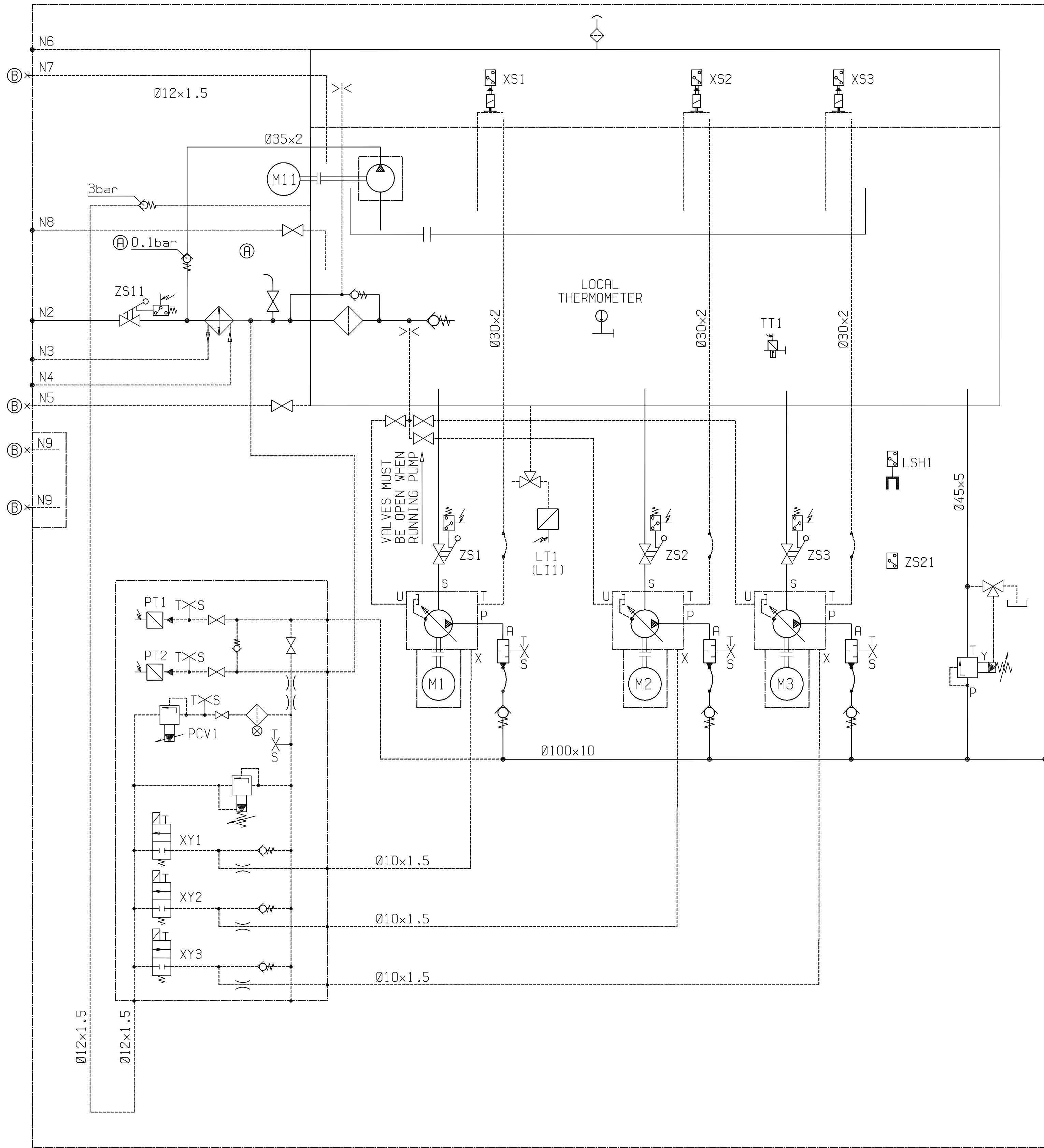
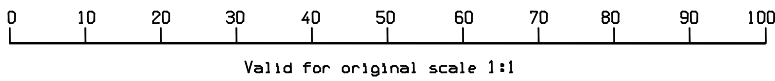




I N S T R U M E N T L I S T					
INSTR. NO.:	APPLICATION	INSTRUMENT	RANGE/ RATING	SET POINT	FUNCTION/ REMARKS
M1-3	EL. MOTOR FOR MAIN HYDRAULIC PUMP				
M11	EL. MOTOR FOR JOCKEY PUMP		2.6 kW		FOR MAIN POWER PACKS DRAINAGE AND SYSTEM PRESSURIZING.
ZS1-3	LOCAL SUCTION LINE CLOSED	LIMIT SWITCH			OPEN/CLOSED STOP CORRESPONDING MOTOR M1-3 WHEN OPEN.
ZS11	MAIN RETURN LINE CLOSED	LIMIT SWITCH			OPEN/CLOSED CONTROLLED SYSTEM SHUT DOWN WHEN OPEN.
XS1-3	WEAR INDICATOR	DEBRIS SWITCH			OPEN/CLOSED ALARM WHEN CLOSED.
PT1	HYDRAULIC SYSTEM PRESSURE	PRESSURE TRANSMITTER	0-400 bar 4-20 mA P<40		TO FM SYSTEM FOR MONITORING. ALARM TO CONTROL PANEL WHEN P<40 BAR. DELAYED 5 SEC.
PT2	PROTECTION PRESSURE LOW	PRESSURE TRANSMITTER	0-16 bar 4-20 mA	P<1.5	ALARM TO CONTROL PANEL WHEN P<1.5 BAR. DELAYED 30 SEC.
	CLOGGED MAIN FILTER			P>6	ALARM IF OIL TEMP. >30° AND, P>6 BAR DELAYED 5 SEC.
TT1	HYDRAULIC OIL TEMP	TEMPERATURE TRANSMITTER	0-100°C 4-20 mA		ALARM 60°C, UNLOADED 2 POWER PACK AT 65°, AND TO FM SYSTEM FOR MONITORING
LT1	HYDRAULIC OIL LEVEL	PRESSURE TRANSMITTER	0-100 mbar 4-20 mA	93 mbar 58 mbar 43 mbar	LEVEL HIGH ALARM DELAYED 5 SEC. LEVEL LOW ALARM DELAYED 5 SEC. INHIBIT START UP. LEVEL LOWLOW SYSTEM SHUT DOWN DELAYED 2 SEC.
LI1	LOCAL LEVEL INDICATION		4-20 mA 0-100%		IN JUNCTION BOX
XY1-3	ENERGIZED DURING START UP OF EL. POWER PACK	SOLENOID VALVE	0-315 bar		DELAYED 10 SEC. AFTER EL. POWER PACK HAS STARTED.
PCV1	MAIN PRESSURE CONTROL VALVE	PROP. PRESSURE RELIEF VALVE	13-320 bar		RAMP TIME 10 SEC.
LSH1	HPU OIL LEAKAGE	LEVEL SWITCH			ALARM TO CONTROL PANEL WHEN SWITCH IS CLOSED
ZS21	HPU SHIELDING	LIMIT SWITCH			ALARM TO CONTROL PANEL WHEN HYDRAULIC SHIELD IS OPEN

NOZZLE CONNECTIONS		
	SIZE	SERVICE
N1	DN80 FRAMO	MAIN PRESSURE CONNECTION
N2	DN80 PN16	MAIN RETURN CONNECTION
N3	DN65 PN16	COOLING WATER OUT
N4	DN65 PN16	COOLING WATER INN
N5	G 3/4 FEMALE	DIRTY OIL DRAIN
N6	DN50 FRAMO	OVERFLOW CONNECTION
N7	DN50 FRAMO	RETURN SPARE
N8	DN40 PN16	CLEAN OIL DRAIN
N9	G1/2	DRIP TRAY DRAIN



			Permissible deviations for dimensions without a tolerance indication								Item Qty		Id. no		Description		Drg. no./Type		Material	
Dim & tolerance	Upper limit	Lower limit	Linear dimension of an angle		Machined Tolerance		Welded Tolerance		This drawing is our property. It is not to be traced, copied or published without our written consent, nor to be misused in any way.	Status	Sign.	Date		Frank Mohn AS						
			over	to	linear	angle	linear	angle												linear
Permissible deviations for dimensions with a tolerance indication			6	30	± 0.1	± 0.5°	± 1	± 0.5°		Constr.	KrD	270ct04							Weld. drg./Cast. drg.	
Surface roughness in Ra (μm)			30	120	± 0.3	± 0.4°					Checked		HYDRAULIC DIAGRAM POWER UNIT 3 × A4V 250						Replaces:	
			120	315	± 0.5	± 0.8°	± 1.5	± 0.5°	0216-1254-1											
			315	1000	± 0.8	± 1.2°	± 2	± 0.8°												
			1000	2000	± 1.2	± 2°	± 3	± 1.2°												
Fill. & edg. not dim.	Filletts	Edges			2000	4000	± 2	± 0.2°	± 4°	R. Zone	R.O.no.	Sign./Date	Ctrl	Project. used	Original Scale	Prod. rel.	AT	270ct04	Replaced by:	
					8000															