

DAIS-0348-08.04.14

БУРГАСНЕФТЕПРОЕКТ

DOSING PUMP DATASHEET

1	Note	Rev
2	Applicable to: ☒ PROPOSAL ☒ PURCHASE ☐ AS BUILT	
3	For: SC PETROTEL-LUKOIL SA	Unit: HPM
4	Site: PLOIESTI	No. of pumps required: 06-P17 A.R.
5	Service: Dosing Pump	Size and type: Diaphragm Pump
6	Manufacturer:	Serial no:
7		
8	NOTE: ☐ Indicates information to be completed by purchaser ☒ By manufacturer	
9	General	
10	No Motor driven:	Other driver type:
11	Pump item no's:	Pump item no's:
12	Motor provided by:	Driver item no's:
13	Motor mounted by:	Driver provided by:
14	Motor data sheet no.:	Driver mounted by:
15	Motor item no's:	Driver Data sheet No:
16	Operating conditions	
17	Capacity @ PT (l/h):	Liquid
18	Maximum 200 Minimum 20 Rated	Type or name of liquid: Lubricity Additive
19	Discharge pressure (kPa)(BARG):	Pumping temperature (°C):
20	Maximum 9 Minimum 6	Normal 40 Max Min
21	Suction pressure (kPa)(BARG):	Specific gravity: Max Min 0.92
22	Maximum 1 Minimum 1	Specific heat: Cp (Kj/kg °C)
23	Differential pressure (kPa)(BARG):	Viscosity (Cp): Max Min 30
24	Maximum 8 Minimum 5	Corrosive/Erosive agents: No
25	NPSH Available (m):	Chloride concentration (PPM):
26	without acceleration head Actual 3.2	H2S concentration (PPM):
27	Turndown ratio	Liquid ☒ Toxic ☒ Flammable ☐ Other
28	Performance	
29	No. of feeds Rated capacity (m3/h)	Site and utility data
30	NPSH required (m)	Location ☐ Indoor ☒ Outdoor
31	BHP rated at relief setting	Heated ☐ Unheated ☐ Under roof
32	Plunger speed (stroke/min) Design max	Electrical area class T3 Group IIA Div
33	Diameter (mm) Length of stroke (mm)	Winterization reqd ☐ Tropicalization reqd
34	Pump head	Site data
35	Max pressure (kPa)(BARG)	Range of ambient temps: min/max -30 / 40 °C
36	Hydro test pressure (kPa)(BARG)	Dust ☐ Fumes ☐ Salt Atmosphere
37	Max disch press W/job driver (kPa)(BARG)	Other
38	Max BHP basis gear strength	Utility conditions
39	Construction	Electricity Drivers Heating Control Shutdown
40	Connections	Voltage 230
41	Suction	Hertz 50
42	Discharge	Phase 1
43	Flush	Cooling water Inlet Return Design Max Δ
44	Liquid End	Temp °C
45	Type	Press (kPa)(BARG)
46	Diaphragm DIA (IN)	Source
47	Valves/Feed	Instrument air Max Min
48	Type	Pressure (kPa)(BARG)
49	Number	Applicable specifications:
50		API 675 positive displacement pumps - controlled volume
51		Governing specification (If different)
52	Remarks	
53		

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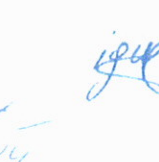
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1 Note		Rev	
2 ☐ Materials		Controls	
3 Liquid end		Type :	
4 Contour plate		☒ Manual ☐ Remote ☐ Pneumatic ☐ Automatic ☐ Local ☐ Electronic	
5 Hydraulic Diaphragm		Stroke Control :	
6 Process Diaphragm		Pneumatic (kPa)(BARG)	
7 Plunger		Min _____ Max _____	
8 Lantern Ring		Electronic(mA)	
9 Packing Gland		Min _____ Max _____	
10 Valve		Other Purchase Requirements	
11 Valve Seat		Nameplate units ☐ Customary ☒ SI	
12 Valve Guide		☐ Vendor Furnished Process Piping	
13 Valve Body		☐ Vendor Review Piping Drawings	
14 Valve Gasket		☐ Vendor Furnished Pulsation Suppression Device	
15 Frame		☐ Vendor Furnished Relief Valve	
Special Material Tests(2.13.1.3)		☐ Internal ☐ External	
☐ Low Ambient Temperature Materials Tests(2.13.5)		☐ Relief Valve Setting(kPa)(BARG)	
17 QA Inspection And Test		☐ Vendor Furnished Back-Pressure Valve	
18 ☐ Compliance With Inspectors Check List		☐ Double Check Valves Required	
19 ☐ Certification Of Materials		☐ Oil-Filled Pressure Gauger Required	
20 ☐ Final Assembly Clearances		☐ Vendor Furnished Control Panel	
21 ☐ Surface And Subsurface Examinations		☐ Baseplate Prepared For Epoxy Grout	
22 ☐ Radiography		☐ Provide Technical Data Manual	
23 ☐ Ultrasonic		☐	
24 ☐ Magnetic Particle		☐	
25 ☐ Liquid Penetrant		☐	
26 ☐ Cleanliness Prior To Final Assembly		Preparation For Shipment	
27 ☐ Hardness Of Parts, Welds&Heat Affected Zones		☐ Domestic ☐ Export ☐ Export Boxing	
28 ☐ Furnish Procedures For Optional Tests		☐ Outdoor Storage More Than 6 Months	
29 Tests		Weights(LBS)	
30 Hydrostatic Req'd Wit Obs		☒ Pump ☐ Base ☐ Gear ☐ Driver	
31 Steady State Accuracy • • •		Drivers	
32 Repeatability • • •		☒ Motor:	
33 Linearity • • •		☐ Manufacturer	
34		☐ Type	
35		☐ Frame No	
36 Lubrication Fluid		☐ Constant Speed	
37 ☐ Crankcase ☐ Intermediate		☐ Variable Speed	
38 ☐ Hydraulic Fluid		☒ kW 45 RPM 1425	
39		☒ Volts 320 Phase 1	
40 Accessories		☒ Hertz 50 Service Factor	
41 ☐ Speed Reducer Manufacturer		☐ Other (See Separate Data Sheets)	
42 ☐ Integral ☐ Separate		☐ Gas Driven	
43 Model		☐ Steam Turbine	
44 Ratio		☐ Other (See Separate Data Sheets)	
45 ☐ Baseplate under			
46 ☐ Coupling Manufacturer			
47 ☐ Type			
48 Remarks			










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БУРГАСНЕФТЕПРОЕКТ

DOSING PUMP DATASHEET

1	Note	Rev
2	Applicable to	• PROPOSAL • PURCHASE • AS BUILT
3	For:	SC PETROTEL-LUKOIL SA
4	Site:	PLOIESTI
5	Service:	Dosing Pump
6	Manufacturer:	
7	Unit:	HPM
8	No. of pumps required:	06-P18 A,R
9	Size and type:	Diaphragm Pump
10	Serial no.:	
11	NOTE: ☐ Indicates information to be completed by purchaser ☒ By manufacturer	
12	General	
13	No. Motor driven:	Other driver type:
14	Pump item no's:	Pump item no's:
15	Motor provided by:	Driver item no's:
16	Motor mounted by:	Driver provided by:
17	Motor data sheet no.:	Driver mounted by:
18	Motor item no's:	Driver Data sheet No:
19	Operating conditions	
20	Capacity @ PT (l/h):	• Liquid
21	Maximum 200 Minimum 20 Rated	• Type or name of liquid: Cetane Ratio Additive
22	Discharge pressure(kPa)(BARG):	• Pumping temperature (°C):
23	Maximum 9 Minimum 6	Normal 20 Max Min
24	Suction pressure (kPa)(BARG):	• Specific gravity: Max Min 0.96
25	Maximum 1 Minimum 1	• Specific heat: Cp(KJ/kg °C)
26	Differential pressure (kPa)(BARG):	• Viscosity (Cp): Max Min 1.6
27	Maximum 8 Minimum 5	• Corrosive/Erosive agents: No
28	NPSH Available (m):	• Chloride concentration (PPM):
29	without acceleration head Actual 3.2	• H2S concentration (PPM):
30	Turndown ratio	Liquid • Toxic • Flammable • Other
31	Performance	
32	☐ No. of feeds Rated capacity(m3/h)	Location ☐ Indoor • Outdoor
33	☐ NPSH required (m)	☐ Heated ☐ Unheated ☐ Under roof
34	☐ BHP rated at relief setting	• Electrical area class T3 Group IIA Div
35	☐ Pluger speed(stroke/min) Design max	☐ Winterization reqd ☐ Tropicalization reqd
36	☐ Diameter(mm) Length of stroke(mm)	Site data
37	☐ Pump head	• Range of ambient temps: min/max -30 / 40 °C
38	☐ Max pressure(kPa)(BARG)	• Dust ☐ Fumes ☐ Salt Atmosphere
39	☐ Hydro test pressure(kPa)(BARG)	☐ Other
40	☐ Max disch press W/job driver(kPa)(BARG)	• Utility conditions
41	☐ Max BHP basis gear strength	Electricity Drivers Heating Control Shutdown
42	Construction	
43	Connections	Size ANSI Rating Facing Position
44	Suction	Dn 20 150 RF TOP
45	Discharge	Dn 20 150 RF TOP
46	Flush	
47	Liquid End	☐ Jacket req'd
48	Type	☐ Diaphragm ☐ Plunger
49	☐ Diaphragm DIA(IN)	
50	☐ Valves/Feed	Suction Discharge
51	Type	
52	Number	
53	Remarks	
54	DATASHEET No 068-HPM-06-CT-SE-05-00 Rev 0 SHEET 1 of 2	

1	Note				Controls			
2	☐ Materials							
3	Liquid end				Type :			
4	Contour plate				☒ Manual ☐ Remote ☐ Pneumatic			
5	Hydraulic Diaphragm				☐ Automatic ☐ Local ☐ Electronic			
6	Process Diaphragm				Stroke Control :			
7	Plunger				Pneumatic (kPa)(BARG)			
8	Lantern Ring				Min _____ Max _____			
9	Packing Gland				Electronic(mA)			
10	Valve				Min _____ Max _____			
11	Valve Seat							
12	Valve Guide							
13	Valve Body				Other Purchase Requirements			
14	Valve Gasket				Nameplate units ☐ Customary ☒ SI			
15	Frame				☐ Vendor Furnished Process Piping			
16	Special Material Tests(2.13.1.3)				☐ Vendor Review Piping Drawings ☐ Vendor Furnished Pulsation Suppression Device ☐ Vendor Furnished Relief Valve ☐ Internal ☐ External			
17	☐ Low Ambient Temperature Materials Tests(2.13.5)				☐ Relief Valve Setting(kPa)(BARG)			
18	QA Inspection And Test				☐ Vendor Furnished Back-Pressure Valve ☐ Double Check Valves Required ☐ Oil-Filled Pressure Gauger Required ☐ Vendor Furnished Control Panel ☐ Baseplate Prepared For Epoxy Grout ☐ Provide Technical Data Manual			
19	☐ Compliance With Inspectors Check List							
20	☐ Certification Of Materials							
21	☐ Final Assembly Clearances							
22	☐ Surface And Subsurface Examinations							
23	☐ Radiography							
24	☐ Ultrasonic							
25	☐ Magnetic Particle							
26	☐ Liquid Penetrant							
27	☐ Cleanliness Prior To Final Assembly							
28	☐ Hardness Of Parts, Welds&Heat Affected Zones							
29	☐ Furnish Procedures For Optional Tests							
30	Tests	Req'd	Wit	Obs	Preparation For Shipment			
31	Hydrostatic	☒	☐	☐	☐ Domestic ☐ Export ☐ Export Boxing			
32	Steady State Accuracy	☒	☐	☐	☐ Outdoor Storage More Than 6 Months			
33	Repeatability	☒	☐	☐				
34	Linearity	☒	☐	☐				
35		☐	☐	☐				
36		☐	☐	☐				
37	Lubrication Fluid				Weights(LBS)			
38	☐ Crankcase ☐ Intermediate				☒ Pump ☐ Base ☐ Gear ☐ Driver			
39	☐ Hydraulic Fluid							
40	Accessories				Drivers			
41	☐ Speed Reducer Manufacturer				☒ Motor:			
42	☐ Integral ☐ Separate				☐ Manufacturer			
43	Model				☐ Type			
44	Ratio				☐ Frame No			
45	☐ Baseplate under				☐ Constant Speed			
46	☐ Coupling Manufacturer				☐ Variable Speed			
47	☐ Type				☒ kW _____ 45 _____ RPM _____ 2820 ☒ Volts _____ 320 _____ Phase _____ 1 ☒ Hertz _____ 50 _____ Service Factor _____			
48	Remarks				☐ Other (See Separate Data Sheets) ☐ Gas Driven ☐ Steam Turbine ☐ Other (See Separate Data Sheets)			



