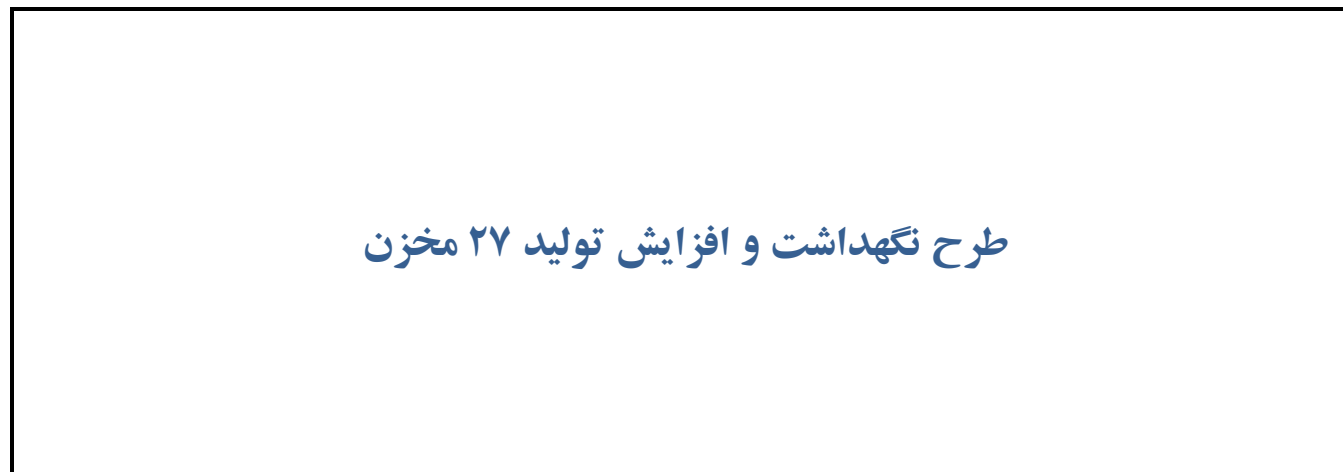


 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشار گاز بینک (قرارداد BK-HD-GCS-CO-0023_00)							 مکرت تپه تهران  Kalaye Pump Co.
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	GAD FOR FIRE WATER JOCKEY PUMPS							شماره صفحه : ۱ از ۳
	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	
	BK	GCS	KP	120	ME	DW	0003	
							V00	



V00	DEC. 2024	IFA	Kalaye Pump	M.Fakharian	S.Faramarzpour	
Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Status: IFA: Issued for Approval IFI: Issued for Information AFC: Approved for Construction
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 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشار گاز بینک (قرارداد BK-HD-GCS-CO-0023_00)							 HIRGAN ENERGY شرکت توسعه و پیمانکاری Kalaye Pump Co.	
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	GAD FOR FIRE WATER JOCKEY PUMPS							شماره صفحه: ۲ از ۳	
	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
	BK	GCS	KP	120	ME	DW	0003		V00

REVISION RECORD SHEET

PAGE	V00	V01	V02	V03	V04
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Electrical Comment:
1- Control panel for jockey pumps shall be shown in this document.

KPC Reply:
Control panel with detail specification
is submitted in document no.
BK-GCS-KP-120-IN-DW-0003.

Part List		
Item	Description	Qty.
01	PUMP	1
02	Electro Motor	1
03	Skid	1
04	Coupling	1
05	Coupling Cover (Al.)	1
06	Skid Lifting Lug	4
07	Skid Drain Pan	1
08	Skid Grout Hole	3
09	Skid Air Hole	3
10	Skid Jacking Screw	6
11	Skid Earth Lug	2
12	Oil Filling	1
13	Casing Drain Valve, 1/2"	1
14	Oil Drain	1
15	Oil Sight Glass	1
16	Constant Level Oiler	1

1. All dimension are in millimeter.
2. Flange faces are in accordance with ASME B16.5 for diameter 24" or less and ASME B16.47 series 'A' for 26" and above.
3. Tolerances for general outline drawing are based on ASME Y14.5 Standard.
4. For maintenance, the heaviest pump part is casing cover which is 150 kg.
5. KPC volute pumps are self vent.
6. Pumps with Item no. P-2302 A/B are identical.
7. Mechanical seal plan is 11+61.
8. The skid drain pan shall be filled completely with non-shrinkage grout or similar. (G2)
9. All sensors and instrument for diesel pump is gathered in local control panel.
10. Each pump (diesel, electrical and jockey) includes one CRV 1"
11. All Items and instruments outside the pump baseplate, will be referenced in doc. no. BK-GCS-KP-120-IN-DW-0004.
12. Dynamic load acts in rotational direction on a plane perpendicular to pump shaft which contains total COG.

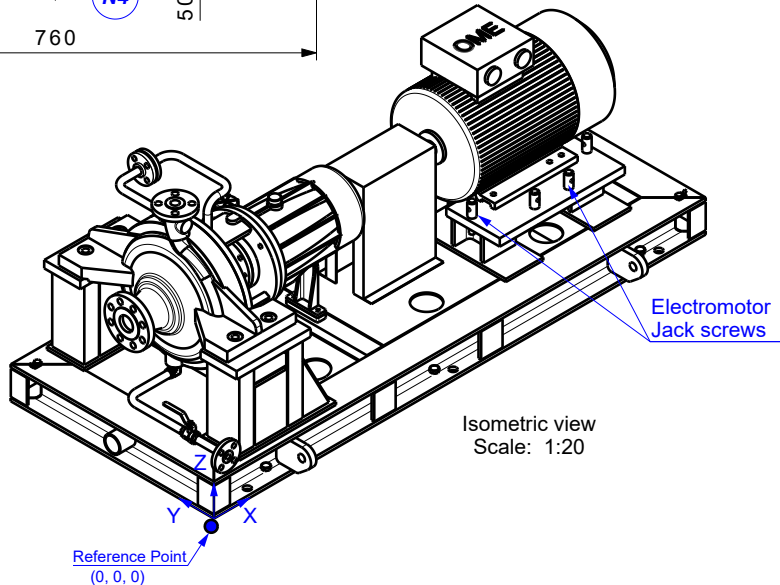
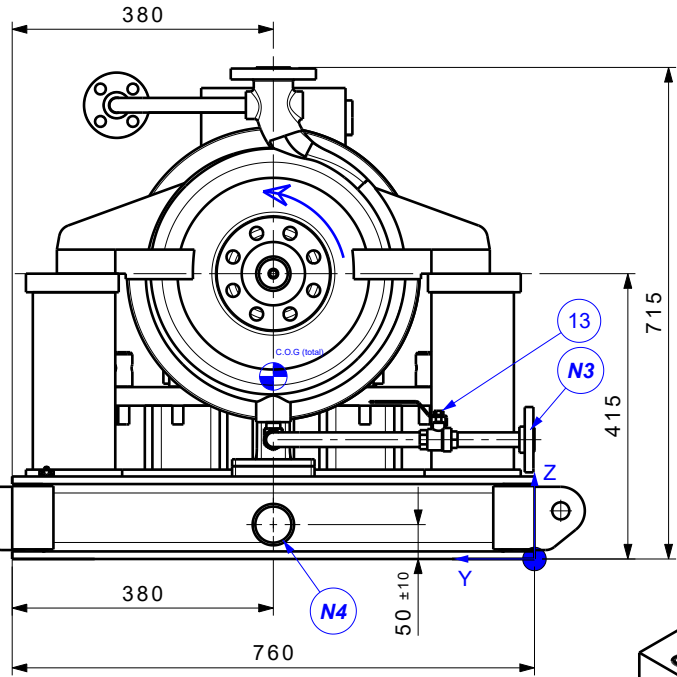
Item	Center of Gravity Coordinate		
	Gx	Gy	Gz
Pump	340.5	380.5	359
Driver	1543	380	465
Skid	988	380	138
Total	888	380	265.5

Static Load	Dynamic Load
7936 N	F=304 N

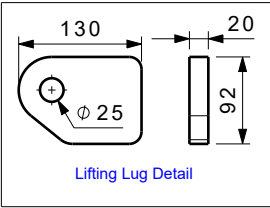
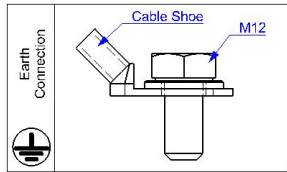
LEGEND

REFERENCE DRAWING	DRG. No.
DATA SHEETS (W/PERFORMANCE CURVE) FOR FIRE WATER JOCKEY PUMPS	BK-GCS-KP-120-ME-DS-0003
CROSS SECTIONAL DWG FOR FIRE WATER JOCKEY PUMPS	BK-GCS-KP-120-ME-DW-0007
COUPLING ASSEMBLY DWG FOR FIRE WATER JOCKEY PUMPS	BK-GCS-KP-120-ME-DW-0010
MOTOR DATA SHEET FOR FIRE WATER MAIN JOCKEY PUMPS	BK-GCS-KP-120-EL-DS-0002

KEY PLAN

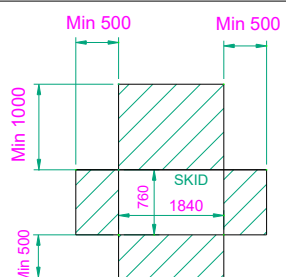
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Isometric view
Scale: 1:20



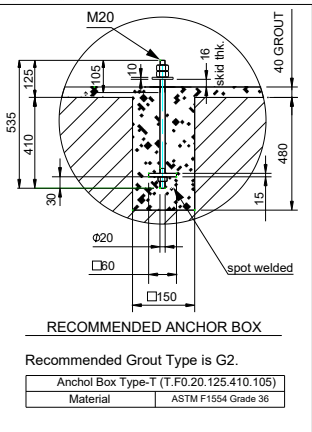
Volute OH2 2532 (7-5093)

Electric Motor Specificaion							
Manufacturer	Frame Size	Power	Speed	Protection	Frequency	Voltage	
OME	18.5	160	2950 rpm	Safe Area IP55	50 Hz	400 V	



NOZZLE TABLE							
<i>Item</i>	<i>Description</i>	<i>Type</i>	<i>Size</i>	<i>Qty.</i>	<i>Facing</i>	<i>Rating</i>	<i>Position</i>
N1	Suction	Flange	2"	1	RF	#300	End
N2	Discharge	Flange	1"	1	RF	#300	Top
N3	Casing Drain	Flange	1/2"	1	RF	#300	Side
N4	Skid Drain	Coupling	2"	1	Female Thread	Sch. 40	End
N5	Plan 11 Orifice	Flange	1/2"	2	RF	#300	End

External Force & Moments (2xAPI)							
	Fx	Fy	Fz	Mx	My	Mz	Resultant
	(KN)			(KNm)			
Discharge 1"	1.42	1.16	1.78	0.92	0.46	0.70	FR : 2.56 MR : 1.24
Suction 2"	1.78	1.42	1.16	0.92	0.46	0.70	FR : 2.56 MR : 1.24
Permissible Tolerance				Weights (kg) Approx.			
Overall Dimension	To 500 mm		±1 %	Pump		250 (25)	
	Over 500 mm		±2 %	Driver		146 (29)	
Overall Weight	To 500 Kg		±5 %	Base Plate/Coupling		405/8	
	Over 500 Kg		±8 %	Total (approx.)		809	
Direction Of Rotation (See from Shaft End)				Max. Misalignment Of Coupling			
Pump		CW		Angular 	Axial 		
Driver		CCW					
DBSE = 180 mm							
Coupling Model: DG6-58 Large Hub				Manufacturer: Colossus			



V00	30.Dec.2024	IFA	Kalaye Pump	M.Fakharian	S.Faramarzpour	** **			
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.			
PROJECT NAME:							BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS & GAS-CONDENSATE PIPELINES		
PROJECT NO.:			971020						
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):						
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			  PEDCO PETROIRAN DEVELOPMENT COMPANY						
DRAWING TITLE:									
GAD FOR FIRE WATER JOCKEY PUMPS									
SCALE	SIZE	DRAWING NO.				SHEET NO.	REV.		
As Shown	A3	BK-GCS-KP-120-ME-DW-0003				3/3	V00		