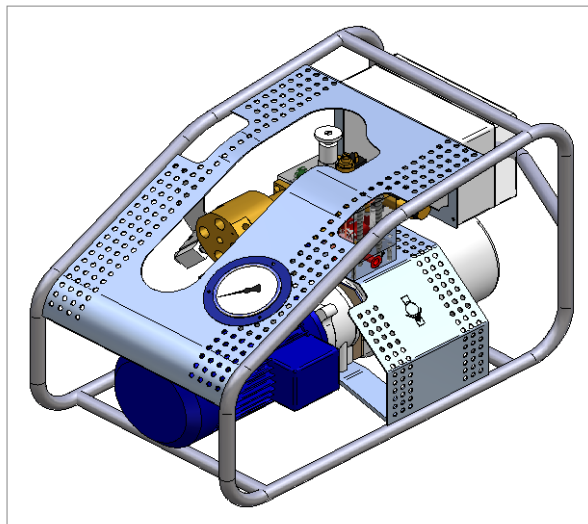


Operating Instructions for Mobile Pump Unit

PS 100274 076
1x230V 50hz – HC7-9,0-B-13
Manuel release,
Type V2



“ORIGINAL OPERATING INSTRUCTIONS”

S&T 11/2015

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General information

Hydraulic systems from Serman & Tipsmark A/S are designed with a view to durability and safe operation. They require only a minimum of maintenance, but maintenance must still be carried out to ensure trouble-free operation, as working experience shows that up to 80 per cent of all defects are caused by pollution of the system and lacking technical service. It is important that the safety regulations in these instructions are observed in connection with any type of technical service and repair of the hydraulic system.

Manufacturer

Serman & Tipsmark A/S
Maltvej 12-14

DK-9700 Brønderslev
Tel. +45 70 10 09 11

Safety: Power/hydraulic system



Connect tools, check the mains supply and then connect the machine to the mains supply. Before starting up the machine.

The machines are delivered with the following voltages:

1x230V 50hz

Fitting for intensifier must be Cejn 19 950 1601. (Important)

Quick disconnected cannot stand pressure when not connected. The pressure values for quick connectors only apply when these are connected.

Check that setting for Max. Pressure is correct, e.g. 1400 bars. If the setting for Maximum Pressure is not correct, set it by means of the pressure relief valve mounted on the pump Unit. 1550 Bar. Preset

Then set the requested work pressure = high pressure by means of valve in the valve block at the requested value.

Also make sure that there are no leakages from tool hoses and nipples.

Pre Operation

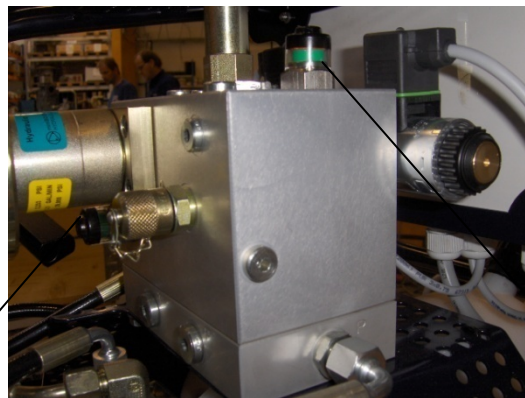
On receipt of the pump and first oil fill and subsequent drain and refills, the pump must be primed to remove all air from the system as described below.

- 1. Fill tank with Shell Tellus 32 (5,0 litres)**
- 2. Ensure all Hydraulic connections are in place and secure.**
- 3. Connect hose to the quick disconnect connection on the pump outlet.**
- 4. The opposite end of the hose should be fitted with the open male quick release connection supplied.**
- 5. Close the pressure release valve by rotating the handle clockwise until finger tight.**
- 6. Start the pump, you will see oil and possibly air flow from the open end of the hose. Continue until no air is present in the oil. This should take no longer than 30 seconds.**
- 7. Push the advance button on the control unit. You should see a constant pulsating flow of oil. Release button and stop pump.**
- 8. Remove open male quick release connection.**

PRIMING COMPLETE.

Operation

1. Connect the tools.
2. Connect to the Power supply.
3. Control clogging Indicators, green colure: Filters OK.
4. Red colure, change filters. (Clogging indicators only Works when motor is running.) There is 2 Indicators one, on Pressure filter and one on return filter.
5. Making Pressure Pres white button on remote control
6. To release pressure, open the needle valve or press the black button on the Remote control



Return line filter.
Clogging indicator

If RED: Replace filter
If GREEN: Filter OK

NOTE:
Clogging indicator only works when the machine is running, so perform the test as a part of the start up

Pressure filter.
Clogging indicator

If RED: Replace filter
If GREEN: Filter OK

Maintenance

Maintenance of the mobile high-pressure unit consists in external cleaning, replacement of filters and oil, cleaning of suction strainer and tank, cleaning of oil through filter, and re-tightening of all machine bolts.

External maintenance: As required

Replacement of oil: Control by yourself

Cleaning of tank: Control by yourself

Cleaning of suction strainer: Control by yourself

Replacement of filter in valve block: Check the Clogging indicator (shows Red).

Clogging Indicators only works when Motor is running.

These instructions apply to machines used under normal operating conditions, i.e. eight hours' working time, few instances of tool replacement and stop of machine in case of longer periods of standstill.

Technical specifications

General

Weight: 45 kg/99 lbs

Noise level: Below 70 dBA

Hydraulic system

Oil type: Shell Tellus 32

Oil volume: 5,0 litres to max. line

Useable: 3 liter to min. line

Maximum pressure: 155 bars Inlet of the Intensifier.

Maximum flow: 3,5 L, pr. minut, Low pressure pump

Maximum oil temperature: 70 degrees C

Electrical system

Mains supply: 1x230V 50hz, +/- 5%

Maximum power consumption: 9,4 amps at 1x230V 50hz 1.5 kW motor

Control voltage: 230VAC

Low temperature and pressure gauge with glycerine damping

The standard freezing point of the pressure gauge on the Power Unit is $-20.3^{\circ}\text{C}/-4.5^{\circ}\text{F}$

If this point is to be raised, e.g. to $-38.9^{\circ}\text{C}/-38^{\circ}\text{F}$, proceed as follows:

Use a disposable syringe, remove the rubber stopper, insert into the opening, pull out 28 ml of glycerine and replace it by 28 ml of water, mount the rubber stopper, shake the pressure gauge until the ingredients have been properly mixed.

Freezing Points of Glycerine-Water Solutions

Glycerine by Wt. (%)	Water (%)	Freezing Points		Glycerine by Wt. (%)	Water (%)	Freezing Points	
		($^{\circ}\text{C}$)	($^{\circ}\text{F}$)			($^{\circ}\text{C}$)	($^{\circ}\text{F}$)
0.0	100.0	0.0	32.0	65.0	35.0	-43.0	-45.4
5.0	95.0	-0.6	30.9	65.6 ⁽¹⁾	34.4	-44.5	-48.1
10.0	90.0	-1.6	29.1	66.0 ⁽¹⁾	34.0	-44.7	-48.5
11.5 ⁽¹⁾	88.5	-2.0	28.4	66.7 ⁽¹⁾	33.3	-46.5	-51.7
15.0	85.0	-3.1	26.4	67.1 ⁽¹⁾	32.9	-45.5	-49.9
20.0	80.0	-4.8	23.4	67.3 ⁽¹⁾	32.7	-44.5	-48.1
22.6 ⁽¹⁾	77.4	-6.0	21.2	68.0 ⁽¹⁾	32.0	-44.0	-47.2
25.0	75.0	-7.0	19.4	70.0	30.0	-38.9	-38.0
30.0	70.0	-9.5	14.9	70.9 ⁽¹⁾	29.1	-37.5	-35.5
33.3 ⁽¹⁾	67.0	-11.0	12.2	75.0	25.0	-29.8	-21.6
35.0	65.0	-12.2	10.0	75.4 ⁽¹⁾	24.6	-28.5	-19.3
40.0	60.0	-15.4	4.3	79.0 ⁽¹⁾	21.0	-22.0	-7.6
44.5 ⁽¹⁾	55.5	-18.5	-1.3	80.0	20.0	-20.3	-4.5
45.0	55.0	-18.8	-1.8	84.8 ⁽¹⁾	15.2	-10.5	13.1
50.0	50.0	-23.0	-9.4	85.0	15.0	-10.9	12.4
53.0 ⁽¹⁾	47.0	-26.0	-14.8	90.0	10.0	-1.6	29.1
55.0	45.0	-28.2	-18.8	90.3 ⁽¹⁾	9.7	-1.0	30.2
60.0	40.0	-34.7	-30.5	95.0	5.0	7.7	45.9
60.4 ⁽¹⁾	39.6	-35.0	-31.0	95.3 ⁽¹⁾	4.7	7.5	45.5
64.0 ⁽¹⁾	36.0	-41.5	-42.7	98.2 ⁽¹⁾	1.8	13.5	56.3
64.7 ⁽¹⁾	35.3	-42.5	-44.5	100.0	0.0	17.0	62.6

⁽¹⁾Actual determination. Remaining values were interpolated from curve.

Shell Tellus STX 32, data sheet



Technical Data Sheet

Shell Tellus Oils STX

Ashless zinc free hydraulic oils for severe duty and extended temperature ranges

Shell Tellus Oils STX are “top-tier” hydraulic oils based on latest ashless antiwear technology, selected high quality mineral base oils of API Group II category and a shear stable viscosity index improver to enhance and maintain excellent viscosity/temperature characteristics.

They are indicated for severe duty or where significant variation in oil temperature during service are encountered.

Applications

- Hydraulic and fluid power transmission systems subjected to significant variations in temperature or where very low viscosity change with fluctuating temperature is required.

Certain critical hydraulic systems can only tolerate very small variations in viscosity with fluctuating temperature if efficiency and responsiveness are to be maintained. Hydraulic oils, such as Shell Tellus Oils STX, which exhibit multigrade viscosity characteristics may be used to particular advantage in these circumstances.

Performance Features and Benefits

- Extended operating temperature range**

The use of selected viscosity index improver and Group II base oils reduce the viscosity variation with temperature allowing the systems to operate in an extended oil temperature range with more consistent performances. Reasons for oil temperature modification could be different ones like: environment temperature variation, intermediate working condition or variable workload.

- Maintained viscosimetric characteristics unchanged with time**

The high shear stability of the viscosity index improver used allows to retain the original viscosimetric characteristics preventing the oil to get

thinner and thinner at high temperature and therefore preventing the reduction of the max operating temperature and the system efficiency.

- Outstanding anti-wear performance**

Latest ashless anti-wear technologies are incorporated to be effective throughout the range of operating conditions, including low and severe duty load conditions. Outstanding performance in a range of piston and vane pump tests have been obtained including the newest Denison T6H (the so called hybrid pump), the tough Denison T6C (dry and wet versions) and the demanding Vickers 35VQ25. Tellus STX help system components last longer.

- Hydrolytic stability**

Tellus STX have excellent chemical stability in the presence of moisture, which ensures long oil life and reduces the risk of corrosion and rusting.

- Superior filterability**

Tellus STX are suitable for ultra-fine filtration, an essential requirement in today's hydraulic systems. They are unaffected by the usual products of contamination, such as water and calcium, which are known to cause blockage of fine filters. Customers can use finer filters, therefore achieving all the benefits of having in use cleaner fluids.

- Oxidation resistant**

Resist oxidation in the presence of air, water and copper. Thanks to the combination of additives and base oils used the Turbine Oil Stability Test (TOST) results are outstanding in terms of low acidity, low sludge formation, low copper loss; therefore

Technical Data Sheet

Shell Tellus Oils

extending oil drain interval life and minimising maintenance costs.

- **Thermal stability**

Thermally stable in modern hydraulic systems working in extreme conditions of load and temperature. Tellus STX are highly resistant to degradation and sludge formation therefore improving system reliability and cleanliness.

- **Excellent air release and anti-foam properties**

Additives have been carefully selected to ensure quick air release without excessive foaming. Quick air release helps minimise cavitation and slow oxidation, maintaining system and fluid performance.

- **Good water separation**

Good water separation properties (demulsibility). Resists the formation of water-in-oil emulsions and prevents consequent hydraulic system and pump damage.

- **Reduced environmental impact**

The use of ashless anti-wear technology and low sulphur base oils reduce the impact on the environment due to usage of Tellus STX.

Specifications and Approvals

Tellus Oils STX have the following approvals:
 CINCINNATI P-68 (ISO 32)

CINCINNATI P-70 (ISO 46)
 CINCINNATI P-69 (ISO 68)
 DENISON HF-0
 DENISON HF-1
 DENISON HF-2
 Eaton (Vickers) M-2950 S
 Eaton (Vickers) I-286 S

Tellus Oils STX meet the requirements of:
 Swedish Standard SS 15 54 34 AV (ISO VG 46 & 68)
 Swedish Standard SS 15 54 34 AM (ISO VG 32)
 ISO 11158 HV Type
 AFNOR NFE 48-603

Compatibility

Tellus STX are compatible with all components, pumps, seals and paints, normally considered to be used with mineral oils.

Health & Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet, which can be obtained from your Shell representative.

Protect the environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water

Typical Physical Characteristics

Shell Tellus Oil STX	32	46	68
ISO Oil Type	HV	HV	HV
Kinematic Viscosity			
@ -20°C mm ² /s	1000	1850	2900
40°C mm ² /s	32	46	68
100°C mm ² /s	6.5	8.4	11.4
{ASTM D 445}			
Viscosity Index (ISO 2909)	162	162	162
Density @ 15°C kg/m ³ (ISO 12185)	870	875	880
Flash Point °C (Cleveland Open Cup) (ISO 2592)	220	225	230
Pour Point °C (IP 15)	-42	-42	-39

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

Q8 Händel 46, data sheet

Q8 Handel

Product Data Sheet



Application

- Off highway equipment and other hydraulic systems exposed to wide temperature fluctuations
 ISO 11158, category HV
 DIN 51524 Part 3, category HVLP
 SS 155434, category AV

Benefits

- Optimum anti-wear performance, based on a zinc dialkylthiophosphate additive
- Wide application temperature range through low pour point and outstanding low and high temperature viscosity characteristics
- Trouble-free operation due to the unique combination of outstanding demulsibility, foam, air release, hydrolytic stability and filterability
- Long term stable fluid viscosity through excellent shear stability

References

- Q8 Handel meets the most severe off highway equipment manufacturer requirements and is approved by the major hydraulic pump manufacturers

Formulation

- Mineral Oils
- Viscosity Index Improver
- Anti-wear Additive
- Rust Inhibitor
- Anti-oxidant
- Corrosion Inhibitor
- Anti-foam Agent

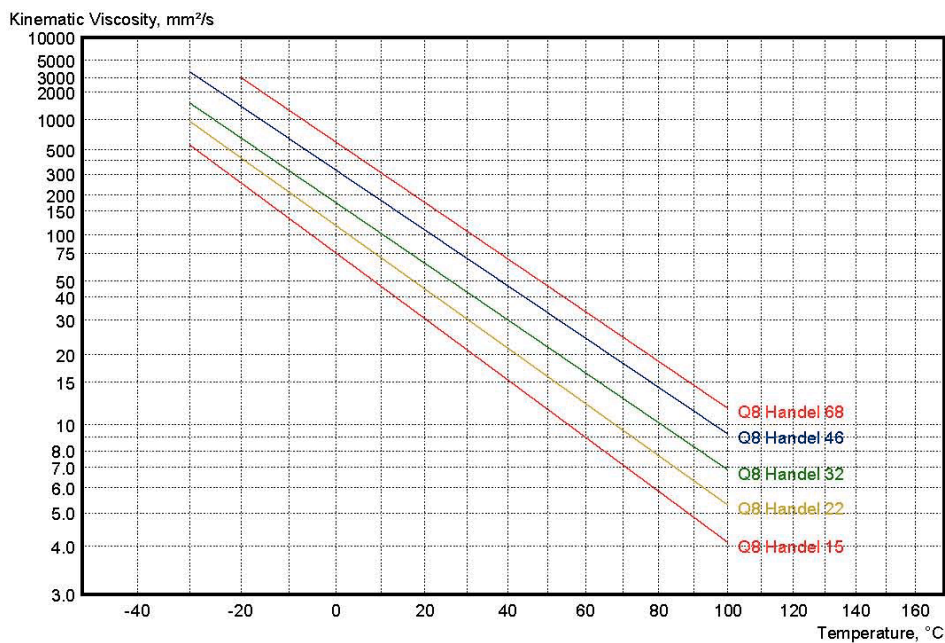
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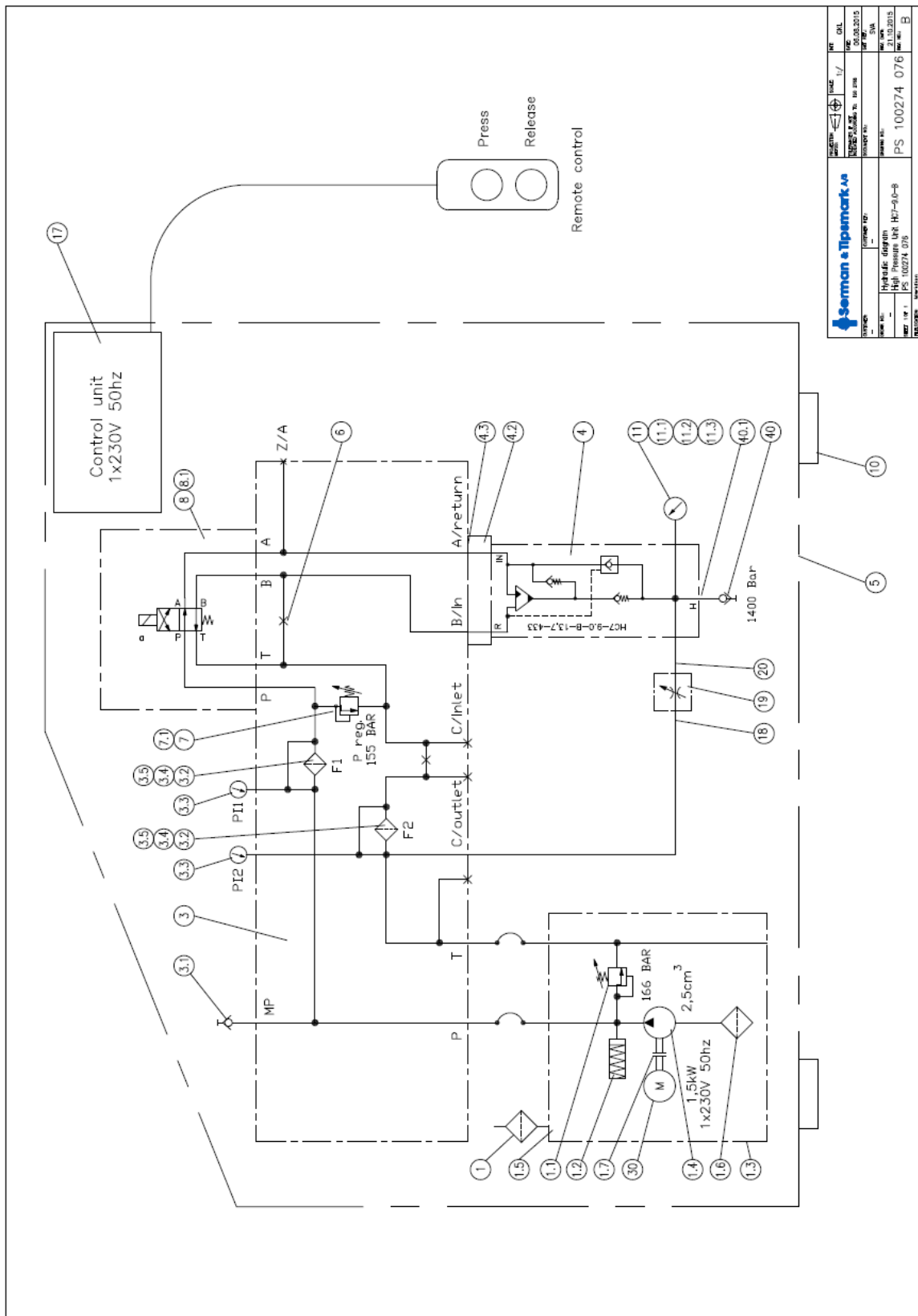
	Method	Units	Inspection Data				
			15	22	32	32*	46
Q8 Handel			15	22	32	32*	46
ISO Viscosity Grade	-	-	15	22	32	32	46
Absolute Density, 15 °C	D 4052	kg/m ³	857	858	865	868	875
Kinematic Viscosity, 40 °C	D 445	mm ² /s	15.0	22.0	32.0	32.0	46.0
Kinematic Viscosity, 100 °C	D 445	mm ² /s	4.10	5.28	6.86	7.50	9.22
Viscosity Index	D 2270	-	191	187	182	215	188
Flash Point	D 92	°C	160	178	196	178	200
Pour Point	D 97	°C	-45	-39	-39	-45	-36
Colour	D 1500	-	L0.5	L0.5	L0.5	L0.5	L0.5
Rust Test, Proc. A and B, 24 h	D 665	-	pass	pass	pass	pass	pass
Emulsion, Distilled Water, 54.4 °C	D 1401	-	40-40-0(5)	40-40-0(5)	40-40-0(10)	40-40-0(15)	40-40-0(15)
Air Release, 50 °C	DIN 51381	min	2	3	3	4	6
Foam, 5 min blowing, seq. 1/2/3	D 892	ml	80/30/30	80/40/80	30/50/30	30/40/60	10/25/10
10 min settling, seq. 1/2/3		ml	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
* Stockholm Production							

Q8 Handel, p.2

Product Data Sheet

	Method	Units	Inspection Data
Q8 Handel			68
ISO Viscosity Grade	-	-	68
Absolute Density, 15 °C	D 4052	kg/m ³	878
Kinematic Viscosity, 40 °C	D 445	mm ² /s	68.0
Kinematic Viscosity, 100 °C	D 445	mm ² /s	11.60
Viscosity Index	D 2270	-	166
Flash Point	D 92	°C	210
Pour Point	D 97	°C	-36
Colour	D 1500	-	L0.5
Rust Test, Proc. A and B, 24 h	D 665	-	pass
Emulsion, Distilled Water, 54.4 °C	D 1401	-	40-40-0(20)
Air Release, 50 °C	DIN 51381	min	6
Foam, 5 min blowing, seq. 1/2/3	D 892	ml	10/25/10
10 min settling, seq. 1/2/3		ml	0/0/0
* Stockholm Production			





Customer : Maschinenfabrik Wagner GmbH &
 P-ord nr/Dwg nr. : 317937 / 317937
 Date : 2015/06/29
 Our reference : SVA
 Deliver : 2015/08/25
 Sales order number : 190026 /
 Page : 1 af 2

STATIONSLISTE

PS 100274 076 21-10-15

Position	Qty	Description	Item	Type	Remarks
1	1	Venting/Filling Plug	HYT 14184600	L1.0406-102	LUFTFILTER 56-60
1.1	1	Pressure relief valve	HYT 15914800	SRIA-A2/S25	
1.2	1	Starting Module	HYT 16085000	OPSTARTS MODUL	
1.3	1	Oiltank	HYT 16093800	TANK RUND PLAST V/H 6.0L 40.41	
1.4	1	Pump Kit 2.5ccm	HYT 16665100	P23-2.5 L.65017 PMAX=250BAR	
1.5	1	Base block w return elem. A-P	HYT 17025700	BASIS BLOK A-P	
1.6	1	Suction filter	HYT 23462500	2SF 56/48-0.063 CP	
1.7	1	Coupling modified SMA 4/5	ST 31917	KOBLING MODIFICERET SMA4/5	
3	1	Manifold, spec.	ST 31325 D	BLOK TENSIONER SPA/SMA REV. D	
3.1	1	Measuring point, 1/4"x16.2	SA 3277977	MALEUDTAG 1/4"RG-16X2 M ORING	
3.2	2	Element W3.0307-18	HYT 15448700	W3.0307-18S ELEMENT	
3.3	2	Indicator for filter	HYT 14063400	DG 032.1700.INDIKATOR	
3.4	2	Plug, spec.	ST 31104	PROP. SPECIAL	
3.5	2	O-ring 32*2.5 nbr 70	FS OR 32*2.5	NRB 70	
4	1	Pressure intensifier	MI HC7-9.0-B-13.7-433	TRYKFORSTÆRKER HC7-9.0.B 13	
4.2	1	Mounting set	MI HC2-KIT-1	MONTERINGSÆT	
4.3	1	O-ring 15.6*1.78 nbr 70	FS OR 15.6*1.78	NRB 70	8 pcs. o-rings to be used for 1 mounting set
5	1	Frame	TH 100274 005	STATIV/BOLTSTR.V2.SERMAN DISPL	
6	1	Plug	DE 33702007	PROP C10-2 7/8"	
7	1	Pressure relief valve	DE 85002129	DE-RVA-00-3000 100-200Bar	
7.1	1	Handle	DE 23020004	DREJEKNOP (1 SÆT = 2 STK.)	
8	1	Directional valve RPE3-042R11	HYT 15861800	RPE3-042R11 U.SPOLE NG4	
8.1	1	Coil 230VAC NG4	HYT 27449900	C198-230/50 ES NG4 SPOLE 230AC	
10	4	Vibrationdamper SDE5	VI SDE 20/15 45SH	SDE 20/15 45SH M6	
11		Collar 1/4"60000 PSI	HYTO 1310 60C4	COLLAR 1/4"60000 PSI	
11.1		Gland 1/4"60000 PSI	HYTO 1310 60G4	GLAND 1/4"60000 PSI	

Maltvej 12, 9700 Brønderslev Tlf. 70 10 09 11 Cvr-nr. 21 36 38 39 Email: serman-tipsmark@serman-tipsmark.dk Homepage: www.serman-tipsmark.dk

Et selskab i Sanistål koncernen

Customer : Maschinenfabrik Wagner GmbH &
P-ord nr/Dwg nr. : 317937 / 317937
Date : 2015/06/29
Our reference : SVA
Deliver : 2015/08/25
Sales order number : 190026 /
Page : 2 af 2

STATIONSLISTE

PS 100274 076 21-10-15

Position	Qty	Description	Item	Type	Remarks
11.2		High press tube 1/4" 60000 PSI	HYTO 1840 60083316	BRUG PAA MS15-081	
11.3	1	Manometer 0-2000 Bar, RChg 100	JØ 322 GL 0-2000 CERTF.3	MANOMETER 0-2000 BAR CERTF 3.1	
17	1	Control Unit 1x230/50hz	EL 100274 052	STYRING 1X230/50HZ 076	
18	1	Cejn adapter,1/4"-9/16-18 UNF	BO 19 950 1605	CEJN NIPPEL 1/4" X 9/16"-18	
19	1	Needle Valve 2000 Bar	PA 30VM4081	NALEVENT 2068 BAR 9/16-1/4	
20	1	Adapter 9/16 - 9/16 HP 1/4"	EVM MA4H4H	ADAPTER 1/4"HP,9/16-9/16	
30	1	El-motor 1,5kW B14 4P,Driftsk.	BUSC 90L-41X230B14A	1,5KW 4P 90L 1X230/50 B14	
40	1	Connector Female 1/4" G	BO 10 116 1222	INDV. GEVIND F 1/4" G	
40.1	1	Cejn adapter 1/4"-1/4"	BO 19 950 1601	CEJN NIPPEL 1/4"X 1/4"	
41	5	Hy-olie Tellus 32	SHELL TELLUS 32	HY-OLIE TELLUS 32	

Maltvej 12, 9700 Brønderslev Tlf. 70 10 09 11 Fax 96 45 07 90 Cvr-nr. 21 36 38 38 E-mail: serman-tipsmark@serman-tipsmark.dk Homepage: www.serman-tipsmark.dk

Et selskab i Sanistål koncernen

IN ACCORDANCE WITH EIC 69284-1
Electrical Equipment of Machines

Serman & Tipsmark A/S

Maltvej 12
9700 Brønderslev
Denmark
Phone: +45 70 10 09 11
Fax: +45 98 80 09 08

Customer.....:
Project.....: Control unit for Booster
Order no.....:
Supply.....: 1x230 VAC + N + Ground Max 13Amp
Drawing no...: E1 100274 052 Eng

 Serman & Tipsmark A/S Maltvej 12 9700 Brønderslev Denmark Phone +45 70 10 09 11 Fax +45 98 80 09 08		Text: Title Project: Control unit for Booster Customer:	Date: 19-08-2015 Order no.: Ref.: SVA	Rev. date: 25-08-2015 Drawing no.: E1 100274 052 Page 1 of 3
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1	2	3	4	5	6	7	8	9	10
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WIRE COLORS

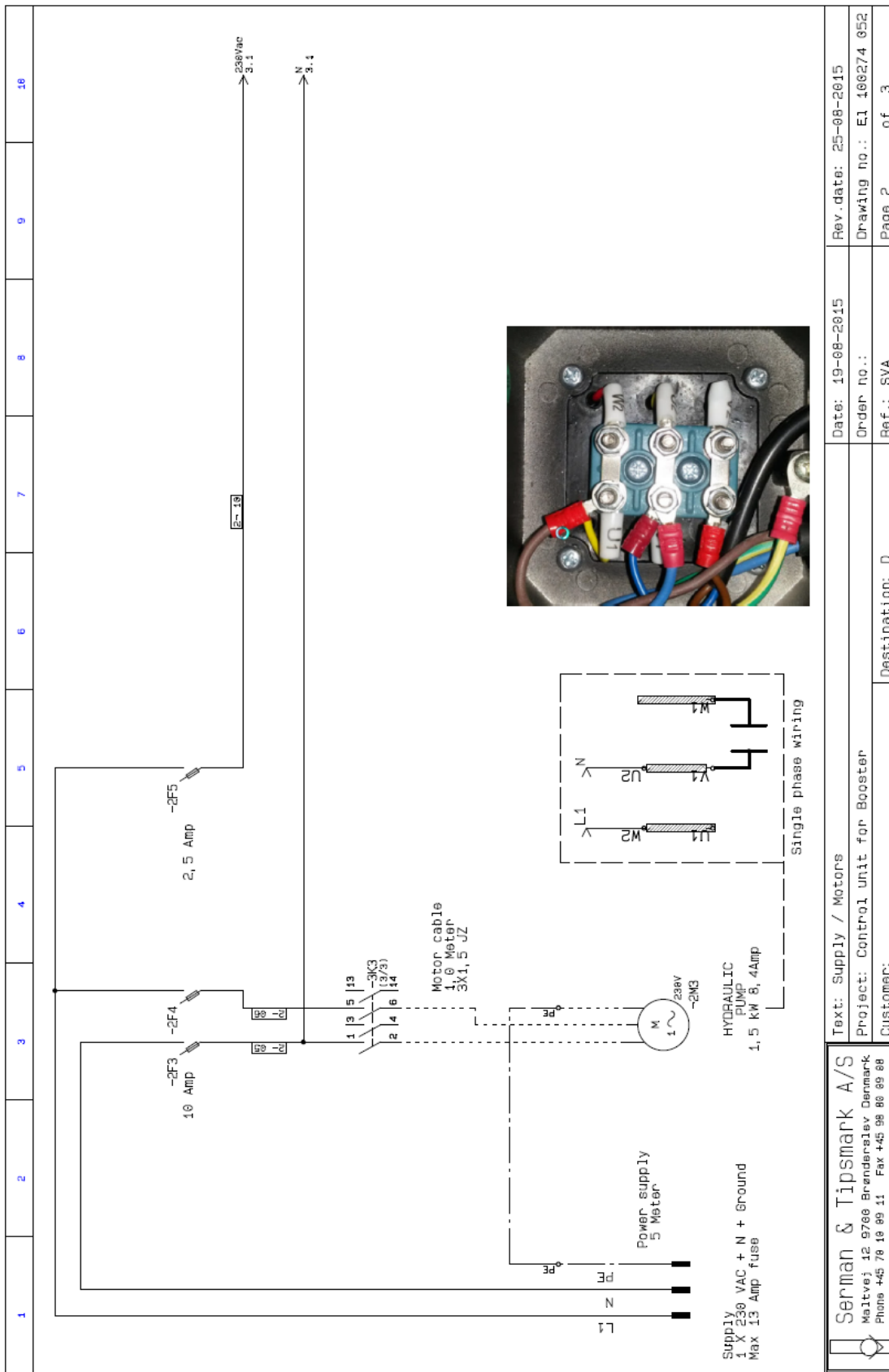
COLOR	FUNCTION
BLACK	POWER CIRCUIT 230 / 400 VAC
LIGHT BLUE	NEUTRAL WIRE
RED	AC CONTROL VOLTAGE ≤ 50 V
GREY	AC CONTROL VOLTAGE NEUTRAL ≤ 50 V
BLACK	AC CONTROL VOLTAGE > 50 V
LIGHT BLUE	AC CONTROL VOLTAGE NEUTRAL > 50 V
DARK BLUE	DC+ CONTROL VOLTAGE ≤ 50 V
BLUE/WHITE	DC- CONTROL VOLTAGE ≤ 50 V
ORANGE	EXTERNAL CONTROL VOLTAGE
VIOLET	ANALOG
GREEN/YELLOW	GROUND PROTECTION

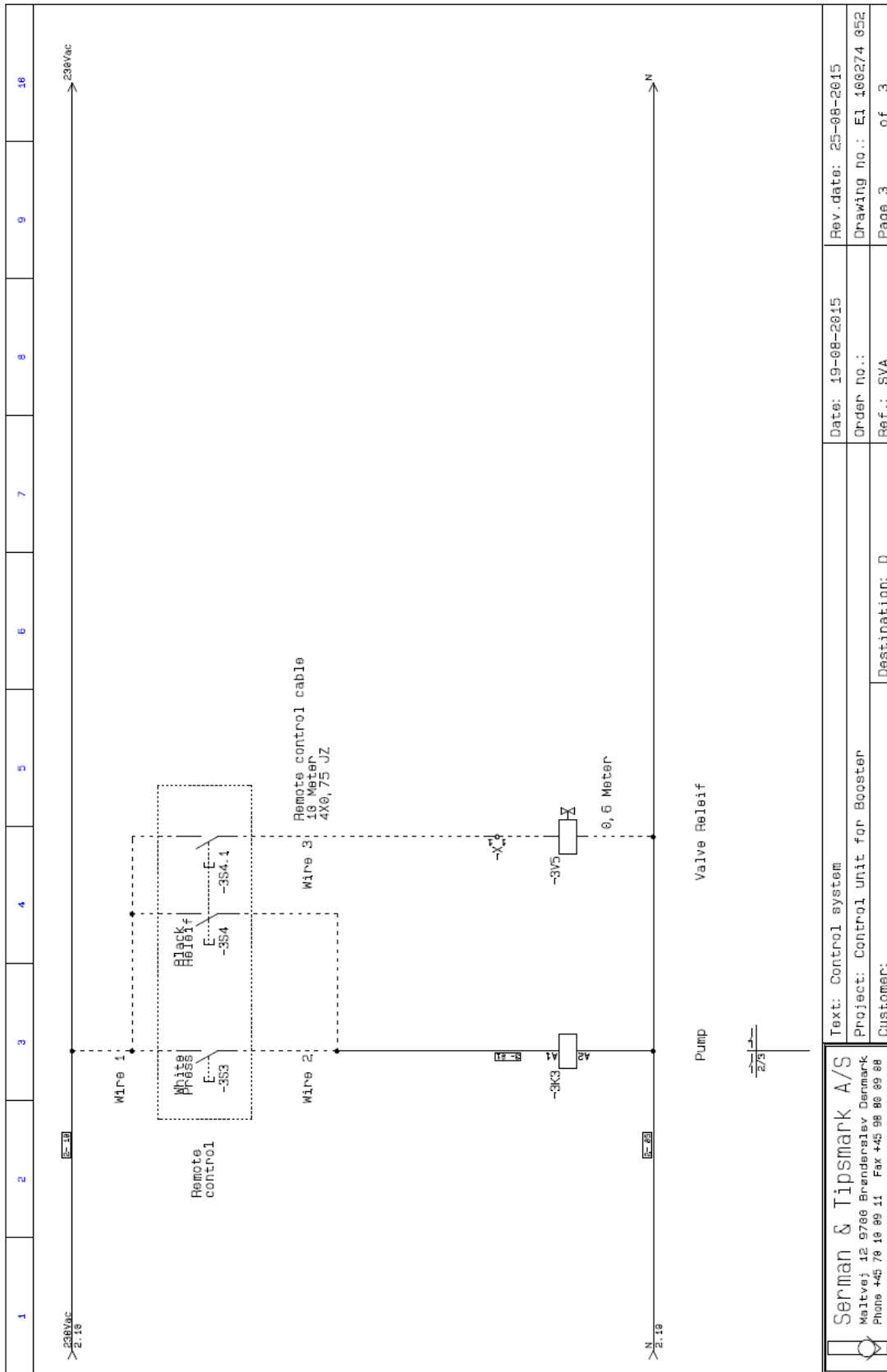
COMPONENT ID

BEFORE USE

BEFORE TURNING ON THE SUPPLY,
THE SCREW TERMINALS HAVE TO BE TIGHTENED

Serman & Tipsmark A/S Maltvej 12 9786 Brønderslev Danmark Phone +45 78 18 89 11 Fax +45 98 88 89 88	Text: Project: Control unit for Booster Customer:
Date: 19-08-2015	Rev. date: 25-08-2015
Order no.:	Drawing no.: E1 168274 052
Ref.: SVA	Page 1.1 of 3
Destination: D	





Serman & Tipsmark A/S Maltvej 12 9700 Brønderslev Denmark Phone +45 78 18 88 11 Fax +45 98 88 88 88		Text: Control system		Date: 19-08-2015	Rev. date: 25-08-2015
Project: Control unit for Booster		Customer: D		Order no.:	Drawing no.: E1 460274 052
Destination: D				Ref.: SVA	Page 3 of 3

ARMATURENBAU GmbH

Druck- und Temperaturmesstechnik
Pressure and Temperature Measurement

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Telefax: +49 (0) 28 03 / 10 35

E-Mail: mail@armaturenbau.com

Internet: http://armaturenbau.de
http://armaturenbau.com



Abnahmeprüfzeugnis 3.1 nach EN 10 204 Inspection certificate acc. to Certificat de réception selon

Besteller: Jorn Pedersen A/S	Genauigkeitsklasse: 1,0	
Customer: male- og reguleringsteknik	accuracy:	
Bestellnummer: Bogovej 18	Instrumentennr.: 153052812	
DK-8382 Hinnerup	serial no.:	
Email 26-06	Zulässiger maximaler Fehler	
Bestell-Datum: 26.06.2015	nach DIN EN 837-1/-3:	1,0 % vom Skalendwert
date of order:	maximum error :	of full scale value
AB-Kommission: 246752 Pos. 3	entspricht: 20 bar	
AB-order no.:	equivalent:	
Manometer-Typ: RChG 100-3, rFr	Prüfnorm: Kontroller BQD	
pressure gauge type:	testing device:	Kl. 0,04 %
Fabrikat: AB	Serien-Nr.: N-BD 102901 Kanal A	
manufacturer:	serial no.:	
Nenngröße: 100 mm	Meßstoff: Wasser/Water	
case diameter:	media:	
Anzeigebereich: 0-2000 bar	einjustierte Anbauten:	
pressure range:	accessories to be considered:	
Nennlage: senkrecht		
installation:		

Soll-Anzeige Test-Pressure [bar]	Anzeigefehler des Prüflings beim Error [bar]		Soll-Anzeige Test-Pressure [bar]	Anzeigefehler des Prüflings beim Error [bar]	
	Aufwärtsgang Upscale	Abwärtsgang Downscale		Aufwärtsgang Upscale	Abwärtsgang Downscale
0	±0,00	±0,00			
400	-6,00	-2,00			
800	-10,00	-5,00			
1200	-12,00	-5,00			
1600	-12,00	-7,00			
2000	-9,00				

Rückführbarkeit auf nationales Normal: traceable to nat. standard: **4110485 RvA-K-048 11-07**

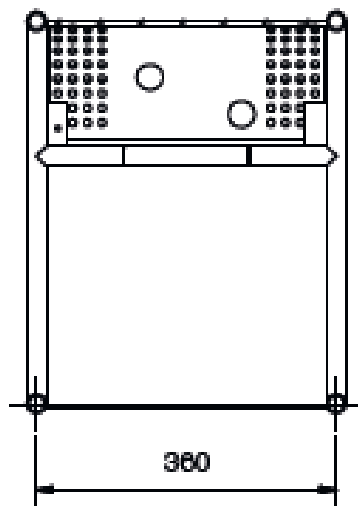
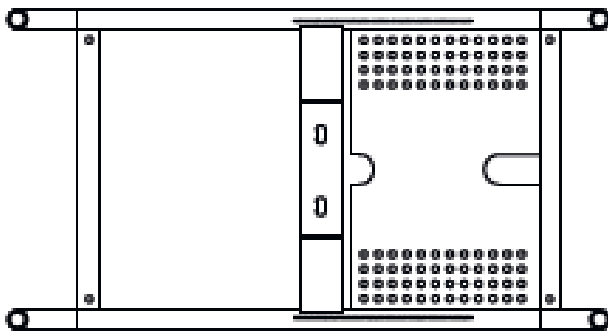
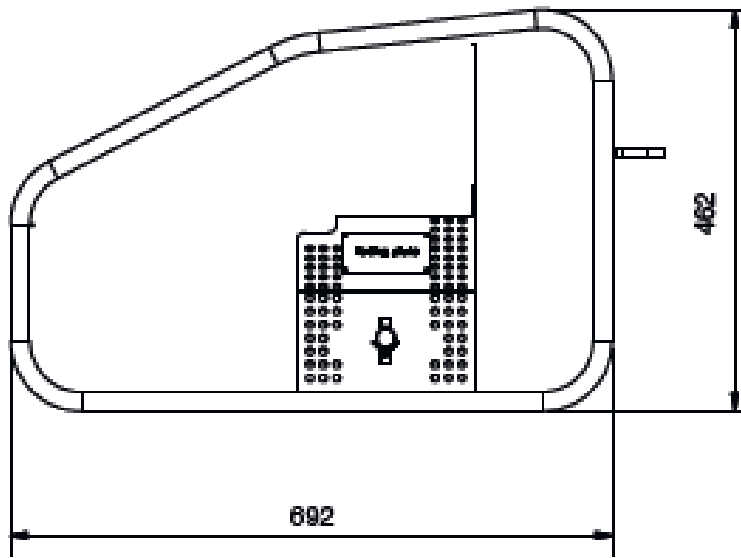
ARMATURENBAU GmbH

Prüfer
Tester

Abnahmebeauftragter
Qualitätswesen
Inspector

Wesel-Ginderich, 23.07.2015

999-000-098 246752_9 Herausgeber: Qualitätswesen



Declaration of incorporation of partly completed machinery.
Machinery Directive 2006/42/EC, Annex II, section 1.B

Undersigned manufacturer, and authorised to compile the technical documentation for the partly completed machinery, to transmit, in response to a reasoned request, the technical dossier.

Manufacturer : Serman & Tipsmark A/S
Address : Maltvej 12, 9700 Brønderslev, Denmark
Telephone : +45 70100911
Fax : +45 98800908

Hereby declares that

Partly completed machinery ... : Hydraulic Pump Unit
Type : PS 100274 076
Order no : 317937-1
Manufacturing year : 2015

Is manufactured in accordance with the following essential safety- and health requirements in the Machinery Directive 2006/42/EC, Annex I:

Is in accordance with the following other EC-Directives:

EMC Directive 2004/108/EC with changes Electromagnetic compatibility
LVD Directive 2006/95/EC with changes Electrical equipment designed for use within certain voltage limits.

The following harmonized standards are used:

EN 12 100-1 Safety of machinery – Basic concepts, general principles for design – Part 1: Basic terminology, methodology
EN 12 100-2 Safety of machinery – Basic concepts, general principles for design – Part 2: Technical principles
EN 60 204-1 Electrical equipment of machines

The following national standards and technical specification are used:

612 of 25.06.2008 Bekendtgørelse om indretning af tekniske hjælpemidler (Announcement of Construction of Technical Aids)
DS/EN ISO 4413 Hydraulik - Generelle regler og sikkerhedskrav til systemer og deres komponenter
(Hydraulic fluid power - General rules and safety requirements for systems and their components)

The partly completed machinery is only to be operated when incorporated in/assembled with:

Machine : Hydraulic System, High pressure Unit
Type : Req.no. 3166388, S&T: HC7-9,0-B-13,7-433,
..... : TF 45-10-094, Pressure Gauge 153052812, EL 317938-1
Manufacturer : Maschinenfabrik Wagner GmbH & Co.

Identification of the signer:

Title : Project Engineer
Name : Svend Åge Jensen
Firm : Serman & Tipsmark A/S

Signature:



Date: 02.09.2015

