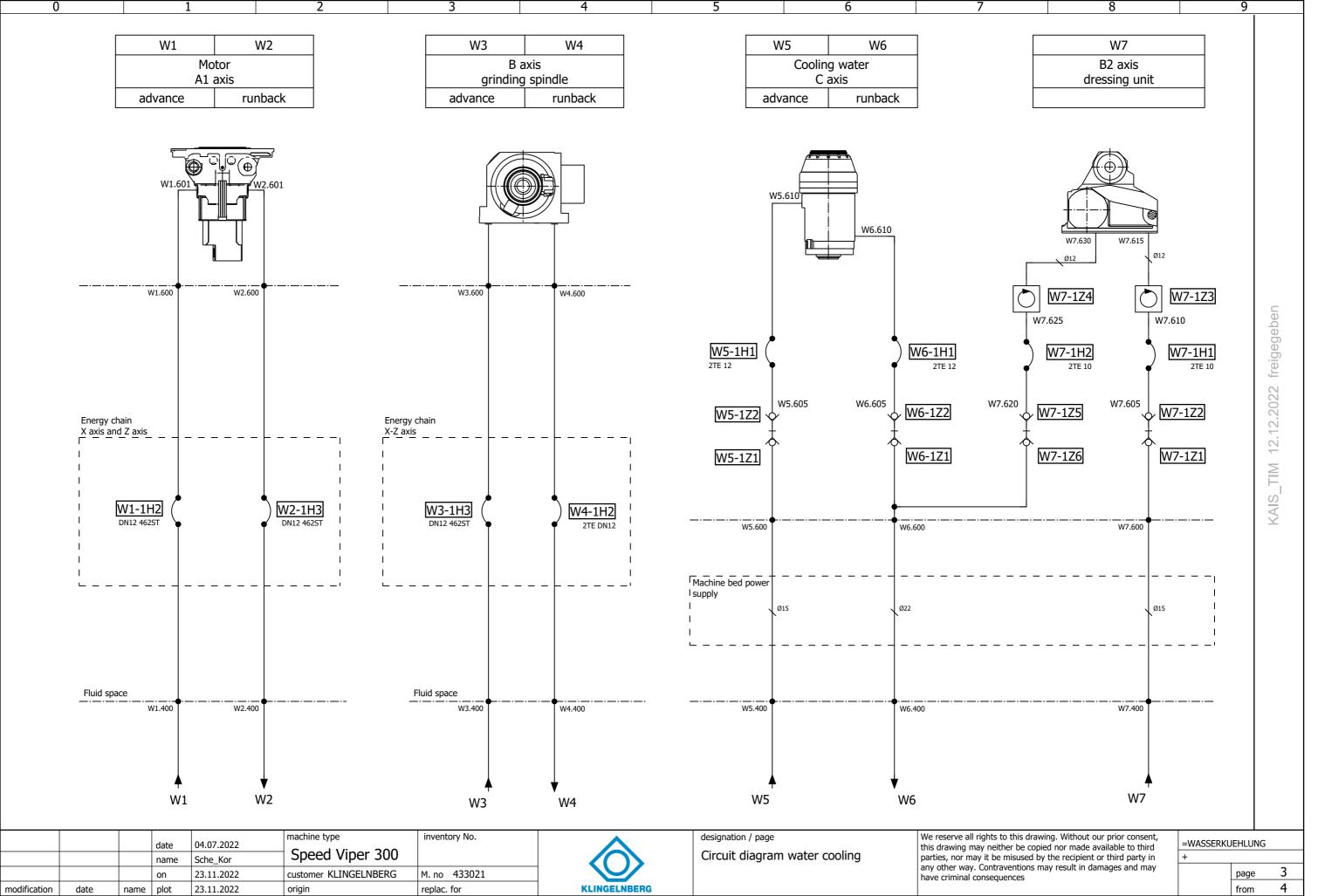
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parts list

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equipment sign	electric equipment sign	part no.	designat	ion	do	esignation 2		designation 3	m	anufacturer
W0-1Z1	+40-EC40	7836870A	Cooling unit SpeedViper/Viper *Seif	ert 4.5	KW USEFUL COOLING C	APACITY @ 20°C WATER	32°C AM	IBIENT TEMPERATURE	SEIFER	T
W1-1S1	+35BF930.6	456286A	Flow sensor SA5000	Pro	cess connection: interior	hreadM18X1,5 for	Adapter	rod length L: 45 mm	IFM	
W1-1V1		380031A	flow indicator OT-025AM150	*FA	A.Honsberg		Automat	cically ordered C-material (EDI)	HONSE	ERG
W2-1H2		454563A	HP hose 2TE 25 A05 A35- 3850						ARGUS	
W2-1H3		454787A	ultra-high pressure hose DN 12/462	ST- 8X 4650 FIT	TING 1CA46-15-8/1D046	15-8 *FA.PARKER			PARKE	R-ERMETO
W2-1V1		457930A	Distributor return						KLINGE	ELNBERG
W3-1H2		454562A	HP hose 2TE 25 A05 A35- 3750						ARGUS	
W3-1H3		7002843A	super high pressure hose DN12/462	2ST- 8X5300 Fitti	ing 1CA46-15-8/1CA46-1	5-8 *Parker	*FA.PAR	KER	PARKE	R
W3-1S1	+35BF930.5	456286A	Flow sensor SA5000		cess connection: interior		Adapter	rod length L: 45 mm	IFM	
W3-1V1		380031A	flow indicator OT-025AM150		A.Honsberg	,		ically ordered C-material (EDI)	HONSE	ERG
W3-1V1		457929A	Distributor flow					, , , , , , , , , , , , , , , , , , , ,		LNBERG
N4-1H2		7002844A	super high pressure hose DN12/462	PST- 8X5500 Fitti	ing 1CA46-15-8/1CA46-1	5-8 *Parker	*FA.PAR	KFR	PARKE	
N5-1H1		454353A	HP hose 2TE 12 A05 A05- 660	1166	g 10/10/15 0/10/10/1	, o Tarker	174174		ARGUS	
W5-1S1	+35BF930.8	456286A	Flow sensor SA5000	Pro	cess connection: interior	hreadM18Y1 5 for	Adapter	rod length L: 45 mm	IFM	
N5-131 N5-1V1	+330.6	380031A	flow indicator OT-025AM150		A.Honsberg	illeadin18x1,5 loi		ically ordered C-material (EDI)	HONSE	EDC
							Automa	ically ordered C-material (EDI)		
W5-1Z1		454345A	Sealing coupling LP DN12*Walther		der no. LP-012-0-L1522-1				WALTH	
W5-1Z2		454347A	Sealing nipple LP DN12* Walther	Ord	der no. LP-012-2-L1522-1	1-1			WALTH	
W6-1H1		454353A	HP hose 2TE 12 A05 A05- 660						ARGUS	
W6-1Z1		454345A	Sealing coupling LP DN12*Walther		der no. LP-012-0-L1522-1				WALTH	
W6-1Z2		454347A	Sealing nipple LP DN12* Walther	Ord	der no. LP-012-2-L1522-1	-1			WALTH	
W7-1H1		7813557A	high pressure hose 2TE 10 A05 A05	i- 650 P					PARKE	R-ERMETO
W7-1H2		7813594A	high pressure hose 2TE 10 A05 A35	i- 1000 P					PARKE	R-ERMETO
W7-1S1	+35BF930.7	456286A	Flow sensor SA5000	Pro	cess connection: interior	hreadM18X1,5 for	Adapter	rod length L: 45 mm	IFM	
W7-1V1		380031A	flow indicator OT-025AM150		A.Honsberg			ically ordered C-material (EDI)	HONSE	ERG
W7-1Z1		454345A	Sealing coupling LP DN12*Walther		der no. LP-012-0-L1522-1	-1		(===)	WALTH	
W7-1Z2		454347A	Sealing nipple LP DN12* Walther		der no. LP-012-2-L1522-1				WALTH	
W7-1Z3		454343A	Straight swivel joint L 12 M18X1,5		LL BEARINGS; ART.NO.43		LIGHT	ERIES; PMAX. 25 BAR; SEALS NBR;		ter Hydraulik GmbH
W7-1Z4		454343A	Straight swivel joint L 12 M18X1,5		LL BEARINGS; ART.NO.43			ERIES; PMAX. 25 BAR; SEALS NBR;		ter Hydraulik GmbH
					· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	LIGHTS	ERIES; PMAX. 25 DAR; SEALS INDR;		
W7-1Z5 W7-1Z6		454347A 454345A	Sealing nipple LP DN12* Walther Sealing coupling LP DN12*Walther		der no. LP-012-2-L1522-1 der no. LP-012-0-L1522-1				WALTH WALTH	
			machine type inventory No			signation / page		We reserve all rights to this drawing. Without our	prior consent	
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