



نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEET FOR ON OFF & SHUTDOWN VALVES

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

نسخه	سریال	یوگ مدرک	رشته	تجهیزات	صادرکننده	بسته کاری	پروژه
D02	0010	DT	IN	120	PEDCO	GCS	BK

شماره صفحه: ۱ از ۳۸

طرح نگهداشت و افزایش تولید ۲۷ مخزن

DATA SHEET FOR ON OFF & SHUTDOWN VALVES

نگهداشت و افزایش تولید میدان نفتی بینک

D02	AUG.2023	AFC	P.Hajisadeghi	M.Fakharian	A.M.Mohseni	
D01	OCT.2022	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D00	MAY.2022	IFC	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class: 1

CLIENT Doc. Number: F92-708931

status:

IDC: Inter-Discipline Check

IFC: Issued For Comment

IFA: Issued For Approval

AFD: Approved For Design

AFC: Approved For Construction

AFP: Approved For Purchase

AFQ: Approved For Quotation

IFI: Issued For Information

AB-R: As-Built for CLIENT Review

AB-A: As-Built -Approved



NISOC

تجهیزات و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEET FOR ON OFF & SHUTDOWN VALVES

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادرکننده

PEDCO

تجهیزات

120

رشته

IN

بوع مدرک

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سریال

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نسخه

D02

شماره صفحه: ۲ از ۳۸

REVISION RECORD SHEET

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3	X	X			
4	X	X			
5	X	X	X		
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9	X	X	X		
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12	X	X	X		
13	X	X	X		
14	X	X	X		
15	X	X	X		
16	X	X	X		
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18	X	X	X		
19	X	X	X		
20	X	X	X		
21	X	X	X		
22	X	X	X		
23	X	X	X		
24	X	X	X		
25	X	X	X		
26	X	X	X		
27	X	X	X		
28	X	X	X		
29	X	X	X		
30	X	X	X		
31	X	X	X		
32	X	X	X		
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نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEET FOR ON OFF & SHUTDOWN VALVES

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

بسته کاری

صادر کننده

تجهیزات

رشته

بوع مدرک

سریال

نسخه

BK

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شماره صفحه: ۳ از ۳۸

REFERENCE DOCUMENTS :

Specification For Instrumentation	BK-GNRAL-PEDCO-000-IN-SP-0001
Process Basis Of Design	BK-GNRAL-PEDCO-000-PR-DB-0001
Piping Material Specification	BK-GCS-PEDCO-120-PI-SP-0001
Instrument & Control System Design Criteria	BK-GCS-PEDCO-120-IN-DC-0002
Specification For Hazardous Area Classification	BK-GNRAL-PEDCO-000-SA-SP-0002
Specification For On-off /Shut Down Valves(ESDV/MOV)	BK-GNRAL-PEDCO-000-IN-SP-0006
Symbol & Legend For PFD and P&ID	BK-GCS-PEDCO-120-PR-PI-0001
P&ID - Gas Compression Inlet Gas Pipeline (Binak)	BK-GCS-PEDCO-120-PR-PI-0002
P&ID - Gas Compression Inlet Gas Pipeline (Golghari)	BK-GCS-PEDCO-120-PR-PI-0003
P&ID - Slug Catcher System	BK-GCS-PEDCO-120-PR-PI-0004
P&ID - Gas Compression Inlet Knock Out Drum	BK-GCS-PEDCO-120-PR-PI-0005
P&ID - 1st Stage Gas Compression Suction Drums	BK-GCS-PEDCO-120-PR-PI-0006
P&ID - 1st Stage Gas Compression Compressors	BK-GCS-PEDCO-120-PR-PI-0007
P&ID - 1st Stage Gas Compression Air Coolers	BK-GCS-PEDCO-120-PR-PI-0008
P&ID - 2nd Stage Gas Compression Suction Drums	BK-GCS-PEDCO-120-PR-PI-0009
P&ID - 2nd Stage Gas Compression Compressors	BK-GCS-PEDCO-120-PR-PI-0010
P&ID - 2nd Stage Gas Compression Air Coolers	BK-GCS-PEDCO-120-PR-PI-0011
P&ID - 2nd Stage Gas Compression Discharge Drum	BK-GCS-PEDCO-120-PR-PI-0012
P&ID - Gas Compression Dehydration Package	BK-GCS-PEDCO-120-PR-PI-0013
P&ID - Lean Glycol Storage Tank	BK-GCS-PEDCO-120-PR-PI-0014
P&ID - Instrument & Plant Air System	BK-GCS-PEDCO-120-PR-PI-0015
P&ID - Nitrogen Generation System	BK-GCS-PEDCO-120-PR-PI-0016
P&ID - Close Drain System	BK-GCS-PEDCO-120-PR-PI-0017
P&ID - Corrosion Inhibitor Package	BK-GCS-PEDCO-120-PR-PI-0018
P&ID - Methanol Injection Package	BK-GCS-PEDCO-120-PR-PI-0019
P&ID - LP Flare System	BK-GCS-PEDCO-120-PR-PI-0020
P&ID - Oily Water Sewer	BK-GCS-PEDCO-120-PR-PI-0021
P&ID - Fuel Gas System	BK-GCS-PEDCO-120-PR-PI-0022
P&ID - Diesel Oil System	BK-GCS-PEDCO-120-PR-PI-0023
P&ID - Potable Water System	BK-GCS-PEDCO-120-PR-PI-0024
P&ID - Glycol Sump Drum	BK-GCS-PEDCO-120-PR-PI-0025
P&ID - Fire Water Network	BK-GCS-PEDCO-120-SA-PI-0001
P&ID - Total Flooding System For Extension of Existing Elect. Building	BK-GCS-PEDCO-120-SA-PI-0002

مدرک رنگ پروژه در لیست رفرنس اضافه گردد.



نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEET FOR ON OFF & SHUTDOWN VALVES

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

بسته کاری

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شماره صفحه: ۴ از ۳۸

GENERAL NOTES:

1. Calculations shall be provided for each completely piped actuated valve assembly (including solenoid valve), the stroking times i.e. to close and to open.
2. The duty, failure action and stroke time shall all be approved by the Purchaser.
3. The actuator shall be designed to operate the valve through its full stroke.
4. The maximum valve stroking time to achieve the safety position shall be defined according to size of the body (5 seconds for body until 4", 1 second per inch for body greater than 4"). The maximum fully stroke time shall be 10 seconds.
5. The piping indicates corrosion allowance selected as per document "Piping & Pipeline Material Specification, No. " BK-GCS-PEDCO-120-PI-SP-0001 "
6. Hydro-test duration shall be in accordance with API 6D.
7. All ball valves shall be fitted with suitable 'end of travel' stops at the fully open and fully closed positions and a local position indicator . The design shall prevent the ingress of foreign material and corrosion products which would impair the operation of the stops. Devices capable of locking the valves in their safe position (ESDV in open or closed position) shall be provided for maintenance and shall be vendor's standard proven design.
8. Vendor shall guarantee and demonstrate the required stroking speed, during the Functional Test (FAT).
9. All accessories shall be mounted, together with solenoid valve, etc, on a 316SS sub-plate. Tubing shall be suitably sized TP 316L stainless steel with stainless steel double ferrule compression fittings
10. Solenoid valve shall be selected in accordance with low power type.
11. All on/off valves shall be preferably fitted with single acting, spring return pneumatic actuators, completed with mounting kit. Also Partial Stroking test or pilot valve to be considered.
12. The actuator shall be fail safe in operation (as specified in data sheets) in loss of electrical signal or loss of air supply.
13. The spring return actuator shall be "pre stressed".
14. Pneumatic actuators will be sized on the basis of a minimum safety factor of 1.5 and a minimum air pressure of 3 Bar g.
The valve actuator torque shall be in excess of the required valve torque under all operating conditions.
15. All actuators and accessories shall be clearly and permanently identified by nameplate. the nameplate shall be in stainless steel and affixed to the VALVE, actuator and accessories.
- 16 - Environmental condition for field instrumentation of Binak Oilfield shall be considered as per the followings:

Maximum ambient temperature: 50 (°C)
Minimum ambient temperature: 5 (°C)
Maximum steel surface exposed to sun: 85 (°C)
Maximum summer dry bulb: 50 (°C)
DB/RH for Summer HVAC Design: 41 °C / 61 %
DB FOR Winter HVAC Design: 6 °C

Relative Humidity:

- Maximum Design relative humidity (%): 100
- Minimum Design relative humidity (%): 0

- 17 - Material Test Certificate and calibration Certificate for all transmitters to be submitted by Vendor.
- 18 - Flow direction shall be permanently and clearly indicated on the valve body.
- 19- External grounding shall be provided for each solenoid valve.
- 20- BDV's shall have a minimum body size of 2" with tight shutoff (ANSI B16.104, class VI), air volume tanks for larger valves and should be sized for three full open/closed operations at 3-barg instrument air pressure.
- 21- Valves in safety related services should have been fire tested and certification to be provided by Vendor.
- 22- Seat rings shall be spring loaded and so designed that line pressure will assist in sealing round the ball.
- 23- Valve stem extension shall be detachable for easy replacements.
- 24- At least two stem seals shall be provided with facility for injection of secondary sealant and with stainless steel fittings.
- 25- Stem seal shall be replaceable while the valve is in closed operation position.
- 26- Short stroke single acting pneumatic piston actuators shall preferably be used on emergency shutdown service.
- 27- Body of all On/Off Valves except ss316 body material, shall be painted with white color. Also actuator of ESDV and BDV valves shall be painted with Red color as well as actuator of XV valves shall be painted by Blue color.

		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض						 		
		احداث ردیف تو اکم گاز در ایستگاه جمع آوری بینک								
		Data Sheets For ON/OFF & Shutdown Valves								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	
		BK	GCS	PEDCO	120	IN	DT	0010	D02	
		Shutdown Valve						On-Off Valve		
TAG NO: ESDV-2101		P&ID NO: BK-GCS-PEDCO-120-PR-PI-0002_D06						SERVICE: Gas Compression Inlet Gas Pipeline (Binak)		
FLUID STATE: PROCESS GAS		PHASE: GAS						AREA CLASSIFICATION: Zone2, IIB, T4		
SERVICE CONDITION	ITEM				UNITS		Max Flow	Norm. Flow	Min. Flow	Shut-Off
	1 FLOW RATE				kg/h		7220.4928	6564	1969.23	-
	2 INLET PRESSURE				bar(g)		7.5	7.5	7.5	-
	3 OUTLET PRESSURE				bar(g)		7.5	7.5	7.5	-
	4 DIFFERENTIAL PRESSURE				bar(g)		-	-	-	18.2
	5 INLET TEMPERATURE				°C		26.67~46.11	26.67~46.11	26.67~46.11	-
	6 DENSITY				kg/m3		5.43 ~ 6.66	5.43 ~ 6.66	5.43 ~ 6.66	-
	7 VISCOSITY				CP		0.011 ~ 0.012	0.011 ~ 0.012	0.011 ~ 0.012	-
	8 VAPOR PRESSURE Pv				bar(a)		155.5	155.5	155.5	-
9 CRITICAL PRESSURE				bar(a)		107.1	107.1	107.1	-	
LINE	PIPE LINE SIZE & SCHEDULE		IN	CORROSION ALLOWANCE (mm)		80	6			
			OUT			80				
VALVE BODY & BONNET	11 LINE NO.		GAS-111-0001-AN07-6"-PT							
	12 TYPE		OUT		Full Bore Ball Valve/Trunion Mounted					
	13 SIZE		OUT		6"					
	14 MAX PRESS./TEMP.		OUT		As per PMS					
	15 MFR. & MODEL		OUT		Will be finalized later					
	16 BODY / BONNET MATL		OUT		ASTM A216 Gr. WCB					
	17 LINER MATERIAL / ID		OUT		VTA					
	18 END CONNECTION		IN	6" /300#						
			OUT	6" /300#						
	19 FLG FACE FINISH				RF					
	20 END EXT./MATL.				N/A					
	21 FLOW DIRECTION				(Note 18 in Page 4)					
	22 TYPE OF BONNET				Standard					
TRIM	23 LUBE & ISO VALVE				No					
	24 PACKING MATERIAL		PACKING TYPE		PTFE		Standard			
	25 ENTRY DESIGN				Top Entry					
	26 NACE REQUIREMENTNACE (MR-0175/ISO 15156)				YES					
	27 TRIM		TYPE	MATERIAL		VTA		316 SS+PTFE		
	28 SIZE		RATED TRAVEL		VTA		VTA			
	29 CHARACTERISTICS				On/Off					
	30 BALANCED / UNBALANCED				BALANCED					
	31 RATED Cv		FL	XT		VTA		VTA		VTA
	32 PLUG / BALL / DISK MATERIAL				316 SS					
SOLENOID VALVE	33 SEAT		TYPE	MATERIAL		Soft Seat		PTFE		
	34 CAGE / GUIDE MATERIAL				VTA					
	35 STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS		
	36 LEAKAGE CLASS				ANSI Class VI					
	37 VALVE STEM EXTENSION REQUIREMENT				YES					
	38 TAG NO				ESO-V-2101					
SPECIAL / ACCESS.	39 TYPE				3 Way					
	40 BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65			
	41 ELE. CERTIFICATE		ELE. CONNECTION		EEx "d", IIB T4		ISO M20 x 1.5			
	42 MANUAL RESET				Yes					
	43 Power Supply				24 VDC					
	44 Pnu. Connection				1/4" NPT					
	45 FUSIBLE LEAKAGE				No					
	46 BLOCK RELAY				No					
47 QUICK EXHUST				Yes						
49 FILTER REGULATOR				Yes						
50 VOLUME TANK				No						
51 MECHANICAL POSITION INDICATOR				Required						
52 MANUAL PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE				Yes						
NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONIFRM										
(1) PMS: Piping material specification.										
(2) All material shall be suitable for minimum design metal temperature.										
(3) Shall be stated by vendor at quotation stage.										
(4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.										

 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارضی						 					
		احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک											
شماره پیمان: ۰۳۸ - ۰۷۳ - ۰۵۳		Data Sheets For ON/OFF & Shutdown Valves											
		پرورژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۶ از ۳۸			
		BK	GCS	PEDCO	120	IN	DT	0010	D02	D02			
		Shutdown Valve						On-Off Valve					
TAG NO: ESDV-2102		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0003-D06						SERVICE: Gas Compression Inlet Gas Pipeline (Golkhari)					
FLUID STATE: PROCESS GAS		PHASE: GAS						AREA CLASSIFICATION: Zone2, IIB, T4					
SERVICE CONDITION	ITEM					UNITS		Max Flow	Norm. Flow	Min. Flow	Shut-Off		
	1	FLOW RATE					kg/h	12395.9	11269.0	3380.0	-		
	2	INLET PRESSURE					bar(g)	7.5	7.5	7.5	-		
	3	OUTLET PRESSURE					bar(g)	7.5	7.5	7.5	90		
	4	DIFFERENTIAL PRESSURE					bar(g)	-	-	-	-		
	5	INLET TEMPERATURE					°C	15.5 ~ 32	15.5 ~ 32	15.5 ~ 32	-		
	6	DENSITY					kg/m3	6.19 ~ 6.21	6.19 ~ 6.21	6.19 ~ 6.21	-		
	7	VISCOSITY					CP	0.011	0.011	0.011	-		
	8	VAPOR PRESSURE Pv					bar(a)	174.6	174.6	174.6	-		
9	CRITICAL PRESSURE					bar(a)	103.1	103.1	103.1	-			
LINE	10	PIPE LINE SIZE & SCHEDULE	IN	CORROSION ALLOWANCE (mm)	8" 100	6	ACTUATOR	53	TYPE		Single Acting , Spring Return		
			OUT	8" 100		54		SIZE		VTA			
11	LINE NO.	GAS-111-0001-FN07-8"-PT						55	SPRING FAIL ACTION		Fail to Close		
VALVE BODY & BONNET	12	TYPE				Full Bore Ball Valve/Trunion Mounted	POSITIONER	56	MAX ALLOWABLE PRESSURE		VTA		
	13	SIZE				8"		57	MIN REQUIRES PRESSURE		VTA		
	14	MAX PRESS./TEMP.				As per PMS		58	AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g		
	15	MFR. & MODEL				Will be finalized later		59	BENCH RANGE		VTA		
	16	BODY / BONNET MATL				ASTM A216 Gr. WCB		60	TRAVELING TIME		9 S		
	17	LINER MATERIAL / ID				VTA		61	FUNCTION		On/Off		
	18	END CONNECTION	IN	8" /600#	OUT	8" /600#		62	LOCAL POSITION INDICATOR		Required		
	19	FLG FACE FINISH				RF		63	ACT. ORIENTATION		VTA		
	20	END EXT./MATL.				N/A		64	HAND WHEEL TYPE		Clutchable side mounted		
	21	FLOW DIRECTION				(Note 18 in Page 4)		65	ADJUSTABLE LIMIT STOP		Yes		
	22	TYPE OF BONNET				Standard		66	INPUT SIGNAL		24VDC		
	23	LUBE & ISO VALVE				No		67	MFR. & MODEL		Will be finalized later		
	24	PACKING MATERIAL	PACKING TYPE		PTFE	Standard		LIMIT SWITCHES	68	TYPE		N/A	
	25	ENTRY DESIGN				Top Entry			69	MFR. & MODEL		Will be finalized later	
26	NACE REQUIREMENTNACE (MR-0175/ISO 15156)				YES	70	ON INCR SIGNAL OUTPUT INCR / DECR		N/A				
TRIM	27	TRIM	TYPE	MATERIAL	VTA	316 SS+RPTFE	AIR SET	71	GAUGES		N/A		
	28	SIZE	RATED TRAVEL		VTA	VTA		72	CAM CHARACTERISTIC		N/A		
	29	CHARACTERISTICS				On/Off		73	AIR CONNECTION		N/A		
	30	BALANCED / UNBALANCED				BALANCED		74	TAG NO. :		BZSC-2110 / BZSO-2110		
	31	RATED Cv	FL	XT	VTA	VTA		VTA	75	TYPE	QUANTITY	Magnetically operated 'REED' contacts	2
	32	PLUG / BALL / DISK MATERIAL				316 SS		76	CONTACTS / RATING		110V DC , 10A		
	33	SEAT	TYPE	MATERIAL	Soft Seat	RPTFE		77	ACTUATION POINT		Fully Open/Close		
	34	CAGE / GUIDE MATERIAL				VTA		78	ENCLOSURE MATERIAL		Die Cast Amulminum		
SOLENOID VALVE	35	STEM	TYPE	MATERIAL	Anti-Blow Out	Forged, 13% chromium steel	79	WEATHER PROTECTION		IP-65			
	36	LEAKAGE CLASS				ANSI Class VI	80	ELEC. CERTIFICATE	ELEC. CONNECTION	EEx "d" ,IIB T4	ISO M20 x 1.5		
	37	VALVE STEM EXTENSION REQUIREMENT				YES	81	MFR. & MODEL		Will be finalized later			
	38	TAG NO				ESOV-2102	82	SET PRESSURE		Yes			
	39	TYPE				3 Way	83	PNEUMATIC CONNECTION		1/4" NPT			
	40	BODY MATERIAL	WEATHER IP.		AISI 316 S.S	IP-65	84	GAUGES	FILTER	Required	Required		
SPECIAL / ACCESS.	41	ELE. CERTIFICATE	ELE. CONNECTION		EEx "d" ,IIB T4	ISO M20 x 1.5	TEST	85	MFR. & MODEL		Will be finalized later		
	42	MANUAL RESET				Yes		86	ANSI/FCI LEAKAGE CLASS		Required		
	43	Power Supply				24 VDC		87	HYDRO PRESSURE		Required		
	44	Pau. Connection				1/4" NPT		88	FUNCTIONAL TEST		Required		
	45	FUSIBLE LEAKAGE				No		89					
	46	BLOCK RELAY				No		90					
SPECIAL / ACCESS.	47	QUICK EXHUST				Yes	FIRE PROOF DESIGN	91					
	48	FILTER REGULATOR				Yes		92	PASSIVE FIRE PROTECTION		Yes		
	49	VOLUME TANK				No		93	API 6FA REQUIREMENTS		Yes		
	50	MECHANICAL POSITION INDICATOR				Required		94	SIL 3 REQUIREMENTS		Yes		
	51	MANUAL PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE				Yes		95	PARTIAL STROKING VALVE TEST		Yes		
	52							96					
NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONIFRM (1) PMS: Piping material specification. (2) All material shall be suitable for minimum design metal temperature. (3) Shall be stated by vendor at quotation stage. (4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.													

 NISOC		تجهیزات و افزایش تولید میدان نفتی بینک سطح الارض						 HIRGAN ENERGY 				
		احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک										
شماره پیمان: ۰۳۸ - ۰۷۳ - ۰۵۳		Data Sheets For ON/OFF & Shutdown Valves						شماره صفحه: ۷ از ۳۸				
		پرورژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک			سریال	نسخه	
		BK	GCS	PEDCO	120	IN	DT	0010	D02			
		Shutdown Valve On-Off Valve										
TAG NO: ESDV-2113		F&ID NO: BK-GCS-PEDCO-120-PR-PI-0005-D06 (1 of 1)						SERVICE: Gas Compression Inlet Knock Out Drum to Closed Drain				
FLUID STATE: PROCESS GAS		PHASE: GAS						AREA CLASSIFICATION: Zone2, IIB, T4				
SERVICE CONDITION	ITEM					UNITS		Max Flow	Norm. Flow	Min. Flow	Shut-Off	
	1	FLOW RATE					kg/h	1119.5	1017.8	305.3	-	
	2	INLET PRESSURE					bar(g)	5.3	5.3	5.3	-	
	3	OUTLET PRESSURE					bar(g)	5.3	5.3	5.3	-	
	4	DIFFERENTIAL PRESSURE					bar(g)	-	-	-	18.2	
	5	INLET TEMPERATURE					°C	36.9	36.9	36.9	-	
	6	DENSITY					kg/m3	842.6	842.6	842.6	-	
	7	VISCOSITY					CP	0.69	0.69	0.69	-	
	8	VAPOR PRESSURE Pv					bar(a)	0.612	0.612	0.612	-	
9	CRITICAL PRESSURE					bar(a)	221.4	221.4	221.4	-		
LINE	PIPE LINE SIZE & SCHEDULE		IN	CORROSION ALLOWANCE (mm)	2" SCH.10S	0	ACTUATOR	53	TYPE		Single Acting , Spring Return	
			OUT		2" SCH.10S			54	SIZE		VTA	
	LINE NO.		CDH-111-0019-AS00-2"-NP					55	SPRING FAIL ACTION		Fail to Close	
VALVE BODY & BONNET	TYPE		Full Bore Ball Valve/Trunion Mounted					56	MAX ALLOWABLE PRESSURE		VTA	
	SIZE		2"					57	MIN REQUIRES PRESSURE		VTA	
	MAX PRESS./TEMP.		As per PMS					58	AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g	
	MFR. & MODEL		Will be finalized later					59	BENCH RANGE		VTA	
	BODY / BONNET MATL		ASTM A351 GR.CF3M					60	TRAVELING TIME		5 S	
	LINER MATERIAL / ID		VTA					61	FUNCTION		On/Off	
	END CONNECTION		IN	2" /300#		62	LOCAL POSITION INDICATOR		Required			
			OUT	2" /300#		63	ACT. ORIENTATION		VTA			
	FLG FACE FINISH		RF				64	HAND WHEEL TYPE		Clutchable side mounted		
	END EXT./MATL.		N/A				65	ADJUSTABLE LIMIT STOP		Yes		
	FLOW DIRECTION		(Note 18 in Page 4)				66	INPUT SIGNAL		24VDC		
	TYPE OF BONNET		Standard				67	MFR. & MODEL		Will be finalized later		
	LUBE & ISO VALVE		No				POSITIONER	68	TYPE		N/A	
	PACKING MATERIAL		PACKING TYPE		PTFE	Standard		69	MFR. & MODEL		Will be finalized later	
ENTRY DESIGN		Top Entry				70		ON INCR SIGNAL OUTPUT INCR / DECR		N/A		
NACE REQUIREMENTNACE (MR-0175/ISO 15156)		YES				71		GAUGES		N/A		
TRIM	TRIM		TYPE	MATERIAL	VTA	316 SS+PTFE	LIMIT SWITCHES	72	CAM CHARACTERISTIC		N/A	
	SIZE		RATED TRAVEL		VTA	VTA		73	AIR CONNECTION		N/A	
	CHARACTERISTICS		On/Off					74	TAG NO. :		BZSC-2110 / BZSO-2110	
	BALANCED / UNBALANCED		BALANCED			75		TYPE	QUANTITY	Magnetically operated "REED" contacts	2	
	RATED Cv		FL	XT	VTA	VTA	VTA	76	CONTACTS / RATING		110V DC , 10A	
	PLUG / BALL / DISK MATERIAL		316 SS				77	ACTUATION POINT		Fully Open/Close		
	SEAT		TYPE	MATERIAL	Soft Seat		PTFE	78	ENCLOSURE MATERIAL		Die Cast Amulimum	
	CAGE / GUIDE MATERIAL		VTA				79	WEATHER PROTECTION		IP-65		
	STEM		TYPE	MATERIAL	Anti-Blow Out		316 SS	80	ELEC. CERTIFICATE	ELEC. CONNECTION	EEx "d", IIB T4	ISO M20 × 1.5
	LEAKAGE CLASS		ANSI Class VI				81	MFR. & MODEL		Will be finalized later		
VALVE STEM EXTENSION REQUIREMENT		YES				AIR SET	82	SET PRESSURE		Yes		
TAG NO		ESOV-2113					83	PNEUMATIC CONNECTION		1/4" NPT		
TYPE		3 Way					84	GAUGES	FILTER	Required	Required	
BODY MATERIAL		WEATHER IP.		AISI 316 S.S			IP-65	85	MFR. & MODEL		Will be finalized later	
SOLENOID VALVE	ELE. CERTIFICATE		ELE. CONNECTION		EEx "d", IIB T4		TEST	86	ANSI/FCI LEAKAGE CLASS		Required	
	MANUAL RESET		Yes					87	HYDRO PRESSURE		Required	
	Power Supply		24 VDC					88	FUNCTIONAL TEST		Required	
	Pnu. Connection		1/4" NPT					89				
SPECIAL / ACCESS.	FUSIBLE LEAKAGE		No				FIRE PROOF DESIGN	90				
	BLOCK RELAY		No					91				
	QUICK EXHUST		Yes					92	PASSIVE FIRE PROTECTION		Yes	
	FILTER REGULATOR		Yes					93	API 6FA REQUIREMENTS		Yes	
	VOLUME TANK		No					94	SIL 3 REQUIREMENTS		Yes	
	MECHANICAL POSITION INDICATOR		Required					95	PARTIAL STROKING VALVE TEST		Yes	
MANUAL PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE		Yes				96						
NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONIFRM												
(1) PMS: Piping material specification.												
(2) All material shall be suitable for minimum design metal temperature.												
(3) Shall be stated by vendor at quotation stage.												
(4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.												

 NIS OC		تکهداشت و افزایش تولید میدان نفتی بینک سطح الارض						 					
		احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک											
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		Data Sheets For ON/OFF & Shutdown Valves						شماره صفحه: ۳۸ از ۸					
		پروژه	بسته کاری	صادر کننده	تسهلات	رشته	نوع مدرک			سریال	نسخه		
		BK	GCS	PEDCO	120	IN	DT	0010	D02				
		Shutdown Valve On-Off Valve											
TAG NO: ESDV-2272		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0022-D06						SERVICE: Fuel Gas System					
FLUID STATE: FUEL GAS		PHASE: GAS						AREA CLASSIFICATION: Zone2, IIB, T4					
SERVICE CONDITION	ITEM					UNITS		Max Flow	Norm. Flow	Min. Flow	Shut-Off		
	1	FLOW RATE					kg/h	556.3	505.8	151.7	-		
	2	INLET PRESSURE					bar(g)	5.1	5.1	5.1	-		
	3	OUTLET PRESSURE					bar(g)	5.1	5.1	5.1	-		
	4	DIFFERENTIAL PRESSURE					bar(g)	-	-	-	18.2		
	5	INLET TEMPERATURE					°C	37	37	37	-		
	6	DENSITY					kg/m3	5.77	5.77	5.77	-		
	7	VISCOSITY					CP	0.011	0.011	0.011	-		
	8	VAPOR PRESSURE Pv					bar(a)	167.7	167.7	167.7	-		
9	CRITICAL PRESSURE					bar(a)	94.66	94.66	94.66	-			
LINE	10	PIPE LINE SIZE & SCHEDULE	IN	CORROSION ALLOWANCE (mm)	3" 80	6	ACTUATOR	53	TYPE		Single Acting , Spring Return		
			OUT		3" 80			54	SIZE		VTA		
11	LINE NO.	GAS-111-0004-AN07-3"-PT						55	SPRING FAIL ACTION		Fail to Close		
VALVE BODY & BONNET	12	TYPE						Full Bore Ball Valve/Trunion Mounted	56	MAX ALLOWABLE PRESSURE		VTA	
	13	SIZE						3"	57	MIN REQUIRES PRESSURE		VTA	
	14	MAX PRESS./TEMP.						As per PMS	58	AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g	
	15	MFR. & MODEL						Will be finalized later	59	BENCH RANGE		VTA	
	16	BODY / BONNET MATL						ASTM A216 Gr. WCB	60	TRAVELING TIME		5 S	
	17	LINER MATERIAL / ID						VTA	61	FUNCTION		On/Off	
	18	END CONNECTION	IN	3" /300#			62	LOCAL POSITION INDICATOR		Required			
			OUT	3" /300#			63	ACT. ORIENTATION		VTA			
	19	FLG FACE FINISH					RF	64	HAND WHEEL TYPE		Clutchable side mounted		
	20	END EXT./MATL.					N/A	65	ADJUSTABLE LIMIT STOP		Yes		
	21	FLOW DIRECTION					(Note 18 in Page 4)	66	INPUT SIGNAL		24VDC		
	22	TYPE OF BONNET					Standard	67	MFR. & MODEL		Will be finalized later		
	23	LUBE & ISO VALVE					No	POSITIONER	68	TYPE		N/A	
	24	PACKING MATERIAL	PACKING TYPE			PTFE	Standard		69	MFR. & MODEL		Will be finalized later	
25	ENTRY DESIGN					Top Entry	70		ON INCR SIGNAL OUTPUT INCR / DECR		N/A		
26	NACE REQUIREMENTNACE (MR-0175/ISO 15156)					YES	71		GAUGES		N/A		
27	TRIM	TYPE	MATERIAL	VTA	316 SS+PTFE	72	CAM CHARACTERISTIC		N/A				
TRIM	28	SIZE	RATED TRAVEL			VTA	VTA	73	AIR CONNECTION		N/A		
	29	CHARACTERISTICS					On/Off	LIMIT SWITCHES	74	TAG NO. :		BZSC-2110 / BZSO-2110	
	30	BALANCED / UNBALANCED					BALANCED		75	TYPE	QUANTITY	Magnetically operated 'REED' contacts	2
	31	RATED Cv	FL	XT	VTA	VTA	VTA		76	CONTACTS / RATING		110V DC , 10A	
	32	PLUG / BALL / DISK MATERIAL					316 SS		77	ACTUATION POINT		Fully Open/Close	
	33	SEAT	TYPE	MATERIAL	Soft Seat	PTFE	78		ENCLOSURE MATERIAL		Die Cast Amulimum		
	34	CAGE / GUIDE MATERIAL					VTA		79	WEATHER PROTECTION		IP-65	
	35	STEM	TYPE	MATERIAL	Anti-Blow Out	316 SS	80		ELEC. CERTIFICATE	ELEC. CONNECTION	EEx "d" ,IIB T4	ISO M20 × 1.5	
	36	LEAKAGE CLASS					ANSI Class V1		81	MFR. & MODEL		Will be finalized later	
	37	VALVE STEM EXTENSION REQUIREMENT					YES	AIR SET	82	SET PRESSURE		Yes	
38	TAG NO					ESOV-2272	83		PNEUMATIC CONNECTION		1/4" NPT		
39	TYPE					3 Way	84		GAUGES	FILTER	Required	Required	
SOLENOID VALVE	40	BODY MATERIAL	WEATHER IP.			AISI 316 S.S	IP-65	85	MFR. & MODEL		Will be finalized later		
	41	ELE. CERTIFICATE	ELE. CONNECTION			EEEx "d" ,IIB T4	ISO M20 x 1.5	TEST	86	ANSI/FCI LEAKAGE CLASS		Required	
	42	MANUAL RESET					Yes		87	HYDRO PRESSURE		Required	
	43	Power Supply					24 VDC		88	FUNCTIONAL TEST		Required	
	44	Pnu. Connection					1/4" NPT		89				
45	FUSIBLE LEAKAGE					No	90						
SPECIAL / ACCESS.	46	BLOCK RELAY					No	FIRE PROOF DESIGN	92	PASSIVE FIRE PROTECTION		Yes	
	47	QUICK EXHUST					Yes		93	API 6FA REQUIREMENTS		Yes	
	49	FILTER REGULATOR					Yes		94	SIL 3 REQUIREMENTS		Yes	
	50	VOLUME TANK					No		95	PARTIAL STROKING VALVE TEST		Yes	
	51	MECHANICAL POSITION INDICATOR					Required		96				
	52	MANUAL PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE					Yes						
	NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONFIRM (1) PMS: Piping material specification. (2) All material shall be suitable for minimum design metal temperature. (3) Shall be stated by vendor at quotation stage. (4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.												



تنگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

Data Sheets For ON/OFF & Shutdown Valves



شماره صفحه: ۱۰ از ۳۸

ماره پیمان:

$$\cdot 53 - \cdot 73 - 9.38$$

Blowdown Valve

On-Off valve

D02

TAG NO: BDV-2122A

P&ID NO : BK-GCS-PEDCO-120-PR-PI-0007-D06(1/3)

SERVICE: Gas Compression Inlet Knock Out Drum to Flare Header

FLUID STATE: PROCESS GAS

PHASE: GAS

AREA CLASSIFICATION: Zone2, IIB, T4

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ITEM	UNITS
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Max Flow	Norm. Flow	Min. Flow	S
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SERVICE CONDITION	1	FLOW RATE					kg/h	-	300.0	-	-							
	2	INLET PRESSURE					bar(g)	4.9	4.9	4.9	-							
	3	OUTLET PRESSURE					bar(g)	4.9	4.9	4.9	-							
	4	DIFFERENTIAL PRESSURE					bar(g)	-	-	-	18.2							
	5	INLET TEMPERATURE					°C	-	18.9 ~ 36.78	-	-							
	6	DENSITY					kg/m3	-	5.37 ~ 5.77	-	-							
	7	VISCOSITY					CP	-	0.011	-	-							
	8	VAPOR PRESSURE Pv					bar(a)	-	167.5	-	-							
	9	CRITICAL PRESSURE					bar(a)	-	94.65	-	-							
LINE	10	PIPE LINE SIZE & SCHEDULE		IN	CORROSION ALLOWANCE (mm)	2" 80	6	ACTUATOR	53	TYPE		Single Acting, Spring Return						
	OUT			2" 80		54			SIZE		VTA							
	11	LINE NO.		GAS-111-0035A-CN05-2"-PT					55	SPRING FAIL ACTION		Fail to Close						
VALVE BODY & BONNET	12	TYPE				Full Bore Ball Valve/Trunnion Mounted												
	13	SIZE				2"												
	14	MAX PRESS./TEMP.				As per PMS												
	15	MFR. & MODEL				Will be finalized later												
	16	BODY / BONNET MATL				ASTM A216 Gr. WCB												
	17	LINER MATERIAL / ID				VTA												
	18	END CONNECTION		IN	2"/300#		67	MFR. & MODEL	Will be finalized later									
	OUT			2"/300#														
	19	FLG FACE FINISH				RF												
	20	END EXT.MATL.				N/A												
	21	FLOW DIRECTION				(Note 18 in Page 4)												
	22	TYPE OF BONNET				Standard												
	23	LUBE & ISO VALVE				No												
	24	PACKING MATERIAL		PACKING TYPE		PTFE		Standard		POSITIONER	68	TYPE		N/A				
	25	ENTRY DESIGN				Top Entry						69	MFR. & MODEL		Will be finalized later			
	26	NACE REQUIREMENTNACE (MR-0175/ISO 15156)				YES						70	ON INCR SIGNAL OUTPUT INCR / DECR		N/A			
	TRIM	27	TRIM		TYPE	MATERIAL	VTA		316 SS+PTFE		71	GAUGES		N/A				
28		SIZE		RATED TRAVEL		VTA		VTA		72	CAM CHARACTERISTIC		N/A					
29		CHARACTERISTICS				On/Off						73	AIR CONNECTION		N/A			
30		BALANCED / UNBALANCED				BALANCED						74	TAG NO. : BZSO-2110 / BZSO-2110					
31		RATED Cv		FL	XT	VTA		VTA		VTA	75	TYPE		QUANTITY	Magnetically operated 'REED' contacts		2	
32		PLUG / BALL / DISK MATERIAL				316 SS						76	CONTACTS / RATING				110V DC , 10A	
33		SEAT		TYPE	MATERIAL		Soft Seat			PTFE		77	ACTUATION POINT				Fully Open/Close	
34		CAGE / GUIDE MATERIAL				VTA						78	ENCLOSURE MATERIAL				Die Cast Amulium	
35		STEM		TYPE	MATERIAL		Anti-Blow Out			316 SS		79	WEATHER PROTECTION				IP-65	
36		LEAKAGE CLASS				ANSI Class VI						80	ELEC. CERTIFICATE		ELEC. CONNECTION	EEx "d" ,IIB T4		ISO M20 × 1.5
SOLENOID VALVE	37	VALVE STEM EXTENSION REQUIREMENT				YES						81	MFR. & MODEL				Will be finalized later	
	38	TAG NO				PSOV-2110						82	SET PRESSURE				Yes	
	39	TYPE				3 Way						83	PNEUMATIC CONNECTION				1/4" NPT	
	40	BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65		84	GAUGES		FILTER	Required		Required		
	41	ELE. CERTIFICATE		ELE. CONNECTION		EEx "d", IIB T4		ISO M20 × 1.5		85	MFR. & MODEL				Will be finalized later			
	42	MANUAL RESET				Yes						86	ANSI/FCI LEAKAGE CLASS				Required	
	43	Power Supply				24 VDC						87	HYDRO PRESSURE				Required	
	44	Pnu. Connection				1/4" NPT						88	FUNCTIONAL TEST				Required	
SPECIAL / ACCESS.	45	FUSIBLE LEAKAGE				No												
	46	BLOCK RELAY				No												
	47	QUICK EXHUST				Yes												
	49	FILTER REGULATOR				Yes												
	50	VOLUME TANK				Yes												
	51	MECHANICAL POSITION INDICATOR				Required												
	52	MANUALPNEUMATIC BYPASS VALVE FOR SOLENOID VALVE				Yes												

NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONFIRM

- (1) PMS: Piping material specification.
- (2) All material shall be suitable for minimum design metal temperature.
- (3) Shall be stated by vendor at quotation stage.
- (4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.

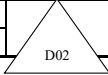
NOTE:	VTA : VENDOR TO ADVISE AT BIDDING STAGE	VTC: VENDOR TO CONIFRM
	(1) PMS: Piping material specification.	
	(2) All material shall be suitable for minimum design metal temperature.	
	(3) Shall be stated by vendor at quotation stage.	
	(4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.	

 NIS OC		تجهاد است و افزایش تولید میدان نفتی بینک سطح الارض								
		احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
		Data Sheets For ON/OFF & Shutdown Valves								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	
		BK	GCS	PEDCO	120	IN	DT	0010	D02	
		Blowdown Valve						On-Off Valve		
TAG NO: BDV-2134A		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0009-D06 (1 of 3)						SERVICE: 2nd Stage Gas Compression Suction Drums		
FLUID STATE: VENT GAS		PHASE: GAS						AREA CLASSIFICATION: Zone2, IIB, T4		
SERVICE CONDITION	ITEM				UNITS		Max Flow	Norm. Flow	Min. Flow	Shut-Off
	1 FLOW RATE				kg/h		-	796	-	-
	2 INLET PRESSURE				bar(g)		-	18.1~ 22	-	-
	3 OUTLET PRESSURE				bar(g)		-	18.1~ 22	-	-
	4 DIFFERENTIAL PRESSURE				bar(g)		-	-	-	47.7
	5 INLET TEMPERATURE				°C		-	22 ~ 59.88	-	-
	6 DENSITY				kg/m3		-	18.08~ 1011	-	-
	7 VISCOSITY				CP		-	0.013 ~ 0.98	-	-
	8 VAPOR PRESSURE Pv				bar(a)		-	-	-	-
9 CRITICAL PRESSURE				bar(a)		-	94.65	-	-	
LINE	PIPE LINE SIZE & SCHEDULE		IN	CORROSION ALLOWANCE (mm)	2" 80	6				
			OUT		2" 80					
VALVE BODY & BONNET	11 LINE NO.		GAS-111-0160A-CN05-2"-PT							
	12 TYPE		Full Bore Ball Valve/ Floating Type							
	13 SIZE		2"							
	14 MAX PRESS./TEMP.		As per PMS							
	15 MFR. & MODEL		Will be finalized later							
	16 BODY / BONNET MATL		ASTM A216 Gr. WCB							
	17 LINER MATERIAL / ID		VTA							
	18 END CONNECTION		IN	2" /300#						
			OUT	2"/300#						
	19 FLG FACE FINISH		RF							
	20 END EXT.MATL		N/A							
	21 FLOW DIRECTION		(Note 18 in Page 4)							
	22 TYPE OF BONNET		Standard							
	23 LUBE & ISO VALVE		No							
	24 PACKING MATERIAL		PACKING TYPE		PTFE	Standard				
	25 ENTRY DESIGN		Top Entry							
	26 NACE REQUIREMENTNACE (MR-0175/ISO 15156)		YES							
	27 TRIM		TYPE	MATERIAL	VTA	316 SS+RPTFE				
	28 SIZE		RATED TRAVEL		VTA	VTA				
	29 CHARACTERISTICS		On/Off							
	30 BALANCED / UNBALANCED				BALANCED					
	31 RATED Cv		FL	XT	VTA	VTA	VTA			
	32 PLUG / BALL / DISK MATERIAL		316 SS							
	33 SEAT		TYPE	MATERIAL	Soft Seat	RPTFE				
	34 CAGE / GUIDE MATERIAL		VTA							
	35 STEM		TYPE	MATERIAL	Anti-Blow Out	316 SS				
36 LEAKAGE CLASS		ANSI Class VI								
37 VALVE STEM EXTENSION REQUIREMENT		YES								
SOLENOID VALVE	38 TAG NO		BSOV-2134A , PSOV-2134A							
	39 TYPE		3 Way							
	40 BODY MATERIAL		WEATHER IP.		AISI 316 S.S	IP-65				
	41 ELE. CERTIFICATE		ELE. CONNECTION		EEx "d" ,IIB T4	ISO M20 x 1.5				
	42 MANUAL RESET		Yes							
	43 Power Supply		24 VDC							
	44 Pna. Connection		1/4" NPT							
SPECIAL / ACCESS.	45 FUSIBLE LEAKAGE		No							
	46 BLOCK RELAY		No							
	47 QUICK EXHUST		Yes							
	49 FILTER REGULATOR		Yes							
	50 VOLUME TANK		No							
51 MECHANICAL POSITION INDICATOR		Required								
NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONFIRM										
(1) PMS: Piping material specification.										
(2) All material shall be suitable for minimum design metal temperature.										
(3) Shall be stated by vendor at quotation stage.										
(4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.										

 NIS OC		تجهیزات و افزایش تولید میدان نفتی بینک سطح الارض										 			
		احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک													
		Data Sheets For ON/OFF & Shutdown Valves													
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۴ از ۳۸					
		BK	GCS	PEDCO	120	IN	DT	0010	D02	D02					
		Blowdown Valve										On-Off Valve			
TAG NO:		BDV-2134B		P&ID NO :		BK-GCS-PEDCO-120-PR-PI-0009-D06 (2 of 3)				SERVICE: 2nd Stage Gas Compression Suction Drums					
FLUID STATE:		VENT GAS		PHASE:		GAS				AREA CLASSIFICATION: Zone2, IIB, T4					
SERVICE CONDITION	ITEM					UNITS		Max Flow		Norm. Flow		Min. Flow		Shut-Off	
	1 FLOW RATE					kg/h		-		796		-		-	
	2 INLET PRESSURE					bar(g)		-		18.1~ 22		-		-	
	3 OUTLET PRESSURE					bar(g)		-		18.1~ 22		-		-	
	4 DIFFERENTIAL PRESSURE					bar(g)		-		-		-		47.7	
	5 INLET TEMPERATURE					°C		-		22 ~ 59.88		-		-	
	6 DENSITY					kg/m3		-		18.08~ 1011		-		-	
	7 VISCOSITY					CP		-		0.013 ~ 0.98		-		-	
	8 VAPOR PRESSURE Pv					bar(a)		-		-		-		-	
9 CRITICAL PRESSURE					bar(a)		-		94.65		-		-		
LINE	10 PIPE LINE SIZE & SCHEDULE		IN	CORROSION ALLOWANCE (mm)		2" 80		6		53 TYPE		Single Acting , Spring Return			
			OUT			2" 80				54 SIZE		VTA			
		11 LINE NO.		GAS-111-0160B-CN05-2"-PT						55 SPRING FAIL ACTION		Fail to Open			
VALVE BODY & BONNET	12 TYPE		Full Bore Ball Valve/ Floating Type						56 MAX ALLOWABLE PRESSURE		VTA				
	13 SIZE		2"						57 MIN REQUIRES PRESSURE		VTA				
	14 MAX PRESS./TEMP.		As per PMS						58 AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g				
	15 MFR. & MODEL		Will be finalized later						59 BENCH RANGE		VTA				
	16 BODY / BONNET MATL		ASTM A351 GR.CF3M						60 TRAVELING TIME		5 S				
	17 LINER MATERIAL / ID		VTA						61 FUNCTION		On/Off				
	18 END CONNECTION		IN	2" /300#				62 LOCAL POSITION INDICATOR		Required					
			OUT	2"/300#				63 ACT. ORIENTATION		VTA					
	19 FLG FACE FINISH		RF						64 HAND WHEEL TYPE		Decutchable side mounted				
	20 END EXT. MATL.		N/A						65 ADJUSTABLE LIMIT STOP		No				
	21 FLOW DIRECTION		(Note 18 in Page 4)						66 INPUT SIGNAL		24VDC				
	22 TYPE OF BONNET		Standard						67 MFR. & MODEL		Will be finalized later				
	23 LUBE & ISO VALVE		No						68 TYPE		N/A				
	24 PACKING MATERIAL		PACKING TYPE		PTFE		Standard		69 MFR. & MODEL		Will be finalized later				
25 ENTRY DESIGN		Top Entry						70 ON INCR SIGNAL OUTPUT INCR / DECR		N/A					
26 NACE REQUIREMENTNACE (MR-0175/ISO 15156)		YES						71 GAUGES		N/A					
TRIM	27 TRIM		TYPE	MATERIAL		VTA		316 SS+RPTFE		72 CAM CHARACTERISTIC		N/A			
	28 SIZE		RATED TRAVEL		VTA		VTA		73 AIR CONNECTION		N/A				
	29 CHARACTERISTICS		On/Off						74 TAG NO. :		BZSC-2110 / BZSO-2110				
	30 BALANCED / UNBALANCED		BALANCED						75 TYPE		QUANTITY	Magnetically operated 'REED' contacts		2	
	31 RATED Cv		FL	XT	VTA		VTA	VTA	76 CONTACTS / RATING		110V DC , 10A				
	32 PLUG / BALL / DISK MATERIAL		316 SS						77 ACTUATION POINT		Fully Open/Close				
	33 SEAT		TYPE	MATERIAL		Soft Seat		RPTFE	78 ENCLOSURE MATERIAL		Die Cast Amulium				
	34 CAGE / GUIDE MATERIAL		VTA						79 WEATHER PROTECTION		IP-65				
	35 STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS	80 ELEC. CERTIFICATE		ELEC. CONNECTION	EEx "d" ,IIB T4		ISO M20 × 1.5	
	36 LEAKAGE CLASS		ANSI Class VI						81 MFR. & MODEL		Will be finalized later				
37 VALVE STEM EXTENSION REQUIREMENT		YES						82 SET PRESSURE		Yes					
SOLENOID VALVE	38 TAG NO		BSOV-2134B , PSOV-2134B						83 PNEUMATIC CONNECTION		1/4" NPT				
	39 TYPE		3 Way						84 GAUGES		FILTER	Required		Required	
	40 BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65		85 MFR. & MODEL		Will be finalized later				
	41 ELE. CERTIFICATE		ELE. CONNECTION		EEx "d" ,IIB T4		ISO M20 x 1.5		86 ANSI/FCI LEAKAGE CLASS		Required				
	42 MANUAL RESET		Yes						87 HYDRO PRESSURE		Required				
	43 Power Supply		24 VDC						88 FUNCTIONAL TEST		Required				
	44 Pnu. Connection		1/4" NPT						89						
SPECIAL / ACCESS.	45 FUSIBLE LEAKAGE		No						90						
	46 BLOCK RELAY		No						91 PASSIVE FIRE PROTECTION		No				
	47 QUICK EXHUST		Yes						92 API 6FA REQUIREMENTS		Yes				
	49 FILTER REGULATOR		Yes						93 SIL 3 REQUIREMENTS		Yes				
	50 VOLUME TANK		No						94 PARTIAL STROKING VALVE TEST		Yes				
51 MECHANICAL POSITION INDICATOR		Required						95							
NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONFIRM															
(1) PMS: Piping material specification.															
(2) All material shall be suitable for minimum design metal temperature.															
(3) Shall be stated by vendor at quotation stage.															
(4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.															

 NIS OC		تجهیزات و افزایش تولید میدان نفتی بینک سطح الارض					 				
		احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک									
		Data Sheets For ON/OFF & Shutdown Valves									
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه		
		BK	GCS	PEDCO	120	IN	DT	0010	D02		
		Blowdown Valve					On-Off Valve				
TAG NO: BDV-2134C		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0009-D06 (3 of 3)					SERVICE: 2nd Stage Gas Compression Suction Drums				
FLUID STATE: VENT GAS		PHASE: GAS					AREA CLASSIFICATION: Zone2, IIB, T4				
SERVICE CONDITION	ITEM				UNITS		Max Flow	Norm. Flow	Min. Flow	Shut-Off	
	1 FLOW RATE				kg/h		-	796	-	-	
	2 INLET PRESSURE				bar(g)		-	18.1~ 22	-	-	
	3 OUTLET PRESSURE				bar(g)		-	18.1~ 22	-	-	
	4 DIFFERENTIAL PRESSURE				bar(g)		-	-	-	47.7	
	5 INLET TEMPERATURE				°C		-	22 ~ 59.88	-	-	
	6 DENSITY				kg/m3		-	18.08~ 1011	-	-	
	7 VISCOSITY				CP		-	0.013 ~ 0.98	-	-	
	8 VAPOR PRESSURE Pv				bar(a)		-	-	-	-	
9 CRITICAL PRESSURE				bar(a)		-	94.65	-	-		
LINE	PIPE LINE SIZE & SCHEDULE		IN	CORROSION ALLOWANCE (mm)	2" 80	6					
			OUT		2" 80						
VALVE BODY & BONNET	11 LINE NO.		GAS-111-0160C-CN05-2"-PT								
	12 TYPE		Full Bore Ball Valve/ Floating Type								
	13 SIZE		2"								
	14 MAX PRESS./TEMP.		As per PMS								
	15 MFR. & MODEL		Will be finalized later								
	16 BODY / BONNET MATL		ASTM A216 Gr. WCB								
	17 LINER MATERIAL / ID		VTA								
	18 END CONNECTION		IN	2" /300#							
			OUT	2"/300#							
	19 FLG FACE FINISH		RF								
	20 END EXT./MATL.		N/A								
	21 FLOW DIRECTION		(Note 18 in Page 4)								
	22 TYPE OF BONNET		Standard								
	23 LUBE & ISO VALVE		No								
	24 PACKING MATERIAL		PACKING TYPE		PTFE	Standard					
	25 ENTRY DESIGN		Top Entry								
	26 NACE REQUIREMENTNACE (MR-0175/ISO 15156)		YES								
	27 TRIM		TYPE	MATERIAL	VTA	316 SS+RPTFE					
	28 SIZE		RATED TRAVEL		VTA	VTA					
	29 CHARACTERISTICS		On/Off								
	30 BALANCED / UNBALANCED		BALANCED								
	31 RATED Cv		FL	XT	VTA	VTA	VTA				
	32 PLUG / BALL / DISK MATERIAL		316 SS								
	33 SEAT		TYPE	MATERIAL	Soft Seat	RPTFE					
	34 CAGE / GUIDE MATERIAL		VTA								
	35 STEM		TYPE	MATERIAL	Anti-Blow Out	316 SS					
36 LEAKAGE CLASS		ANSI Class VI									
37 VALVE STEM EXTENSION REQUIREMENT		YES									
SOLENOID VALVE	38 TAG NO		BSOV-2134C , PSOV-2134C								
	39 TYPE		3 Way								
	40 BODY MATERIAL		WEATHER IP.		AISI 316 S.S	IP-65					
	41 ELE. CERTIFICATE		ELE. CONNECTION		EEx "d" ,IIB T4	ISO M20 x 1.5					
	42 MANUAL RESET		Yes								
	43 Power Supply		24 VDC								
	44 Pna. Connection		1/4" NPT								
SPECIAL / ACCESS.	45 FUSIBLE LEAKAGE		No								
	46 BLOCK RELAY		No								
	47 QUICK EXHUST		Yes								
	49 FILTER REGULATOR		Yes								
	50 VOLUME TANK		No								
51 MECHANICAL POSITION INDICATOR		Required									
NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONFIRM											
(1) PMS: Piping material specification.											
(2) All material shall be suitable for minimum design metal temperature.											
(3) Shall be stated by vendor at quotation stage.											
(4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.											

 NIS OC		تجهاد است و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک Data Sheets For ON/OFF & Shutdown Valves						 HIRGAN ENERGY 				
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۶ از ۳۸		
		BK	GCS	PEDCO	120	IN	DT	0010	D02	D02		
		Blowdown Valve						On-Off Valve				
TAG NO: BDV-2132A		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0011-D06 (1 of 3)						SERVICE: 2nd Stage Gas Compression Air Coolers				
FLUID STATE: VENT GAS		PHASE: GAS						AREA CLASSIFICATION: Zone2, IIB, T4				
SERVICE CONDITION	ITEM						UNITS		Max Flow	Norm. Flow	Min. Flow	Shut-Off
	1 FLOW RATE						kg/h		-	1414	-	-
	2 INLET PRESSURE						bar(g)		-	54.1 ~ 62	-	-
	3 OUTLET PRESSURE						bar(g)		-	54.1 ~ 62	-	-
	4 DIFFERENTIAL PRESSURE						bar(g)		-	-	-	62.4
	5 INLET TEMPERATURE						°C		-	22 ~ 60	-	-
	6 DENSITY						kg/m3		-	59.63~ 1012	-	-
	7 VISCOSITY						CP		-	0.014 ~ 0.976	-	-
	8 VAPOR PRESSURE Pv						bar(a)		-	-	-	-
9 CRITICAL PRESSURE						bar(a)		-	94.65	-	-	
LINE	PIPE LINE SIZE & SCHEDULE		IN	CORROSION ALLOWANCE (mm)		1 1/2"	40S	0				
			OUT			1 1/2"	40S					
		LINE NO.		GAS-111-0054A-FS00-1 1/2"-NP								
VALVE BODY & BONNET	12 TYPE		Full Bore Ball Valve/ Floating Type									
	13 SIZE		1 1/2"									
	14 MAX PRESS./TEMP.		As per PMS									
	15 MFR. & MODEL		Will be finalized later									
	16 BODY / BONNET MATL		ASTM A351 GR.CF3M									
	17 LINER MATERIAL / ID		VTA									
	18 END CONNECTION		IN	1 1/2" /600#								
			OUT	1 1/2" /600#								
	19 FLG FACE FINISH		RF									
	20 END EXT./MATL.		N/A									
	21 FLOW DIRECTION		(Note 18 in Page 4)									
	22 TYPE OF BONNET		Standard									
	23 LUBE & ISO VALVE		No									
	24 PACKING MATERIAL		PACKING TYPE		PTFE							Standard
25 ENTRY DESIGN		Top Entry										
26 NACE REQUIREMENTNACE (MR-0175/ISO 15156)		YES										
TRIM	27 TRIM		TYPE	MATERIAL		VTA			316 SS+RPTFE			
	28 SIZE		RATED TRAVEL		VTA			VTA				
	29 CHARACTERISTICS		On/Off									
	30 BALANCED / UNBALANCED		BALANCED									
	31 RATED Cv		FL	XT	VTA		VTA		VTA			
	32 PLUG / BALL / DISK MATERIAL		316 SS									
	33 SEAT		TYPE	MATERIAL		Soft Seat			RPTFE			
	34 CAGE / GUIDE MATERIAL		VTA									
	35 STEM		TYPE	MATERIAL		Anti-Blow Out			316 SS			
	36 LEAKAGE CLASS		ANSI Class VI									
37 VALVE STEM EXTENSION REQUIREMENT		YES										
SOLENOID VALVE	38 TAG NO		BSOV-2132A , PSOV-2132A									
	39 TYPE		3 Way									
	40 BODY MATERIAL		WEATHER IP.		AISI 316 S.S			IP-65				
	41 ELE. CERTIFICATE		ELE. CONNECTION		EEx "d" ,IIB T4			ISO M20 x 1.5				
	42 MANUAL RESET		Yes									
	43 Power Supply		24 VDC									
	44 Pmt. Connection		1/4" NPT									
SPECIAL / ACCESS.	45 FUSIBLE LEAKAGE		No									
	46 BLOCK RELAY		No									
	47 QUICK EXHUST		Yes									
	49 FILTER REGULATOR		Yes									
	50 VOLUME TANK		No									
51 MECHANICAL POSITION INDICATOR		Required										
NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONFIRM (1) PMS: Piping material specification. (2) All material shall be suitable for minimum design metal temperature. (3) Shall be stated by vendor at quotation stage. (4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.												

 NIS OC		تجهیزات و افزایش تولید میدان نفتی بینک سطح الارض									
		احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک									
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		Data Sheets For ON/OFF & Shutdown Valves						شماره صفحه: ۱۷ از ۳۸			
		پروژه	بسته کاری	صادر کننده	تهیات	رشته	نوع مدرک			سریال	نسخه
		BK	GCS	PEDCO	120	IN	DT	0010	D02		
		Blowdown Valve						On-Off Valve			
TAG NO: BDV-2132B		P&ID NO: BK-GCS-PEDCO-120-PR-PI-0011-D06 (2 of 3)						SERVICE: 2nd Stage Gas Compression Air Coolers			
FLUID STATE: VENT GAS		PHASE: GAS						AREA CLASSIFICATION: Zone2, IIB, T4			
SERVICE CONDITION	ITEM						UNITS	Max Flow	Norm. Flow	Min. Flow	Shut-Off
	1 FLOW RATE						kg/h	-	1414	-	-
	2 INLET PRESSURE						bar(g)	-	54.1 ~ 62	-	-
	3 OUTLET PRESSURE						bar(g)	-	54.1 ~ 62	-	-
	4 DIFFERENTIAL PRESSURE						bar(g)	-	-	-	62.4
	5 INLET TEMPERATURE						°C	-	22 ~ 60	-	-
	6 DENSITY						kg/m3	-	59.63~ 1012	-	-
	7 VISCOSITY						CP	-	0.014 ~ 0.976	-	-
	8 VAPOR PRESSURE Pv						bar(a)	-	-	-	-
9 CRITICAL PRESSURE						bar(a)	-	94.65	-	-	
LINE	PIPE LINE SIZE & SCHEDULE		IN	CORROSION ALLOWANCE (mm)	1 1/2"	40S	0				
			OUT		1 1/2"	40S					
		LINE NO.		GAS-111-0054B-FS00-1 1/2"-NP							
VALVE BODY & BONNET	12 TYPE		Full Bore Ball Valve/ Floating Type								
	13 SIZE		1 1/2"								
	14 MAX PRESS./TEMP.		As per PMS								
	15 MFR. & MODEL		Will be finalized later								
	16 BODY / BONNET MATL		ASTM A351 GR.CF3M								
	17 LINER MATERIAL / ID		VTA								
	18 END CONNECTION		IN	1 1/2" /600#							
			OUT	1 1/2" /600#							
	19 FLG FACE FINISH		RF								
	20 END EXT./MATL.		N/A								
	21 FLOW DIRECTION		(Note 18 in Page 4)								
	22 TYPE OF BONNET		Standard								
	23 LUBE & ISO VALVE		No								
	24 PACKING MATERIAL		PACKING TYPE		PTFE				Standard		
25 ENTRY DESIGN		Top Entry									
26 NACE REQUIREMENTNACE (MR-0175/ISO 15156)		YES									
TRIM	27 TRIM		TYPE	MATERIAL	VTA		316 SS+RPTFE				
	28 SIZE		RATED TRAVEL		VTA		VTA				
	29 CHARACTERISTICS		On/Off								
	30 BALANCED / UNBALANCED		BALANCED								
	31 RATED Cv		FL	XT	VTA		VTA		VTA		
	32 PLUG / BALL / DISK MATERIAL		316 SS								
	33 SEAT		TYPE	MATERIAL	Soft Seat		RPTFE				
	34 CAGE / GUIDE MATERIAL		VTA								
	35 STEM		TYPE	MATERIAL	Anti-Blow Out		316 SS				
	36 LEAKAGE CLASS		ANSI Class VI								
37 VALVE STEM EXTENSION REQUIREMENT		YES									
SOLENOID VALVE	38 TAG NO		BSOV-2132B , PSOV-2132B								
	39 TYPE		3 Way								
	40 BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65				
	41 ELE. CERTIFICATE		ELE. CONNECTION		EEx "d" ,IIB T4		ISO M20 x 1.5				
	42 MANUAL RESET		Yes								
	43 Power Supply		24 VDC								
	44 Pmt. Connection		1/4" NPT								
SPECIAL / ACCESS.	45 FUSIBLE LEAKAGE		No								
	46 BLOCK RELAY		No								
	47 QUICK EXHUST		Yes								
	49 FILTER REGULATOR		Yes								
	50 VOLUME TANK		No								
51 MECHANICAL POSITION INDICATOR		Required									
NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONFIRM											
(1) PMS: Piping material specification.											
(2) All material shall be suitable for minimum design metal temperature.											
(3) Shall be stated by vendor at quotation stage.											
(4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.											

 NIS OC		تجهاد است و افزایش تولید میدان نفتی بینک سطح الارض						 HIRGAN ENERGY 		
		احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
نسخه: شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		Data Sheets For ON/OFF & Shutdown Valves						شماره صفحه: ۱۸ از ۳۸		
		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک			سریال
		BK	GCS	PEDCO	120	IN	DT	0010	D02	
		Blowdown Valve On-Off Valve						D02		
TAG NO: BDV-2132C		P&ID NO: BK-GCS-PEDCO-120-PR-PI-0011-D06 (3 of 3)						SERVICE: 2nd Stage Gas Compression Air Coolers		
FLUID STATE: VENT GAS		PHASE: GAS						AREA CLASSIFICATION: Zone2, IIB, T4		
SERVICE CONDITION	ITEM				UNITS		Max Flow	Norm. Flow	Min. Flow	Shut-Off
	1 FLOW RATE				kg/h		-	1414	-	-
	2 INLET PRESSURE				bar(g)		-	54.1 ~ 62	-	-
	3 OUTLET PRESSURE				bar(g)		-	54.1 ~ 62	-	-
	4 DIFFERENTIAL PRESSURE				bar(g)		-	-	-	62.4
	5 INLET TEMPERATURE				°C		-	22 ~ 60	-	-
	6 DENSITY				kg/m3		-	59.63~ 1012	-	-
	7 VISCOSITY				CP		-	0.014 ~ 0.976	-	-
	8 VAPOR PRESSURE Pv				bar(a)		-	-	-	-
9 CRITICAL PRESSURE				bar(a)		-	94.65	-	-	
LINE	PIPE LINE SIZE & SCHEDULE		IN	CORROSION ALLOWANCE (mm)	1 1/2"	40S	0			
			OUT		1 1/2"	40S				
		LINE NO.		GAS-111-0054C-FS00-1 1/2"-NP						
VALVE BODY & BONNET	12 TYPE		Full Bore Ball Valve/ Floating Type							
	13 SIZE		1 1/2"							
	14 MAX PRESS./TEMP.		As per PMS							
	15 MFR. & MODEL		Will be finalized later							
	16 BODY / BONNET MATL		ASTM A351 GR.CF3M							
	17 LINER MATERIAL / ID		VTA							
	18 END CONNECTION		IN	1 1/2" /600#						
			OUT	1 1/2" /600#						
	19 FLG FACE FINISH		RF							
	20 END EXT./MATL.		N/A							
	21 FLOW DIRECTION		(Note 18 in Page 4)							
	22 TYPE OF BONNET		Standard							
	23 LUBE & ISO VALVE		No							
	24 PACKING MATERIAL		PACKING TYPE		PTFE		Standard			
25 ENTRY DESIGN		Top Entry								
26 NACE REQUIREMENTNACE (MR-0175/ISO 15156)		YES								
TRIM	27 TRIM		TYPE	MATERIAL	VTA		316 SS+RPTFE			
	28 SIZE		RATED TRAVEL		VTA		VTA			
	29 CHARACTERISTICS		On/Off							
	30 BALANCED / UNBALANCED		BALANCED							
	31 RATED Cv		FL	XT	VTA		VTA		VTA	
	32 PLUG / BALL / DISK MATERIAL		316 SS							
	33 SEAT		TYPE	MATERIAL	Soft Seat		RPTFE			
	34 CAGE / GUIDE MATERIAL		VTA							
	35 STEM		TYPE	MATERIAL	Anti-Blow Out		316 SS			
	36 LEAKAGE CLASS		ANSI Class VI							
37 VALVE STEM EXTENSION REQUIREMENT		YES								
SOLENOID VALVE	38 TAG NO		BSOV-2132C , PSOV-2132C							
	39 TYPE		3 Way							
	40 BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65			
	41 ELE. CERTIFICATE		ELE. CONNECTION		EEx "d" ,IIB T4		ISO M20 x 1.5			
	42 MANUAL RESET		Yes							
	43 Power Supply		24 VDC							
	44 Pmt. Connection		1/4" NPT							
SPECIAL / ACCESS.	45 FUSIBLE LEAKAGE		No							
	46 BLOCK RELAY		No							
	47 QUICK EXHUST		Yes							
	49 FILTER REGULATOR		Yes							
	50 VOLUME TANK		No							
51 MECHANICAL POSITION INDICATOR		Required								
NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONFIRM										
(1) PMS: Piping material specification.										
(2) All material shall be suitable for minimum design metal temperature.										
(3) Shall be stated by vendor at quotation stage.										
(4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.										

 NIS OC		تکداشت و افزایش تولید میدان نفتی بینک سطح الارض					 HIRGAN ENERGY													
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه		بسته کاری		صادر کننده		تسهیلات		رشته		نوع مدرک		سریال		نسخه				
		BK		GCS		PEDCO		120		IN		DT		0010		D02				
		Blowdown Valve On-Off Valve															D02			
TAG NO: BDV-2141		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0012-D06										SERVICE: 2nd Stage Gas Compression Discharge Drum								
FLUID STATE: FLARE GAS		PHASE: GAS										AREA CLASSIFICATION: Zone2, IIB, T4								
SERVICE CONDITION	ITEM										UNITS		Max Flow		Norm. Flow		Min. Flow		Shut-Off	
	1 FLOW RATE										kg/h		1825							
	2 INLET PRESSURE										bar(g)		53.9 ~ 62		53.9 ~ 62		53.9 ~ 62		-	
	3 OUTLET PRESSURE										bar(g)		53.9 ~ 62		53.9 ~ 62		53.9 ~ 62		-	
	4 DIFFERENTIAL PRESSURE										bar(g)		-		-		-		90	
	5 INLET TEMPERATURE										°C		21 ~ 59.89		21 ~ 59.89		21 ~ 59.89		-	
	6 DENSITY										kg/m3		59.17 ~ 1012		59.17 ~ 1012		59.17 ~ 1012		-	
	7 VISCOSITY										CP		0.014 ~ 0.976		0.014 ~ 0.976		0.014 ~ 0.976		-	
	8 VAPOR PRESSURE Pv										bar(a)		3.25		3.25		3.25		-	
9 CRITICAL PRESSURE										bar(a)		106		106		106		-		
LINE	10 PIPE LINE SIZE & SCHEDULE		IN		CORROSION ALLOWANCE (mm)		1 1/2" 160		3		53 TYPE		Single Acting , Spring Return							
			OUT				1 1/2" 160				54 SIZE		VTA							
		11 LINE NO.		GAS-111-0065-FN05-1 1/2"-PT										55 SPRING FAIL ACTION		Fail to Open				
VALVE BODY & BONNET	12 TYPE		Full Bore Ball Valve/ Floating Type										56 MAX ALLOWABLE PRESSURE		VTA					
	13 SIZE		1 1/2"										57 MIN REQUIRES PRESSURE		VTA					
	14 MAX PRESS./TEMP.		As per PMS										58 AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g					
	15 MFR. & MODEL		Will be finalized later										59 BENCH RANGE		VTA					
	16 BODY / BONNET MATL		ASTM A216 Gr. WCB										60 TRAVELING TIME		5 S					
	17 LINER MATERIAL / ID		VTA										61 FUNCTION		On/Off					
	18 END CONNECTION		IN		1 1/2" /600#				62 LOCAL POSITION INDICATOR		Required									
			OUT		1 1/2" /600#				63 ACT. ORIENTATION		VTA									
	19 FLG FACE FINISH		RF										64 HAND WHEEL TYPE		Decutchable side mounted					
	20 END EXT./MATL.		N/A										65 ADJUSTABLE LIMIT STOP		No					
	21 FLOW DIRECTION		(Note 18 in Page 4)										66 INPUT SIGNAL		24VDC					
	22 TYPE OF BONNET		Standard										67 MFR. & MODEL		Will be finalized later					
	23 LUBE & ISO VALVE		No										68 TYPE		N/A					
	24 PACKING MATERIAL		PACKING TYPE		PTFE		Standard		69 MFR. & MODEL		Will be finalized later									
25 ENTRY DESIGN		Top Entry										70 ON INCR SIGNAL OUTPUT INCR / DECR		N/A						
26 NACE REQUIREMENTNACE (MR-0175/ISO 15156)		YES										71 GAUGES		N/A						
TRIM	27 TRIM		TYPE		MATERIAL		VTA		316 SS+RPTFE		72 CAM CHARACTERISTIC		N/A							
	28 SIZE		RATED TRAVEL		VTA		VTA		73 AIR CONNECTION		N/A									
	29 CHARACTERISTICS		On/Off										74 TAG NO. :		BZSC-2110 / BZSO-2110					
	30 BALANCED / UNBALANCED		BALANCED										75 TYPE		QUANTITY		Magnetically operated 'REED' contacts		2	
	31 RATED Cv		FL		XT		VTA		VTA		76 CONTACTS / RATING		110V DC , 10A							
	32 PLUG / BALL / DISK MATERIAL		316 SS										77 ACTUATION POINT		Fully Open/Close					
	33 SEAT		TYPE		MATERIAL		Soft Seat		RPTFE		78 ENCLOSURE MATERIAL		Die Cast Amulium							
	34 CAGE / GUIDE MATERIAL		VTA										79 WEATHER PROTECTION		IP-65					
	35 STEM		TYPE		MATERIAL		Anti-Blow Out		316 SS		80 ELEC. CERTIFICATE		ELEC. CONNECTION		EEx "d" ,IIB T4		ISO M20 × 1.5			
	36 LEAKAGE CLASS		ANSI Class VI										81 MFR. & MODEL		Will be finalized later					
37 VALVE STEM EXTENSION REQUIREMENT		YES										82 SET PRESSURE		Yes						
SOLENOID VALVE	38 TAG NO		BSOV-2141										83 PNEUMATIC CONNECTION		1/4" NPT					
	39 TYPE		3 Way										84 GAUGES		FILTER		Required		Required	
	40 BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65		85 MFR. & MODEL		Will be finalized later									
	41 ELE. CERTIFICATE		ELE. CONNECTION		EEx "d" ,IIB T4		ISO M20 x 1.5		86 ANSI/FCI LEAKAGE CLASS		Required									
	42 MANUAL RESET		Yes										87 HYDRO PRESSURE		Required					
	43 Power Supply		24 VDC										88 FUNCTIONAL TEST		Required					
	44 Pna. Connection		1/4" NPT										89							
SPECIAL / ACCESS.	45 FUSIBLE LEAKAGE		No										90							
	46 BLOCK RELAY		No										91 PASSIVE FIRE PROTECTION		No					
	47 QUICK EXHUST		Yes										92 API 6FA REQUIREMENTS		Yes					
	49 FILTER REGULATOR		Yes										93 SIL 3 REQUIREMENTS		Yes					
	50 VOLUME TANK		No										94 PARTIAL STROKING VALVE TEST		Yes					
51 MECHANICAL POSITION INDICATOR		Required										95								
NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONFIRM (1) PMS: Piping material specification. (2) All material shall be suitable for minimum design metal temperature. (3) Shall be stated by vendor at quotation stage. (4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.																				

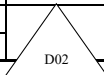
 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض						 HIRGAN ENERGY						
شماره پیمان: ۹۰۳۸ - ۰۷۳ - ۰۵۳		احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک												
		Data Sheets For ON/OFF & Shutdown Valves												
		پروژه		پسته کاری		صادرکننده		تهیلات		رشته				
		BK		GCS		PEDCO		120		IN				
								DT		0010				
										D02				
		Blowdown Valve						On-Off Valve		D02				
TAG NO: BDV-2151		P&ID NO: BK-GCS-PEDCO-120-PR-PL-0013-D06						SERVICE: Dehydration Package						
FLUID STATE: VENT GAS		PHASE: GAS						AREA CLASSIFICATION: Zone2, IIB, T4						
SERVICE CONDITION	ITEM						UNITS	Max Flow	Norm. Flow	Min. Flow	Shut-Off			
	1	FLOW RATE						kg/h	-	4843	-	-		
	2	INLET PRESSURE						bar(g)	-	52.9 ~ 62	-	-		
	3	OUTLET PRESSURE						bar(g)	-	52.9 ~ 62	-	-		
	4	DIFFERENTIAL PRESSURE						bar(g)	-	-	-	90		
	5	INLET TEMPERATURE						°C	-	22~ 59.4	-	-		
	6	DENSITY						kg/m3	-	58.06 ~ 1012	-	-		
	7	VISCOSITY						CP	-	0.013 ~ 0.964	-	-		
	8	VAPOR PRESSURE Pv						bar(a)	-	3.234	-	-		
9	CRITICAL PRESSURE						bar(a)	-	105.9	-	-			
LINE	10	PIPE LINE SIZE & SCHEDULE		IN	CORROSION ALLOWANCE (mm)	3"	80	6	53	TYPE		Single Acting , Spring Return		
	11	LINE NO.		OUT		3"	80		54	SIZE		VTA		
VALVE BODY & BONNET	GAS-111-0071-FN05-3"-PT							55	SPRING FAIL ACTION		Fail to Open			
	12	TYPE						Full Bore Ball Valve/ Floating Type	56	MAX ALLOWABLE PRESSURE		VTA		
	13	SIZE						3"	57	MIN REQUIRES PRESSURE		VTA		
	14	MAX PRESS./TEMP.						As per PMS	58	AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g		
	15	MFR. & MODEL						Will be finalized later	59	BENCH RANGE		VTA		
	16	BODY / BONNET MATL						ASTM A216 Gr. WCB	60	TRAVELING TIME		5 S		
	17	LINER MATERIAL / ID						VTA	61	FUNCTION		On/Off		
	18	END CONNECTION		IN	3" / 600#			62	LOCAL POSITION INDICATOR		Required			
	19	OUT		3" / 600#			63	ACT. ORIENTATION		VTA				
	20	FLG FACE FINISH						RF	64	HAND WHEEL TYPE		Dec clutchable side mounted		
TRIM	END EXT./MATL.						N/A	65	ADJUSTABLE LIMIT STOP		No			
	FLOW DIRECTION						(Note 18 in Page 4)	66	INPUT SIGNAL		24VDC			
	TYPE OF BONNET						Standard	67	MFR. & MODEL		Will be finalized later			
	LUBE & ISO VALVE						No	68	TYPE		N/A			
	PACKING MATERIAL		PACKING TYPE		PTFE		Standard	69	MFR. & MODEL		Will be finalized later			
	ENTRY DESIGN						Top Entry	70	ON INCR SIGNAL OUTPUT INCR / DECR		N/A			
	NACE REQUIREMENTNACE (MR-0175/ISO 15156)						YES	71	GAUGES		N/A			
	27	TRIM		TYPE	MATERIAL		VTA	316 SS+RPTFE	72	CAM CHARACTERISTIC		N/A		
	28	SIZE		RATED TRAVEL		VTA		VTA	73	AIR CONNECTION		N/A		
	29	CHARACTERISTICS						On/Off	74	TAG NO. :		BZSC-2110 / BZSO-2110		
SOLENOID VALVE	BALANCED / UNBALANCED						BALANCED	75	TYPE		QUANTITY	Magnetically operated 'REED' contacts		2
	31	RATED Cv		FL	XT		VTA	VTA	VTA	76	CONTACTS / RATING		110V DC , 10A	
	32	PLUG / BALL / DISK MATERIAL						316 SS	77	ACTUATION POINT		Fully Open/Close		
	33	SEAT		TYPE	MATERIAL		Soft Seat	RPTFE	78	ENCLOSURE MATERIAL		Die Cast Amulium		
	34	CAGE / GUIDE MATERIAL						VTA	79	WEATHER PROTECTION		IP-65		
	35	STEM		TYPE	MATERIAL		Anti-Blow Out	316 SS	80	ELEC. CERTIFICATE		ELEC. CONNECTION	EEx "d", IIB T4	ISO M20 x 1.5
	LEAKAGE CLASS						ANSI Class V1	81	MFR. & MODEL		Will be finalized later			
	VALVE STEM EXTENSION REQUIREMENT						YES	82	SET PRESSURE		Yes			
	38	TAG NO						BSOV-2151	83	PNEUMATIC CONNECTION		1/4" NPT		
	39	TYPE						3 Way	84	GAUGES		FILTER	Required	Required
SPECIAL / ACCESS.	BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65	85	MFR. & MODEL		Will be finalized later			
	ELE. CERTIFICATE		ELE. CONNECTION		EEx "d", IIB T4		ISO M20 x 1.5	86	ANSI/FCI LEAKAGE CLASS		Required			
	MANUAL RESET						Yes	87	HYDRO PRESSURE		Required			
	Power Supply						24 VDC	88	FUNCTIONAL TEST		Required			
	Pnu. Connection						1/4" NPT	89						
	FUSIBLE LEAKAGE						No	90						
	BLOCK RELAY						No	91	PASSIVE FIRE PROTECTION		No			
	QUICK EXHUST						Yes	92	API 6FA REQUIREMENTS		Yes			
	FILTER REGULATOR						Yes	93	SIL 3 REQUIREMENTS		Yes			
	VOLUME TANK						No	94	PARTIAL STROKING VALVE TEST		Yes			
MECHANICAL POSITION INDICATOR						Required	95							
NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONFIRM														
(1) PMS: Piping material specification.														
(2) All material shall be suitable for minimum design metal temperature.														
(3) Shall be stated by vendor at quotation stage.														
(4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.														

 NIS OC		تکده‌داشت و افزایش تولید میدان نفتی بینک سطح الارض						 									
شماره پیمان: ۰۵۳ - ۰۷۳ - ۰۹۰۲۸		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۲۲ از ۳۸							
BK		GCS	PEDCO	120	IN	DT	0010	D02	D02								
On-Off Valve																	
TAG NO: XV-2121A		P&ID NO :		BK-GCS-PEDCO-120-PR-PI-0006-D06 (1 of 3)					SERVICE: 1st Stage Gas Compression Suction Drums								
FLUID STATE: PROCESS GAS		PHASE:		GAS					AREA CLASSIFICATION: Zone2, IIB, T4								
SERVICE CONDITION	ITEM				UNITS		Max Flow		Norm. Flow		Min. Flow		Shut-Off				
	1 FLOW RATE				kg/h		9530.4		8664.0		3032.4		-				
	2 INLET PRESSURE				bar(g)		5.1		5.1		5.1		-				
	3 OUTLET PRESSURE				bar(g)		5.1		5.1		5.1		-				
	4 DIFFERENTIAL PRESSURE				bar(g)		-		-		-		18.2				
	5 INLET TEMPERATURE				°C		19.02 ~ 36.92		19.02 ~ 36.92		19.02 ~ 36.92		-				
	6 DENSITY				kg/m3		5.56 ~ 5.96		5.56 ~ 5.96		5.56 ~ 5.96		-				
	7 VISCOSITY				CP		0.011		0.011		0.011		-				
	8 VAPOR PRESSURE Pv				bar(a)		167.7		167.7		167.7		-				
9 CRITICAL PRESSURE				bar(a)		94.65		94.65		94.65		-					
LINE	10 PIPE LINE SIZE & SCHEDULE		IN	CORROSION ALLOWANCE (mm)		8" 60	6		53 TYPE				Single Acting, Spring Return				
	11 LINE NO.		OUT	8" 60		GAS-111-0026A-AN07-8"-PT		54 SIZE				VTA					
VALVE BODY & BONNET	12 TYPE		Full Bore Ball Valve/Trunnion Mounted		55 SPRING FAIL ACTION				Fail to Close								
	13 SIZE		8"		56 MAX ALLOWABLE PRESSURE				VTA								
	14 MAX PRESS./TEMP.		As per PMS		57 MIN REQUIRES PRESSURE				VTA								
	15 MFR. & MODEL		Will be finalized later		58 AVAILABLE AIR SUPPLY PRESSURE				MAX/NOR/MIN: 10/7/3 bar-g								
	16 BODY / BONNET MATL		ASTM A216 Gr. WCB		59 BENCH RANGE				VTA								
	17 LINER MATERIAL /ID		VTA		60 TRAVELING TIME				9 S								
	18 END CONNECTION		IN	8"/300#		61 FUNCTION				On/Off							
	19 FLG FACE FINISH		OUT	8"/300#		62 LOCAL POSITION INDICATOR				Required							
	20 END EXT./MATL.		N/A		63 ACT. ORIENTATION				VTA								
	21 FLOW DIRECTION		(Note 18 in Page 4)		64 HAND WHEEL TYPE				Clutchable side mounted								
	22 TYPE OF BONNET		Standard		65 ADJUSTABLE LIMIT STOP				Yes								
	23 LUBE & ISO VALVE		No		66 INPUT SIGNAL				24VDC								
	24 PACKING MATERIAL		PACKING TYPE		PTFE		Standard		67 MFR. & MODEL				Will be finalized later				
	25 ENTRY DESIGN		Top Entry		68 TYPE				N/A								
26 NACE REQUIREMENTNACE (MR-0175/ISO 15156)		YES		69 MFR. & MODEL				Will be finalized later									
TRIM	27 TRIM		TYPE	MATERIAL		VTA		316 SS+PTFE		70 ON INCR SIGNAL OUTPUT INCR / DECR				N/A			
	28 SIZE		RATED TRAVEL		VTA		VTA		71 GAUGES				N/A				
	29 CHARACTERISTICS		On/Off		72 CAM CHARACTERISTIC				N/A								
	30 BALANCED / UNBALANCED		BALANCED		73 AIR CONNECTION				N/A								
	31 RATED Cv		FL	XT		VTA		VTA		VTA		74 TAG NO. :				BZSC-2110 / BZSO-2110	
	32 PLUG / BALL / DISK MATERIAL		316 SS		75 TYPE				QUANTITY		Magnetically operated 'REED' contacts		2				
	33 SEAT		TYPE	MATERIAL		Soft Seat		PTFE		76 CONTACTS / RATING				110V DC , 10A			
	34 CAGE / GUIDE MATERIAL		VTA		77 ACTUATION POINT				Fully Open/Close								
	35 STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS		78 ENCLOSURE MATERIAL				Die Cast Amuluminum			
	36 LEAKAGE CLASS		ANSI Class VI		79 WEATHER PROTECTION				IP-65								
SOLENOID VALVE	38 TAG NO		PSOV-2121A , ESOV-2121A		80 ELEC. CERTIFICATE				ELEC. CONNECTION		EEx "d", IIB T4		ISO M20 x 1.5				
	39 TYPE		3 Way		81 MFR. & MODEL				Will be finalized later								
	40 BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65		82 SET PRESSURE				Yes				
	41 ELE. CERTIFICATE		ELE. CONNECTION		EEx "d", IIB T4		ISO M20 x 1.5		83 PNEUMATIC CONNECTION				1/4" NPT				
	42 MANUAL RESET		Yes		84 GAUGES				FILTER		Required		Required				
	43 Power Supply		24 VDC		85 MFR. & MODEL				Will be finalized later								
SPECIAL / ACCESS.	44 Pnu. Connection		1/4" NPT		86 ANSI/FCI LEAKAGE CLASS				Required								
	45 FUSIBLE LEAKAGE		No		87 HYDRO PRESSURE				Required								
	46 BLOCK RELAY		No		88 FUNCTIONAL TEST				Required								
	47 QUICK EXHUST		Yes														
	49 FILTER REGULATOR		Yes														
	50 VOLUME TANK		Yes														
	51 MECHANICAL POSITION INDICATOR		Required														
	52 MANUAL/PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE		Yes														
NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONFIRM																	
(1) PMS: Piping material specification.																	
(2) All material shall be suitable for minimum design metal temperature.																	
(3) Shall be stated by vendor at quotation stage.																	
(4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.																	

 NIS OC		تکده‌داشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک Data Sheets For ON/OFF & Shutdown Valves						 				
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تهیه‌ات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۳۸ از ۳۳		
BK		GCS	PEDCO	120	IN	DT	0010	D02	D02			
On-Off Valve												
TAG NO: XV-2121B		P&ID NO :		BK-GCS-PEDCO-120-PR-PI-0006-D06 (2 of 3)				SERVICE: 1st Stage Gas Compression Suction Drums				
FLUID STATE: PROCESS GAS		PHASE:		GAS				AREA CLASSIFICATION: Zone2, IIB, T4				
SERVICE CONDITION	ITEM						UNITS		Max Flow	Norm. Flow	Min. Flow	Shut-Off
	1 FLOW RATE						kg/h		9530.4	8664.0	3032.4	-
	2 INLET PRESSURE						bar(g)		5.1	5.1	5.1	-
	3 OUTLET PRESSURE						bar(g)		5.1	5.1	5.1	-
	4 DIFFERENTIAL PRESSURE						bar(g)		-	-	-	18.2
	5 INLET TEMPERATURE						°C		19.02 ~ 36.92	19.02 ~ 36.92	19.02 ~ 36.92	-
	6 DENSITY						kg/m3		5.56 ~ 5.96	5.56 ~ 5.96	5.56 ~ 5.96	-
	7 VISCOSITY						CP		0.011	0.011	0.011	-
	8 VAPOR PRESSURE Pv						bar(a)		167.7	167.7	167.7	-
9 CRITICAL PRESSURE						bar(a)		94.65	94.65	94.65	-	
LINE	10 PIPE LINE SIZE & SCHEDULE		IN	CORROSION ALLOWANCE (mm)		8" 60	6		53 TYPE			Single Acting, Spring Return
	11 LINE NO.		OUT	8" 60		GAS-111-0026B-AN27-8"-PT		54 SIZE		VTA		
VALVE BODY & BONNET	12 TYPE		Full Bore Ball Valve/Trunnion Mounted		55 SPRING FAIL ACTION		Fail to Close					
	13 SIZE		8"		56 MAX ALLOWABLE PRESSURE		VTA					
	14 MAX PRESS./TEMP.		As per PMS		57 MIN REQUIRES PRESSURE		VTA					
	15 MFR. & MODEL		Will be finalized later		58 AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g					
	16 BODY / BONNET MATL		ASTM A216 Gr. WCB		59 BENCH RANGE		VTA					
	17 LINER MATERIAL /ID		VTA		60 TRAVELING TIME		9 S					
	18 END CONNECTION		IN	8"/300#		61 FUNCTION		On/Off				
	19 FLG FACE FINISH		OUT	8"/300#		62 LOCAL POSITION INDICATOR		Required				
	20 END EXT./MATL.		N/A		63 ACT. ORIENTATION		VTA					
	21 FLOW DIRECTION		(Note 18 in Page 4)		64 HAND WHEEL TYPE		Clutchable side mounted					
	22 TYPE OF BONNET		Standard		65 ADJUSTABLE LIMIT STOP		Yes					
	23 LUBE & ISO VALVE		No		66 INPUT SIGNAL		24VDC					
	24 PACKING MATERIAL		PACKING TYPE		PTFE		Standard					
	25 ENTRY DESIGN		Top Entry		67 MFR. & MODEL		Will be finalized later					
26 NACE REQUIREMENTNACE (MR-0175/ISO 15156)		YES		68 TYPE		N/A						
TRIM	27 TRIM		TYPE	MATERIAL		VTA		316 SS+PTFE				
	28 SIZE		RATED TRAVEL		VTA		VTA					
	29 CHARACTERISTICS		On/Off		69 MFR. & MODEL		Will be finalized later					
	30 BALANCED / UNBALANCED		BALANCED		70 ON INCR SIGNAL OUTPUT INCR / DECR		N/A					
	31 RATED Cv		FL	XT		71 GAUGES		N/A				
	32 PLUG / BALL / DISK MATERIAL		316 SS		72 CAM CHARACTERISTIC		N/A					
	33 SEAT		TYPE	MATERIAL		Soft Seat		PTFE				
	34 CAGE / GUIDE MATERIAL		VTA		73 AIR CONNECTION		N/A					
	35 STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS				
	36 LEAKAGE CLASS		ANSI Class VI		74 TAG NO. :		BZSC-2110 / BZSO-2110					
37 VALVE STEM EXTENSION REQUIREMENT		YES		75 TYPE		QUANTITY	Magnetically operated 'REED' contacts		2			
SOLENOID VALVE	38 TAG NO		PSOV-2121B, ESOV-2121B		76 CONTACTS / RATING		110V DC , 10A					
	39 TYPE		3 Way		77 ACTUATION POINT		Fully Open/Close					
	40 BODY MATERIAL		WEATHER IP.		78 ENCLOSURE MATERIAL		Die Cast Amuluminum					
	41 ELE. CERTIFICATE		ELE. CONNECTION		79 WEATHER PROTECTION		IP-65					
	42 MANUAL RESET		Yes		80 ELEC. CERTIFICATE		ELEC. CONNECTION	EEx "d", IIB T4	ISO M20 x 1.5			
	43 Power Supply		24 VDC		81 MFR. & MODEL		Will be finalized later					
	44 Pnu. Connection		1/4" NPT		82 SET PRESSURE		Yes					
SPECIAL / ACCESS.	45 FUSIBLE LEAKAGE		No		83 PNEUMATIC CONNECTION		1/4" NPT					
	46 BLOCK RELAY		No		84 GAUGES		FILTER	Required	Required			
	47 QUICK EXHUST		Yes		85 MFR. & MODEL		Will be finalized later					
	49 FILTER REGULATOR		Yes		86 ANSI/FCI LEAKAGE CLASS		Required					
	50 VOLUME TANK		Yes		87 HYDRO PRESSURE		Required					
	51 MECHANICAL POSITION INDICATOR		Required		88 FUNCTIONAL TEST		Required					
	52 MANUAL/PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE		Yes									
NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONFIRM (1) PMS: Piping material specification. (2) All material shall be suitable for minimum design metal temperature. (3) Shall be stated by vendor at quotation stage. (4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.												

 NIS OC		تکده‌داشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک Data Sheets For ON/OFF & Shutdown Valves						 				
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تهیه‌ات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۳۸ از ۲۴		
BK		GCS	PEDCO	120	IN	DT	0010	D02	D02			
On-Off Valve												
TAG NO: XV-2121C		P&ID NO :		BK-GCS-PEDCO-120-PR-PI-0006-D06 (3 of 3)				SERVICE: 1st Stage Gas Compression Suction Drums				
FLUID STATE: PROCESS GAS		PHASE:		GAS				AREA CLASSIFICATION: Zone2, IIB, T4				
SERVICE CONDITION	ITEM						UNITS		Max Flow	Norm. Flow	Min. Flow	Shut-Off
	1 FLOW RATE						kg/h		9530.4	8664.0	3032.4	-
	2 INLET PRESSURE						bar(g)		5.1	5.1	5.1	-
	3 OUTLET PRESSURE						bar(g)		5.1	5.1	5.1	-
	4 DIFFERENTIAL PRESSURE						bar(g)		-	-	-	18.2
	5 INLET TEMPERATURE						°C		19.02 ~ 36.92	19.02 ~ 36.92	19.02 ~ 36.92	-
	6 DENSITY						kg/m3		5.56 ~ 5.96	5.56 ~ 5.96	5.56 ~ 5.96	-
	7 VISCOSITY						CP		0.011	0.011	0.011	-
	8 VAPOR PRESSURE Pv						bar(a)		167.7	167.7	167.7	-
9 CRITICAL PRESSURE						bar(a)		94.65	94.65	94.65	-	
LINE	10 PIPE LINE SIZE & SCHEDULE		IN	CORROSION ALLOWANCE (mm)		8" 60	6					
	11 LINE NO.		OUT			8" 60						
						GAS-111-0026C-AN07-8"-PT						
VALVE BODY & BONNET	12 TYPE						Full Bore Ball Valve/Trunnion Mounted					
	13 SIZE						8"					
	14 MAX PRESS./TEMP.						As per PMS					
	15 MFR. & MODEL						Will be finalized later					
	16 BODY / BONNET MATL						ASTM A216 Gr. WCB					
	17 LINER MATERIAL /ID						VTA					
	18 END CONNECTION		IN			8"/300#						
			OUT			8"/300#						
	19 FLG FACE FINISH						RF					
	20 END EXT./MATL.						N/A					
	21 FLOW DIRECTION						(Note 18 in Page 4)					
	22 TYPE OF BONNET						Standard					
23 LUBE & ISO VALVE						No						
24 PACKING MATERIAL		PACKING TYPE		PTFE		Standard						
25 ENTRY DESIGN						Top Entry						
26 NACE REQUIREMENTNACE (MR-0175/ISO 15156)						YES						
TRIM	27 TRIM		TYPE	MATERIAL		VTA	316 SS+PTFE					
	28 SIZE		RATED TRAVEL		VTA	VTA						
	29 CHARACTERISTICS						On/Off					
	30 BALANCED / UNBALANCED						BALANCED					
	31 RATED Cv		FL	XT		VTA	VTA	VTA				
	32 PLUG / BALL / DISK MATERIAL						316 SS					
	33 SEAT		TYPE	MATERIAL		Soft Seat	PTFE					
	34 CAGE / GUIDE MATERIAL						VTA					
	35 STEM		TYPE	MATERIAL		Anti-Blow Out	316 SS					
	36 LEAKAGE CLASS						ANSI Class VI					
37 VALVE STEM EXTENSION REQUIREMENT						YES						
SOLENOID VALVE	38 TAG NO		PSOV-2121C, ESOV-2121C									
	39 TYPE		3 Way									
	40 BODY MATERIAL		WEATHER IP.		AISI 316 S.S	IP-65						
	41 ELE. CERTIFICATE		ELE. CONNECTION		EEx "d", IIB T4	ISO M20 x 1.5						
	42 MANUAL RESET						Yes					
	43 Power Supply						24 VDC					
	44 Pnu. Connection						1/4" NPT					
SPECIAL / ACCESS.	45 FUSIBLE LEAKAGE						No					
	46 BLOCK RELAY						No					
	47 QUICK EXHUST						Yes					
	49 FILTER REGULATOR						Yes					
	50 VOLUME TANK						Yes					
	51 MECHANICAL POSITION INDICATOR						Required					
	52 MANUAL/PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE						Yes					
NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONFIRM												
(1) PMS: Piping material specification.												
(2) All material shall be suitable for minimum design metal temperature.												
(3) Shall be stated by vendor at quotation stage.												
(4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.												

 NIS OC		تکده‌داشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک Data Sheets For ON/OFF & Shutdown Valves						 				
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۳۸ از ۳۰		
		BK	GCS	PEDCO	120	IN	DT	0010	D02	D02		
On-Off Valve												
TAG NO: XV-2131C		P&ID NO :		BK-GCS-PEDCO-120-PR-PI-0009-D06 (3 of 3)				SERVICE: 2nd Stage Gas Compression Suction Drums				
FLUID STATE: PROCESS GAS		PHASE:		GAS				AREA CLASSIFICATION: Zone2, IIB, T4				
SERVICE CONDITION	ITEM				UNITS		Max Flow		Norm. Flow		Min. Flow	Shut-Off
	1 FLOW RATE				kg/h		-		10000		-	
	2 INLET PRESSURE				bar(g)		-		18.1		-	
	3 OUTLET PRESSURE				bar(g)		-		18.1		-	
	4 DIFFERENTIAL PRESSURE				bar(g)		-		-		30.3	
	5 INLET TEMPERATURE				°C		-		59.88		-	
	6 DENSITY				kg/m3		-		981.1		-	
	7 VISCOSITY				CP		-		0.496		-	
	8 VAPOR PRESSURE Pv				bar(a)		-		3.23		-	
9 CRITICAL PRESSURE				bar(a)		221.5		221.5		221.5		
LINE	10 PIPE LINE SIZE & SCHEDULE		IN	CORROSION ALLOWANCE (mm)		2"	10S		0			
			OUT			2"	10S					
11 LINE NO.		CDH-111-0023C-CS00-2"-NP										
VALVE BODY & BONNET	12 TYPE		Full Bore Ball Valve/Trunnion Mounted									
	13 SIZE		2"									
	14 MAX PRESS./TEMP.		As per PMS									
	15 MFR. & MODEL		Will be finalized later									
	16 BODY / BONNET MATL		ASTM A351 GR.CF3M									
	17 LINER MATERIAL /ID		VTA									
	18 END CONNECTION	IN		2"/300#								
		OUT		2"/300#								
	19 FLG FACE FINISH		RF									
	20 END EXT./MATL.		N/A									
	21 FLOW DIRECTION		(Note 18 in Page 4)									
	22 TYPE OF BONNET		Standard									
23 LUBE & ISO VALVE		No										
24 PACKING MATERIAL		PACKING TYPE		PTFE								
25 ENTRY DESIGN		Top Entry										
26 NACE REQUIREMENTNACE (MR-0175/ISO 15156)		No										
TRIM	27 TRIM		TYPE	MATERIAL		VTA		316 SS+RPTFE				
	28 SIZE		RATED TRAVEL		VTA		VTA					
	29 CHARACTERISTICS		On/Off									
	30 BALANCED / UNBALANCED		BALANCED									
	31 RATED Cv		FL	XT	VTA		VTA		VTA			
	32 PLUG / BALL / DISK MATERIAL		316 SS									
	33 SEAT		TYPE	MATERIAL		Soft Seat		RPTFE				
	34 CAGE / GUIDE MATERIAL		VTA									
	35 STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS				
	36 LEAKAGE CLASS		ANSI Class VI									
37 VALVE STEM EXTENSION REQUIREMENT		YES										
SOLENOID VALVE	38 TAG NO		PSOV-2131C, ESOV-2131C									
	39 TYPE		3 Way									
	40 BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65					
	41 ELE. CERTIFICATE		ELE. CONNECTION		EEx "d", IIB T4		ISO M20 x 1.5					
	42 MANUAL RESET		Yes									
	43 Power Supply		24 VDC									
	44 Pnu. Connection		1/4" NPT									
SPECIAL / ACCESS.	45 FUSIBLE LEAKAGE		No									
	46 BLOCK RELAY		No									
	47 QUICK EXHUST		Yes									
	49 FILTER REGULATOR		Yes									
	50 VOLUME TANK		Yes									
	51 MECHANICAL POSITION INDICATOR		Required									
	52 MANUAL/PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE		Yes									
NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONFIRM												
(1) PMS: Piping material specification.												
(2) All material shall be suitable for minimum design metal temperature.												
(3) Shall be stated by vendor at quotation stage.												
(4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.												

 NISOC				تجهداشت و افزایش تولید میدان نفتی بینک سطح الارض					 HIRGAN ENERGY 							
				احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک												
				Data Sheets For ON/OFF & Shutdown Valves												
شماره پیمان: ۰۵۳ - ۰۷۳ - ۰۹۰۳۸				پروژه	پسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۳۴ از ۳۸				
				BK	GCS	PEDCO	120	IN	DT	0010	D02					
On-Off Valve												 D02				
TAG NO: XV-2142				P&ID NO :		BK-GCS-PEDCO-120-PR-PI-0012-D06					SERVICE: 2nd Stage Gas Compression Discharge Drum					
FLUID STATE: PROCESS GAS				PHASE:		GAS					AREA CLASSIFICATION: Zone2, IIB, T4					
SERVICE CONDITION	ITEM					UNITS		Max Flow		Norm. Flow		Min. Flow		Shut-Off		
	1 FLOW RATE					kg/h		18977.7		17252.5		6038.4		-		
	2 INLET PRESSURE					bar(g)		53.9		53.9		53.9		-		
	3 OUTLET PRESSURE					bar(g)		53.9		53.9		53.9		-		
	4 DIFFERENTIAL PRESSURE					bar(g)		-		-		-		90		
	5 INLET TEMPERATURE					°C		59.89		59.89		59.89		-		
	6 DENSITY					kg/m3		49.41~ 59.17		49.41~ 59.17		49.41~ 59.17		-		
	7 VISCOSITY					CP		0.014		0.014		0.014		-		
	8 VAPOR PRESSURE Pv					bar(a)		3.23		3.23		3.23		-		
9 CRITICAL PRESSURE					bar(a)		106		106		106		-			
LINE	PIPE LINE SIZE & SCHEDULE		IN	CORROSION ALLOWANCE (mm)		6" 80		3		53 TYPE					Single Acting, Spring Return	
	11 LINE NO.		GAS-111-0066-FN05-6"-PT					54 SIZE					VTA			
	12 TYPE		Full Bore Ball Valve/Trunnion Mounted					55 SPRING FAIL ACTION					Fail to Close			
VALVE BODY & BONNET	13 SIZE		6"					56 MAX ALLOWABLE PRESSURE					VTA			
	14 MAX PRESS./TEMP.		As per PMS					57 MIN REQUIRES PRESSURE					VTA			
	15 MFR. & MODEL		Will be finalized later					58 AVAILABLE AIR SUPPLY PRESSURE					MAX/NORM/MIN: 10/7/3 bar-g			
	16 BODY / BONNET MATL		ASTM A216 Gr. WCB					59 BENCH RANGE					VTA			
	17 LINER MATERIAL / ID		VTA					60 TRAVELING TIME					7 S			
	18 END CONNECTION		IN	6" /600#		61 FUNCTION					On/Off					
			OUT	6" /600#		62 LOCAL POSITION INDICATOR					Required					
	19 FLG FACE FINISH		RF					63 ACT. ORIENTATION					VTA			
	20 END EXT. MATL		N/A					64 HAND WHEEL TYPE					Clutchable side mounted			
	21 FLOW DIRECTION		(Note 18 in Page 4)					65 ADJUSTABLE LIMIT STOP					Yes			
	22 TYPE OF BONNET		Standard					66 INPUT SIGNAL					24VDC			
	23 LUBE & ISO VALVE		No					67 MFR. & MODEL					Will be finalized later			
	24 PACKING MATERIAL		PACKING TYPE		PTFE		Standard		68 TYPE					N/A		
	25 ENTRY DESIGN		Top Entry					69 MFR. & MODEL					Will be finalized later			
26 NACE REQUIREMENTNACE (MR-0175/ISO 15156)		No					70 ON INCR SIGNAL OUTPUT INCR / DECR					N/A				
TRIM	27 TRIM		TYPE	MATERIAL		VTA		316 SS+RPTFE		71 GAUGES					N/A	
	28 SIZE		RATED TRAVEL		VTA		VTA		72 CAM CHARACTERISTIC					N/A		
	29 CHARACTERISTICS		On/Off					73 AIR CONNECTION					N/A			
	30 BALANCED / UNBALANCED		BALANCED					74 TAG NO. :					BZSC-2110 / BZSO-2110			
	31 RATED Cv		FL	XT		VTA		VTA		VTA		75 TYPE		QUANTITY	Magnetically operated "REED" contacts	2
	32 PLUG / BALL / DISK MATERIAL		316 SS					76 CONTACTS / RATING					110V DC , 10A			
	33 SEAT		TYPE	MATERIAL		Soft Seat		RPTFE		77 ACTUATION POINT					Fully Open/Close	
34 CAGE / GUIDE MATERIAL		VTA					78 ENCLOSURE MATERIAL					Die Cast Amuluminum				
35 STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS		79 WEATHER PROTECTION					IP-65		
36 LEAKAGE CLASS		ANSI Class VI					80 ELEC. CERTIFICATE					ELEC. CONNECTION	EEx "d", IIB T4	ISO M20 x 1.5		
37 VALVE STEM EXTENSION REQUIREMENT		YES					81 MFR. & MODEL					Will be finalized later				
SOLENOID VALVE	38 TAG NO		PSOV-2142, ESOV-2142					82 SET PRESSURE					Yes			
	39 TYPE		3 Way					83 PNEUMATIC CONNECTION					1/4" NPT			
	40 BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65		84 GAUGES					FILTER	Required	Required
	41 ELE. CERTIFICATE		ELE. CONNECTION		EEx "d", JIB T4		ISO M20 x 1.5		85 MFR. & MODEL					Will be finalized later		
	42 MANUAL RESET		Yes					86 ANSI/FCL LEAKAGE CLASS					Required			
	43 Power Supply		24 VDC					87 HYDRO PRESSURE					Required			
SPECIAL / ACCESS.	44 Pou. Connection		1/4" NPT					88 FUNCTIONAL TEST					Required			
	45 FUSIBLE LEAKAGE		No													
	46 BLOCK RELAY		No													
	47 QUICK EXHUST		Yes													
	49 FILTER REGULATOR		Yes													
	50 VOLUME TANK		Yes													
51 MECHANICAL POSITION INDICATOR		Required														
52 MANUALPNEUMATIC BYPASS VALVE FOR SOLENOID VALVE		Yes														
NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONFIRM																
(1) PMS: Piping material specification.																
(2) All material shall be suitable for minimum design metal temperature.																
(3) Shall be stated by vendor at quotation stage.																
(4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.																

NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONIFRM

(1) PMS: Piping material specification.

(2) All material shall be suitable for minimum design metal temperature.

(3) Shall be stated by vendor at quotation stage

(4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.



NISOC

تکهداشت و افزایش تولید میدان نفتی بینک
 سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

Data Sheets For ON/OFF & Shutdown Valves




شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸

پروژه بسته کاری صادرکننده تسهیلات رشته نوع مدارک سریال نسخه

BK GCS PEDCO 120 IN DT 0010 D02

شماره صفحه: ۳۸ از ۳۸

D02

TAG NO: **XV-2143**

P&ID NO: BK-GCS-PEDCO-120-PR-PI-0012-D06

SERVICE: Slug Catcher System

FLUID STATE: PROCESS GAS

PHASE: GAS

AREA CLASSIFICATION: Zone2, IIB, T4

NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONFIRM

(1) PMS: Piping material specification.
 (2) All material shall be suitable for minimum design metal temperature.
 (3) Shall be stated by vendor at quotation stage.
 (4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.

 NIS OC		تکده‌داشت و افزایش تولید میدان نفتی بینک سطح الارض						 				
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۲۸		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۳۸ از ۳۷		
		BK	GCS	PEDCO	120	IN	DT	0010	D02	D02		
On-Off Valve												
TAG NO: XV-2271		P&ID NO :		BK-GCS-PEDCO-120-PR-PI-0022-D06				SERVICE: Fuel Gas System				
FLUID STATE: Fuel Gas		PHASE: GAS				AREA CLASSIFICATION: Zonec2, IIB, T4						
SERVICE CONDITION	ITEM				UNITS		Max Flow		Norm. Flow		Min. Flow	Shut-Off
	1 FLOW RATE				kg/h		-		603.15		-	-
	2 INLET PRESSURE				bar(g)		-		4.9		-	-
	3 OUTLET PRESSURE				bar(g)		-		4.9		-	-
	4 DIFFERENTIAL PRESSURE				bar(g)		-		-		-	18.2
	5 INLET TEMPERATURE				°C		-		18.88~ 36.7		-	-
	6 DENSITY				kg/m3		-		842~ 852		-	-
	7 VISCOSITY				CP		-		0.6934 ~ 1.03		-	-
	8 VAPOR PRESSURE Pv				bar(a)		-		0.6		-	-
9 CRITICAL PRESSURE				bar(a)		-		221.3		-	-	
LINE	10 PIPE LINE SIZE & SCHEDULE		IN	CORROSION ALLOWANCE (mm)		2" 160	6					
			OUT			2" 160						
	11 LINE NO.		CDH-112-0039-AN07-2"-PT									
VALVE BODY & BONNET	12 TYPE				Full Bore Ball Valve/Trunnion Mounted							
	13 SIZE				2"							
	14 MAX PRESS./TEMP.				As per PMS							
	15 MFR. & MODEL				Will be finalized later							
	16 BODY / BONNET MATL				ASTM A216 Gr. WCB							
	17 LINER MATERIAL /ID				VTA							
	18 END CONNECTION		IN			2" /300#						
			OUT			2" /300#						
	19 FLG FACE FINISH				RF							
	20 END EXT./MATL.				N/A							
	21 FLOW DIRECTION				(Note 18 in Page 4)							
	22 TYPE OF BONNET				Standard							
	23 LUBE & ISO VALVE				No							
	24 PACKING MATERIAL		PACKING TYPE		PTFE		Standard					
25 ENTRY DESIGN				Top Entry								
26 NACE REQUIREMENTNACE (MR-0175/ISO 15156)				No								
TRIM	27 TRIM		TYPE	MATERIAL		VTA	316 SS+PTFE					
	28 SIZE		RATED TRAVEL		VTA	VTA						
	29 CHARACTERISTICS				On/Off							
	30 BALANCED / UNBALANCED				BALANCED							
	31 RATED Cv		FL	XT	VTA	VTA	VTA					
	32 PLUG / BALL / DISK MATERIAL				316 SS							
	33 SEAT		TYPE	MATERIAL		Soft Seat		PTFE				
	34 CAGE / GUIDE MATERIAL				VTA							
	35 STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS				
	36 LEAKAGE CLASS				ANSI Class VI							
37 VALVE STEM EXTENSION REQUIREMENT				YES								
SOLENOID VALVE	38 TAG NO				PSOV-2271, ESOV-2271							
	39 TYPE				3 Way							
	40 BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65					
	41 ELE. CERTIFICATE		ELE. CONNECTION		EEx "d", IIB T4		ISO M20 x 1.5					
	42 MANUAL RESET				Yes							
	43 Power Supply				24 VDC							
	44 Pnu. Connection				1/4" NPT							
SPECIAL / ACCESS.	45 FUSIBLE LEAKAGE				No							
	46 BLOCK RELAY				No							
	47 QUICK EXHUST				Yes							
	49 FILTER REGULATOR				Yes							
	50 VOLUME TANK				Yes							
	51 MECHANICAL POSITION INDICATOR				Required							
	52 MANUAL/PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE				Yes							
NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONFIRM												
(1) PMS: Piping material specification.												
(2) All material shall be suitable for minimum design metal temperature.												
(3) Shall be stated by vendor at quotation stage.												
(4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.												

 NIS OC				نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک Data Sheets For ON/OFF & Shutdown Valves								 			
شماره پیمان: ۹۰۳۸ - ۰۷۳ - ۰۵۳				نسخه D02				شماره صفحه: ۳۸ از ۳۸							
On-Off Valve															
TAG NO: XV-2301				P&ID NO : BK-GCS-PEDCO-120-SA-PI-0001-D01(1 of 2)				SERVICE: Fire Water System							
FLUID STATE: FIRE WATER				PHASE: GAS				AREA CLASSIFICATION: Zone2, IIB, T4							
SERVICE CONDITION	ITEM							UNITS	Max Flow	Norm. Flow	Min. Flow	Shut-Off			
	1 FLOW RATE							kg/h	-	29910	-	-			
	2 INLET PRESSURE							bar(g)	-	1	-	-			
	3 OUTLET PRESSURE							bar(g)	-	0.95	-	-			
	4 DIFFERENTIAL PRESSURE							bar(g)	-	0.05	-	-			
	5 INLET TEMPERATURE							°C	55	AMB	5	-			
	6 DENSITY							kg/m3	-	997	-	-			
	7 VISCOSITY							CP	-	0.81	-	-			
	8 VAPOR PRESSURE Pv							-	-	-	-	-			
	9 CRITICAL PRESSURE							bar(a)	-	-	-	-			
LINE	PIPE LINE SIZE & SCHEDULE		IN	CORROSION ALLOWANCE (mm)	3" 40	3	ACTUATOR	53	TYPE		Single Acting, Spring Return				
			OUT		3" 40			54	SIZE		VTA				
	11 LINE NO.		FWA-112-0007-AN04-3"-PT					55	SPRING FAIL ACTION		Fail to Close				
VALVE BODY & BONNET	12 TYPE				Full Bore Ball Valve/Trunnion Mounted			56	MAX ALLOWABLE PRESSURE		VTA				
	13 SIZE				3"			57	MIN REQUIRES PRESSURE		VTA				
	14 MAX PRESS./TEMP.				As per PMS			58	AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g				
	15 MFR. & MODEL				Will be finalized later			59	BENCH RANGE		VTA				
	16 BODY / BONNET MATL				ASTM A216 Gr. WCB			60	TRAVELING TIME		5 S				
	17 LINER MATERIAL / ID				VTA			61	FUNCTION		On/Off				
	18 END CONNECTION		IN	3" /300#		62		LOCAL POSITION INDICATOR		Required					
			OUT	3" /300#			ACT. ORIENTATION		VTA						
	19 FLG FACE FINISH				RF		64	HAND WHEEL TYPE		Clutchable side mounted					
	20 END EXT./MATL.				N/A		65	ADJUSTABLE LIMIT STOP		Yes					
	21 FLOW DIRECTION				(Note 18 in Page 4)		66	INPUT SIGNAL		24VDC					
	22 TYPE OF BONNET				Standard		67	MFR. & MODEL		Will be finalized later					
	23 LUBE & ISO VALVE				No		POSITIONER	68	TYPE		N/A				
	24 PACKING MATERIAL		PACKING TYPE		PTFE	Standard		69	MFR. & MODEL		Will be finalized later				
25 ENTRY DESIGN				Top Entry		70		ON INCR SIGNAL OUTPUT INCR / DECR		N/A					
26 NACE REQUIREMENTNACE (MR-0175/ISO 15156)				No		71		GAUGES		N/A					
TRIM	27 TRIM		TYPE	MATERIAL	VTA	316 SS+PTFE	LIMIT SWITCHES	74	TAG NO. :		BZSC-2110 / BZSO-2110				
	28 SIZE		RATED TRAVEL		VTA	VTA		75	TYPE	QUANTITY	Magnetically operated 'REED' contacts	2			
	29 CHARACTERISTICS				On/Off			76	CONTACTS / RATING		110V DC , 10A				
	30 BALANCED / UNBALANCED				BALANCED			77	ACTUATION POINT		Fully Open/Close				
	31 RATED Cv		FL	XT	VTA	VTA		VTA	78	ENCLOSURE MATERIAL		Die Cast Amulium			
	32 PLUG / BALL / DISK MATERIAL				316 SS			79	WEATHER PROTECTION		IP-65				
	33 SEAT		TYPE	MATERIAL	Soft Seat			PTFE	80	ELEC. CERTIFICATE	ELEC. CONNECTION	EEx "d" ,IIB T4	ISO M20 × 1.5		
	34 CAGE / GUIDE MATERIAL				VTA			81	MFR. & MODEL		Will be finalized later				
	35 STEM		TYPE	MATERIAL	Anti-Blow Out			316 SS	82	SET PRESSURE		Yes			
	36 LEAKAGE CLASS				ANSI Class VI			AIR SET	83	PNEUMATIC CONNECTION		1/4" NPT			
37 VALVE STEM EXTENSION REQUIREMENT				YES		84	GAUGES		FILTER	Required	Required				
SOLENOID VALVE	38 TAG NO				PSOV-2301		85		MFR. & MODEL		Will be finalized later				
	39 TYPE				3 Way		TEST		86	ANSI/FCI LEAKAGE CLASS		Required			
	40 BODY MATERIAL		WEATHER IP.		AISI 316 S.S				IP-65	87	HYDRO PRESSURE		Required		
	41 ELE. CERTIFICATE		ELE. CONNECTION		EEx "d" ,IIB T4				ISO M20 x 1.5	88	FUNCTIONAL TEST		Required		
	42 MANUAL RESET				Yes										
	43 Power Supply				24 VDC										
	44 Pnu. Connection				1/4" NPT										
	SPECIAL / ACCESS.	45 FUSIBLE LEAKAGE				No									
46 BLOCK RELAY				No											
47 QUICK EXHUST				Yes											
49 FILTER REGULATOR				Yes											
50 VOLUME TANK				Yes											
51 MECHANICAL POSITION INDICATOR				No											
52 MANUALPNEUMATIC BYPASS VALVE FOR SOLENOID VALVE				No											
NOTE: VTA : VENDOR TO ADVISE AT BIDDING STAGE VTC: VENDOR TO CONFIRM (1) PMS: Piping material specification. (2) All material shall be suitable for minimum design metal temperature. (3) Shall be stated by vendor at quotation stage. (4) Manual Reset to be consider for all Emergency Shut off solenoids as per P&ID.															