


INSTRUMENT LIST					
INSTR. NO.:	APPLICATION:	INSTRUMENT TYPE:	RANGE/ RATING:	SET POINT:	FUNCTION/REMARKS:
M 1-5	DRIVER FOR MAIN HYDRAULIC PUMP	ELECTRIC MOTOR			
DE 1-3	DRIVER FOR MAIN HYDRAULIC PUMP	DIESEL ENGINE			
ZS 1-8	SUCTION VALVE POSITION	PROXIMITY SWITCH	OPEN / CLOSED		SHUT DOWN CORRESPONDING POWERPACK WHEN SWITCH IS OPEN. (VALVE NOT FULLY OPEN)
ZS 11	SERVICE VALVE POSITION	PROXIMITY SWITCH	OPEN / CLOSED		SHUT DOWN WHEN SWITCH IS OPEN. (VALVE NOT FULLY OPEN)
PT1	SYSTEM PRESSURE	PRESSURE TRANSMITTER	0-400 bar/4-20 mA	< 40	MONITORING DELAYED 5 sec
PT2	PROTECTION/FEED PRESSURE	PRESSURE TRANSMITTER	0-16 bar/4-20 mA		MONITORING
PT3	FEED PRESSURE LOW. ALARM	PRESSURE TRANSMITTER	0-16 bar/4-20 mA	< 4.0 bar	WHEN PP's RUN DELAY 20 sec
	FEED PRESSURE LOW LOW. ALARM AND SHUT DOWN HPU			< 2.0 bar	WHEN PP's RUN DELAYED 3 sec
	RETURN PRESSURE UPSTREAM FILTER				
TT1A	CLOGGED FILTER. ALARM	PRESSURE TRANSMITTER	0-16 bar/4-20 mA	PT3-PT2A > 2.5 bar	WHEN OIL TEMP >30°C DELAYED 5 min
	PROTECTION PRESSURE LOW. ALARM			< 2.0 bar	WHEN NO PP's RUN DELAY 30 sec
	PROTECTION PRESSURE CONTROL				
TT1B	HYDRAULIC OIL TEMPERATURE	TEMPERATURE TRANSMITTER	0-100°C/4-20 mA		MONITORING
XY 1-5	HYDRAULIC OIL TEMPERATURE HIGH. ALARM	TEMPERATURE TRANSMITTER	0-100°C/4-20 mA	> 60°C	DELAYED 2 sec
	UNLOAD POWER PACKS			> 65°C	RE-LOAD < 60°C
	HYDRAULIC OIL TEMPERATURE				
XY 6-8	COOLING WATER VALVE OPEN COMMAND	SOLENOID VALVE	0-280 bar	> 50°C	55°C, WHEN NO PP's RUN
PCV1	COOLING WATER VALVE CLOSE COMMAND			< 30°C	49°C, WHEN NO PP's RUN
	DEVIATION ALARM, $\Delta T_{1A-1B} \geq \pm 5^\circ C$				
XY 1-5	UNLOADING VALVE	SOLENOID VALVE	0-280 bar	OPEN	DELAYED 10 sec
XY 6-8	OPEN DURING START OF EL. POWERPACK	SOLENOID VALVE	0-280 bar	OPEN	DELAYED 3 min
PCV1	UNLOADING VALVE	SOLENOID VALVE	0-280 bar	OPEN	
XY 1-5	OPEN DURING START OF DIESEL. POWERPACK	SOLENOID VALVE	0-280 bar	OPEN	
XY 6-8	OPEN DURING COOL DOWN SEQUENCE	SOLENOID VALVE	0-280 bar	OPEN	
PCV1	MAIN PRESSURE SETTING	PROP. PRESSURE RELIEF VALVE	5-440 bar		RAMP TIME 15 sec
XS1-8	WEAR INDICATOR HYDRAULIC PUMPS	WEAR INDICATOR	OPEN / CLOSED	CLOSED	
LSH 1-2	PARTICLES ON SWITCH. ALARM	WEAR INDICATOR	OPEN / CLOSED	CLOSED	
LSH 1-2	LEAKAGE DETECTION	LEVEL SWITCH		ON / OFF	
LSH 1-2	LEVEL HIGH. ALARM	LEVEL SWITCH		ON / OFF	

NOZZLE CONNECTIONS		
	SIZE	SERVICE
N1A	DN100/110 FRAMO	MAIN PRESSURE CONNECTION
N1B	DN100/110 FRAMO	MAIN PRESSURE CONNECTION
N2	DN200 PN16	MAIN RETURN
N3	DN125 PN16	COOLING WATER OUTLET
N4	DN125 PN16	COOLING WATER INLET
N5	G 1" FEMALE	FILTER DRAIN
N7	DN150 PN16	TO FEED PRESSURE RELIEF VALVE
N8x2	G ½" FEMALE	DRIPTRAY DRAIN
N10	DN65 PN16	DRAIN CONNECTION

* TO BE LOCKED IN OPEN POSITION

			Status	Sign.	Date	 HYDRAULIC DIAGRAM POWER UNIT	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. Replaces: 0216-2960-1 Replaced by:
			Constr.	SvB	03 Nov 17		
			Drawn by	JEOE	03 Nov 17		
			Checked	SvB	03 Nov 17		
			Prot. rel.				
R.	Description	Sign./Date	Prod. rel.	SvB	03 Nov 17		