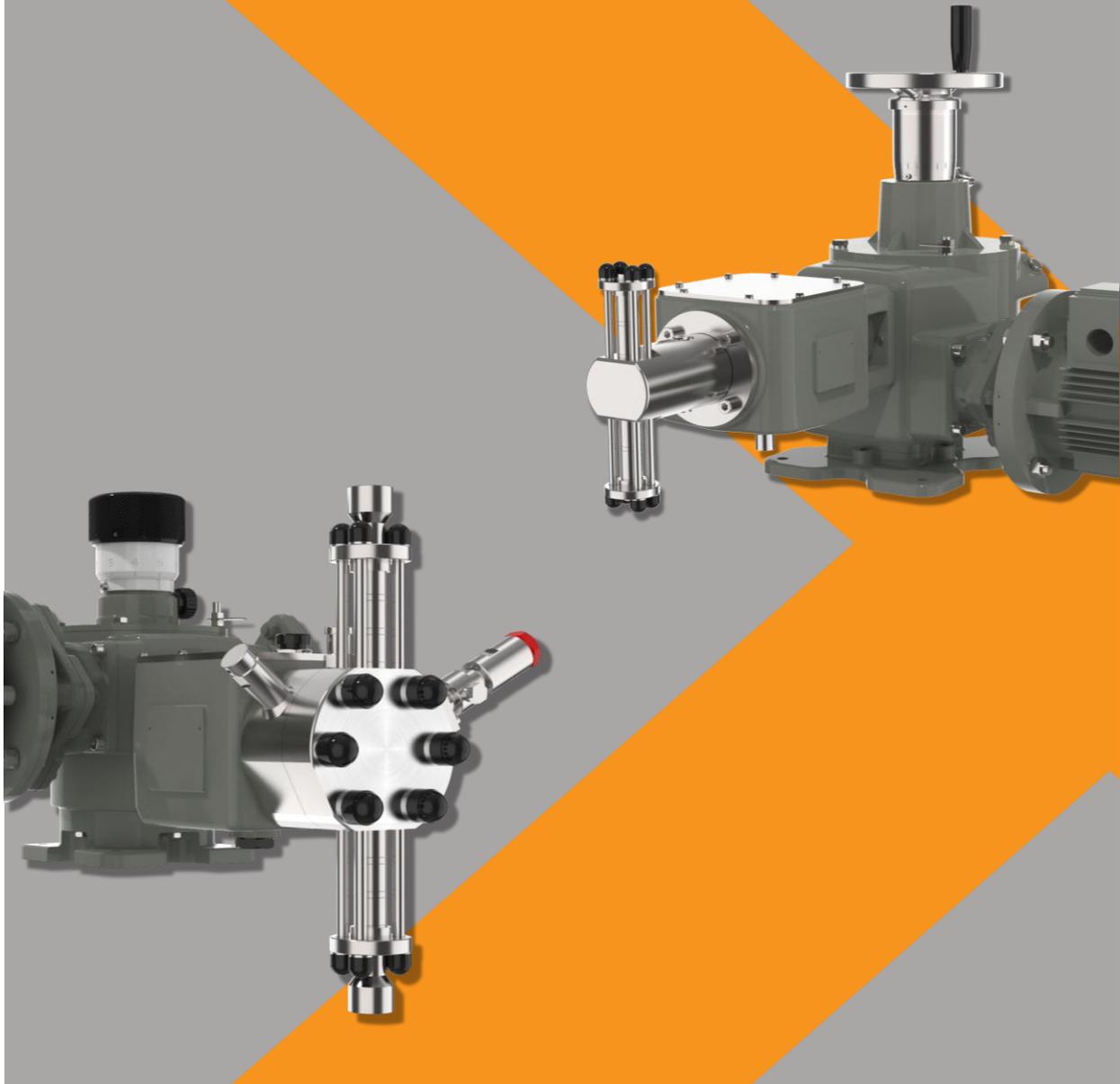


EXAKTA OFFER E-20012574
CUSTOMER: Axbul ltd
RFQ N°: -
PRJ: -
EPC: -
End User: -

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Positive Displacement Pumps Technical quotation

Revision	Date	Description	Issued	Checked / Approved
0	10/3/2026	Issued for Information	BNA	SCO / Eng. Dept.

DOSING PUMPS TAG.	-	EXAKTA OFFER NO.	E-20012574
PROJECT Name	-	CLIENT	Axbul ltd
PUMPS QUANTITY	1	PAG.	2 / 5

A	TECHNICAL DESCRIPTION	VENDORS	Q.ty	NOTES
CHEMICAL CHARACTERISTICS				
	Liquid name	H2O		
	Pumping Temperature [C°]	17		
	Ambient Temperature [C°]	18		
	Viscosity [cP]	-		
	Specific Gravity	-		
DESIGN OF CONSTRUCTION :				
	TYPE:	Double_Diaphragm		
	MODEL:	1Y30N12FB***	1	Some model letters may change during detailed engineering. However performances will not change
	NUMBER OF HEAD :	1		
OPERATING CONDITIONS (by Customer) :				
	Min Flow Rates [l/h]	-		
	Working Flow Rates [l/h]	-		
	Max Flow Rates [l/h]	-		
	Rated Flow Rates [l/h]	57		
	Suction Pressure [barg]	1		
	Working Pressure [barg]	25		
	External PSV set point/Max pressure [barg]	29		External PSV set point shall be confirmed by customer
PUMP PERFORMANCE (by EXAKTA design) :				
	Predicted pump rated Flow Rate string [l/h] / Turn Down Ratio	62.1 @ 25 barg @ 50 Hz	1 : 10	
	Pump MAWP [barg]	40		
	Pump Internal overpressure valve set [barg]	40		
MECHANICAL CHARACTERISTICS				
	Stroke Adjustment	Electric 0 - 100% of Stroke length		
	Stroke Adjustment Power&Utility supply / Pilot Signal / Feedback signal	0 - 230 VAC/50-60Hz/	4-20mA (NO HART)	4-20mA (NO HART)
	Pumps SPM	63	50 Hz	
	Stroke lenght [mm] / Noise Level	25	< 85 dB	
	Plunger Diameter [mm] / Brake Power at MAWP [kW]	30	0.401	
	NPSHa [m.l.c.] / NPSHr [m.w.c.]	>10 mwc	5	
PUMP CONNECTIONS				
	Suction / Discharge	1/2" NPT F	1/2" NPT F	Process connections will be flanged. Internal connection of OEM equipment may be threaded.
PUMP VALVES				
	Suction / Discharge	double ball	double ball	
PUMP WETTED PARTS				
	Material Wetted Parts (Head / Valves/Valve seat/Diaphragms)	AISI 316L / AISI 316L / AISI 316L / PTFE		
NON WETTED PARTS (mechanism)				
	Mechanism	Cast Iron		
	Hydraulic Chamber	Cast iron		
OTHERS				
	Diaphragms Rupture Detection System	LOCAL VISUAL INDICATOR STD. DEVICE		
	Baseplate	NO		
	Thermal Jacket (mechanism / head)	NO		
LOW VOLTAGE MOTOR:				
	ELECTRIC MOTOR	380 VAC	3 ph	50 Hz
	RATED POWER [kW] / POLES / SIZE / RPM / ORIENTATION :	0.75	6	71
	ELECTRIC MOTOR AREA CLASSIFICATION / IP GRADE (Motor/Terminal Box)	Ex-dB IIB T3	T.E.F.C.	IP55
	INVERTER USE / EFF. LVL / TROPICALIZATION	NO	IE3	NO
	MOTOR FRAME MATERIAL:	CAST IRON		
PAINTING:				
	MECHANISM HOUSING IN CAST IRON	Manufacturer Standard C4 Painting System RAL 7023, total dry thickness min 260 µm		NACE inspection not included. Holiday test not applicable
	PUMP HEAD	NOT APPLICABLE		
	ELECTRIC MOTOR	Manufacturer Standard C4 Painting System RAL 7023, total dry thickness min 260 µm		NACE inspection not included. Holiday test not applicable

EXAKTA CLARIFICATION LIST

1)	OUR QUOTATION INCLUDES MENTIONED COMPONENTS AND SERVICES ONLY, WHAT IS NOT MENTIONED IS TO BE CONSIDERED EXCLUDED; HOWEVER SHOULD YOU REQUIRE ADDITIONAL EQUIPMENT, WE SHALL REVISE OUR PROPOSAL ACCORDINGLY
2)	COSTS FOR FOR INSPECTORS AND/OR THIRD PARTY ARE NOT INCLUDED; IF WITNESSED TESTS ARE REQUIRED WE SHALL REVISE OUR QUOTATION. ACCESS TO OUR WORKSHOP FOR EXPEDITORS AND/OR CUSTOMER'S PERSONNEL CAN BE GRANTED AFTER PRIOR AGREEMENT
3)	UNLESS OTHERWISE AGREED, ALL TESTS WILL BE MADE AS PER OUR STANDARD PROCEDURES THAT WOULD BE SUBMITTED FOR APPROVAL
4)	SITE ERECTION, COMMISSIONING, SERVICE AND START UP ARE NOT INCLUDED IN OUR SCOPE OF SUPPLY; IF REQUIRED ANIMA TARIFF IN FORCE SHALL BE APPLIED
5)	NAME PLATES FOR THE PUMPS, MOTORS AND ACCESSORIES SHALL INCLUDE DATA AS PER MANUFACTURER STANDARD
6)	PLEASE CHECK THE NPSH/NPIP AVAILABLE WITH THE NPSH/NPIP REQUIRED. ACCELERATION HEAD NOT CONSIDERED UNTIL THE COMPLETE DATA FOR SUCTION LINE (OR ISOMETRIC DWG) ARE PROVIDED BY CUSTOMER IN ORDER TO PERFORM THE CALCULATION.
7)	SOUND LEVEL TEST IS NOT INCLUDED, EXAKTA SHALL ISSUE A DECLARATION ATTESTING THAT THE SOUND LEVEL OF THE EQUIPMENT DOESN'T EXCEED 85DB (A) AT 1 METER
8)	PLEASE CHECK CHEMICAL COMPATIBILITY OF PUMPED FLUID WITH WETTED PARTS MATERIALS. CUSTOMER IS INVITED TO UNDERLINE IF PROCESS FLUIDS ARE NOT COMPATIBLE WITH PROPOSED MATERIALS
9)	WHEN FLUSHING FOR PLUNGER PUMPS IS REQUIRED, CLEAN SOFT WATER ONLY SHOULD BE USED (APPLICABLE FOR PLUNGER PUMP ONLY)
10)	THE EQUIPMENT INCLUDING AUXILIARIES, BUT EXCLUDING NORMAL MAINTENANCE, SHALL BE DESIGNED AND CONSTRUCTED FOR A MINIMUM SERVICE LIFE OF 20 YEARS AND AT LEAST THREE YEARS OF UNINTERRUPTED OPERATION. IT IS RECOGNIZED THAT THESE REQUIREMENTS ARE DESIGN CRITERIA, AND THAT SERVICE OR DUTY SEVERITY, IMPROPER OPERATION OR MAINTENANCE CAN RESULT IN A MACHINE FAILING TO MEET THESE CRITERIA
11)	UNLESS OTHERWISE SPECIFIED, PAINTING SHALL BE CARRIED OUT ACCORDING TO EXAKTA STANDARD PROCEDURE AND FINAL COLOUR; STAINLESS STEEL PARTS WILL NOT BE PAINTED. ON DEMAND EXAKTA PROCEDURE WOULD BE SUBMITTED
12)	ALL DEBRIS, SOLID CONTENT ETC SHALL BE PROPERLY FILTERED WITH SUITABLE STRAINER (MAX PARTICLE SIZE 100 MICRON)
13)	ALL ACCESSORIES WILL BE SUPPLIED LOOSE UNLESS OTHERWISE AGREED
14)	U-STAMP IS NOT APPLICABLE TO PULSATION DAMPERS HAVING INTERNAL DIAMETER < THAN 6"; U-STAMP COST IS NOT INCLUDED IN OUR QUOTATION; CALCULATION SHEET ACCORDING TO ASME CODE CAN BE SUPPLIED AT EXTRA PRICE
15)	UNLESS EXPRESSLY REQUIRED SIZING AND CONSTRUCTION OF QUOTED PRV IS BASED ON EN ISO 4126-1 API 520 RP -AMSE VIII DIV 1 ONLY. PRVS ARE SPRING LOADED CONVENTIONAL TYPE ONLY (SUITABLE FOR ATMOSPHERIC BACK PRESSURE ONLY). API 526 IS APPLICABLE TO METALLIC, INTEGRALLY CASTED FLANGED PSV (MIN SIZE 1" X 2" ANSI # 150 RF); API 526 IS RARELY APPLICABLE TO EXAKTA PUMPS APPLICATIONS AND UNLESS SPECIFICALLY REQUIRED IS NOT CONSIDERED.)
16)	THE WELDING PARTS FOR FLANGES SHALL BE ACCORDING TO ASME IX. WELING FOR BASEPLATE SAHLL BE ACCORDING TO AWS.
17)	THE NACE INSPECTION FOR PAINTING IS NOT INCLUDED
18)	WETTED PARTS MATERIALS CERTIFICATE (EN 10204 3.1) DOES NOT INCLUDE NACE CERTIFICATE (MR 0103 OR MR 0175)
19)	THE 3.1 MATERIAL CERTIFICATE IS INCLUDED FOR WETTED PARTS ONLY. 3.1 FOR PRESSURE PARTS CAN BE INCLUDED IF EXPRESSLY REQUIRED BEFORE PO
20)	IMPACT TEST NOT SUPPLIED FOR PUMP OR BASEPLATE
21)	WHERE CONE VALVES ARE SUPPLIED, THEY ARE IN SINGLE TYPE AS STD. DOUBLE CONE VALVES OPTION MAY BE EVALUATED BY R&D DEPT. DEPENDING TO PUMP MODEL AND APPLICATION
22)	ELECTRIC STROKE ADJUSTMENT ENCLOSURES WILL BE PROVIDED ALLUMINIUM MADE AND PAINTED AS PER MFR STD ONLY. SAFE AREA ELECTRIC STROKE ADJUSTMEN ENCLOSURES MAY BE PROVIDED IN PLASTIC (NOT PAINTED)
23)	EXAKTA MOTOR STD. INSTALLATION IS ON THE RIGHT SIDE OF THE PUMP, VIEWED FROM THE BACK. DIFFERENT ORIENTATION SHALL BE DEFINED BEFORE PO. ANY ORIENTATION CHANGES REQUIRED AFTER PO SHALL BE SUBJECTED TO COMMERCIAL IMPACT.
24)	VACUUM PRESSURE IMPREGNATION (VPI) IS NOT AVAILABLE FOR LV MOTORS
25)	PICKLING AND PASSIVATION FOR SS PARTS IS NOT INCLUDED: IF REQUIRED EXTRA COSTS AND EXTRA 4 WEEKS DELIVERY WILL BE APPLIED.
26)	IF 3.2 CRT IS REQUIRED, EXAKTA WILL SUPPLY A CONVERSION OF 3.1 MATERIAL TEST REPORTS TO 3.2 EQUIVALENT TEST REPORTS INCLUDING CHEMICAL ANALYSIS AND MECHANICAL TEST MADE BY A THIRD PART SELECTED BY EXAKTA (REVIEW ONLY, NOT WITNESS)



**STD. MOTOR INSTALLATION
REF TO POINT 23)**

EXAKTA CLARIFICATION AND DEVIATION LIST TO API STANDARD 675

1)	BASIC DESIGN - GENERAL	6.1.2	THE FOLLWING COMPONENTS ARE DESIGNED FOR FINITE LIFE: BEARINGS, DIAPHRAGMS, GASKETS, BALLS AND SEATS FOR SUCTION AND DISCHARGE CHECK VALVES, HYDRAULIC DEVICES MOUNTED ON HYDRAULIC CHAMBER, OVERPRESSURE VALVE SHUTTER, WORM AND SHAFT OF REDUCER
2)	BASIC DESIGN - GENERAL	6.1.12	REMOVABLE SPOOL PIECES ARE REQUIRED TO FACILITATE EASY CHECK VALVE REMOVABILITY, TO REDUCE THE MAINTENANCE TIME AND INCREASE THE SAFETY CONDITIONS
3)	BASIC DESIGN - GENERAL	6.1.20	MINIMUM DIFFERENTIAL PRESSURE REQUIRED 0,5 BARG
4)	BASIC DESIGN - PRESSURE CONTAINING PARTS	6.2.7	HEXAGONAL HEAD AND SOCKET HEAD SCREWS ARE USED WHERE THE SPACE IS NOT ENOUGH TO GUARANTEE A SAFE CONDITIONS FOR THE MAINTENACE ACTIVITIES
5)	ACCESSORIES - COUPLINGS AND GUARDS	7.2.2.2	EXAKTA PROVIDE FULL API 671 FLEXIBLE COUPLING IN CASE OF B3 MOTOR FRAME DESIGN, IN ANY CASE THE REQUIREMENTS HAS TO CLEARLY SPECIED IN OFFERED PHASE. LENGTH WILL BE ACCORDING TO THE AVAILABLE SPACE INSTALLATION FOR PUMP, NO AS FOR API 671 REQUIREMENTS
6)	COUPLING AND GUARDS	7.2.11	NOT APPLICABLE. COUPLING GUARDS ARE INTEGRAL PART OF THE MECHANISM HOUSING.
7)	INSPECTION, TESTING, AND PREPARATION FOR SHIPMENT	8.3.1.1	TESTS TO CARRY OUT ARE IN COMPLIANCE WITH EXAKTA ITP (NEXT PAGE) OR PURCHASER ITP (IF PREVIOUSLY AGREED)
8)	INSPECTION, TESTING, AND PREPARATION FOR SHIPMENT	8.3.4.1	SECTION 3.6 OF HI PUMP STANDARD APPLIES TO ROTARY PUMPS, SECTION 7.6 APPLIES TO CONTROLLED VOLUME PUMPS, FOLLOWING THE MAIN DEFINIIONS ON HI SECTION 7.1-7.5
9)	INSPECTION, TESTING, AND PREPARATION FOR SHIPMENT	8.4.3.5 & 8.4.3.6	FLANGED AND THREADED OPENINGS ARE PROVIDED WITH PLASTIC CLOSURE OR CAPS/PLUGS AS PER EXAKTA STD, METAL CLOSURES CAN BE OFFERED AS AN OPTION

DOC. N° -ITP-000

INSPECTION TEST PLAN (ITP)



CUSTOMER:
PURCHASE ORDER N°:
PROJECT:
EXAKTA JOB N°:
CLIENT DOC.N°:
SCOPE OF SUPPLY:

A For Approval
M Monitoring
R Review
SW Spot Witness
W Witness

LEGENDA :
H Hold Point

Rev.	Date	PRP	CHK	APP

STEP	ACTIVITY	REFERENCE DOCUMENTS	PLACE OF INSPECTION	DOCUMENT REPORT	EXAKTA			Customer			END USER			NOTES
					Test	Date	Sign.	Test	Date	Sign.	Test	Date	Sign.	
1.0 GENERAL														
A	Drawing and Data Sheet review	Data Sheet - API 675 - Job specification	EXAKTA	Approved DWGs & Data Sheet	A			A			A			
B	Test Procedure	Job specification	EXAKTA	Approved Procedures	A			A			A			
1.4 PUMP MATERIALS														
A	Material Certificates Review	EN 10204 3.1 - Approved DWGs - Data Sheet	EXAKTA	Material Test Certificates	H			R			R			MTC 3.1 only SS wetted parts
2.1 TESTS														
B	Performance Test (10 Points)	Approved Procedure - API 675	EXAKTA	Performance Test Report	H			R			R			
3.0 FINAL DOCUMENTATION														
A	Document collection	P.O. - Job specification - Final Book Index	EXAKTA	Document collection	H			R			R			
B	Installation, Operating Manual review	EXAKTA S.p.A. STD	EXAKTA	Installation, Operating Manual review	H			R			R			

GENERAL NOTES

The tests will be according to our Procedures

TPI is not included and shall be considered, if required, at customer charge

2.2 crt will be supplied where available only (Joint flanges, Crankase, pump support, motor flange, head support). Certificate of compliance can be supplied as alternative

PROPOSED DOCUMENT LIST

DESCRIPTION	PRODUCT	INFORMATION (I) APPROVAL (A)	FORMAT	WEEKS AFTER P.O.
Document list	JOB	I	EXAKTA	2 W
Inspection and Test Plan (ITP)	JOB	I	EXAKTA	3 W
Pump data sheet	PUMP	I	EXAKTA	6 W
Pump general arrangement drawing (2D)	PUMP	I	EXAKTA	6 W
Head-mechanism sectional drawing with part list for dosing pumps	PUMP	I	EXAKTA	6 W
Nameplates drawing for all equipment (usually included in GA drawings)	PUMP	I	EXAKTA	6 W
Use and maintenance pump manual	PUMP	I	EXAKTA	DELIVERY
Packing list	PUMP	I	EXAKTA	DELIVERY
Dosing pump performance test procedure	PUMP	I	EXAKTA	4 W
Dosing pump performance test certificate	PUMP	I	EXAKTA	DELIVERY
Hydrostatic test procedure	PUMP	I	EXAKTA	4 W
Hydrostatic test certificate	PUMP	I	EXAKTA	DELIVERY
CE Pump certificate	PUMP	I	EXAKTA	DELIVERY
Painting procedure	PUMP	I	EXAKTA	4 W
Painting certification	PUMP	I	EXAKTA	DELIVERY
Document Collection	JOB	I	EXAKTA	DELIVERY + 1 W