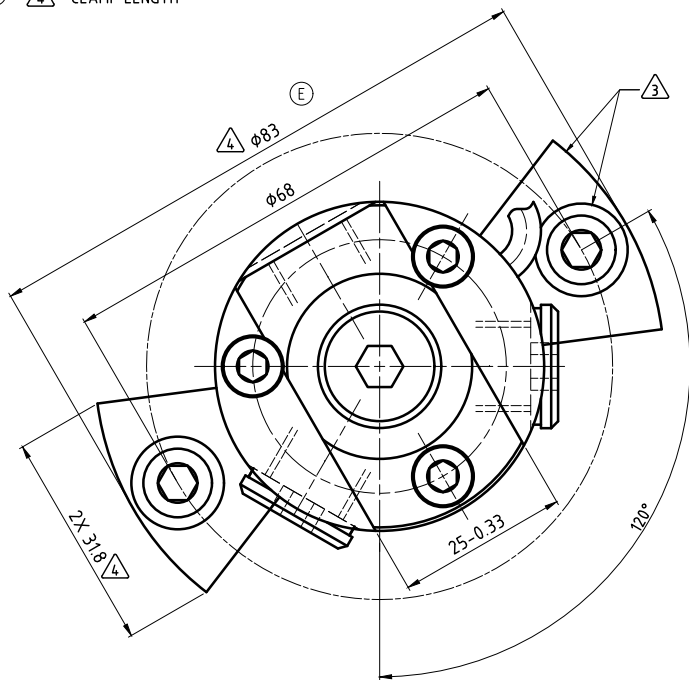
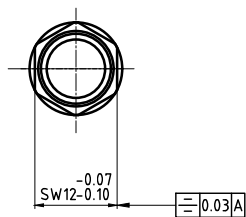


CONFIDENTIAL			
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Ø48	Ø6	-0.025	+0.025
Ø48	F7	-0.025	+0.025
12	D10	-0.025	+0.025
Ø11	F8	-0.025	+0.025
Dimen.	Fit		

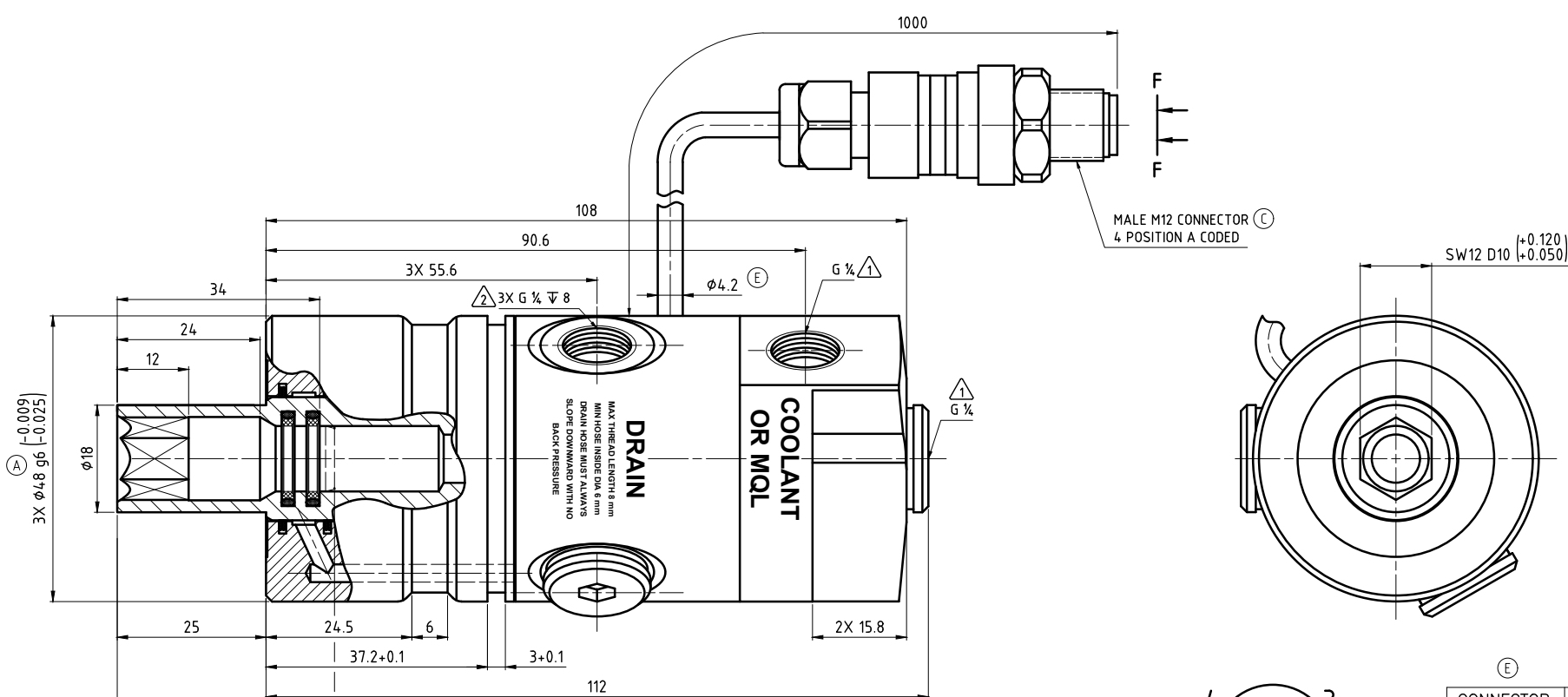
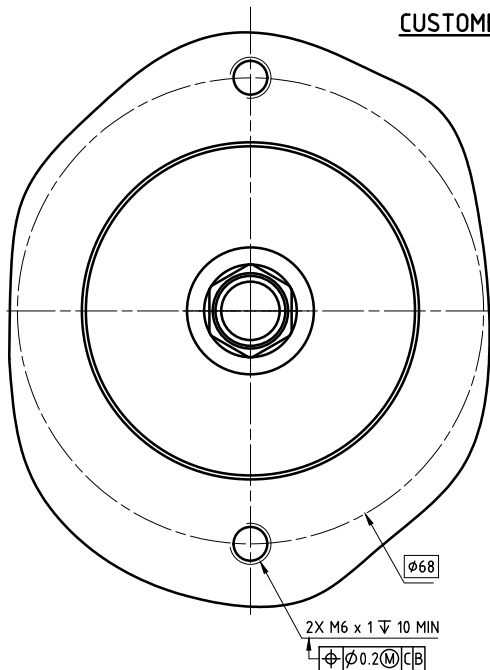
- NOTES:
- 1 - MEDIA SUPPLY PORT IS COMPLIANT WITH ISO 228 & ISO 1179. RECOMMENDED FITTING TIGHTENING TORQUE IS 15 Nm.
 - 2 - DRAIN PORT THREAD DEPTH IS SHORTER THAN REQUIREMENT FOR A STANDARD FITTING. DRAIN FITTING THREAD LENGTH CAN NOT EXCEED 8 mm.
 - 3 - 2X CLAMP & 2X SCREW M6x12 SUPPLIED BY DEUBLIN.
 - 4 - CLAMP LENGTH



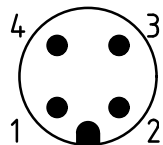
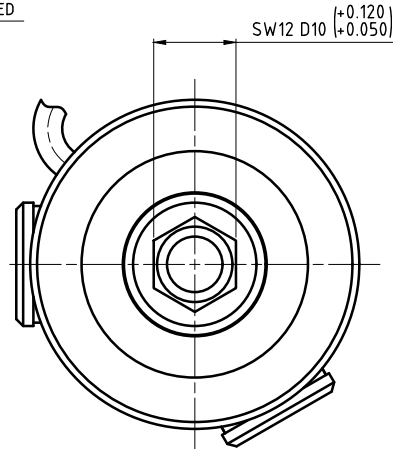
CUSTOMER SPINDLE END



CUSTOMER INTERFACE

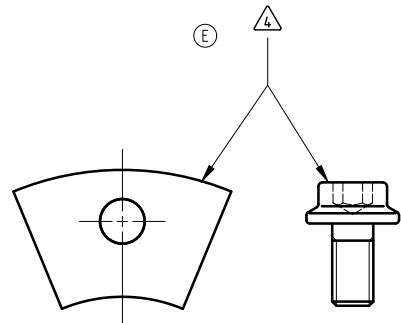
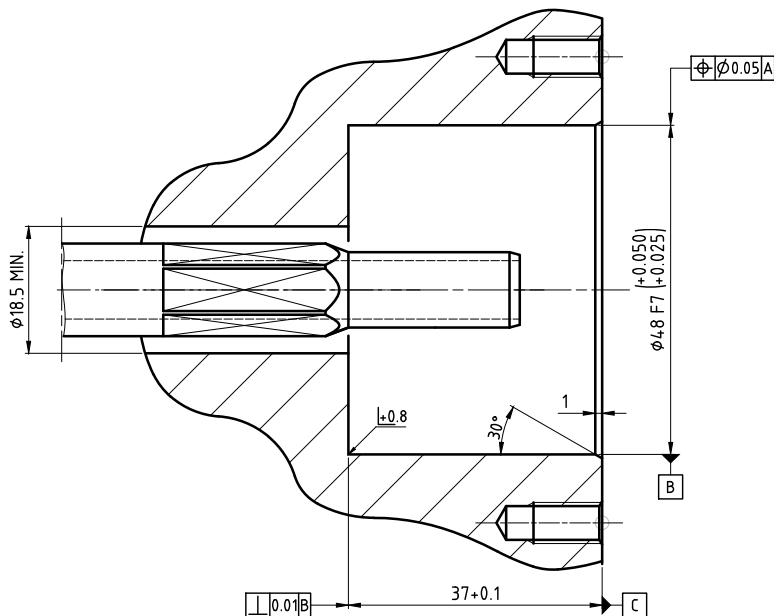
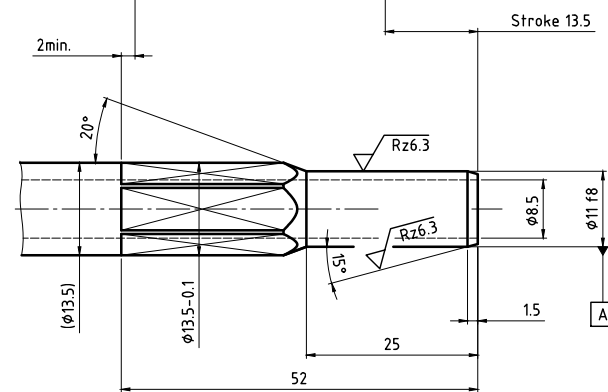


MALE M12 CONNECTOR 4 POSITION A CODED



F-F

CONNECTOR PIN	CABLE WIRE
PIN 1	+24 VDC - YELLOW
PIN 2	TEST - BROWN
PIN 3	GROUND - GREEN
PIN 4	SIGNAL - WHITE



PATENT #7,692,553

SPINDLESHIELD™ DATA			
OPERATING DATA	Vcc*	Test	Signal**
NORMAL OPERATION	+24 VDC	NOT CONNECTED	+24 VDC
LEAK DETECTED	+24 VDC	NOT CONNECTED	0 VDC
SENSOR TEST MODE	+24 VDC	CONNECTED TO GND	0 VDC
OPEN CIRCUIT SIGNAL WIRE	+24 VDC	NOT CONNECTED	0 VDC
OPEN CIRCUIT POWER WIRE	NOT CONNECTED	NOT CONNECTED	0 VDC
Recommended load current ≤ 50mA +24 VDC normal, 15 VDC minimum, 28 VDC maximum. **Signal wire output is Vcc minus 0.8 VDC minimum.			
OPERATING DATA			
MEDIA	COOLANT	MQL	
MEDIA PRESSURE	MAXIMUM 150 bar MINIMUM 1 bar	10 bar 1 bar	
FLOW RATE	MAXIMUM 24.3 L/min MINIMUM 1 L/min	1128 NL/min 160 NL/min	
TEMPERATURE	MAXIMUM 70 °C MINIMUM 5 °C	70 °C 5 °C	
MAXIMUM SPEED	24000 min ⁻¹	24000 min ⁻¹	
AXIAL FORCE	5.02 N/bar		
DRY RUN	UNPRESSURIZED ONLY		
RECOMMENDED FILTRATION	ISO 4406 CLASS 17/15/12		

DEUBLIN® Engineered for Performance			
E	ADD CLAMP REV DATA 05/1906	05/19	LG
D	UPDATE CLAMP DATA 05/04/17	01/19	LG
C	ADD CLAMP CONNECTOR 04/3640	08/17	DO
B	REVISED "MIN" 035017	02/16	TC
A	REVISED DIMENSION 034992	01/16	NR
A	WAS 100	01/14	LG
ISSUE	MODIFICATION	ECO	DATE
PROJECTION	SCALE: 2:1	MATERIAL:	INTERFACE CONTROL DRAWING
TITLE:	DEUBLIN UNION, POP OFF, LEAK SENSOR, 24k/min BORE-MOUNTED	NO.	1103-820-825
SHEET	A1		