

 NISOC	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:	پروژه	بنه کاری	صادرکننده	تجهیزات	رشته	بوع مدرک	سریال	نسخه	
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	IN	DT	0010	D04	شماره صفحه: ۱ از ۳۵

طرح نگهداشت و افزایش تولید ۲۷ مخزن

DATA SHEETS FOR ON/OFF & SHUTDOWN VALVES

نگهداشت و افزایش تولید میدان نفتی بینک

D04	JAN.2025	AFC	P.Hajisadeghi	M.Fakharian	S.Faramarzpour	
D03	NOV.2024	AFC	P.Hajisadeghi	M.Fakharian	M.Sadeghian	
D02	AUG.2024	AFC	P.Hajisadeghi	M.Fakharian	M.Sadeghian	
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: F9Z-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

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:

۹۱۸۶ - ۷۳ - ۰۳

نسخه	سرپال	بوع مدرک	رشته	تهیه کننده	صادر کننده	بسته کاری	پروژه
D04	0010	DT	IN	120	PEDCO	GCS	BK

شماره صفحه: ۲ از ۳۵

REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04	Page	D00	D01	D02	D03	D04
1	X	X	X	X	X	65					
2	X	X	X	X	X	66					
3	X	X	X			67					
4	X	X	X	X		68					
5	X	X	X	X		69					
6	X	X	X	X		70					
7	X	X	X	X		71					
8	X	X	X	X		72					
9	X	X	X	X		73					
10	X	X	X	X		74					
11	X	X	X	X		75					
12	X	X	X	X		76					
13	X	X	X	X		77					
14	X	X	X	X		78					
15	X	X	X	X		79					
16	X	X	X	X		80					
17	X	X	X	X		81					
18	X	X	X	X		82					
19	X	X	X	X		83					
20	X	X	X	X		84					
21	X	X	X	X		85					
22	X	X	X	X		86					
23	X	X	X	X		87					
24	X	X	X	X		88					
25	X	X	X	X		89					
26	X	X	X	X		90					
27	X	X	X	X		91					
28	X	X	X	X		92					
29	X	X	X	X		93					
30	X	X	X	X		94					
31	X	X	X	X		95					
32	X	X	X	X		96					
33	X	X	X	X		97					
34	X	X	X	X		98					
35	X	X	X	X		99					
36	X	X	X	X		100					
37	X	X	X	X		101					
38			X	X		102					
39			X	X		103					
40			X	X		104					
41			X	X		105					
42			X	X		106					
43			X	X		107					
44			X	X		108					
45						109					
46						110					
47						111					
48						112					
49						113					
50						114					
51						115					
52						116					
53						117					
54						118					
55						119					
56						120					
57						121					
58						122					
59						123					
60						124					
61						125					
62						126					
63						127					
64						128					



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:

۰۵۳ - ۰۷۳ - ۹۱۸۴

نسخه	سریال	نوع مدارک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه
D04	0010	DT	IN	120	PEDCO	GCS	BK

شماره صفحه: ۳ از ۳۵

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
Specification For Painting	BK-GNRAL-PEDCO-000-PI-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 (Golkhari)	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



تنگداشت 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 - ۹۱۸۶

پروژه

بسته کاری

صادر کننده

تهیهات

رشته

بوغ مدرک

سرمال

نسخه

BK

GCS

PEDCO

120

IN

DT

0010

D04

شماره صفحه: ۴ از ۳۵

GENERAL NOTES:

- Calculations shall be provided for each completely piped actuated valve assembly (including solenoid valve), the stroking times i.e. to close and to open.
- The duty, failure action and stroke time shall all be approved by the Purchaser.
- The actuator shall be designed to operate the valve through its full stroke.
- 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.
- The piping indicates corrosion allowance selected as per document "Piping & Pipeline Material Specification, No. " BK-GCS-PEDCO-120-PI-SP-0001 "
- Hydro-test duration shall be in accordance with API 6D.
- 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.
- Vendor shall guarantee and demonstrate the required stroking speed, during the Functional Test (FAT).
- 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
- Solenoid valve shall be selected in accordance with low power type.
- 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.
- The actuator shall be fail safe in operation (as specified in data sheets) in loss of electrical signal or loss of air supply.
- The spring return actuator shall be "pre stressed".
- 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.
- 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

- Material Test Certificate and calibration Certificate for all transmitters to be submitted by Vendor.
- Flow direction shall be permanently and clearly indicated on the valve body.
- External grounding shall be provided for each solenoid valve.
- 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.
- Valves in safety related services should have been fire tested and certification to be provided by Vendor.
- Seat rings shall be spring loaded and so designed that line pressure will assist in sealing round the ball.
- Valve stem extension shall be detachable for easy replacements.
- At least two stem seals shall be provided with facility for injection of secondary sealant and with stainless steel fittings.
- Stem seal shall be replaceable while the valve is in closed operation position.
- Short stroke single acting pneumatic piston actuators shall preferably be used on emergency shutdown service.
- 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.
- In cases where on-off valve has been equipped with two solenoid valves, one shall be SIL certified and the other could be non-SIL (one SOV is connected to ESD system and another, to the process control system).
- Valves 2" and larger shall be as per API 6D.
- All wet parts in sour service shall meet requirements of NACE MR0175 and "Project specification for Material Requirements in Sour Service". Document No.:BK-GNRL-PEDCO-000-PI-SP-0008.

 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							 شرکت توسعه گاز ایران 			
شماره پیمان: ۰۵۳ - ۰۷۲ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۵ از ۳۵		
BK		GCS	PEDCO	120	IN	DT	0010	D04				
Shut Down Valve												
TAG NO: ESDV-2102		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0003-D08						SERVICE: Gas Compression Inlet Gas Pipeline (Golghari)				
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	DESIGN PRESSURE					bar(g)	90				
	9	DESIGN TEMPERATURE					°C	175				
	10	VAPOR PRESSURE Pv					bar(a)	-	-	-	-	
11	CRITICAL PRESSURE					bar(a)	103.1	103.1	103.1	-		
LINE	12	PIPE LINE SIZE & SCHEDULE	IN	8"	100	CORROSION ALLOWANCE(mm)	6	54	TYPE		Single Acting , Spring Return	
	13	LINE NO.	OUT	8"	100			55	SIZE		VTA	
	GAS-111-0001-FN07-8"-BT							56	SPRING FAIL ACTION		Fail to Close	
VALVE BODY & BONNET	14	TYPE					Full Bore Ball Valve/Trunnion Mounted	57	MAX ALLOWABLE PRESSURE		VTA	
	15	SIZE						58	MIN REQUIRES PRESSURE		VTA	
	16	MAX PRESS./TEMP.						59	AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g	
	17	MFR. & MODEL						60	BENCH RANGE		VTA	
	18	BODY / BONNET MATL						61	TRAVELING TIME		9 S	
	19	LINER MATERIAL / ID						62	FUNCTION		On/Off	
	20	END CONNECTION	IN	8"	/600#	63		LOCAL POSITION INDICATOR		Required		
	21	FLG FACE FINISH						64	ACT. ORIENTATION		VTA	
	22	END EXT./MATL.						65	HAND WHEEL TYPE		Detachable side mounted	
	23	FLOW DIRECTION						66	ADJUSTABLE LIMIT STOP		Yes	
	24	TYPE OF BONNET						67	INPUT SIGNAL		24VDC	
	25	LUBE & ISO VALVE						68	MFR. & MODEL		Will be finalized later	
	26	PACKING MATERIAL						69	TYPE		N/A	
	27	ENTRY DESIGN						70	MFR. & MODEL		Will be finalized later	
TRIM	28	NACE REQUIREMENTNACE (MR-0175/ISO 15156)					71	ON INCR SIGNAL OUTPUT INCR / DECR		N/A		
	29	TRIM	TYPE	MATERIAL		72	GAUGES		N/A			
	30	SIZE	RATED TRAVEL		73	CAM CHARACTERISTIC		N/A				
	31	CHARACTERISTICS					74	AIR CONNECTION		N/A		
	32	BALANCED / UNBALANCED					75	TAG NO. :		EZSC-2102 / EZSO-2102		
	33	RATED Cv	FL	XT	76	TYPE	QUANTITY	Magnetically operated "REED" contacts		2		
	34	PLUG / BALL / DISK MATERIAL					77	CONTACTS / RATING		110V DC , 10A		
	35	SEAT	TYPE	MATERIAL		78	ACTUATION POINT		Fully Open/Close			
	36	CAGE / GUIDE MATERIAL					79	ENCLOSURE MATERIAL		Die Cast Aluminum		
	37	STEM	TYPE	MATERIAL		80	WEATHER PROTECTION		IP-65			
SOLENOID VALVE	38	LEAKAGE CLASS					81	ELEC. CERTIFICATE	ELEC. CONNECTION	EEEx "d" JIB T4 ISO M20 x 1.5		
	39	VALVE STEM EXTENSION REQUIREMENT					82	MFR. & MODEL		Will be finalized later		
	40	TAG NO					83	SET PRESSURE		Yes		
	41	TYPE					84	PNEUMATIC CONNECTION		1/4" NPT		
	42	BODY MATERIAL					85	GAUGES	FILTER	Required Required		
	43	ELE. CERTIFICATE					86	MFR. & MODEL		Will be finalized later		
	44	MANUAL RESET					87	ANSI/FCI LEAKAGE CLASS		Required		
	45	Power Supply					88	HYDRO PRESSURE		Required		
SPECIAL / ACCESS.	46	Pnu. Connection					89	FUNCTIONAL TEST		Required		
	47	FUSIBLE LEAKAGE					90					
	48	BLOCK RELAY					91					
	49	QUICK EXHUST					92					
	50	FILTER REGULATOR					93	PASSIVE FIRE PROTECTION		Yes		
	51	VOLUME TANK					94	API 6FA REQUIREMENTS		Yes		
	52	MECHANICAL POSITION INDICATOR					95	SIL REQUIREMENTS		Yes		
	53	MANUAL PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE					96	PARTIAL STROKING VALVE TEST		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		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض							 HIRGAN ENERGY		 TS					
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادرکننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۳۵ از ۶						
BK		GCS	PEDCO	120	IN	DT	0010	D04								
Shut Down Valve																
TAG NO: ESDV-2101		P&ID NO : BK-GCS-PEDCO-120-PR-PF-0002_D08					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 DESIGN PRESSURE					bar(g)		18.2								
	9 DESIGN TEMPERATURE					°C		85								
	10 VAPOR PRESSURE Pv					bar(a)		-		-		-		-		
11 CRITICAL PRESSURE					bar(a)		107.1		107.1		107.1		-			
LINE	PIPE LINE SIZE & SCHEDULE		IN	6"	80	CORROSION ALLOWANCE(mm)		6		54 TYPE		Single Acting , Spring Return				
			OUT	6"	80					55 SIZE		VTA				
VALVE BODY & BONNET	13 LINE NO.		GAS-111-0001-AN07-6"-PT							56 SPRING FAIL ACTION		Fail to Close				
	14 TYPE				OUT		Full Bore Ball Valve/Trunnion Mounted				57 MAX ALLOWABLE PRESSURE		VTA			
	15 SIZE				OUT		6"				58 MIN REQUIRES PRESSURE		VTA			
	16 MAX PRESS./TEMP.				OUT		As per PMS				59 AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g			
	17 MFR. & MODEL				OUT		Will be finalized later				60 BENCH RANGE		VTA			
	18 BODY / BONNET MATL.				OUT		ASTM A216 Gr. WCB				61 TRAVELING TIME		6 S			
	19 LINER MATERIAL / ID				OUT		VTA				62 FUNCTION		On/Off			
	20 END CONNECTION		IN			6" /300#						63 LOCAL POSITION INDICATOR		Required		
			OUT			6" /300#						64 ACT. ORIENTATION		VTA		
	21 FLG FACE FINISH							RF				65 HAND WHEEL TYPE		Detachable side mounted		
	22 END EXT./MATL.							N/A				66 ADJUSTABLE LIMIT STOP		Yes		
	23 FLOW DIRECTION							(None 18 in Page 4)				67 INPUT SIGNAL		24VDC		
	24 TYPE OF BONNET							Standard				68 MFR. & MODEL		Will be finalized later		
	25 LUBE & ISO VALVE							No				69 TYPE		N/A		
	26 PACKING MATERIAL		PACKING TYPE		PTFE		Standard				70 MFR. & MODEL		Will be finalized later			
	27 ENTRY DESIGN							Top / Side Entry				71 ON INCR SIGNAL OUTPUT INCR / DECR		N/A		
	28 NACE REQUIREMENTNACE (MR-0175/ISO 15156)							Yes				72 GAUGES		N/A		
	TRIM	29 TRIM		TYPE	MATERIAL		VTA		316 SS+PTFE				73 CAM CHARACTERISTIC		N/A	
30 SIZE		RATED TRAVEL		VTA		VTA				74 AIR CONNECTION		N/A				
31 CHARACTERISTICS							On/Off				75 TAG NO. :		EZSC-2101 / EZSO-2101			
32 BALANCED / UNBALANCED							BALANCED				76 TYPE		QUANTITY	Magnetically operated 'REED' contacts	2	
33 RATED Cv		FL	XT		VTA		VTA	VTA			77 CONTACTS / RATING		110V DC , 10A			
34 PLUG / BALL / DISK MATERIAL							316 SS				78 ACTUATION POINT		Fully Open/Close			
35 SEAT		TYPE	MATERIAL		Soft Seat		316 SS+PTFE				79 ENCLOSURE MATERIAL		Die Cast Aluminum			
36 CAGE / GUIDE MATERIAL							VTA				80 WEATHER PROTECTION		IP-65			
37 STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS				81 ELEC. CERTIFICATE		ELEC. CONNECTION	EEs "d" ,IIB T4	ISO M20 x 1.5	
SOLENOID VALVE	38 LEAKAGE CLASS							ANSI Class VI				82 MFR. & MODEL		Will be finalized later		
	39 VALVE STEM EXTENSION REQUIREMENT							No				83 SET PRESSURE		Yes		
	40 TAG NO							ESOV-2101				84 PNEUMATIC CONNECTION		1/4" NPT		
	41 TYPE							3 Way				85 GAUGES		FILTER	Required	Required
	42 BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65				86 MFR. & MODEL		Will be finalized later			
	43 ELE. CERTIFICATE		ELE. CONNECTION		EEs "d" ,IIB T4		ISO M20 x 1.5				87 ANSI/FCI LEAKAGE CLASS		Required			
	44 MANUAL RESET							Yes				88 HYDRO PRESSURE		Required		
	45 Power Supply							24 VDC				89 FUNCTIONAL TEST		Required		
SPECIAL / ACCESS.	46 Pna. Connection							1/4" NPT				90				
	47 FUSIBLE LEAKAGE							No				91				
	48 BLOCK RELAY							No				92				
	49 QUICK EXHUST							Yes				93 PASSIVE FIRE PROTECTION		Yes		
	50 FILTER REGULATOR							Yes				94 API 6FA REQUIREMENTS		Yes		
	51 VOLUME TANK							No				95 SIL REQUIREMENTS		Yes		
	52 MECHANICAL POSITION INDICATOR							Required				96 PARTIAL STROKING VALVE TEST		Yes		
	53 MANUAL PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE							Yes				97				
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								 						
		احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک														
		Data Sheets For ON/OFF & Shutdown Valves														
شماره پیمان:		پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۷ از ۳۵						
۰۵۳ - ۰۷۳ - ۰۹۰۳۸		BK	GCS	PEDCO	120	IN	DT	0010	D04							
Shut Down Valve																
TAG NO: ESDV-2113			P&ID NO: BK-GCS-PEDCO-120-PR-PI-0005-D09						SERVICE: Gas Compression Inlet Knock Out Drum to Closed Drain							
FLUID STATE: CLOSED DRAIN HYDROCARBON			PHASE: Liquid						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)		-		-		-		13.9	
	5	INLET TEMPERATURE					°C		19.02~36.9		19.02~36.9		19.02~36.9		-	
	6	DENSITY					kg/m3		842.6~1012		842.6~1012		842.6~1012		-	
	7	VISCOSITY					CP		0.69 ~ 1.026		0.69 ~ 1.026		0.69 ~ 1.026		-	
	8	DESIGN PRESSURE					bar(g)		13.9							
	9	DESIGN TEMPERATURE					°C		85							
	10	VAPOR PRESSURE Pv					bar(a)		0.612		0.612		0.612		-	
11	CRITICAL PRESSURE					bar(a)		221.4		221.4		221.4		-		
LINE	12	PIPE LINE SIZE & SCHEDULE		IN	2"	SCH.10S	CORROSION ALLOWANCE(mm)		0							
		OUT		2"	SCH.10S											
VALVE BODY & BONNET	13	LINE NO.		CDH-111-0019-AS00-2"-NP												
	14	TYPE		Full Bore Ball Valve/Floating Type												
	15	SIZE		2"												
	16	MAX PRESS./TEMP.		As per PMS												
	17	MFR. & MODEL		Will be finalized later												
	18	BODY / BONNET MATL		ASTM A351 GR.CF3M												
	19	LINER MATERIAL / ID		VTA												
	20	END CONNECTION		IN	2" /300#											
		OUT		2" /300#												
	21	FLG FACE FINISH		RF												
	22	END EXT./MATL.		N/A												
	23	FLOW DIRECTION		(Note 18 in Page 4)												
	24	TYPE OF BONNET		Standard												
	25	LUBE & ISO VALVE		No												
	26	PACKING MATERIAL		PACKING TYPE		PTFE		Standard								
	27	ENTRY DESIGN		Top / Side Entry												
28	NACE REQUIREMENTNACE (MR-0175/ISO 15156)		Yes													
TRIM	29	TRIM		TYPE	MATERIAL		VTA		316 SS+PTFE							
	30	SIZE		RATED TRAVEL		VTA		VTA								
	31	CHARACTERISTICS		On/Off												
	32	BALANCED / UNBALANCED		BALANCED												
	33	RATED Cv		FL	XT		VTA		VTA		VTA					
	34	PLUG / BALL / DISK MATERIAL		316 SS												
	35	SEAT		TYPE	MATERIAL		Soft Seat		316 SS+PTFE							
36	CAGE / GUIDE MATERIAL		VTA													
37	STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS								
38	LEAKAGE CLASS		ANSI Class V1													
39	VALVE STEM EXTENSION REQUIREMENT		No													
SOLENOID VALVE	40	TAG NO		ESOV-2113												
	41	TYPE		3 Way												
	42	BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65								
	43	ELE. CERTIFICATE		ELE. CONNECTION		EEs "d" ,IIB T4		ISO M20 x 1.5								
	44	MANUAL RESET		Yes												
	45	Power Supply		24 VDC												
	46	Pnu. Connection		1/4" NPT												
SPECIAL / ACCESS.	47	FUSIBLE LEAKAGE		No												
	48	BLOCK RELAY		No												
	49	QUICK EXHUST		Yes												
	50	FILTER REGULATOR		Yes												
	51	VOLUME TANK		No												
	52	MECHANICAL POSITION INDICATOR		Required												
	53	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

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: ۰۵۳ - ۰۷۳ - ۰۹۰۳۸

شماره نسخه: ۳۵ از ۸

Shut Down Valve

TAG NO: ESDV-2272

P&ID NO : BK-GCS-PEDCO-120-PR-PI-0022-D09

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	DESIGN PRESSURE					bar(g)	18.2			
	9	DESIGN TEMPERATURE					°C	85			
	10	VAPOR PRESSURE Pv					bar(a)	-	-	-	-
11	CRITICAL PRESSURE					bar(a)	94.66	94.66	94.66	-	
LINE	12	PIPE LINE SIZE & SCHEDULE	IN	3"	80	CORROSION ALLOWANCE(mm)	6				
	13	LINE NO.	GAS-111-0004-AN07-3"-PT								
VALVE BODY & BONNET	14	TYPE					Full Bore Ball Valve/Trunnion Mounted				
	15	SIZE					3"				
	16	MAX PRESS./TEMP.					As per PMS				
	17	MFR. & MODEL					Will be finalized later				
	18	BODY / BONNET MATL					ASTM A216 Gr. WCB				
	19	LINER MATERIAL / ID					VTA				
	20	END CONNECTION	IN	3"	300#						
	21	FLG FACE FINISH					RF				
	22	END EXT./MATL.					N/A				
	23	FLOW DIRECTION					(Note 18 in Page 4)				
	24	TYPE OF BONNET					Standard				
TRIM	25	LUBE & ISO VALVE					No				
	26	PACKING MATERIAL	PACKING TYPE		PTFE		Standard				
	27	ENTRY DESIGN					Top / Side Entry				
	28	NACE REQUIREMENTNACE (MR-0175/ISO 15156)					Yes				
SOLENOID VALVE	29	TRIM	TYPE	MATERIAL		VTA		316 SS+PTFE			
	30	SIZE	RATED TRAVEL		VTA		VTA				
	31	CHARACTERISTICS					On/Off				
	32	BALANCED / UNBALANCED					BALANCED				
	33	RATED Cv	FL	XT		VTA	VTA	VTA			
	34	PLUG / BALL / DISK MATERIAL					316 SS				
	35	SEAT	TYPE	MATERIAL		Soft Seat		316 SS+PTFE			
	36	CAGE / GUIDE MATERIAL					VTA				
	37	STEM	TYPE	MATERIAL		Anti-Blow Out		316 SS			
	38	LEAKAGE CLASS					ANSI Class VI				
	39	VALVE STEM EXTENSION REQUIREMENT					No				
SPECIAL / ACCESS.	40	TAG NO					ESOV-2272				
	41	TYPE					3 Way				
	42	BODY MATERIAL	WEATHER IP.		AISI 316 S.S		IP-65				
	43	ELE. CERTIFICATE	ELE. CONNECTION		EEx "d", IIB T4		ISO M20 x 1.5				
TEST	44	MANUAL RESET					Yes				
	45	Power Supply					24 VDC				
	46	Pnu. Connection					1/4" NPT				
	47	FUSIBLE LEAKAGE					No				
	48	BLOCK RELAY					No				
	49	QUICK EXHUST					Yes				
	50	FILTER REGULATOR					Yes				
	51	VOLUME TANK					No				
	52	MECHANICAL POSITION INDICATOR					Required				
	53	MANUAL PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE					Yes				
	FIRE PROOF DESIGN	54	TYPE					Single Acting , Spring Return			
55		SIZE					VTA				
56		SPRING FAIL ACTION					Fail to Close				
57		MAX ALLOWABLE PRESSURE					VTA				
58		MIN REQUIRES PRESSURE					VTA				
59		AVAILABLE AIR SUPPLY PRESSURE					MAX/NOR/MIN: 10/7/3 bar-g				
60		BENCH RANGE					VTA				
61		TRAVELING TIME					5 S				
62		FUNCTION					On/Off				
63		LOCAL POSITION INDICATOR					Required				
64		ACT. ORIENTATION					VTA				
LIMIT SWITCHES	65	HAND WHEEL TYPE					Detachable side mounted				
	66	ADJUSTABLE LIMIT STOP					Yes				
	67	INPUT SIGNAL					24VDC				
	68	MFR. & MODEL					Will be finalized later				
	69	TYPE					N/A				
	70	MFR. & MODEL					Will be finalized later				
	71	ON INCR SIGNAL OUTPUT INCR / DECR					N/A				
	72	GAUGES					N/A				
	73	CAM CHARACTERISTIC					N/A				
	74	AIR CONNECTION					N/A				
	75	TAG NO. :					EZSC-2272 / EZSO-2272				
AIR SET	76	TYPE	QUANTITY		Magnetically operated 'REED' contacts		2				
	77	CONTACTS / RATING					110V DC , 10A				
	78	ACTUATION POINT					Fully Open/Close				
	79	ENCLOSURE MATERIAL					Die Cast Aluminum				
	80	WEATHER PROTECTION					IP-65				
	81	ELEC. CERTIFICATE	ELEC. CONNECTION		EEx "d", IIB T4		ISO M20 x 1.5				
	82	MFR. & MODEL					Will be finalized later				
	83	SET PRESSURE					Yes				
	84	PNEUMATIC CONNECTION					1/4" NPT				
	85	GAUGES	FILTER		Required		Required				
	86	MFR. & MODEL					Will be finalized later				
TEST	87	ANSI/FCI LEAKAGE CLASS					Required				
	88	HYDRO PRESSURE					Required				
	89	FUNCTIONAL TEST					Required				
	90										
	91										
	92										
	93	PASSIVE FIRE PROTECTION					No				
	94	API 6FA REQUIREMENTS					Yes				
	95	SIL REQUIREMENTS					Yes				
	96	PARTIAL STROKING VALVE TEST					No				
	97										

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.



NISO C

نگهداشت و افزایش تولید میدان نفتی
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

Data Sheets For ON/OFF & Shutdown Valves




شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸

نسخه

سرپال

نوع مدرک

رشته

تسهیلات

صادر کننده

بسته کاری

پروژه

D04

0010

DT

IN

120

PEDCO

GCS

BK

شماره صفحه: ۹ از ۳۵

Blow Down Valve

TAG NO: BDV-2110

P&ID NO : BK-GCS-PEDCO-120-PR-PI-0005-D09

SERVICE: Gas Compression Inlet Knock Out Drum to Flare Header

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	-	5665.4	-	-	
	2	INLET PRESSURE				bar(g)	-	5.3 ~ 9	-	-	
	3	OUTLET PRESSURE				bar(g)	-	5.3 ~ 9	-	-	
	4	DIFFERENTIAL PRESSURE				bar(g)	-	-	-	18.2	
	5	INLET TEMPERATURE				°C	-	7 ~ 37	-	-	
	6	DENSITY				kg/m3	-	5.96	-	-	
	7	VISCOSITY				CP	-	0.011 ~ 0.0115	-	-	
	8	DESIGN PRESSURE				bar(g)	18.2				
	9	DESIGN TEMPERATURE				°C	85				
	10	VAPOR PRESSURE Pv				bar(a)	-	-	-	-	
11	CRITICAL PRESSURE				bar(a)	-	94.65	-	-		
LINE	12	PIPE LINE SIZE & SCHEDULE	IN	3"	160	CORROSION ALLOWANCE(mm)	6				
	13	LINE NO.	GAS-111-0225-AN07-3"-PT								
VALVE BODY & BONNET	14	TYPE		Full Bore Ball Valve/Trunnion Mounted							
	15	SIZE		3"							
	16	MAX PRESS./TEMP.		As per PMS							
	17	MFR. & MODEL		Will be finalized later							
	18	BODY / BONNET MATL		ASTM A216 Gr. WCB							
	19	LINER MATERIAL / ID		VTA							
	20	END CONNECTION	IN	3"/300#		OUT					
	21	FLG FACE FINISH		RF							
	22	END EXT./MATL.		N/A							
	23	FLOW DIRECTION		(Note 18 in Page 4)							
	24	TYPE OF BONNET		Standard							
	25	LUBE & ISO VALVE		No							
	26	PACKING MATERIAL	PACKING TYPE		PTFE		Standard				
	TRIM	27	ENTRY DESIGN		Top / Side Entry						
28		NACE REQUIREMENTNACE (MR-0175/ISO 15156)		Yes							
29		TRIM	TYPE	MATERIAL		VTA		316 SS+PTFE			
30		SIZE	RATED TRAVEL		VTA		VTA				
SOLENOID VALVE	31	CHARACTERISTICS		On/Off							
	32	BALANCED / UNBALANCED		BALANCED							
	33	RATED Cv	FL	XT	VTA		VTA		VTA		
	34	PLUG / BALL / DISK MATERIAL		316 SS							
	35	SEAT	TYPE	MATERIAL		Soft Seat		316 SS+PTFE			
	36	CAGE / GUIDE MATERIAL		VTA							
	37	STEM	TYPE	MATERIAL		Anti-Blow Out		316 SS			
	38	LEAKAGE CLASS		ANSI Class VI							
	39	VALVE STEM EXTENSION REQUIREMENT		No							
	40	TAG NO		BSOV-2110							
SPECIAL / ACCESS.	41	TYPE		3 Way							
	42	BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65			
	43	ELE. CERTIFICATE	ELE. CONNECTION		EEx "d", IIB T4		ISO M20 x 1.5				
	44	MANUAL RESET		Yes							
	45	Power Supply		24 VDC							
	46	Pnu. Connection		1/4" NPT							
FIRE PROOF DESIGN	47	FUSIBLE LEAKAGE		No							
	48	BLOCK RELAY		No							
	49	QUICK EXHUST		Yes							
	50	FILTER REGULATOR		Yes							
	51	VOLUME TANK		Yes							
	52	MECHANICAL POSITION INDICATOR		Required							
	53	MANUAL/PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE		Yes							

54

TYPE

Single Acting, Spring Return

55

SIZE

VTA

56

SPRING FAIL ACTION

Fail to Open

57

MAX ALLOWABLE PRESSURE

VTA

58

MIN REQUIRES PRESSURE

VTA

59

AVAILABLE AIR SUPPLY PRESSURE

MAX/NOR/MIN: 10/7/3 bar-g

60

BENCH RANGE

VTA

61

TRAVELING TIME

5 S

62

FUNCTION

On/Off

63

LOCAL POSITION INDICATOR

Required

64

ACT. ORIENTATION

VTA

65

HAND WHEEL TYPE

Declutchable side mounted

66

ADJUSTABLE LIMIT STOP

Yes

67

INPUT SIGNAL

24VDC

68

MFR. & MODEL

Will be finalized later

69

TYPE

N/A

70

MFR. & MODEL

Will be finalized later

71

ON INCR SIGNAL OUTPUT INCR / DECR

N/A

72

GAUGES

N/A

73

CAM CHARACTERISTIC

N/A

74

AIR CONNECTION

N/A

75

TAG NO. :

BZSO-2110 / BZSO-2110

76

TYPE

QUANTITY

Magnetically operated REED contacts

2

77

CONTACTS / RATING

110V DC , 10A

78

ACTUATION POINT

Fully Open/Close

79

ENCLOSURE MATERIAL

Die Cast Aluminum

80

WEATHER PROTECTION

IP-65

81

ELEC. CERTIFICATE

ELEC. CONNECTION

EEx "d", IIB T4

ISO M20 x 1.5

82

MFR. & MODEL

Will be finalized later

83

SET PRESSURE

Yes

84

PNEUMATIC CONNECTION

1/4" NPT

85

GAUGES

FILTER

Required

Required

86

MFR. & MODEL

Will be finalized later

87

ANSI/FCI LEAKAGE CLASS

Required

88

HYDRO PRESSURE

Required

89

FUNCTIONAL TEST

Required

90

91

92

93

PASSIVE FIRE PROTECTION

No

94

API 6FA REQUIREMENTS

Yes

95

SIL REQUIREMENTS

Yes

96

PARTIAL STROKING VALVE TEST

Yes

97

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							 شرکت توسعه و پارسا پارس 		
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		نسخه	سرپال	نوع مدرک	رشته	تجهیزات	صادرکننده	بسته کاری	پروژه	شماره صفحه: ۱۰ از ۳۵	
BK		GCS	PEDCO	120	IN	DT	0010	D04			
Blow Down Valve											
TAG NO: BDV-2134A		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0009-D09 (1/3)					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	-	796.4	-	-	
	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	-	14.5 ~ 59.9	-	-	
	6 DENSITY					kg/m3	-	18.08	-	-	
	7 VISCOSITY					CP	-	0.013	-	-	
	8 DESIGN PRESSURE					bar(g)	47.7				
	9 DESIGN TEMPERATURE					°C	155				
	10 VAPOR PRESSURE Pv					bar(a)	-	-	-	-	
11 CRITICAL PRESSURE					bar(a)	-	94.65	-	-		
LINE	PIPE LINE SIZE & SCHEDULE		IN	2"	80	CORROSION ALLOWANCE(mm)		3			
			OUT	2"	80						
VALVE BODY & BONNET	13 LINE NO.		GAS-111-0160A-CN05-2'-4"FT								
	14 TYPE		Full Bore Ball Valve/ Floating Type								
	15 SIZE		2"								
	16 MAX PRESS./TEMP.		As per PMS								
	17 MFR. & MODEL		Will be finalized later								
	18 BODY / BONNET MATL.		ASTM A216 Gr. WCB								
	19 LINER MATERIAL / ID		VTA								
	20 END CONNECTION		IN	2" /300#							
			OUT	2"/300#							
	21 FLG FACE FINISH		RF								
	22 END EXT./MATL.		N/A								
TRIM	23 FLOW DIRECTION		(Note 1B in Page 4)								
	24 TYPE OF BONNET		Standard								
	25 LUBE & ISO VALVE		No								
	26 PACKING MATERIAL		PACKING TYPE		RPTFE		Standard				
	27 ENTRY DESIGN		Top / Side Entry								
	28 NACE REQUIREMENTNACE (MR-0175/ISO 15156)		Yes								
	29 TRIM		TYPE	MATERIAL		VTA		316 SS-RPTFE			
	30 SIZE		RATED TRAVEL		VTA		VTA				
	31 CHARACTERISTICS		On/Off								
	32 BALANCED / UNBALANCED		BALANCED								
	SOLENOID VALVE	33 RATED Cv		FL	XT		VTA		VTA		VTA
34 PLUG / BALL / DISK MATERIAL		316 SS									
35 SEAT		TYPE	MATERIAL		Soft Seat		316 SS-RPTFE				
36 CAGE / GUIDE MATERIAL		VTA									
37 STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS				
38 LEAKAGE CLASS		ANSI Class VI									
39 VALVE STEM EXTENSION REQUIREMENT		No									
40 TAG NO		BSOV-2134A									
41 TYPE		3 Way									
42 BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65					
43 ELE. CERTIFICATE		ELE. CONNECTION		EEx "d", IIB T4		ISO M20 x 1.5					
SPECIAL / ACCESS.	44 MANUAL RESET		Yes								
	45 Power Supply		24 VDC								
	46 Pna. Connection		1/4" NPT								
	47 FUSIBLE LEAKAGE		No								
	48 BLOCK RELAY		No								
	49 QUICK EXHUST		Yes								
	50 FILTER REGULATOR		Yes								
	51 VOLUME TANK		Yes								
	52 MECHANICAL POSITION INDICATOR		Required								
	53 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.											



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: ۰۵۳ - ۰۷۳ - ۹۰۳۸

پروژه: BK

بسته کاری: GCS

صادر کننده: PEDCO

تجهیزات: 120

رشته: IN

نوع مدرک: DT

سرپال: 0010

نسخه: D04

شماره صفحه: ۱۱ از ۳۵

Blow Down Valve

TAG NO: **BDV-2134B** P&ID NO : BK-GCS-PEDCO-120-PR-PI-0009-D09 (2/3) SERVICE: 2nd Stage Gas Compression Suction Drums

FLUID STATE: VENT GAS PHASE: GAS AREA CLASSIFICATION: Zone2, IIB, T4

	ITEM	UNITS	Max Flow	Norm. Flow	Min. Flow	Shut-Off
SERVICE CONDITION	1 FLOW RATE	kg/h	-	796.4	-	-
	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	-	14.5 ~ 59.9	-	-
	6 DENSITY	kg/m3	-	18.08	-	-
	7 VISCOSITY	CP	-	0.013	-	-
	8 DESIGN PRESSURE	bar(g)	47.7			
	9 DESIGN TEMPERATURE	°C	155			
	10 VAPOR PRESSURE Pv	bar(a)	-	-	-	-
	11 CRITICAL PRESSURE	bar(a)	-	94.65	-	-
LINE	12 PIPE LINE SIZE & SCHEDULE	IN 2" 80	CORROSION ALLOWANCE(mm) 3			
	OUT 2" 80					
VALVE BODY & BONNET	13 LINE NO.	GAS-111-0160B-CN05-2'-4T				
	14 TYPE	Full Bore Ball Valve/ Floating Type				
	15 SIZE	2"				
	16 MAX PRESS./TEMP.	As per PMS				
	17 MFR. & MODEL	Will be finalized later				
	18 BODY / BONNET MATL.	ASTM A216 Gr. WCB				
	19 LINER MATERIAL / ID	VTA				
	20 END CONNECTION	IN 2" /300#	OUT 27/300#			
	21 FLG FACE FINISH	RF				
	22 END EXT./MATL.	N/A				
	23 FLOW DIRECTION	(Note 1B in Page 4)				
	24 TYPE OF BONNET	Standard				
	25 LUBE & ISO VALVE	No				
	26 PACKING MATERIAL	PACKING TYPE	RPTFE Standard			
	27 ENTRY DESIGN	Top / Side Entry				
	28 NACE REQUIREMENT	NACE (MR-0175/ISO 15156)	Yes			
TRIM	29 TRIM	TYPE MATERIAL	VTA		316 SS-RPTFE	
	30 SIZE	RATED TRAVEL	VTA		VTA	
	31 CHARACTERISTICS	On/Off				
	32 BALANCED / UNBALANCED	BALANCED				
	33 RATED Cv	FL XT	VTA VTA VTA			
	34 PLUG / BALL / DISK MATERIAL	316 SS				
	35 SEAT	TYPE MATERIAL	Soft Seat		316 SS-RPTFE	
	36 CAGE / GUIDE MATERIAL	VTA				
SOLENOID VALVE	37 STEM	TYPE MATERIAL	Anti-Blow Out		316 SS	
	38 LEAKAGE CLASS	ANSI Class VI				
	39 VALVE STEM EXTENSION REQUIREMENT	No				
SPECIAL / ACCESS.	40 TAG NO	BSOV-2134B				
	41 TYPE	3 Way				
	42 BODY MATERIAL	WEATHER IP.	AISI 316 S.S		IP-65	
	43 ELE. CERTIFICATE	ELE. CONNECTION	EEx "d" ,IIB T4		ISO M20 x 1.5	
	44 MANUAL RESET	Yes				
	45 Power Supply	24 VDC				
ACTUATOR	46 Pna. Connection	1/4" NPT				
	47 FUSIBLE LEAKAGE	No				
	48 BLOCK RELAY	No				
	49 QUICK EXHUST	Yes				
	50 FILTER REGULATOR	Yes				
	51 VOLUME TANK	Yes				
	52 MECHANICAL POSITION INDICATOR	Required				
	53 MANUALPNEUMATIC BYPASS VALVE FOR SOLENOID VALVE	Yes				
	POSITIONER	54 TYPE	Single Acting , Spring Return			
		55 SIZE	VTA			
56 SPRING FAIL ACTION		Fail to Open				
57 MAX ALLOWABLE PRESSURE		VTA				
58 MIN REQUIRES PRESSURE		VTA				
59 AVAILABLE AIR SUPPLY PRESSURE		MAX/NORM/MIN: 10/7/3 bar-g				
60 BENCH RANGE		VTA				
61 TRAVELING TIME		5 S				
62 FUNCTION		On/Off				
63 LOCAL POSITION INDICATOR		Required				
LIMIT SWITCHES	64 ACT. ORIENTATION	VTA				
	65 HAND WHEEL TYPE	Detachable side mounted				
	66 ADJUSTABLE LIMIT STOP	No				
	67 INPUT SIGNAL	24VDC				
	68 MFR. & MODEL	Will be finalized later				
	69 TYPE	N/A				
	70 MFR. & MODEL	Will be finalized later				
	71 ON INCR SIGNAL OUTPUT INCR / DECR	N/A				
	72 GAUGES	N/A				
	73 CAM CHARACTERISTIC	N/A				
AIR SET	74 AIR CONNECTION	N/A				
	75 TAG NO. :	BZSC-2134B / BZSQ-2134B				
	76 TYPE	QUANTITY	Magnetically operated "REED" contacts		2	
	77 CONTACTS / RATING	110V DC , 10A				
	78 ACTUATION POINT	Fully Open/Close				
	79 ENCLOSURE MATERIAL	Die Cast Aluminum				
	80 WEATHER PROTECTION	IP-65				
	81 ELEC. CERTIFICATE	ELEC. CONNECTION	EEx "d" ,IIB T4		ISO M20 x 1.5	
	82 MFR. & MODEL	Will be finalized later				
	TEST	83 SET PRESSURE	Yes			
84 PNEUMATIC CONNECTION		1/4" NPT				
85 GAUGES		FILTER	Required		Required	
86 MFR. & MODEL		Will be finalized later				
87 ANSI/FCI LEAKAGE CLASS		Required				
88 HYDRO PRESSURE		Required				
89 FUNCTIONAL TEST		Required				
90						
91						
FIRE PROOF DESIGN		92				
	93 PASSIVE FIRE PROTECTION	No				
	94 API 6FA REQUIREMENTS	Yes				
	95 SIL REQUIREMENTS	Yes				
	96 PARTIAL STROKING VALVE TEST	No				
	97					

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: ۰۵۳ - ۰۷۳ - ۹۰۳۸

پروژه: BK

بسته کاری: GCS

صادر کننده: PEDCO

تجهیزات: 120

رشته: IN

نوع مدرک: DT

سرپال: 0010

نسخه: D04

شماره صفحه: ۱۲ از ۳۵

Blow Down Valve

TAG NO: **BDV-2134C**

P&ID NO : BK-GCS-PEDCO-120-PR-PI-0009-D09 (3/3)

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	-	796.4	-	-		
	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	-	14.5 ~ 59.9	-	-		
	6	DENSITY				kg/m3	-	18.08	-	-		
	7	VISCOSITY				CP	-	0.013	-	-		
	8	DESIGN PRESSURE				bar(g)	47.7					
	9	DESIGN TEMPERATURE				°C	155					
	10	VAPOR PRESSURE Pv				bar(a)	-	-	-	-		
	11	CRITICAL PRESSURE				bar(a)	-	94.65	-	-		
LINE	12	PIPE LINE SIZE & SCHEDULE	IN	2"	80	CORROSION ALLOWANCE(mm)	3	54 TYPE		Single Acting , Spring Return		
	OUT	2"	80	55 SIZE				VTa				
VALVE BODY & BONNET	13	LINE NO.	GAS-111-0160C-CN05-2'-4T				56	SPRING FAIL ACTION		Fail to Open		
	14	TYPE	Full Bore Ball Valve/ Floating Type				57	MAX ALLOWABLE PRESSURE		VTa		
	15	SIZE	2"				58	MIN REQUIRES PRESSURE		VTa		
	16	MAX PRESS./TEMP.	As per PMS				59	AVAILABLE AIR SUPPLY PRESSURE		MAX/NORM/MIN: 10/7/3 bar-g		
	17	MFR. & MODEL	Will be finalized later				60	BENCH RANGE		VTa		
	18	BODY / BONNET MATL.	ASTM A216 Gr. WCB				61	TRAVELING TIME		5 S		
	19	LINER MATERIAL / ID	VTa				62	FUNCTION		On/Off		
	20	END CONNECTION	IN	2"	300#	63	LOCAL POSITION INDICATOR		Required			
	OUT	27/300#	64	ACT. ORIENTATION		VTa						
	21	FLG FACE FINISH	RF				65	HAND WHEEL TYPE		Detachable side mounted		
	22	END EXT./MATL.	N/A				66	ADJUSTABLE LIMIT STOP		No		
	23	FLOW DIRECTION	(Note 1B in Page 4)				67	INPUT SIGNAL		24VDC		
	24	TYPE OF BONNET	Standard				68	MFR. & MODEL		Will be finalized later		
	25	LUBE & ISO VALVE	No				69	TYPE		N/A		
	26	PACKING MATERIAL	PACKING TYPE	RPTFE	Standard	70	MFR. & MODEL		Will be finalized later			
	27	ENTRY DESIGN	Top / Side Entry				71	ON INCR SIGNAL OUTPUT INCR / DECR		N/A		
	28	NACE REQUIREMENT	NACE (MR-0175/ISO 15156)	Yes								
	TRIM	29	TRIM	TYPE	MATERIAL	VTa	316 SS-RPTFE	72	GAUGES		N/A	
30		SIZE	RATED TRAVEL	VTa	VTa	73	CAM CHARACTERISTIC		N/A			
31		CHARACTERISTICS	On/Off				74	AIR CONNECTION		N/A		
32		BALANCED / UNBALANCED	BALANCED				75	TAG NO. :		BZSC-2134C / BZSQ-2134C		
33		RATED Cv	FL	XT	VTa	VTa	VTa	76	TYPE	QUANTITY	Magnetically operated "REED" contacts	2
34		PLUG / BALL / DISK MATERIAL	316 SS				77	CONTACTS / RATING		110V DC , 10A		
35		SEAT	TYPE	MATERIAL	Soft Seat	316 SS-RPTFE	78	ACTUATION POINT		Fully Open/Close		
36		CAGE / GUIDE MATERIAL	VTa				79	ENCLOSURE MATERIAL		Die Cast Aluminum		
SOLENOID VALVE	37	STEM	TYPE	MATERIAL	Anti-Blow Out	316 SS	80	WEATHER PROTECTION		IP-65		
	38	LEAKAGE CLASS	ANSI Class VI				81	ELEC. CERTIFICATE	ELEC. CONNECTION	EEx "d" , IIB T4	ISO M20 × 1.5	
	39	VALVE STEM EXTENSION REQUIREMENT	No				82	MFR. & MODEL		Will be finalized later		
	40	TAG NO	BSOV-2134C				83	SET PRESSURE		Yes		
	41	TYPE	3 Way				84	PNEUMATIC CONNECTION		1/4" NPT		
	42	BODY MATERIAL	WEATHER IP.	316 S.S	IP-65	85	GAUGES	FILTER	Required	Required		
	43	ELE. CERTIFICATE	ELE. CONNECTION	EEx "d" , IIB T4	ISO M20 × 1.5	86	MFR. & MODEL		Will be finalized later			
	44	MANUAL RESET	Yes				TEST	ANSI/FCI LEAKAGE CLASS		Required		
45	Power Supply	24 VDC				HYDRO PRESSURE		Required				
46	Pne. Connection	1/4" NPT				FUNCTIONAL TEST		Required				
47	FUSIBLE LEAKAGE	No										
SPECIAL / ACCESS.	48	BLOCK RELAY	No				91					
	49	QUICK EXHUST	Yes				92					
	50	FILTER REGULATOR	Yes				FIRE PROOF DESIGN	PASSIVE FIRE PROTECTION		No		
	51	VOLUME TANK	Yes					API 6FA REQUIREMENTS		Yes		
	52	MECHANICAL POSITION INDICATOR	Required					SIL REQUIREMENTS		Yes		
	53	MANUALPNEUMATIC BYPASS VALVE FOR SOLENOID VALVE	Yes					PARTIAL STROKING VALVE TEST		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.

 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							 شرکت توسعه و پارساگان 			
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تجهیزات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۳ از ۳۵		
BK		GCS	PEDCO	120	IN	DT	0010	D04				
Blow Down Valve												
TAG NO: BDV-2132A		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0011-D09 (1/3)						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	-	14.2 ~ 60	-	-	
	6	DENSITY					kg/m3	-	59.63	-	-	
	7	VISCOSITY					CP	-	0.014	-	-	
	8	DESIGN PRESSURE					bar(g)	62.4				
	9	DESIGN TEMPERATURE					°C	175				
	10	VAPOR PRESSURE Pv					bar(a)	-	-	-	-	
11	CRITICAL PRESSURE					bar(a)	-	94.65	-	-		
LINE	PIPE LINE SIZE & SCHEDULE		IN	1 1/2"	40S	CORROSION ALLOWANCE(mm)		0				
			OUT	1 1/2"	40S							
	13 LINE NO.		GAS-111-0054A-FS00-1 1/2"-IS									
VALVE BODY & BONNET	14 TYPE		Full Bore Ball Valve/ Floating Type									
	15 SIZE		1 1/2"									
	16 MAX PRESS./TEMP.		As per PMS									
	17 MFR. & MODEL		Will be finalized later									
	18 BODY / BONNET MATL.		ASTM A182 GR.F316L									
	19 LINER MATERIAL / ID		VTA									
	20 END CONNECTION		IN	1 1/2" /600#								
			OUT	1 1/2" /600#								
	21 FLG FACE FINISH		RF									
	22 END EXT./MATL.		N/A									
	23 FLOW DIRECTION		(Note 1B in Page 4)									
	24 TYPE OF BONNET		Standard									
	25 LUBE & ISO VALVE		No									
	26 PACKING MATERIAL		PACKING TYPE		RPTFE		Standard					
	27 ENTRY DESIGN		Top / Side Entry									
	28 NACE REQUIREMENTNACE (MR-0175/ISO 15156)		Yes									
	TRIM	29 TRIM		TYPE	MATERIAL		VTA		316 SS+RPTFE			
30 SIZE		RATED TRAVEL		VTA		VTA						
31 CHARACTERISTICS		On/Off										
32 BALANCED / UNBALANCED		BALANCED										
33 RATED Cv		FL	XT		VTA		VTA		VTA			
34 PLUG / BALL / DISK MATERIAL		316 SS										
35 SEAT		TYPE	MATERIAL		Soft Seat		316 SS+RPTFE					
36 CAGE / GUIDE MATERIAL		VTA										
37 STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS					
38 LEAKAGE CLASS		ANSI Class VI										
39 VALVE STEM EXTENSION REQUIREMENT		No										
SOLENOID VALVE	40 TAG NO		BSOV-2132A , PSOV-2132A									
	41 TYPE		3 Way									
	42 BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65					
	43 ELE. CERTIFICATE		ELE. CONNECTION		EEx "d" ,IIB T4		ISO M20 x 1.5					
	44 MANUAL RESET		Yes									
	45 Power Supply		24 VDC									
	46 Pnu. Connection		1/4" NPT									
SPECIAL / ACCESS.	47 FUSIBLE LEAKAGE		No									
	48 BLOCK RELAY		No									
	49 QUICK EXHUST		Yes									
	50 FILTER REGULATOR		Yes									
	51 VOLUME TANK		Yes									
	52 MECHANICAL POSITION INDICATOR		Required									
	53 MANUALPNEUMATIC BYPASS VALVE FOR SOLENOID VALVE		Yes									
54 TYPE Single Acting , Spring Return												
55 SIZE VTA												
56 SPRING FAIL ACTION Fail to Open												
57 MAX ALLOWABLE PRESSURE VTA												
58 MIN REQUIRES PRESSURE VTA												
59 AVAILABLE AIR SUPPLY PRESSURE MAX/NORM/MIN: 10/7/3 bar-g												
60 BENCH RANGE VTA												
61 TRAVELING TIME 5 S												
62 FUNCTION On/Off												
63 LOCAL POSITION INDICATOR Required												
64 ACT. ORIENTATION VTA												
65 HAND WHEEL TYPE Dechutchable side mounted												
66 ADJUSTABLE LIMIT STOP No												
67 INPUT SIGNAL 24VDC												
68 MFR. & MODEL Will be finalized later												
69 TYPE N/A												
70 MFR. & MODEL Will be finalized later												
71 ON INCR SIGNAL OUTPUT INCR / DECR N/A												
72 GAUGES N/A												
73 CAM CHARACTERISTIC N/A												
74 AIR CONNECTION N/A												
75 TAG NO. : BZSC-2132A / BZSO-2132A												
76 TYPE QUANTITY Magnetically operated "REED" contacts 2												
77 CONTACTS / RATING 110V DC , 10A												
78 ACTUATION POINT Fully Open/Close												
79 ENCLOSURE MATERIAL Die Cast Aluminum												
80 WEATHER PROTECTION IP-65												
81 ELEC. CERTIFICATE ELEC. CONNECTION EEx "d" ,IIB T4 ISO M20 x 1.5												
82 MFR. & MODEL Will be finalized later												
83 SET PRESSURE Yes												
84 PNEUMATIC CONNECTION 1/4" NPT												
85 GAUGES FILTER Required Required												
86 MFR. & MODEL Will be finalized later												
87 ANSI/FCI LEAKAGE CLASS Required												
88 HYDRO PRESSURE Required												
89 FUNCTIONAL TEST Required												
90												
91												
92												
93 PASSIVE FIRE PROTECTION No												
94 API 6FA REQUIREMENTS Yes												
95 SIL REQUIREMENTS Yes												
96 PARTIAL STROKING VALVE TEST No												
97												
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							 شرکت توسعه و پارس 			
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تجهیزات	رشته	نوع مدرک	سرپال	نسخه	شماره صفحه: ۱۴ از ۳۵		
BK		GCS	PEDCO	120	IN	DT	0010	D04				
Blow Down Valve												
TAG NO: BDV-2132B		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0011-D09 (2/3)						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	-	14.2 ~ 60	-	-	
	6	DENSITY					kg/m3	-	59.63	-	-	
	7	VISCOSITY					CP	-	0.014	-	-	
	8	DESIGN PRESSURE					bar(g)	62.4				
	9	DESIGN TEMPERATURE					°C	175				
	10	VAPOR PRESSURE Pv					bar(a)	-	-	-	-	
11	CRITICAL PRESSURE					bar(a)	-	94.65	-	-		
LINE	PIPE LINE SIZE & SCHEDULE		IN	1 1/2"	40S	CORROSION ALLOWANCE(mm)		0				
			OUT	1 1/2"	40S							
VALVE BODY & BONNET	13 LINE NO.		GAS-111-0054B-F500-1 1/2"-IS									
	14 TYPE		Full Bore Ball Valve/ Floating Type									
	15 SIZE		1 1/2"									
	16 MAX PRESS./TEMP.		As per PMS									
	17 MFR. & MODEL		Will be finalized later									
	18 BODY / BONNET MATL.		ASTM A182 GR.F316L									
	19 LINER MATERIAL / ID		VTA									
	20 END CONNECTION		IN	1 1/2" /600#								
			OUT	1 1/2" /600#								
	21 FLG FACE FINISH		RF									
	22 END EXT./MATL.		N/A									
TRIM	23 FLOW DIRECTION		(Note 1B in Page 4)									
	24 TYPE OF BONNET		Standard									
	25 LUBE & ISO VALVE		No									
	26 PACKING MATERIAL		PACKING TYPE		RPTFE		Standard					
	27 ENTRY DESIGN		Top / Side Entry									
	28 NACE REQUIREMENTNACE (MR-0175/ISO 15156)		Yes									
	29 TRIM		TYPE	MATERIAL		VTA		316 SS+RPTFE				
	30 SIZE		RATED TRAVEL		VTA		VTA					
	31 CHARACTERISTICS		On/Off									
	32 BALANCED / UNBALANCED		BALANCED									
	SOLENOID VALVE	33 RATED Cv		FL	XT		VTA		VTA		VTA	
34 PLUG / BALL / DISK MATERIAL		316 SS										
35 SEAT		TYPE	MATERIAL		Soft Seat		316 SS+RPTFE					
36 CAGE / GUIDE MATERIAL		VTA										
37 STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS					
38 LEAKAGE CLASS		ANSI Class VI										
39 VALVE STEM EXTENSION REQUIREMENT		No										
40 TAG NO		BSOV-2132B , P5OV-2132B										
41 TYPE		3 Way										
42 BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65						
43 ELE. CERTIFICATE		ELE. CONNECTION		EEx "d" ,IIB T4		ISO M20 x 1.5						
SPECIAL / ACCESS.	44 MANUAL RESET		Yes									
	45 Power Supply		24 VDC									
	46 Pna. Connection		1/4" NPT									
	47 FUSIBLE LEAKAGE		No									
	48 BLOCK RELAY		No									
	49 QUICK EXHUST		Yes									
	50 FILTER REGULATOR		Yes									
	51 VOLUME TANK		Yes									
	52 MECHANICAL POSITION INDICATOR		Required									
	53 MANUALPNEUMATIC 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.											

 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							 شرکت توسعه و پارساگان 				
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سرپال	نسخه	شماره صفحه: ۱۵ از ۳۵			
BK		GCS	PEDCO	120	IN	DT	0010	D04					
Blow Down Valve													
TAG NO: BDV-2132C		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0011-D09 (3/3)							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	-	14.2 ~ 60	-	-			
	6 DENSITY					kg/m3	-	59.63	-	-			
	7 VISCOSITY					CP	-	0.014	-	-			
	8 DESIGN PRESSURE					bar(g)	62.4						
	9 DESIGN TEMPERATURE					°C	175						
	10 VAPOR PRESSURE Pv					bar(a)	-	-	-	-			
11 CRITICAL PRESSURE					bar(a)	-	94.65	-	-				
LINE	PIPE LINE SIZE & SCHEDULE		IN	1 1/2"	40S	0		54 TYPE		Single Acting , Spring Return			
			OUT	1 1/2"	40S			55 SIZE		VTA			
VALVE BODY & BONNET	13 LINE NO.		GAS-111-0054C-FS00-1 1/2"-IS										
	14 TYPE		Full Bore Ball Valve/ Floating Type										
	15 SIZE		1 1/2"										
	16 MAX PRESS./TEMP.		As per PMS										
	17 MFR. & MODEL		Will be finalized later										
	18 BODY / BONNET MATL.		ASTM A182 GR.F316L										
	19 LINER MATERIAL / ID		VTA										
	20 END CONNECTION		IN	1 1/2"	/600#			60 BENCH RANGE		VTA			
			OUT	1 1/2"	/600#			61 TRAVELING TIME		5 S			
	21 FLG FACE FINISH		RF										
	22 END EXT./MATL.		N/A										
	23 FLOW DIRECTION		(Note 1B in Page 4)										
	24 TYPE OF BONNET		Standard										
	25 LUBE & ISO VALVE		No										
	26 PACKING MATERIAL		PACKING TYPE		RPTFE		Standard		62 FUNCTION		On/Off		
	27 ENTRY DESIGN		Top / Side Entry										
	28 NACE REQUIREMENT		NACE (MR-0175/ISO 15156)		Yes								
TRIM	29 TRIM		TYPE	MATERIAL		VTA		316 SS-RPTFE		63 LOCAL POSITION INDICATOR		Required	
	30 SIZE		RATED TRAVEL		VTA		VTA		64 ACT. ORIENTATION		VTA		
	31 CHARACTERISTICS		On/Off										
	32 BALANCED / UNBALANCED		BALANCED										
	33 RATED Cv		FL	XT		VTA		VTA		65 HAND WHEEL TYPE		Detachable side mounted	
	34 PLUG / BALL / DISK MATERIAL		316 SS										
	35 SEAT		TYPE	MATERIAL		Soft Seat		316 SS-RPTFE		66 ADJUSTABLE LIMIT STOP		No	
	36 CAGE / GUIDE MATERIAL		VTA										
	37 STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS		67 INPUT SIGNAL		24VDC	
	38 LEAKAGE CLASS		ANSI Class VI										
SOLENOID VALVE	39 VALVE STEM EXTENSION REQUIREMENT		No										
	40 TAG NO		BSOV-2132C , PSOV-2132C										
	41 TYPE		3 Way										
	42 BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65		68 MFR. & MODEL		Will be finalized later		
	43 ELE. CERTIFICATE		ELE. CONNECTION		EEx "d" ,IIB T4		ISO M20 x 1.5		69 TYPE		N/A		
	44 MANUAL RESET		Yes										
SPECIAL / ACCESS.	45 Power Supply		24 VDC										
	46 Pna. Connection		1/4" NPT										
	47 FUSIBLE LEAKAGE		No										
	48 BLOCK RELAY		No										
	49 QUICK EXHUST		Yes										
	50 FILTER REGULATOR		Yes										
	51 VOLUME TANK		Yes										
	52 MECHANICAL POSITION INDICATOR		Required										
	53 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.													



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: ۰۵۳ - ۰۷۳ - ۹۰۳۸

پروژه: BK

بسته کاری: GCS

صادر کننده: PEDCO

تجهیزات: 120

رشته: IN

نوع مدرک: DT

سرپال: 0010

نسخه: D04

شماره صفحه: ۱۶ از ۳۵

Blow Down Valve

TAG NO: **BDV-2141** P&ID NO : BK-GCS-PEDCO-120-PR-P1-0012-D09 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	12.5 ~ 59.89				12.5 ~ 59.89				12.5 ~ 59.89				-
	6 DENSITY	kg/m3	59.17				59.17				59.17				-
	7 VISCOSITY	CP	0.014				0.014				0.014				-
	8 DESIGN PRESSURE	bar(g)					90								
	9 DESIGN TEMPERATURE	°C					175								
	10 VAPOR PRESSURE Pv	bar(a)	-				-				-				-
	11 CRITICAL PRESSURE	bar(a)	106				106				106				-

LINE	PIPE LINE SIZE & SCHEDULE	IN	1 1/2"	160	CORROSION ALLOWANCE(mm)	3	ACTUATOR	54 TYPE		Single Acting , Spring Return	
								55 SIZE	VTa		
VALVE BODY & BONNET	13 LINE NO.	GAS-111-0065-FN05-1 1/2"-4S					POSITIONER	56 SPRING FAIL ACTION	Fail to Open		
	14 TYPE	Full Bore Ball Valve/ Floating Type						57 MAX ALLOWABLE PRESSURE	VTa		
	15 SIZE	1 1/2"						58 MIN REQUIRES PRESSURE	VTa		
	16 MAX PRESS./TEMP.	As per PMS						59 AVAILABLE AIR SUPPLY PRESSURE	MAX/NORM/MIN: 10/7/3 bar-g		
	17 MFR. & MODEL	Will be finalized later						60 BENCH RANGE	VTa		
	18 BODY / BONNET MATL.	ASTM A105						61 TRAVELING TIME	5 S		
	19 LINER MATERIAL / ID	VTa						62 FUNCTION	On/Off		
	20 END CONNECTION	IN	1 1/2"	600#	1 1/2"	600#		63 LOCAL POSITION INDICATOR	Required		
	21 FLG FACE FINISH	RF						64 ACT. ORIENTATION	VTa		
	22 END EXT./MATL.	N/A						65 HAND WHEEL TYPE	Detachable side mounted		
	23 FLOW DIRECTION	(Note 1B in Page 4)						66 ADJUSTABLE LIMIT STOP	No		
24 TYPE OF BONNET	Standard					67 INPUT SIGNAL	24VDC				
25 LUBE & ISO VALVE	No					68 MFR. & MODEL	Will be finalized later				
26 PACKING MATERIAL	PACKING TYPE		RPTFE		Standard	LIMIT SWITCHES	69 TYPE	N/A			
27 ENTRY DESIGN	Top / Side Entry						70 MFR. & MODEL	Will be finalized later			
28 NACE REQUIREMENTNACE (MR-0175/ISO 15156)	Yes						71 ON INCR SIGNAL OUTPUT INCR / DECR	N/A			
TRIM	29 TRIM	TYPE	MATERIAL		VTa	316 SS-RPTFE	TEST	72 GAUGES	N/A		
	30 SIZE	RATED TRAVEL		VTa	VTa	73 CAM CHARACTERISTIC		N/A			
	31 CHARACTERISTICS	On/Off						74 AIR CONNECTION	N/A		
	32 BALANCED / UNBALANCED	BALANCED						75 TAG NO. :	BZSC-2141 / BZSO-2141		
	33 RATED Cv	FL	XT	VTa	VTa	VTa		76 TYPE	QUANTITY	Magnetically operated "REED" contacts	2
	34 PLUG / BALL / DISK MATERIAL	316 SS						77 CONTACTS / RATING	110V DC , 10A		
	35 SEAT	TYPE	MATERIAL		Soft Seat	316 SS-RPTFE		78 ACTUATION POINT	Fully Open/Close		
	36 CAGE / GUIDE MATERIAL	VTa						79 ENCLOSURE MATERIAL	Die Cast Aluminum		
	37 STEM	TYPE	MATERIAL		Anti-Blow Out	316 SS		80 WEATHER PROTECTION	IP-65		
	38 LEAKAGE CLASS	ANSI Class VI						81 ELEC. CERTIFICATE	ELEC. CONNECTION	EEx "d" , IIB T4	ISO M20 × 1.5
	39 VALVE STEM EXTENSION REQUIREMENT	No						82 MFR. & MODEL	Will be finalized later		
SOLENOID VALVE	40 TAG NO	BSOV-2141					FIRE PROOF DESIGN	83 SET PRESSURE	Yes		
	41 TYPE	3 Way						84 PNEUMATIC CONNECTION	1/4" NPT		
	42 BODY MATERIAL	WEATHER IP.		316 S.S	IP-65	85 GAUGES		FILTER	Required	Required	
	43 ELE. CERTIFICATE	ELE. CONNECTION		EEx "d" , IIB T4	ISO M20 × 1.5	86 MFR. & MODEL		Will be finalized later			
	44 MANUAL RESET	Yes						87 ANSI/FCI LEAKAGE CLASS	Required		
	45 Power Supply	24 VDC						88 HYDRO PRESSURE	Required		
SPECIAL / ACCESS.	46 Pna. Connection	1/4" NPT					89 FUNCTIONAL TEST	Required			
	47 FUSIBLE LEAKAGE	No					90				
	48 BLOCK RELAY	No					91				
	49 QUICK EXHUST	Yes					92				
	50 FILTER REGULATOR	Yes					93 PASSIVE FIRE PROTECTION	No			
	51 VOLUME TANK	Yes					94 API 6FA REQUIREMENTS	Yes			
	52 MECHANICAL POSITION INDICATOR	Required					95 SIL REQUIREMENTS	Yes			
	53 MANUALPNEUMATIC BYPASS VALVE FOR SOLENOID VALVE	Yes					96 PARTIAL STROKING VALVE TEST	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: ۰۵۳ - ۰۷۳ - ۹۰۳۸

نسخه: ۰۰۱۰
سرال: ۰۰۱۰
نوع مدرک: DT
رشته: IN
تجهیزات: 120
صادرکننده: PEDCO
بسته کاری: GCS
پروژه: BK

شماره صفحه: ۱۷ از ۳۵

Blow Down Valve

TAG NO: **BDV-2151**

P&ID NO : BK-GCS-PEDCO-120-PR-P1-0013-D08 (1/3)

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	-	2.8~ 59.4	-	-
	6	DENSITY				kg/m3	-	58.06	-	-
	7	VISCOSITY				CP	-	0.013	-	-
	8	DESIGN PRESSURE				bar(g)	90			
	9	DESIGN TEMPERATURE				°C	175			
	10	VAPOR PRESSURE Pv				bar(a)	-	-	-	-
	11	CRITICAL PRESSURE				bar(a)	-	105.9	-	-
LINE	12	PIPE LINE SIZE & SCHEDULE	IN	3"	80	CORROSION ALLOWANCE(mm)	3			
	13	LINE NO.	GAS-111-0071-FN05-3"-J5							
VALVE BODY & BONNET	14	TYPE				Full Bore Ball Valve/Trunnion Mounted				
	15	SIZE				3"				
	16	MAX PRESS./TEMP.				As per PMS				
	17	MFR. & MODEL				Will be finalized later				
	18	BODY / BONNET MATL.				ASTM A216 Gr. WCB				
	19	LINER MATERIAL / ID				VTA				
	20	END CONNECTION	IN	3"	600#					
		OUT	3"	600#						
	21	FLG FACE FINISH				RF				
	22	END EXT./MATL.				N/A				
	23	FLOW DIRECTION				(Note 18 in Page 4)				
	24	TYPE OF BONNET				Standard				
25	LUBE & ISO VALVE				No					
26	PACKING MATERIAL	PACKING TYPE		RPTFE		Standard				
27	ENTRY DESIGN				Top / Side Entry					
28	NACE REQUIREMENTNACE (MR-0175/ISO 15156)				Yes					
TRIM	29	TRIM	TYPE	MATERIAL		VTA		316 SS+RPTFE		
	30	SIZE	RATED TRAVEL		VTA		VTA			
	31	CHARACTERISTICS				On/Off				
	32	BALANCED / UNBALANCED				BALANCED				
	33	RATED Cv	FL	XT	VTA	VTA	VTA			
	34	PLUG / BALL / DISK MATERIAL				316 SS				
	35	SEAT	TYPE	MATERIAL		Soft Seat		316 SS+RPTFE		
	36	CAGE / GUIDE MATERIAL				VTA				
37	STEM	TYPE	MATERIAL		Anti-Blow Out		316 SS			
38	LEAKAGE CLASS				ANSI Class VI					
39	VALVE STEM EXTENSION REQUIREMENT				No					
SOLENOID VALVE	40	TAG NO				BSOV-2151				
	41	TYPE				3 Way				
	42	BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65		
	43	ELE. CERTIFICATE	ELE. CONNECTION		EEx "d", IIB T4		ISO M20 x 1.5			
	44	MANUAL RESET				Yes				
	45	Power Supply				24 VDC				
46	Pma. Connection				1/4" NPT					
SPECIAL / ACCESS.	47	FUSIBLE LEAKAGE				No				
	48	BLOCK RELAY				No				
	49	QUICK EXHUST				Yes				
	50	FILTER REGULATOR				Yes				
	51	VOLUME TANK				Yes				
	52	MECHANICAL POSITION INDICATOR				Required				
	53	MANUALPNEUMATIC BYPASS VALVE FOR SOLENOID VALVE				Yes				
ACTUATOR	54	TYPE				Single Acting , Spring Return				
	55	SIZE				VTA				
	56	SPRING FAIL ACTION				Fail to Open				
	57	MAX ALLOWABLE PRESSURE				VTA				
	58	MIN REQUIRES PRESSURE				VTA				
	59	AVAILABLE AIR SUPPLY PRESSURE				MAX/NOR/MIN: 10/7/3 bar-g				
	60	BENCH RANGE				VTA				
	61	TRAVELING TIME				5 S				
	62	FUNCTION				On/Off				
	63	LOCAL POSITION INDICATOR				Required				
	64	ACT. ORIENTATION				VTA				
	65	HAND WHEEL TYPE				Detachable side mounted				
POSITIONER	66	ADJUSTABLE LIMIT STOP				No				
	67	INPUT SIGNAL				24VDC				
	68	MFR. & MODEL				Will be finalized later				
	69	TYPE				N/A				
70	MFR. & MODEL				Will be finalized later					
71	ON INCR SIGNAL OUTPUT INCR / DECR				N/A					
72	GAUGES				N/A					
73	CAM CHARACTERISTIC				N/A					
74	AIR CONNECTION				N/A					
LIMIT SWITCHES	75	TAG NO. :		BZSC-2151 / BZSO-2151						
	76	TYPE	QUANTITY		Magnetically operated 'REED' contacts		2			
	77	CONTACTS / RATING				110V DC , 10A				
	78	ACTUATION POINT				Fully Open/Close				
	79	ENCLOSURE MATERIAL				Die Cast Aluminum				
	80	WEATHER PROTECTION				IP-65				
	81	ELEC. CERTIFICATE	ELEC. CONNECTION		EEx "d", IIB T4		ISO M20 x 1.5			
	82	MFR. & MODEL				Will be finalized later				
AIR SET	83	SET PRESSURE				Yes				
	84	PNEUMATIC CONNECTION				1/4" NPT				
	85	GAUGES	FILTER		Required		Required			
TEST	86	MFR. & MODEL				Will be finalized later				
	87	ANSI/FCI LEAKAGE CLASS				Required				
	88	HYDRO PRESSURE				Required				
	89	FUNCTIONAL TEST				Required				
90										
91										
92										
FIRE PROOF DESIGN	93	PASSIVE FIRE PROTECTION				No				
	94	API 6FA REQUIREMENTS				Yes				
	95	SIL REQUIREMENTS				Yes				
	96	PARTIAL STROKING VALVE TEST				Yes				
	97									

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.

 NISO C		نگهداشت و افزایش تولید میدان نفتی سطح الارض							 شرکت توسعه و پیمان 								
		احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک															
		Data Sheets For ON/OFF & Shutdown Valves															
شماره پیمان:		پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۸ از ۳۵							
۰۵۳ - ۰۷۳ - ۹۰۳۸		BK	GCS	PEDCO	120	IN	DT	0010	D04								
On-Off Valve																	
TAG NO:		XV-2112		P&ID NO :				BK-GCS-PEDCO-120-PR-PI-0004-D09 (2/2)			SERVICE:	Slug Catcher System					
FLUID STATE:		SLUG		PHASE:				LIQUID			AREA CLASSIFICATION:		Zone2, IIB, T4				
SERVICE CONDITION		ITEM					UNITS		Max Flow	Norm. Flow	Min. Flow	Shut-Off					
	1	FLOW RATE					Kg/H		7873.8	7158.0	2505.3	-					
	2	INLET PRESSURE					bar(g)		18.5	18.5	18.5	-					
	3	OUTLET PRESSURE					bar(g)		18.5	18.5	18.5	-					
	4	DIFFERENTIAL PRESSURE					bar(g)		-	-	-	47.7					
	5	INLET TEMPERATURE					°C		15.2~ 32.0	15.2~ 32.0	15.2~ 32.0	-					
	6	DENSITY					kg/m3		715	715	715	-					
	7	VISCOSITY					CP		0.58	0.58	0.58	-					
	8	DESIGN PRESSURE					bar(g)		47.7								
	9	DESIGN TEMPERATURE					°C		155								
	10	VAPOR PRESSURE Pv					bar(a)		6.487	6.487	6.487	-					
11	CRITICAL PRESSURE					bar(a)		78	78	78	-						
LINE	12	PIPE LINE SIZE & SCHEDULE		IN	4"	120	CORROSION ALLOWANCE(mm)		6		54	TYPE		Single Acting, Spring Return			
	13	LINE NO.		CDH-112-0118-CN07-4"-PT					55	SIZE		VTA					
VALVE BODY & BONNET	14	TYPE		Full Bore Ball Valve/Trunnion Mounted					56	SPRING FAIL ACTION		Fail to Close					
	15	SIZE		4"					57	MAX ALLOWABLE PRESSURE		VTA					
	16	MAX PRESS./TEMP.		As per PMS					58	MIN REQUIRES PRESSURE		VTA					
	17	MFR. & MODEL		Will be finalized later					59	AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g					
	18	BODY / BONNET MATL		ASTM A216 Gr. WCB					60	BENCH RANGE		VTA					
	19	LINER MATERIAL / ID		VTA					61	TRAVELING TIME		5 S					
	20	END CONNECTION		IN	4"/300#				62	FUNCTION		On/Off					
	21	FLG FACE FINISH		RF					63	LOCAL POSITION INDICATOR		Required					
	22	END EXT./MATL.		N/A					64	ACT. ORIENTATION		VTA					
	23	FLOW DIRECTION		(Note 18 in Page 4)					65	HAND WHEEL TYPE		Declutchable side mounted					
TRIM	24	TYPE OF BONNET		Standard					66	ADJUSTABLE LIMIT STOP		Yes					
	25	LUBE & ISO VALVE		No					67	INPUT SIGNAL		24VDC					
	26	PACKING MATERIAL		PACKING TYPE		RPTFE		Standard		68	MFR. & MODEL		Will be finalized later				
	27	ENTRY DESIGN		Top / Side Entry					69	TYPE		N/A					
	28	NACE REQUIREMENTNACE (MR-0175/ISO 15156)		Yes					70	MFR. & MODEL		Will be finalized later					
	29	TRIM		TYPE	MATERIAL		VTA		316 SS+RPTFE		71	ON INCR SIGNAL OUTPUT INCR / DECR		N/A			
	30	SIZE		RATED TRAVEL		VTA		VTA		72	GAUGES		N/A				
	31	CHARACTERISTICS		On/Off					73	CAM CHARACTERISTIC		N/A					
	32	BALANCED / UNBALANCED		BALANCED					74	AIR CONNECTION		N/A					
	33	RATED Cv		FL	XT		VTA		VTA		75	TAG NO. :		XZSC-2112 / XZSO-2112			
SOLENOID VALVE	34	PLUG / BALL / DISK MATERIAL		316 SS					76	TYPE		QUANTITY	Magnetically operated 'REED' contacts		2		
	35	SEAT		TYPE	MATERIAL		Soft Seat		316 SS+RPTFE		77	CONTACTS / RATING		110V DC, 10A			
	36	CAGE / GUIDE MATERIAL		VTA					78	ACTUATION POINT		Fully Open/Close					
	37	STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS		79	ENCLOSURE MATERIAL		Die Cast Aluminum			
	38	LEAKAGE CLASS		ANSI Class VI					80	WEATHER PROTECTION		IP-65					
	39	VALVE STEM EXTENSION REQUIREMENT		No					81	ELEC. CERTIFICATE		ELEC. CONNECTION	EEx "d" ,IIB T4		ISO M20 × 1.5		
	40	TAG NO		ESOV-2112					82	MFR. & MODEL		Will be finalized later					
	41	TYPE		3 Way					83	SET PRESSURE		Yes					
	42	BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65		84	PNEUMATIC CONNECTION		1/4" NPT				
	43	ELE. CERTIFICATE		ELE. CONNECTION		EEx "d" ,IIB T4		ISO M20 × 1.5		85	GAUGES		FILTER	Required		Required	
SPECIAL / ACCESS.	44	MANUAL RESET		Yes					86	MFR. & MODEL		Will be finalized later					
	45	Power Supply		24 VDC					87	ANSI/FCI LEAKAGE CLASS		Required					
	46	Pnu. Connection		1/4" NPT					88	HYDRO PRESSURE		Required					
	47	FUSIBLE LEAKAGE		No					89	FUNCTIONAL TEST		Required					
	48	BLOCK RELAY		No					90								
	49	QUICK EXHUST		Yes					91								
	50	FILTER REGULATOR		Yes					92								
	51	VOLUME TANK		No					93	PASSIVE FIRE PROTECTION		No					
	52	MECHANICAL POSITION INDICATOR		Required					94	API 6FA REQUIREMENTS		Yes					
	53	MANUAL/PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE		Yes					95	SIL REQUIREMENTS		Yes					
											96	PARTIAL STROKING VALVE TEST		No			
											97						
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.																	

 NISO C		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: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پرورده	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۹ از ۳۵	
		BK	GCS	PEDCO	120	IN	DT	0010	D04		
On-Off Valve											
TAG NO: XV-2121A		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0006-D09 (1/3)					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	DESIGN PRESSURE					bar(g)	18.2			
	9	DESIGN TEMPERATURE					°C	85			
	10	VAPOR PRESSURE Pv					bar(a)	-	-	-	-
11	CRITICAL PRESSURE					bar(a)	94.65	94.65	94.65	-	
LINE	12	PIPE LINE SIZE & SCHEDULE		IN	8"	60	CORROSION ALLOWANCE(mm)		6		
	13	LINE NO.		GAS-111-0026A-AN07-8"-PT							
VALVE BODY & BONNET	14	TYPE		Full Bore Ball Valve/Trunnion Mounted							
	15	SIZE		8"							
	16	MAX PRESS./TEMP.		As per PMS							
	17	MFR. & MODEL		Will be finalized later							
	18	BODY / BONNET MATL		ASTM A216 Gr. WCB							
	19	LINER MATERIAL / ID		VTA							
	20	END CONNECTION	IN	8"/300#							
			OUT	8"/300#							
	21	FLG FACE FINISH		RF							
	22	END EXT./MATL.		N/A							
TRIM	23	FLOW DIRECTION		(Note 18 in Page 4)							
	24	TYPE OF BONNET		Standard							
	25	LUBE & ISO VALVE		No							
	26	PACKING MATERIAL		PACKING TYPE		PTFE		Standard			
	27	ENTRY DESIGN		Top / Side Entry							
	28	NACE REQUIREMENTNACE (MR-0175/ISO 15156)		Yes							
	29	TRIM	TYPE	MATERIAL		VTA		316 SS+PTFE			
	30	SIZE	RATED TRAVEL		VTA		VTA				
	31	CHARACTERISTICS		On/Off							
	32	BALANCED / UNBALANCED		BALANCED							
SOLENOID VALVE	33	RATED Cv	FL	XT		VTA		VTA		VTA	
	34	PLUG / BALL / DISK MATERIAL		316 SS							
	35	SEAT	TYPE	MATERIAL		Soft Seat		316 SS+PTFE			
	36	CAGE / GUIDE MATERIAL		VTA							
	37	STEM	TYPE	MATERIAL		Anti-Blow Out		316 SS			
	38	LEAKAGE CLASS		ANSI Class VI							
	39	VALVE STEM EXTENSION REQUIREMENT		No							
	40	TAG NO		PSOV-2121A , ESOV-2121A							
	41	TYPE		3 Way							
	42	BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65			
SPECIAL / ACCESS.	43	ELE. CERTIFICATE	ELE. CONNECTION		EEx "d" ,IIB T4		ISO M20 x 1.5				
	44	MANUAL RESET		Yes							
	45	Power Supply		24 VDC							
	46	Pnu. Connection		1/4" NPT							
	47	FUSIBLE LEAKAGE		No							
	48	BLOCK RELAY		No							
	49	QUICK EXHUST		Yes							
	50	FILTER REGULATOR		Yes							
	51	VOLUME TANK		No							
	52	MECHANICAL POSITION INDICATOR		Required							
53	MANUAL/PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE		Yes								
ACTUATOR	54	TYPE		Single Acting, Spring Return							
	55	SIZE		VTA							
	56	SPRING FAIL ACTION		Fail to Close							
	57	MAX ALLOWABLE PRESSURE		VTA							
	58	MIN REQUIRES PRESSURE		VTA							
	59	AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g							
	60	BENCH RANGE		VTA							
	61	TRAVELING TIME		9 S							
	62	FUNCTION		On/Off							
	63	LOCAL POSITION INDICATOR		Required							
POSITIONER	64	ACT. ORIENTATION		VTA							
	65	HAND WHEEL TYPE		Declutchable side mounted							
	66	ADJUSTABLE LIMIT STOP		Yes							
	67	INPUT SIGNAL		24VDC							
	68	MFR. & MODEL		Will be finalized later							
	69	TYPE		N/A							
	70	MFR. & MODEL		Will be finalized later							
	71	ON INCR SIGNAL OUTPUT INCR / DECR		N/A							
	72	GAUGES		N/A							
	73	CAM CHARACTERISTIC		N/A							
LIMIT SWITCHES	74	AIR CONNECTION		N/A							
	75	TAG NO. :		XZSC-2121A / XZSO-2121A							
	76	TYPE	QUANTITY		Magnetically operated 'REED' contacts		2				
	77	CONTACTS / RATING		110V DC, 10A							
	78	ACTUATION POINT		Fully Open/Close							
	79	ENCLOSURE MATERIAL		Die Cast Aluminum							
	80	WEATHER PROTECTION		IP-65							
	81	ELEC. CERTIFICATE	ELEC. CONNECTION		EEx "d" ,IIB T4		ISO M20 x 1.5				
	82	MFR. & MODEL		Will be finalized later							
	AIR SET	83	SET PRESSURE		Yes						
84		PNEUMATIC CONNECTION		1/4" NPT							
85		GAUGES	FILTER		Required		Required				
86		MFR. & MODEL		Will be finalized later							
TEST	87	ANSI/FCI LEAKAGE CLASS		Required							
	88	HYDRO PRESSURE		Required							
	89	FUNCTIONAL TEST		Required							
	90										
FIRE PROOF DESIGN	91										
	92										
	93	PASSIVE FIRE PROTECTION		No							
	94	API 6FA REQUIREMENTS		Yes							
	95	SIL REQUIREMENTS		Yes							
	96	PARTIAL STROKING VALVE TEST		No							
	97										
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.											

 NISO C		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض							 			
		احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک										
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۲۰ از ۳۵		
		BK	GCS	PEDCO	120	IN	DT	0010	D04			
On-Off Valve												
TAG NO: XV-2121B		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0006-D09 (2/3)					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	DESIGN PRESSURE					bar(g)		18.2			
	9	DESIGN TEMPERATURE					°C		85			
	10	VAPOR PRESSURE Pv					bar(a)		-	-	-	-
11	CRITICAL PRESSURE					bar(a)		94.65	94.65	94.65	-	
LINE	12	PIPE LINE SIZE & SCHEDULE		IN	8"	60	CORROSION ALLOWANCE(mm)		6			
	13	LINE NO.		GAS-111-0026B-AN07-8"-PT								
VALVE BODY & BONNET	14	TYPE		Full Bore Ball Valve/Trunnion Mounted								
	15	SIZE		8"								
	16	MAX PRESS./TEMP.		As per PMS								
	17	MFR. & MODEL		Will be finalized later								
	18	BODY / BONNET MATL		ASTM A216 Gr. WCB								
	19	LINER MATERIAL / ID		VTA								
	20	END CONNECTION	IN	8"/300#								
			OUT	8"/300#								
	21	FLG FACE FINISH		RF								
	22	END EXT./MATL.		N/A								
	23	FLOW DIRECTION		(Note 18 in Page 4)								
24	TYPE OF BONNET		Standard									
25	LUBE & ISO VALVE		No									
26	PACKING MATERIAL		PACKING TYPE		PTFE		Standard					
27	ENTRY DESIGN		Top / Side Entry									
28	NACE REQUIREMENT		NACE (MR-0175/ISO 15156)		Yes							
TRIM	29	TRIM	TYPE	MATERIAL		VTA		316 SS+PTFE				
	30	SIZE	RATED TRAVEL		VTA		VTA					
	31	CHARACTERISTICS		On/Off								
	32	BALANCED / UNBALANCED		BALANCED								
	33	RATED Cv	FL	XT	VTA		VTA		VTA			
	34	PLUG / BALL / DISK MATERIAL		316 SS								
	35	SEAT	TYPE	MATERIAL		Soft Seat		316 SS+PTFE				
	36	CAGE / GUIDE MATERIAL		VTA								
	37	STEM	TYPE	MATERIAL		Anti-Blow Out		316 SS				
	38	LEAKAGE CLASS		ANSI Class VI								
	39	VALVE STEM EXTENSION REQUIREMENT		No								
SOLENOID VALVE	40	TAG NO		PSOV-2121B, ESOV-2121B								
	41	TYPE		3 Way								
	42	BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65				
	43	ELE. CERTIFICATE	ELE. CONNECTION		EEx "d", IIB T4		ISO M20 x 1.5					
	44	MANUAL RESET		Yes								
	45	Power Supply		24 VDC								
	46	Pnu. Connection		1/4" NPT								
SPECIAL / ACCESS.	47	FUSIBLE LEAKAGE		No								
	48	BLOCK RELAY		No								
	49	QUICK EXHUST		Yes								
	50	FILTER REGULATOR		Yes								
	51	VOLUME TANK		No								
	52	MECHANICAL POSITION INDICATOR		Required								
	53	MANUAL/PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE		Yes								
54	TYPE		Single Acting, Spring Return									
55	SIZE		VTA									
56	SPRING FAIL ACTION		Fail to Close									
57	MAX ALLOWABLE PRESSURE		VTA									
58	MIN REQUIRES PRESSURE		VTA									
59	AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g									
60	BENCH RANGE		VTA									
61	TRAVELING TIME		9 S									
62	FUNCTION		On/Off									
63	LOCAL POSITION INDICATOR		Required									
64	ACT. ORIENTATION		VTA									
65	HAND WHEEL TYPE		Declutchable side mounted									
66	ADJUSTABLE LIMIT STOP		Yes									
67	INPUT SIGNAL		24VDC									
68	MFR. & MODEL		Will be finalized later									
69	TYPE		N/A									
70	MFR. & MODEL		Will be finalized later									
71	ON INCR SIGNAL OUTPUT INCR / DECR		N/A									
72	GAUGES		N/A									
73	CAM CHARACTERISTIC		N/A									
74	AIR CONNECTION		N/A									
75	TAG NO. :		XZSC-2121B / XZSO-2121B									
76	TYPE	QUANTITY		Magnetically operated 'REED' contacts		2						
77	CONTACTS / RATING		110V DC, 10A									
78	ACTUATION POINT		Fully Open/Close									
79	ENCLOSURE MATERIAL		Die Cast Aluminum									
80	WEATHER PROTECTION		IP-65									
81	ELEC. CERTIFICATE	ELEC. CONNECTION		EEx "d", IIB T4		ISO M20 x 1.5						
82	MFR. & MODEL		Will be finalized later									
83	SET PRESSURE		Yes									
84	PNEUMATIC CONNECTION		1/4" NPT									
85	GAUGES	FILTER		Required		Required						
86	MFR. & MODEL		Will be finalized later									
87	ANSI/FCI LEAKAGE CLASS		Required									
88	HYDRO PRESSURE		Required									
89	FUNCTIONAL TEST		Required									
90												
91												
92												
93	PASSIVE FIRE PROTECTION		No									
94	API 6FA REQUIREMENTS		Yes									
95	SIL REQUIREMENTS		Yes									
96	PARTIAL STROKING VALVE TEST		No									
97												
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							 		
		احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک									
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۲۱ از ۳۵	
		BK	GCS	PEDCO	120	IN	DT	0010	D04		
On-Off Valve											
TAG NO: XV-2121C		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0006-D09 (3/3)					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	DESIGN PRESSURE					bar(g)	18.2			
	9	DESIGN TEMPERATURE					°C	85			
	10	VAPOR PRESSURE Pv					bar(a)	-	-	-	-
11	CRITICAL PRESSURE					bar(a)	94.65	94.65	94.65	-	
LINE	12	PIPE LINE SIZE & SCHEDULE		IN	8"	60	CORROSION ALLOWANCE(mm)		6		
	13	LINE NO.		GAS-111-0026C-AN07-8"-PT							
VALVE BODY & BONNET	14	TYPE		Full Bore Ball Valve/Trunnion Mounted							
	15	SIZE		8"							
	16	MAX PRESS./TEMP.		As per PMS							
	17	MFR. & MODEL		Will be finalized later							
	18	BODY / BONNET MATL		ASTM A216 Gr. WCB							
	19	LINER MATERIAL / ID		VTA							
	20	END CONNECTION	IN	8"/300#							
		OUT	8"/300#								
	21	FLG FACE FINISH		RF							
	22	END EXT./MATL.		N/A							
	23	FLOW DIRECTION		(Note 18 in Page 4)							
	24	TYPE OF BONNET		Standard							
	25	LUBE & ISO VALVE		No							
	26	PACKING MATERIAL		PACKING TYPE		PTFE		Standard			
27	ENTRY DESIGN		Top / Side Entry								
28	NACE REQUIREMENTNACE (MR-0175/ISO 15156)		Yes								
TRIM	29	TRIM	TYPE	MATERIAL		VTA		316 SS+PTFE			
	30	SIZE	RATED TRAVEL		VTA		VTA				
	31	CHARACTERISTICS		On/Off							
	32	BALANCED / UNBALANCED		BALANCED							
	33	RATED Cv	FL	XT	VTA		VTA		VTA		
	34	PLUG / BALL / DISK MATERIAL		316 SS							
	35	SEAT	TYPE	MATERIAL		Soft Seat		316 SS+PTFE			
	36	CAGE / GUIDE MATERIAL		VTA							
	37	STEM	TYPE	MATERIAL		Anti-Blow Out		316 SS			
	38	LEAKAGE CLASS		ANSI Class VI							
SOLENOID VALVE	39	VALVE STEM EXTENSION REQUIREMENT		No							
	40	TAG NO		PSOV-2121C, ESOV-2121C							
	41	TYPE		3 Way							
	42	BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65			
	43	ELE. CERTIFICATE	ELE. CONNECTION		EEx "d" ,IIB T4		ISO M20 x 1.5				
	44	MANUAL RESET		Yes							
	45	Power Supply		24 VDC							
	46	Pnu. Connection		1/4" NPT							
SPECIAL / ACCESS.	47	FUSIBLE LEAKAGE		No							
	48	BLOCK RELAY		No							
	49	QUICK EXHUST		Yes							
	50	FILTER REGULATOR		Yes							
	51	VOLUME TANK		No							
	52	MECHANICAL POSITION INDICATOR		Required							
	53	MANUAL/PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE		Yes							
ACTUATOR	54	TYPE		Single Acting, Spring Return							
	55	SIZE		VTA							
	56	SPRING FAIL ACTION		Fail to Close							
	57	MAX ALLOWABLE PRESSURE		VTA							
	58	MIN REQUIRES PRESSURE		VTA							
	59	AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g							
	60	BENCH RANGE		VTA							
	61	TRAVELING TIME		9 S							
	62	FUNCTION		On/Off							
	63	LOCAL POSITION INDICATOR		Required							
	64	ACT. ORIENTATION		VTA							
	65	HAND WHEEL TYPE		Declutchable side mounted							
	66	ADJUSTABLE LIMIT STOP		Yes							
	67	INPUT SIGNAL		24VDC							
	68	MFR. & MODEL		Will be finalized later							
	POSITIONER	69	TYPE		N/A						
		70	MFR. & MODEL		Will be finalized later						
71		ON INCR SIGNAL OUTPUT INCR / DECR		N/A							
72		GAUGES		N/A							
LIMIT SWITCHES	73	CAM CHARACTERISTIC		N/A							
	74	AIR CONNECTION		N/A							
	75	TAG NO. :		XZSC-2121C / XZSO-2121C							
	76	TYPE	QUANTITY		Magnetically operated 'REED' contacts		2				
	77	CONTACTS / RATING		110V DC, 10A							
	78	ACTUATION POINT		Fully Open/Close							
AIR SET	79	ENCLOSURE MATERIAL		Die Cast Aluminum							
	80	WEATHER PROTECTION		IP-65							
	81	ELEC. CERTIFICATE	ELEC. CONNECTION		EEx "d" ,IIB T4		ISO M20 x 1.5				
	82	MFR. & MODEL		Will be finalized later							
	83	SET PRESSURE		Yes							
	84	PNEUMATIC CONNECTION		1/4" NPT							
	85	GAUGES	FILTER		Required		Required				
	86	MFR. & MODEL		Will be finalized later							
TEST	87	ANSI/FCI LEAKAGE CLASS		Required							
	88	HYDRO PRESSURE		Required							
	89	FUNCTIONAL TEST		Required							
	90										
FIRE PROOF DESIGN	91										
	92										
	93	PASSIVE FIRE PROTECTION		No							
	94	API 6FA REQUIREMENTS		Yes							
	95	SIL REQUIREMENTS		Yes							
	96	PARTIAL STROKING VALVE TEST		No							
	97										
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				تگهداشت 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	تهیهات	رشته	نوع مدرک	سریال	نسخه			
				BK	GCS	PEDCO	120	IN	DT	0010	D04			
شماره صفحه: ۲۲ از ۳۵														
On-Off Valve														
TAG NO: XV-2122A				P&ID NO : BK-GCS-PEDCO-120-PR-PI-0006-D09 (1/3)				SERVICE: 1st Stage Gas Compression Suction Drums						
FLUID STATE: CLOSED DRAIN				PHASE: LIQUID				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)		-		4.9	-	-
	3	OUTLET PRESSURE						bar(g)		-		4.9	-	-
	4	DIFFERENTIAL PRESSURE						bar(g)		-		-	-	30.3
	5	INLET TEMPERATURE						°C		-		36.78	-	-
	6	DENSITY						kg/m3		-		998.5	-	-
	7	VISCOSITY						CP		-		0.69	-	-
	8	DESIGN PRESSURE						bar(g)		30.3				
	9	DESIGN TEMPERATURE						°C		155				
	10	VAPOR PRESSURE Pv						bar(a)		0.61		0.61	0.61	-
11	CRITICAL PRESSURE						bar(a)		221.3		221.3	221.3	-	
LINE	PIPE LINE SIZE & SCHEDULE		IN	2"	10S	CORROSION ALLOWANCE(mm)		0						
			OUT	2"	10S									
VALVE BODY & BONNET	13		LINE NO.		CDH-112-0021A-CS00-2"-NP									
	14		TYPE		Full Bore Ball Valve/Floating Type									
	15		SIZE		2"									
	16		MAX PRESS./TEMP.		As per PMS									
	17		MFR. & MODEL		Will be finalized later									
	18		BODY / BONNET MATL		ASTM A351 GR.CF3M									
	19		LINER MATERIAL /ID		VTA									
	20		END CONNECTION		IN	2"/300#								
					OUT	2"/300#								
	21		FLG FACE FINISH		RF									
	22		END EXT./MATL.		N/A									
	23		FLOW DIRECTION		(Note 18 in Page 4)									
	24		TYPE OF BONNET		Standard									
	25		LUBE & ISO VALVE		No									
	26		PACKING MATERIAL		PACKING TYPE		RPTFE		Standard					
	27		ENTRY DESIGN		Top / Side Entry									
	28		NACE REQUIREMENTNACE (MR-0175/ISO 15156)		Yes									
	TRIM	29		TRIM		TYPE	MATERIAL		VTA		316 SS+RPTFE			
		30		SIZE		RATED TRAVEL		VTA		VTA				
31		CHARACTERISTICS		On/Off										
32		BALANCED / UNBALANCED		BALANCED										
33		RATED Cv		FL	XT		VTA		VTA					
34		PLUG / BALL / DISK MATERIAL		316 SS										
35		SEAT		TYPE	MATERIAL		Soft Seat		316 SS+RPTFE					
36		CAGE / GUIDE MATERIAL		VTA										
37		STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS					
38		LEAKAGE CLASS		ANSI Class VI										
39		VALVE STEM EXTENSION REQUIREMENT		No										
SOLENOID VALVE	40		TAG NO		PSOV-2122A , ESOV-2122A									
	41		TYPE		3 Way									
	42		BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65					
	43		ELE. CERTIFICATE		ELE. CONNECTION		EEex "d" JIB T4		ISO M20 x 1.5					
	44		MANUAL RESET		Yes									
	45		Power Supply		24 VDC									
SPECIAL / ACCESS.	46		Pou. Connection		1/4" NPT									
	47		FUSIBLE LEAKAGE		No									
	48		BLOCK RELAY		No									
	49		QUICK EXHUST		Yes									
	50		FILTER REGULATOR		Yes									
	51		VOLUME TANK		No									
	52		MECHANICAL POSITION INDICATOR		Required									
	53		MANUAL/PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE		Yes									
ACTUATOR	54		TYPE		Single Acting, Spring Return									
	55		SIZE		VTA									
	56		SPRING FAIL ACTION		Fail to Close									
	57		MAX ALLOWABLE PRESSURE		VTA									
	58		MIN REQUIRES PRESSURE		VTA									
	59		AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g									
	60		BENCH RANGE		VTA									
	61		TRAVELING TIME		5 s									
	62		FUNCTION		On/Off									
	63		LOCAL POSITION INDICATOR		Required									
	64		ACT. ORIENTATION		VTA									
	65		HAND WHEEL TYPE		Declutchable side mounted									
	66		ADJUSTABLE LIMIT STOP		Yes									
	67		INPUT SIGNAL		24VDC									
	68		MFR. & MODEL		Will be finalized later									
	POSITIONER	69		TYPE		N/A								
		70		MFR. & MODEL		Will be finalized later								
71		ON INCR SIGNAL OUTPUT INCR / DECR		N/A										
72		GAUGES		N/A										
LIMIT SWITCHES	73		CAM CHARACTERISTIC		N/A									
	74		AIR CONNECTION		N/A									
	75		TAG NO. :		XZSC-2122A / XZSO-2122A									
	76		TYPE		QUANTITY		Magnetically operated "REED" contacts		2					
	77		CONTACTS / RATING		110V DC , 10A									
	78		ACTUATION POINT		Fully Open/Close									
	79		ENCLOSURE MATERIAL		Die Cast Aluminum									
	80		WEATHER PROTECTION		IP-65									
AIR SET	81		ELEC. CERTIFICATE		ELEC. CONNECTION		EEex "d" JIB T4		ISO M20 × 1.5					
	82		MFR. & MODEL		Will be finalized later									
	83		SET PRESSURE		Yes									
	84		PNEUMATIC CONNECTION		1/4" NPT									
	85		GAUGES		FILTER		Required		Required					
	86		MFR. & MODEL		Will be finalized later									
	87		ANSI/FCI LEAKAGE CLASS		Required									
	88		HYDRO PRESSURE		Required									
TEST	89		FUNCTIONAL TEST		Required									
	90													
	91													
	92													
FIRE PROOF DESIGN	93		PASSIVE FIRE PROTECTION		No									
	94		API 6FA REQUIREMENTS		Yes									
	95		SIL REQUIREMENTS		Yes									
	96		PARTIAL STROKING VALVE TEST		No									
	97													
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							 			
		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	تسهيلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۲۳ از ۳۵		
		BK	GCS	PEDCO	120	IN	DT	0010	D04			
On-Off Valve												
TAG NO: XV-2122B		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0006-D09 (2/3)						SERVICE: 1st Stage Gas Compression Suction Drums				
FLUID STATE: CLOSED DRAIN		PHASE: LIQUID						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)		-		4.9	-	-
	3	OUTLET PRESSURE				bar(g)		-		4.9	-	-
	4	DIFFERENTIAL PRESSURE				bar(g)		-		-	-	30.3
	5	INLET TEMPERATURE				°C		-		36.78	-	-
	6	DENSITY				kg/m3		-		998.5	-	-
	7	VISCOSITY				CP		-		0.69	-	-
	8	DESIGN PRESSURE				bar(g)				30.3		
	9	DESIGN TEMPERATURE				°C				155		
	10	VAPOR PRESSURE Pv				bar(a)		0.61		0.61	0.61	-
11	CRITICAL PRESSURE				bar(a)		221.3		221.3	221.3	-	
LINE	PIPE LINE SIZE & SCHEDULE		IN	2"	10S	CORROSION ALLOWANCE(mm)				0		
	LINE NO.		CDH-112-0021B-CS00-2"-NP									
VALVE BODY & BONNET	TYPE		Full Bore Ball Valve/Floating Type									
	SIZE		2"									
	MAX PRESS./TEMP.		As per PMS									
	MFR. & MODEL		Will be finalized later									
	BODY / BONNET MATL		ASTM A351 GR.CF3M									
	LINER MATERIAL / ID		VTA									
	END CONNECTION		IN	2"/300#								
			OUT	2"/300#								
	FLG FACE FINISH		RF									
	END EXT./MATL.		N/A									
	FLOW DIRECTION		(Note 18 in Page 4)									
	TYPE OF BONNET		Standard									
	LUBE & ISO VALVE		No									
	PACKING MATERIAL		PACKING TYPE		RPTFE		Standard					
	ENTRY DESIGN		Top / Side Entry									
NACE REQUIREMENTNACE (MR-0175/ISO 15156)		Yes										
TRIM	TRIM		TYPE	MATERIAL		VTA		316 SS+RPTFE				
	SIZE		RATED TRAVEL		VTA		VTA					
	CHARACTERISTICS		On/Off									
	BALANCED / UNBALANCED		BALANCED									
	RATED Cv		FL	XT		VTA		VTA		VTA		
	PLUG / BALL / DISK MATERIAL		316 SS									
	SEAT		TYPE	MATERIAL		Soft Seat		316 SS+RPTFE				
	CAGE / GUIDE MATERIAL		VTA									
	STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS				
	LEAKAGE CLASS		ANSI Class VI									
VALVE STEM EXTENSION REQUIREMENT		No										
SOLENOID VALVE	TAG NO		PSOV-2122B , ESOV-2122B									
	TYPE		3 Way									
	BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65					
	ELE. CERTIFICATE		ELE. CONNECTION		EEx "d" ,IIB T4		ISO M20 x 1.5					
	MANUAL RESET		Yes									
	Power Supply		24 VDC									
	Pnu. Connection		1/4" NPT									
	FUSIBLE LEAKAGE		No									
SPECIAL / ACCESS.	BLOCK RELAY		No									
	QUICK EXHUST		Yes									
	FILTER REGULATOR		Yes									
	VOLUME TANK		No									
	MECHANICAL POSITION INDICATOR		Required									
	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.												

 NISO C		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: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۲۴ از ۳۵	
		BK	GCS	PEDCO	120	IN	DT	0010	D04		
On-Off Valve											
TAG NO: XV-2122C		P&ID NO: BK-GCS-PEDCO-120-PR-PI-0006-D09 (3/3)					SERVICE: 1st Stage Gas Compression Suction Drums				
FLUID STATE: CLOSED DRAIN		PHASE: LIQUID					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)	-	4.9	-	-
	3	OUTLET PRESSURE					bar(g)	-	4.9	-	-
	4	DIFFERENTIAL PRESSURE					bar(g)	-	-	-	30.3
	5	INLET TEMPERATURE					°C	-	36.78	-	-
	6	DENSITY					kg/m3	-	998.5	-	-
	7	VISCOSITY					CP	-	0.69	-	-
	8	DESIGN PRESSURE					bar(g)	30.3			
	9	DESIGN TEMPERATURE					°C	155			
	10	VAPOR PRESSURE Pv					bar(a)	0.61	0.61	0.61	-
11	CRITICAL PRESSURE					bar(a)	221.3	221.3	221.3	-	
LINE	PIPE LINE SIZE & SCHEDULE		IN	2"	10S	CORROSION ALLOWANCE(mm)		0			
	LINE NO.		CDH-112-0021C-CS00-2"-NP								
VALVE BODY & BONNET	TYPE		Full Bore Ball Valve/Floating Type								
	SIZE		2"								
	MAX PRESS./TEMP.		As per PMS								
	MFR. & MODEL		Will be finalized later								
	BODY / BONNET MATL		ASTM A351 GR.CF3M								
	LINER MATERIAL / ID		VTA								
	END CONNECTION		IN	2"/300#							
			OUT	2"/300#							
	FLG FACE FINISH		RF								
	END EXT./MATL.		N/A								
	FLOW DIRECTION		(Note 18 in Page 4)								
	TYPE OF BONNET		Standard								
	LUBE & ISO VALVE		No								
	PACKING MATERIAL		PACKING TYPE		RPTFE		Standard				
	ENTRY DESIGN		Top / Side Entry								
NACE REQUIREMENTNACE (MR-0175/ISO 15156)		Yes									
TRIM	TRIM		TYPE	MATERIAL		VTA		316 SS+RPTFE			
	SIZE		RATED TRAVEL		VTA		VTA				
	CHARACTERISTICS		On/Off								
	BALANCED / UNBALANCED		BALANCED								
	RATED Cv		FL	XT		VTA		VTA			
	PLUG / BALL / DISK MATERIAL		316 SS								
	SEAT		TYPE	MATERIAL		Soft Seat		316 SS+RPTFE			
	CAGE / GUIDE MATERIAL		VTA								
	STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS			
	LEAKAGE CLASS		ANSI Class VI								
	VALVE STEM EXTENSION REQUIREMENT		No								
SOLENOID VALVE	TAG NO		PSOV-2122C , ESOV-2122C								
	TYPE		3 Way								
	BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65				
	ELE. CERTIFICATE		ELE. CONNECTION		EEx "d" ,IIB T4		ISO M20 x 1.5				
	MANUAL RESET		Yes								
	Power Supply		24 VDC								
	Pnu. Connection		1/4" NPT								
SPECIAL / ACCESS.	FUSIBLE LEAKAGE		No								
	BLOCK RELAY		No								
	QUICK EXHUST		Yes								
	FILTER REGULATOR		Yes								
	VOLUME TANK		No								
	MECHANICAL POSITION INDICATOR		Required								
	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.											

 NISO C		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض							 		
		احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک									
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۲۵ از ۲۵	
		BK	GCS	PEDCO	120	IN	DT	0010	D04		
On-Off Valve											
TAG NO: XV-2131A		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0009-D09 (1 of 3)						SERVICE: 2nd Stage Gas Compression Suction Drums			
FLUID STATE: CLOSED DRAIN		PHASE: LIQUID						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	DESIGN PRESSURE					bar(g)	30.3			
	9	DESIGN TEMPERATURE					°C	155			
	10	VAPOR PRESSURE Pv					bar(a)	-	3.23	-	-
11	CRITICAL PRESSURE					bar(a)	221.5	221.5	221.5	-	
LINE	12	PIPE LINE SIZE & SCHEDULE		IN	2"	10S	CORROSION ALLOWANCE(mm)		0		
	13	LINE NO.		CDH-111-0023A-CS00-2"-NP							
VALVE BODY & BONNET	14	TYPE		Full Bore Ball Valve/Floating Type							
	15	SIZE		2"							
	16	MAX PRESS./TEMP.		As per PMS							
	17	MFR. & MODEL		Will be finalized later							
	18	BODY / BONNET MATL		ASTM A351 GR.CF3M							
	19	LINER MATERIAL / ID		VTA							
	20	END CONNECTION	IN	2"/300#							
			OUT	2"/300#							
	21	FLG FACE FINISH		RF							
	22	END EXT./MATL.		N/A							
	23	FLOW DIRECTION		(Note 18 in Page 4)							
	24	TYPE OF BONNET		Standard							
	25	LUBE & ISO VALVE		No							
	26	PACKING MATERIAL		PACKING TYPE		RPTFE		Standard			
	27	ENTRY DESIGN		Top / Side Entry							
28	NACE REQUIREMENTNACE (MR-0175/ISO 15156)		Yes								
TRIM	29	TRIM	TYPE	MATERIAL		VTA		316 SS+RPTFE			
	30	SIZE	RATED TRAVEL		VTA		VTA				
	31	CHARACTERISTICS		On/Off							
	32	BALANCED / UNBALANCED		BALANCED							
	33	RATED Cv	FL	XT	VTA		VTA		VTA		
	34	PLUG / BALL / DISK MATERIAL		316 SS							
	35	SEAT	TYPE	MATERIAL		Soft Seat		316 SS+RPTFE			
	36	CAGE / GUIDE MATERIAL		VTA							
	37	STEM	TYPE	MATERIAL		Anti-Blow Out		316 SS			
	38	LEAKAGE CLASS		ANSI Class VI							
39	VALVE STEM EXTENSION REQUIREMENT		No								
SOLENOID VALVE	40	TAG NO		PSOV-2131A , ESOV-2131A							
	41	TYPE		3 Way							
	42	BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65			
	43	ELE. CERTIFICATE	ELE. CONNECTION		EEx "d" ,IIB T4		ISO M20 x 1.5				
	44	MANUAL RESET		Yes							
	45	Power Supply		24 VDC							
	46	Pnu. Connection		1/4" NPT							
SPECIAL / ACCESS.	47	FUSIBLE LEAKAGE		No							
	48	BLOCK RELAY		No							
	49	QUICK EXHUST		Yes							
	50	FILTER REGULATOR		Yes							
	51	VOLUME TANK		No							
	52	MECHANICAL POSITION INDICATOR		Required							
	53	MANUAL/PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE		Yes							
54	TYPE		Single Acting, Spring Return								
55	SIZE		VTA								
56	SPRING FAIL ACTION		Fail to Close								
57	MAX ALLOWABLE PRESSURE		VTA								
58	MIN REQUIRES PRESSURE		VTA								
59	AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g								
60	BENCH RANGE		VTA								
61	TRAVELING TIME		5 S								
62	FUNCTION		On/Off								
63	LOCAL POSITION INDICATOR		Required								
64	ACT. ORIENTATION		VTA								
65	HAND WHEEL TYPE		Declutchable side mounted								
66	ADJUSTABLE LIMIT STOP		Yes								
67	INPUT SIGNAL		24VDC								
68	MFR. & MODEL		Will be finalized later								
69	TYPE		N/A								
70	MFR. & MODEL		Will be finalized later								
71	ON INCR SIGNAL OUTPUT INCR / DECR		N/A								
72	GAUGES		N/A								
73	CAM CHARACTERISTIC		N/A								
74	AIR CONNECTION		N/A								
75	TAG NO. :		XZSC-2131A / XZSO-2131A								
76	TYPE	QUANTITY		Magnetically operated 'REED' contacts		2					
77	CONTACTS / RATING		110V DC, 10A								
78	ACTUATION POINT		Fully Open/Close								
79	ENCLOSURE MATERIAL		Die Cast Aluminum								
80	WEATHER PROTECTION		IP-65								
81	ELEC. CERTIFICATE	ELEC. CONNECTION		EEx "d" ,IIB T4		ISO M20 x 1.5					
82	MFR. & MODEL		Will be finalized later								
83	SET PRESSURE		Yes								
84	PNEUMATIC CONNECTION		1/4" NPT								
85	GAUGES	FILTER		Required		Required					
86	MFR. & MODEL		Will be finalized later								
87	ANSI/FCI LEAKAGE CLASS		Required								
88	HYDRO PRESSURE		Required								
89	FUNCTIONAL TEST		Required								
90											
91											
92											
93	PASSIVE FIRE PROTECTION		No								
94	API 6FA REQUIREMENTS		Yes								
95	SIL REQUIREMENTS		Yes								
96	PARTIAL STROKING VALVE TEST		No								
97											
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.											

 NISO C		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض							 			
		احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک										
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۲۶ از ۳۵		
		BK	GCS	PEDCO	120	IN	DT	0010	D04			
On-Off Valve												
TAG NO: XV-2131B		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0009-D09 (2 of 3)						SERVICE: 2nd Stage Gas Compression Suction Drums				
FLUID STATE: CLOSED DRAIN		PHASE: LIQUID						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	DESIGN PRESSURE				bar(g)		30.3				
	9	DESIGN TEMPERATURE				°C						
	10	VAPOR PRESSURE Pv				bar(a)		-		3.23	-	-
11	CRITICAL PRESSURE				bar(a)		221.5		221.5	221.5	-	
LINE	PIPE LINE SIZE & SCHEDULE		IN	2"	10S	CORROSION ALLOWANCE(mm)		0		54 TYPE Single Acting, Spring Return		
	LINE NO.		OUT		2"	10S	CDH-111-0023B-CS00-2"-NP		55 SIZE VTA			
VALVE BODY & BONNET	14 TYPE		Full Bore Ball Valve/Floating Type				56 SPRING FAIL ACTION		Fail to Close			
	15 SIZE		2"				57 MAX ALLOWABLE PRESSURE		VTA			
	16 MAX PRESS./TEMP.		As per PMS				58 MIN REQUIRES PRESSURE		VTA			
	17 MFR. & MODEL		Will be finalized later				59 AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g			
	18 BODY / BONNET MATL		ASTM A351 GR.CF3M				60 BENCH RANGE		VTA			
	19 LINER MATERIAL / ID		VTA				61 TRAVELING TIME		5 S			
	20 END CONNECTION		IN	2"/300#		62 FUNCTION		On/Off				
	21 FLG FACE FINISH		RF				63 LOCAL POSITION INDICATOR		Required			
	22 END EXT./MATL.		N/A				64 ACT. ORIENTATION		VTA			
	23 FLOW DIRECTION		(Note 18 in Page 4)				65 HAND WHEEL TYPE		Declutchable side mounted			
24 TYPE OF BONNET		Standard				66 ADJUSTABLE LIMIT STOP		Yes				
25 LUBE & ISO VALVE		No				67 INPUT SIGNAL		24VDC				
26 PACKING MATERIAL		PACKING TYPE		RPTFE		68 MFR. & MODEL		Will be finalized later				
27 ENTRY DESIGN		Top / Side Entry				69 TYPE		N/A				
28 NACE REQUIREMENTNACE (MR-0175/ISO 15156)		Yes				70 MFR. & MODEL		Will be finalized later				
TRIM	29 TRIM		TYPE	MATERIAL		VTA		71 ON INCR SIGNAL OUTPUT INCR / DECR		N/A		
	30 SIZE		RATED TRAVEL		VTA		72 GAUGES		N/A			
	31 CHARACTERISTICS		On/Off				73 CAM CHARACTERISTIC		N/A			
	32 BALANCED / UNBALANCED		BALANCED				74 AIR CONNECTION		N/A			
	33 RATED Cv		FL	XT		VTA		75 TAG NO. :		XZSC-2131B / XZSO-2131B		
	34 PLUG / BALL / DISK MATERIAL		316 SS				76 TYPE		QUANTITY	Magnetically operated 'REED' contacts 2		
	35 SEAT		TYPE	MATERIAL		Soft Seat		77 CONTACTS / RATING		110V DC, 10A		
	36 CAGE / GUIDE MATERIAL		VTA				78 ACTUATION POINT		Fully Open/Close			
	37 STEM		TYPE	MATERIAL		Anti-Blow Out		79 ENCLOSURE MATERIAL		Die Cast Aluminum		
	38 LEAKAGE CLASS		ANSI Class VI				80 WEATHER PROTECTION		IP-65			
SOLENOID VALVE	39 VALVE STEM EXTENSION REQUIREMENT		No				81 ELEC. CERTIFICATE		ELEC. CONNECTION	EEx "d" ,IIB T4	ISO M20 x 1.5	
	40 TAG NO		PSOV-2131B, ESOV-2131B				82 MFR. & MODEL		Will be finalized later			
	41 TYPE		3 Way				83 SET PRESSURE		Yes			
	42 BODY MATERIAL		WEATHER IP.		AISI 316 S.S		84 PNEUMATIC CONNECTION		1/4" NPT			
	43 ELE. CERTIFICATE		ELE. CONNECTION		EEx "d" ,IIB T4		85 GAUGES		FILTER	Required	Required	
	44 MANUAL RESET		Yes				86 MFR. & MODEL		Will be finalized later			
	45 Power Supply		24 VDC				87 ANSI/FCI LEAKAGE CLASS		Required			
	46 Pnu. Connection		1/4" NPT				88 HYDRO PRESSURE		Required			
SPECIAL / ACCESS.	47 FUSIBLE LEAKAGE		No				89 FUNCTIONAL TEST		Required			
	48 BLOCK RELAY		No				90					
	49 QUICK EXHUST		Yes				91					
	50 FILTER REGULATOR		Yes				92					
	51 VOLUME TANK		No				93 PASSIVE FIRE PROTECTION		No			
	52 MECHANICAL POSITION INDICATOR		Required				94 API 6FA REQUIREMENTS		Yes			
	53 MANUAL/PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE		Yes				95 SIL REQUIREMENTS		Yes			
						96 PARTIAL STROKING VALVE TEST		No				
						97						
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.												

 NISO C		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض							 			
		احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک										
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۲۷ از ۳۵		
		BK	GCS	PEDCO	120	IN	DT	0010	D04			
On-Off Valve												
TAG NO: XV-2131C		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0009-D09 (3 of 3)					SERVICE: 2nd Stage Gas Compression Suction Drums					
FLUID STATE: CLOSED DRAIN		PHASE: LIQUID					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	DESIGN PRESSURE					bar(g)	30.3				
	9	DESIGN TEMPERATURE					°C	155				
	10	VAPOR PRESSURE Pv					bar(a)	-	3.23	-	-	
11	CRITICAL PRESSURE					bar(a)	221.5	221.5	221.5	-		
LINE	12	PIPE LINE SIZE & SCHEDULE		IN	2"	10S	CORROSION ALLOWANCE(mm)		0			
	13	LINE NO.		CDH-111-0023C-CS00-2"-NP								
VALVE BODY & BONNET	14	TYPE		Full Bore Ball Valve/Floating Type								
	15	SIZE		2"								
	16	MAX PRESS./TEMP.		As per PMS								
	17	MFR. & MODEL		Will be finalized later								
	18	BODY / BONNET MATL		ASTM A351 GR.CF3M								
	19	LINER MATERIAL / ID		VTA								
	20	END CONNECTION	IN	2"/300#		ACTUATOR						
		OUT	2"/300#									
	21	FLG FACE FINISH		RF								
	22	END EXT./MATL.		N/A								
	23	FLOW DIRECTION		(Note 18 in Page 4)								
	24	TYPE OF BONNET		Standard								
	25	LUBE & ISO VALVE		No								
	26	PACKING MATERIAL		PACKING TYPE	RPTFE		Standard					
	27	ENTRY DESIGN		Top / Side Entry								
28	NACE REQUIREMENTNACE (MR-0175/ISO 15156)		Yes									
TRIM	29	TRIM	TYPE	MATERIAL		VTA		316 SS+RPTFE				
	30	SIZE	RATED TRAVEL		VTA		VTA					
	31	CHARACTERISTICS		On/Off								
	32	BALANCED / UNBALANCED		BALANCED								
	33	RATED Cv	FL	XT	VTA		VTA		VTA			
	34	PLUG / BALL / DISK MATERIAL		316 SS								
	35	SEAT	TYPE	MATERIAL		Soft Seat		316 SS+RPTFE				
	36	CAGE / GUIDE MATERIAL		VTA								
	37	STEM	TYPE	MATERIAL		Anti-Blow Out		316 SS				
	38	LEAKAGE CLASS		ANSI Class VI								
SOLENOID VALVE	39	VALVE STEM EXTENSION REQUIREMENT		No								
	40	TAG NO		PSOV-2131C, ESOV-2131C								
	41	TYPE		3 Way								
	42	BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65				
	43	ELE. CERTIFICATE	ELE. CONNECTION		EEx "d", IIB T4		ISO M20 x 1.5					
	44	MANUAL RESET		Yes								
	45	Power Supply		24 VDC								
	46	Pnu. Connection		1/4" NPT								
SPECIAL / ACCESS.	47	FUSIBLE LEAKAGE		No								
	48	BLOCK RELAY		No								
	49	QUICK EXHUST		Yes								
	50	FILTER REGULATOR		Yes								
	51	VOLUME TANK		No								
	52	MECHANICAL POSITION INDICATOR		Required								
	53	MANUAL/PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE		Yes								
54	TYPE		Single Acting, Spring Return									
	55	SIZE		VTA								
	56	SPRING FAIL ACTION		Fail to Close								
	57	MAX ALLOWABLE PRESSURE		VTA								
	58	MIN REQUIRES PRESSURE		VTA								
	59	AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g								
	60	BENCH RANGE		VTA								
	61	TRAVELING TIME		5 S								
	62	FUNCTION		On/Off								
	63	LOCAL POSITION INDICATOR		Required								
	64	ACT. ORIENTATION		VTA								
	65	HAND WHEEL TYPE		Declutchable side mounted								
	66	ADJUSTABLE LIMIT STOP		Yes								
	67	INPUT SIGNAL		24VDC								
	68	MFR. & MODEL		Will be finalized later								
	POSITIONER	69	TYPE		N/A							
		70	MFR. & MODEL		Will be finalized later							
71		ON INCR SIGNAL OUTPUT INCR / DECR		N/A								
72		GAUGES		N/A								
LIMIT SWITCHES	73	CAM CHARACTERISTIC		N/A								
	74	AIR CONNECTION		N/A								
	75	TAG NO. :		XZSC-2131C / XZSO-2131C								
	76	TYPE	QUANTITY		Magnetically operated 'REED' contacts		2					
	77	CONTACTS / RATING		110V DC, 10A								
	78	ACTUATION POINT		Fully Open/Close								
	79	ENCLOSURE MATERIAL		Die Cast Aluminum								
	80	WEATHER PROTECTION		IP-65								
	81	ELEC. CERTIFICATE	ELEC. CONNECTION		EEx "d", IIB T4		ISO M20 x 1.5					
	82	MFR. & MODEL		Will be finalized later								
AIR SET	83	SET PRESSURE		Yes								
	84	PNEUMATIC CONNECTION		1/4" NPT								
	85	GAUGES	FILTER		Required		Required					
	86	MFR. & MODEL		Will be finalized later								
TEST	87	ANSI/FCI LEAKAGE CLASS		Required								
	88	HYDRO PRESSURE		Required								
	89	FUNCTIONAL TEST		Required								
	90											
FIRE PROOF DESIGN	91											
	92											
	93	PASSIVE FIRE PROTECTION		No								
	94	API 6FA REQUIREMENTS		Yes								
	95	SIL REQUIREMENTS		Yes								
	96	PARTIAL STROKING VALVE TEST		No								
	97											
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.												

 NISO C		نگهداشت و افزایش تولید میدان نفتی سطح الارض							 		
		احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک									
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۲۸ از ۳۵	
		BK	GCS	PEDCO	120	IN	DT	0010	D04		
On-Off Valve											
TAG NO: XV-2133A		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0011-D09 (1 of 3)					SERVICE: 2nd Stage Gas Compression Air Coolers				
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	3032.4	-
	2	INLET PRESSURE					bar(g)	54.1	54.1	54.1	-
	3	OUTLET PRESSURE					bar(g)	54.1	54.1	54.1	-
	4	DIFFERENTIAL PRESSURE					bar(g)	-	-	-	62.4
	5	INLET TEMPERATURE					°C	-	60	-	-
	6	DENSITY					kg/m3	49.41 ~ 59.63	49.41 ~ 59.63	49.41 ~ 59.63	-
	7	VISCOSITY					CP	0.014	0.014	0.014	-
	8	DESIGN PRESSURE					bar(g)	62.4			
	9	DESIGN TEMPERATURE					°C	175			
	10	VAPOR PRESSURE Pv					bar(a)	-	-	-	-
11	CRITICAL PRESSURE					bar(a)	94.66	94.66	94.66	-	
LINE	PIPE LINE SIZE & SCHEDULE		IN	6"	40S	CORROSION ALLOWANCE(mm)		0			
			OUT	6"	40S						
VALVE BODY & BONNET	LINE NO.		GAS-111-0055A-FS00-6"-4S								
	TYPE		Full Bore Ball Valve/Trunnion Mounted								
	SIZE		6"								
	MAX PRESS./TEMP.		As per PMS								
	MFR. & MODEL		Will be finalized later								
	BODY / BONNET MATL		ASTM A351 GR.CF3M								
	LINER MATERIAL / ID		VTA								
	END CONNECTION		IN	6"/600#							
			OUT	6"/600#							
	FLG FACE FINISH		RF								
	END EXT./MATL.		N/A								
	FLOW DIRECTION		(Note 18 in Page 4)								
	TYPE OF BONNET		Standard								
	LUBE & ISO VALVE		No								
	PACKING MATERIAL		PACKING TYPE		RPTFE		Standard				
	ENTRY DESIGN		Top / Side Entry								
	NACE REQUIREMENTNACE (MR-0175/ISO 15156)		Yes								
TRIM	TRIM		TYPE	MATERIAL		VTA		316 SS+RPTFE			
	SIZE		RATED TRAVEL		VTA		VTA				
	CHARACTERISTICS		On/Off								
	BALANCED / UNBALANCED		BALANCED								
	RATED Cv		FL	XT	VTA		VTA				
	PLUG / BALL / DISK MATERIAL		316 SS								
	SEAT		TYPE	MATERIAL		Soft Seat		316 SS+RPTFE			
	CAGE / GUIDE MATERIAL		VTA								
	STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS			
	LEAKAGE CLASS		ANSI Class VI								
	VALVE STEM EXTENSION REQUIREMENT		No								
SOLENOID VALVE	TAG NO		PSOV-2133A, ESOV-2133A								
	TYPE		3 Way								
	BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65				
	ELE. CERTIFICATE		ELE. CONNECTION		EEx "d", IIB T4		ISO M20 x 1.5				
	MANUAL RESET		Yes								
	Power Supply		24 VDC								
	Pnu. Connection		1/4" NPT								
SPECIAL / ACCESS.	FUSIBLE LEAKAGE		No								
	BLOCK RELAY		No								
	QUICK EXHUST		Yes								
	FILTER REGULATOR		Yes								
	VOLUME TANK		No								
	MECHANICAL POSITION INDICATOR		Required								
	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		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:		پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۲۹ از ۳۵									
۰۵۳ - ۰۷۳ - ۹۰۳۸		BK	GCS	PEDCO	120	IN	DT	0010	D04										
On-Off Valve																			
TAG NO: XV-2133B				P&ID NO : BK-GCS-PEDCO-120-PR-PI-0011-D09 (2 of 3)					SERVICE: 2nd Stage Gas Compression Air Coolers										
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		3032.4		-				
	2	INLET PRESSURE					bar(g)		54.1		54.1		54.1		-				
	3	OUTLET PRESSURE					bar(g)		54.1		54.1		54.1		-				
	4	DIFFERENTIAL PRESSURE					bar(g)		-		-		-		62.4				
	5	INLET TEMPERATURE					°C		-		60		-		-				
	6	DENSITY					kg/m3		49.41 ~ 59.63		49.41 ~ 59.63		49.41 ~ 59.63		-				
	7	VISCOSITY					CP		0.014		0.014		0.014		-				
	8	DESIGN PRESSURE					bar(g)						62.4						
	9	DESIGN TEMPERATURE					°C						175						
	10	VAPOR PRESSURE Pv					bar(a)		-		-		-		-				
11	CRITICAL PRESSURE					bar(a)		94.66		94.66		94.66		-					
LINE	12	PIPE LINE SIZE & SCHEDULE		IN	6"	40S	CORROSION ALLOWANCE(mm)		0		54		TYPE		Single Acting, Spring Return				
	13	LINE NO.		OUT		6"	40S	GAS-111-0055B-FS00-6"-4S				55		SIZE		VTA			
VALVE BODY & BONNET	14	TYPE						Full Bore Ball Valve/Trunnion Mounted				56		SPRING FAIL ACTION		Fail to Close			
	15	SIZE						6"				57		MAX ALLOWABLE PRESSURE		VTA			
	16	MAX PRESS./TEMP.						As per PMS				58		MIN REQUIRES PRESSURE		VTA			
	17	MFR. & MODEL						Will be finalized later				59		AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g			
	18	BODY / BONNET MATL						ASTM A351 GR.CF3M				60		BENCH RANGE		VTA			
	19	LINER MATERIAL / ID						VTA				61		TRAVELING TIME		7 S			
	20	END CONNECTION		IN	6"/600#								62		FUNCTION		On/Off		
	21	FLG FACE FINISH						RF						63		LOCAL POSITION INDICATOR		Required	
	22	END EXT./MATL.						N/A						64		ACT. ORIENTATION		VTA	
	23	FLOW DIRECTION						(Note 18 in Page 4)						65		HAND WHEEL TYPE		Declutchable side mounted	
	24	TYPE OF BONNET						Standard						66		ADJUSTABLE LIMIT STOP		Yes	
TRIM	25	LUBE & ISO VALVE						No						67		INPUT SIGNAL		24VDC	
	26	PACKING MATERIAL				PACKING TYPE		RPTFE				Standard		68		MFR. & MODEL		Will be finalized later	
	27	ENTRY DESIGN						Top / Side Entry						69		TYPE		N/A	
	28	NACE REQUIREMENTNACE (MR-0175/ISO 15156)						Yes						70		MFR. & MODEL		Will be finalized later	
	29	TRIM		TYPE	MATERIAL		VTA				316 SS+RPTFE		71		ON INCR SIGNAL OUTPUT INCR / DECR		N/A		
	30	SIZE		RATED TRAVEL		VTA						VTA		72		GAUGES		N/A	
	31	CHARACTERISTICS						On/Off						73		CAM CHARACTERISTIC		N/A	
	32	BALANCED / UNBALANCED						BALANCED						74		AIR CONNECTION		N/A	
	33	RATED Cv		FL	XT		VTA		VTA		VTA		75		TAG NO. :		XZSC-2133B / XZSO-2133B		
	34	PLUG / BALL / DISK MATERIAL						316 SS						76		TYPE		QUANTITY	
	35	SEAT		TYPE	MATERIAL		Soft Seat				316 SS+RPTFE		77		CONTACTS / RATING		110V DC , 10A		
36	CAGE / GUIDE MATERIAL						VTA						78		ACTUATION POINT		Fully Open/Close		
37	STEM		TYPE	MATERIAL		Anti-Blow Out				316 SS		79		ENCLOSURE MATERIAL		Die Cast Aluminum			
38	LEAKAGE CLASS						ANSI Class VI						80		WEATHER PROTECTION		IP-65		
39	VALVE STEM EXTENSION REQUIREMENT						No						81		ELEC. CERTIFICATE		ELEC. CONNECTION		
SOLENOID VALVE	40	TAG NO						PSOV-2133B, ESOV-2133B						82		MFR. & MODEL		Will be finalized later	
	41	TYPE						3 Way						83		SET PRESSURE		Yes	
	42	BODY MATERIAL		WEATHER IP.		AISI 316 S.S				IP-65		84		PNEUMATIC CONNECTION		1/4" NPT			
	43	ELE. CERTIFICATE		ELE. CONNECTION		EEx "d", IIB T4				ISO M20 x 1.5		85		GAUGES		FILTER			
	44	MANUAL RESET						Yes				86		MFR. & MODEL		Will be finalized later			
	45	Power Supply						24 VDC						87		ANSI/FCI LEAKAGE CLASS		Required	
	46	Pnu. Connection						1/4" NPT						88		HYDRO PRESSURE		Required	
	47	FUSIBLE LEAKAGE						No						89		FUNCTIONAL TEST		Required	
SPECIAL / ACCESS.	48	BLOCK RELAY						No						90					
	49	QUICK EXHUST						Yes						91					
	50	FILTER REGULATOR						Yes						92					
	51	VOLUME TANK						No						93		PASSIVE FIRE PROTECTION		No	
	52	MECHANICAL POSITION INDICATOR						Required						94		API 6FA REQUIREMENTS		Yes	
	53	MANUAL/PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE						Yes						95		SIL REQUIREMENTS		Yes	
													96		PARTIAL STROKING VALVE TEST		No		
													97						
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.																			

 NISO C		نگهداشت و افزایش تولید میدان نفتی سطح الارض							 								
		احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک															
		Data Sheets For ON/OFF & Shutdown Valves															
شماره پیمان:		پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۳۰ از ۳۵							
۰۵۳ - ۰۷۳ - ۹۰۳۸		BK	GCS	PEDCO	120	IN	DT	0010	D04								
On-Off Valve																	
TAG NO:		XV-2133C		P&ID NO :				BK-GCS-PEDCO-120-PR-PI-0011-D09 (3 of 3)			SERVICE:	2nd Stage Gas Compression Air Coolers					
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		3032.4		-		
		2 INLET PRESSURE					bar(g)		54.1		54.1		54.1		-		
		3 OUTLET PRESSURE					bar(g)		54.1		54.1		54.1		-		
		4 DIFFERENTIAL PRESSURE					bar(g)		-		-		-		62.4		
		5 INLET TEMPERATURE					°C		-		60		-		-		
		6 DENSITY					kg/m3		49.41 ~ 59.63		49.41 ~ 59.63		49.41 ~ 59.63		-		
		7 VISCOSITY					CP		0.014		0.014		0.014		-		
		8 DESIGN PRESSURE					bar(g)						62.4				
		9 DESIGN TEMPERATURE					°C						175				
		10 VAPOR PRESSURE Pv					bar(a)		-		-		-		-		
11 CRITICAL PRESSURE					bar(a)		94.66		94.66		94.66		-				
LINE	12 PIPE LINE SIZE & SCHEDULE		IN	6"	40S	CORROSION ALLOWANCE(mm)		0				54 TYPE		Single Acting, Spring Return			
	13 LINE NO.		OUT		6"	40S					55 SIZE		VTA				
VALVE BODY & BONNET	14 TYPE				Full Bore Ball Valve/Trunnion Mounted						56 SPRING FAIL ACTION		Fail to Close				
	15 SIZE				6"						57 MAX ALLOWABLE PRESSURE		VTA				
	16 MAX PRESS./TEMP.				As per PMS						58 MIN REQUIRES PRESSURE		VTA				
	17 MFR. & MODEL				Will be finalized later						59 AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g				
	18 BODY / BONNET MATL				ASTM A351 GR.CF3M						60 BENCH RANGE		VTA				
	19 LINER MATERIAL / ID				VTA						61 TRAVELING TIME		7 S				
	20 END CONNECTION		IN	6"/600#								62 FUNCTION		On/Off			
			OUT	6"/600#								63 LOCAL POSITION INDICATOR		Required			
	21 FLG FACE FINISH				RF						64 ACT. ORIENTATION		VTA				
	22 END EXT./MATL.				N/A						65 HAND WHEEL TYPE		Declutchable side mounted				
	23 FLOW DIRECTION				(Note 18 in Page 4)						66 ADJUSTABLE LIMIT STOP		Yes				
	24 TYPE OF BONNET				Standard						67 INPUT SIGNAL		24VDC				
	25 LUBE & ISO VALVE				No						68 MFR. & MODEL		Will be finalized later				
	26 PACKING MATERIAL				PACKING TYPE		RPTFE		Standard		69 TYPE		N/A				
27 ENTRY DESIGN				Top / Side Entry						70 MFR. & MODEL		Will be finalized later					
28 NACE REQUIREMENTNACE (MR-0175/ISO 15156)				Yes						71 ON INCR SIGNAL OUTPUT INCR / DECR		N/A					
TRIM	29 TRIM		TYPE	MATERIAL		VTA		316 SS+RPTFE		72 GAUGES		N/A					
	30 SIZE		RATED TRAVEL		VTA		VTA		73 CAM CHARACTERISTIC		N/A						
	31 CHARACTERISTICS				On/Off				74 AIR CONNECTION		N/A						
	32 BALANCED / UNBALANCED				BALANCED				75 TAG NO. :		XZSC-2133C / XZSO-2133C						
	33 RATED Cv		FL	XT		VTA		VTA		76 TYPE		QUANTITY	Magnetically operated 'REED' contacts	2			
	34 PLUG / BALL / DISK MATERIAL				316 SS				77 CONTACTS / RATING		110V DC, 10A						
	35 SEAT		TYPE	MATERIAL		Soft Seat		316 SS+RPTFE		78 ACTUATION POINT		Fully Open/Close					
	36 CAGE / GUIDE MATERIAL				VTA				79 ENCLOSURE MATERIAL		Die Cast Aluminum						
	37 STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS		80 WEATHER PROTECTION		IP-65					
	38 LEAKAGE CLASS				ANSI Class VI						81 ELEC. CERTIFICATE		ELEC. CONNECTION	EEx "d" ,IIB T4	ISO M20 × 1.5		
SOLENOID VALVE	39 VALVE STEM EXTENSION REQUIREMENT				No						82 MFR. & MODEL		Will be finalized later				
	40 TAG NO				PSOV-2133C, ESOV-2133C						83 SET PRESSURE		Yes				
	41 TYPE				3 Way						84 PNEUMATIC CONNECTION		1/4" NPT				
	42 BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65		85 GAUGES		FILTER	Required	Required				
	43 ELE. CERTIFICATE		ELE. CONNECTION		EEx "d" ,IIB T4		ISO M20 x 1.5		86 MFR. & MODEL		Will be finalized later						
	44 MANUAL RESET				Yes				87 ANSI/FCI LEAKAGE CLASS		Required						
	45 Power Supply				24 VDC				88 HYDRO PRESSURE		Required						
	46 Pnu. Connection				1/4" NPT				89 FUNCTIONAL TEST		Required						
SPECIAL / ACCESS.	47 FUSIBLE LEAKAGE				No				90								
	48 BLOCK RELAY				No				91								
	49 QUICK EXHUST				Yes				92								
	50 FILTER REGULATOR				Yes				93 PASSIVE FIRE PROTECTION		No						
	51 VOLUME TANK				No				94 API 6FA REQUIREMENTS		Yes						
	52 MECHANICAL POSITION INDICATOR				Required				95 SIL REQUIREMENTS		Yes						
	53 MANUAL/PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE				Yes				96 PARTIAL STROKING VALVE TEST		No						
										97							
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.																	



NISO C

نگهداشت و افزایش تولید میدان نفتی بینک
سطنح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

Data Sheets For ON/OFF & Shutdown Valves




شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸

نسخه
سریال
نوع مدرک
رشته
تجهیزات
صادر کننده
بسته کاری
پروژه

D04
0010
DT
IN
120
PEDCO
GCS
BK

شماره صفحه: ۳۱ از ۳۵

TAG NO:
XV-2142

P&ID NO :
BK-GCS-PEDCO-120-PR-PI-0012-D09

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	DESIGN PRESSURE					bar(g)	90					
	9	DESIGN TEMPERATURE					°C	175					
	10	VAPOR PRESSURE Pv					bar(a)	3.23	3.23	3.23	-		
	11	CRITICAL PRESSURE					bar(a)	106	106	106	-		
LINE	12	PIPE LINE SIZE & SCHEDULE	IN	6"	80	CORROSION ALLOWANCE(mm)	3	54	TYPE			Single Acting, Spring Return	
	13	LINE NO.	GAS-111-0066-FN05-6"-4S				55	SIZE			VTA		
VALVE BODY & BONNET	14	TYPE	Full Bore Ball Valve/Trunnion Mounted				56	SPRING FAIL ACTION			Fail to Close		
	15	SIZE	6"				57	MAX ALLOWABLE PRESSURE			VTA		
	16	MAX PRESS./TEMP.	As per PMS				58	MIN REQUIRES PRESSURE			VTA		
	17	MFR. & MODEL	Will be finalized later				59	AVAILABLE AIR SUPPLY PRESSURE			MAX/NOR/MIN: 10/7/3 bar-g		
	18	BODY / BONNET MATL	ASTM A216 Gr. WCB				60	BENCH RANGE			VTA		
	19	LINER MATERIAL / ID	VTA				61	TRAVELING TIME			7 S		
	20	END CONNECTION	IN	6"	600#	OUT	6"	600#	63	LOCAL POSITION INDICATOR			Required
	21	FLG FACE FINISH	RF				64	ACT. ORIENTATION			VTA		
	22	END EXT./MATL.	N/A				65	HAND WHEEL TYPE			Declutchable side mounted		
	23	FLOW DIRECTION	(Note 18 in Page 4)				66	ADJUSTABLE LIMIT STOP			Yes		
	24	TYPE OF BONNET	Standard				67	INPUT SIGNAL			24VDC		
	TRIM	25	LUBE & ISO VALVE	No				68	MFR. & MODEL			Will be finalized later	
26		PACKING MATERIAL	PACKING TYPE	RPTFE		Standard	69	TYPE			N/A		
27		ENTRY DESIGN	Top / Side Entry				70	MFR. & MODEL			Will be finalized later		
28		NACE REQUIREMENT	NACE (MR-0175/ISO 15156)	Yes		71	ON INCR SIGNAL OUTPUT INCR / DECR			N/A			
29		TRIM	TYPE	MATERIAL		VTA	316 SS+RPTFE	72	GAUGES			N/A	
30		SIZE	RATED TRAVEL		VTA	VTA	73	CAM CHARACTERISTIC			N/A		
31		CHARACTERISTICS	On/Off				74	AIR CONNECTION			N/A		
32		BALANCED / UNBALANCED	BALANCED				75	TAG NO. :			XZSC-2142 / XZSO-2142		
33		RATED Cv	FL	XT	VTA	VTA	VTA	76	TYPE	QUANTITY	Magnetically operated 'REED' contacts	2	
34		PLUG / BALL / DISK MATERIAL	316 SS				77	CONTACTS / RATING			110V DC, 10A		
35		SEAT	TYPE	MATERIAL		Soft Seat	316 SS+RPTFE	78	ACTUATION POINT			Fully Open/Close	
SOLENOID VALVE		36	CAGE / GUIDE MATERIAL	VTA				79	ENCLOSURE MATERIAL			Die Cast Aluminum	
	37	STEM	TYPE	MATERIAL		Anti-Blow Out	316 SS	80	WEATHER PROTECTION			IP-65	
	38	LEAKAGE CLASS	ANSI Class VI				81	ELEC. CERTIFICATE	ELEC. CONNECTION	EEx "d" ,IIB T4	ISO M20 × 1.5		
	39	VALVE STEM EXTENSION REQUIREMENT	No				82	MFR. & MODEL			Will be finalized later		
	40	TAG NO	PSOV-2142, ESOV-2142				83	SET PRESSURE			Yes		
	41	TYPE	3 Way				84	PNEUMATIC CONNECTION			1/4" NPT		
	42	BODY MATERIAL	WEATHER IP.		AISI 316 S.S	IP-65	85	GAUGES	FILTER	Required	Required		
	43	ELE. CERTIFICATE	ELE. CONNECTION		EEx "d" ,IIB T4	ISO M20 x 1.5	86	MFR. & MODEL			Will be finalized later		
	44	MANUAL RESET	Yes				87	ANSI/FCI LEAKAGE CLASS			Required		
	45	Power Supply	24 VDC				88	HYDRO PRESSURE			Required		
	46	Pnu. Connection	1/4" NPT				89	FUNCTIONAL TEST			Required		
	SPECIAL / ACCESS.	47	FUSIBLE LEAKAGE	No				90					
48		BLOCK RELAY	No				91						
49		QUICK EXHUST	Yes				92						
50		FILTER REGULATOR	Yes				93	PASSIVE FIRE PROTECTION			No		
51		VOLUME TANK	No				94	API 6FA REQUIREMENTS			Yes		
52		MECHANICAL POSITION INDICATOR	Required				95	SIL REQUIREMENTS			Yes		
53		MANUAL/PNEUMATIC BYPASS VALVE FOR SOLENOID VALVE	Yes				96	PARTIAL STROKING VALVE TEST			Yes		
97													

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: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۳۵ از ۳۲	
		BK	GCS	PEDCO	120	IN	DT	0010	D04		
On-Off Valve											
TAG NO: XV-2143		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0012-D09							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	-	1500.0	-	-
	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	49.23~ 59.17	49.23~ 59.17	49.23~ 59.17	-
	7	VISCOSITY					CP	0.014	0.014	0.014	-
	8	DESIGN PRESSURE					bar(g)	90			
	9	DESIGN TEMPERATURE					°C	175			
	10	VAPOR PRESSURE Pv					bar(a)	-	-	-	-
11	CRITICAL PRESSURE					bar(a)	106	106	106	-	
LINE	PIPE LINE SIZE & SCHEDULE		IN	2"	160	CORROSION ALLOWANCE(mm)		3			
			OUT	2"	160						
VALVE BODY & BONNET	13		LINE NO.		GAS-111-0366-FN05-2"-4S						
	14		TYPE		Full Bore Ball Valve/Trunnion Mounted						
	15		SIZE		2"						
	16		MAX PRESS./TEMP.		As per PMS						
	17		MFR. & MODEL		Will be finalized later						
	18		BODY / BONNET MATL		ASTM A216 Gr. WCB						
	19		LINER MATERIAL / ID		VTA						
	20		END CONNECTION		IN	2" /600#	OUT 2" /600#				
	21		FLG FACE FINISH		RF						
	22		END EXT./MATL.		N/A						
	23		FLOW DIRECTION		(Note 18 in Page 4)						
	24		TYPE OF BONNET		Standard						
	25		LUBE & ISO VALVE		No						
	26		PACKING MATERIAL		PACKING TYPE		RPTFE		Standard		
	27		ENTRY DESIGN		Top / Side Entry						
	28		NACE REQUIREMENTNACE (MR-0175/ISO 15156)		Yes						
	TRIM	29		TRIM		TYPE	MATERIAL		VTA		316 SS+RPTFE
30		SIZE		RATED TRAVEL		VTA		VTA			
31		CHARACTERISTICS		On/Off							
32		BALANCED / UNBALANCED		BALANCED							
33		RATED Cv		FL	XT	VTA		VTA VTA			
34		PLUG / BALL / DISK MATERIAL		316 SS							
35		SEAT		TYPE	MATERIAL		Soft Seat		316 SS+RPTFE		
36		CAGE / GUIDE MATERIAL		VTA							
37		STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS		
38		LEAKAGE CLASS		ANSI Class VI							
39		VALVE STEM EXTENSION REQUIREMENT		No							
SOLENOID VALVE	40		TAG NO		ESOV-2143, PSOV-2143						
	41		TYPE		3 Way						
	42		BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65		
	43		ELE. CERTIFICATE		ELE. CONNECTION		EEx "d" ,IIB T4		ISO M20 x 1.5		
	44		MANUAL RESET		Yes						
	45		Power Supply		24 VDC						
	46		Pnu. Connection		1/4" NPT						
	47		FUSIBLE LEAKAGE		No						
SPECIAL / ACCESS.	48		BLOCK RELAY		No						
	49		QUICK EXHUST		Yes						
	50		FILTER REGULATOR		Yes						
	51		VOLUME TANK		No						
	52		MECHANICAL POSITION INDICATOR		Required						
	53		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.											

 NISO C		نگهداشت و افزایش تولید میدان نفتی سطح الارض							 		
		احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک									
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۰۳۸		پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۳۳ از ۳۵	
		BK	GCS	PEDCO	120	IN	DT	0010	D04		
On-Off Valve											
TAG NO: XV-2144		P&ID NO : BK-GCS-PEDCO-120-PR-PI-0012-D09						SERVICE: 2nd Stage Gas Compression Discharge Drum			
FLUID STATE: CLOSED DRAIN		PHASE: LIQUID						AREA CLASSIFICATION: Zone2, IIB, T4			
SERVICE CONDITION	ITEM					UNITS		Max Flow	Norm. Flow	Min. Flow	Shut-Off
	1	FLOW RATE					kg/h	-	11500	-	-
	2	INLET PRESSURE					bar(g)	-	53.9	-	-
	3	OUTLET PRESSURE					bar(g)	-	53.9	-	-
	4	DIFFERENTIAL PRESSURE					bar(g)	-	-	-	62.4
	5	INLET TEMPERATURE					°C	-	59.9	-	-
	6	DENSITY					kg/m3	-	830- 982	-	-
	7	VISCOSITY					CP	-	0.442- 0.495	-	-
	8	DESIGN PRESSURE					bar(g)	62.4			
	9	DESIGN TEMPERATURE					°C	175			
	10	VAPOR PRESSURE Pv					bar(a)	4.43	4.43	4.43	-
11	CRITICAL PRESSURE					bar(a)	221.9	221.9	221.9	-	
LINE	PIPE LINE SIZE & SCHEDULE		IN	2"	40S	CORROSION ALLOWANCE(mm)		0			
	LINE NO.		CDH-112-0025-FS00-2"-NP								
VALVE BODY & BONNET	TYPE		Full Bore Ball Valve/Floating Type								
	SIZE		2"								
	MAX PRESS./TEMP.		As per PMS								
	MFR. & MODEL		Will be finalized later								
	BODY / BONNET MATL		ASTM A351 GR.CF3M								
	LINER MATERIAL / ID		VTA								
	END CONNECTION		IN	2"	#600#						
			OUT	2"	#600#						
	FLG FACE FINISH		RF								
	END EXT./MATL.		N/A								
	FLOW DIRECTION		(Note 18 in Page 4)								
	TYPE OF BONNET		Standard								
	LUBE & ISO VALVE		No								
	PACKING MATERIAL		PACKING TYPE		RPTFE		Standard				
ENTRY DESIGN		Top / Side Entry									
NACE REQUIREMENTNACE (MR-0175/ISO 15156)		Yes									
TRIM	TRIM		TYPE	MATERIAL		VTA		316 SS+RPTFE			
	SIZE		RATED TRAVEL		VTA		VTA				
	CHARACTERISTICS		On/Off								
	BALANCED / UNBALANCED		BALANCED								
	RATED Cv		FL	XT		VTA		VTA			
	PLUG / BALL / DISK MATERIAL		316 SS								
	SEAT		TYPE	MATERIAL		Soft Seat		316 SS+RPTFE			
	CAGE / GUIDE MATERIAL		VTA								
	STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS			
	LEAKAGE CLASS		ANSI Class VI								
VALVE STEM EXTENSION REQUIREMENT		No									
SOLENOID VALVE	TAG NO		PSOV-2144, ESOV-2144								
	TYPE		3 Way								
	BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65				
	ELE. CERTIFICATE		ELE. CONNECTION		EEx "d" ,IIB T4		ISO M20 x 1.5				
	MANUAL RESET		Yes								
	Power Supply		24 VDC								
	Pnu. Connection		1/4" NPT								
SPECIAL / ACCESS.	FUSIBLE LEAKAGE		No								
	BLOCK RELAY		No								
	QUICK EXHUST		Yes								
	FILTER REGULATOR		Yes								
	VOLUME TANK		No								
	MECHANICAL POSITION INDICATOR		Required								
	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.											

 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	پسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۳۵ از ۳۵							
BK		GCS	PEDCO	120	IN	DT	0010	D04									
On-Off Valve																	
TAG NO: XV-2301		P&ID NO : BK-GCS-PEDCO-120-SA-PI-0001-D05 (1/8)						SERVICE: Fire Water System									
FLUID STATE: FIRE WATER		PHASE: Liquid						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	-	18.2						
	5	INLET TEMPERATURE					°C	55	AMB	5	-						
	6	DENSITY					kg/m3	-	997	-	-						
	7	VISCOSITY					CP	-	0.81	-	-						
	8	DESIGN PRESSURE					bar(g)	18.2									
	9	DESIGN TEMPERATURE					°C	85									
	10	VAPOR PRESSURE Pv						-	-	-	-						
11	CRITICAL PRESSURE					bar(a)	-	-	-	-							
LINE	PIPE LINE SIZE & SCHEDULE		IN	3"	40	CORROSION ALLOWANCE(mm)		3		54	TYPE		Single Acting, Spring Return				
			OUT	3"	40					55	SIZE		VTA				
	LINE NO.		PTW-112-0007-AN04-3"-PT					56	SPRING FAIL ACTION		Fail to Close						
VALVE BODY & BONNET	14	TYPE					Full Bore Ball Valve/Trumion Mounted					57	MAX ALLOWABLE PRESSURE		VTA		
	15	SIZE					3"					58	MIN REQUIRES PRESSURE		VTA		
	16	MAX PRESS./TEMP.					As per PMS					59	AVAILABLE AIR SUPPLY PRESSURE		MAX/NOR/MIN: 10/7/3 bar-g		
	17	MFR. & MODEL					Will be finalized later					60	BENCH RANGE		VTA		
	18	BODY / BONNET MATL					ASTM A216 Gr. WCB					61	TRAVELING TIME		5 S		
	19	LINER MATERIAL / ID					VTA					62	FUNCTION		On/Off		
	20	END CONNECTION		IN	3" /300#							63	LOCAL POSITION INDICATOR		Required		
				OUT	3" /300#							64	ACT. ORIENTATION		VTA		
	21	FLG FACE FINISH					RF					65	HAND WHEEL TYPE		Declutchable side mounted		
	22	END EXT.MATL.					N/A					66	ADJUSTABLE LIMIT STOP		Yes		
	23	FLOW DIRECTION					(Note 18 in Page 4)					67	INPUT SIGNAL		24VDC		
	24	TYPE OF BONNET					Standard					68	MFR. & MODEL		Will be finalized later		
	25	LUBE & ISO VALVE					No					69	TYPE		N/A		
	26	PACKING MATERIAL		PACKING TYPE		PTFE		Standard			70	MFR. & MODEL		Will be finalized later			
	27	ENTRY DESIGN					Top / Side Entry					71	ON INCR SIGNAL OUTPUT INCR / DECR		N/A		
	28	NACE REQUIREMENTNACE (MR-0175/ISO 15156)					No					72	GAUGES		N/A		
	TRIM	29	TRIM		TYPE	MATERIAL		VTA		316 SS+PTFE		73	CAM CHARACTERISTIC		N/A		
30		SIZE		RATED TRAVEL		VTA		VTA		74	AIR CONNECTION		N/A				
31		CHARACTERISTICS					On/Off					75	TAG NO. :		XZSC-2301 / XZSO-2301		
32		BALANCED / UNBALANCED					BALANCED					76	TYPE	QUANTITY	Magnetically operated 'REED' contacts		2
33		RATED Cv		FL	XT	VTA		VTA		VTA		77	CONTACTS / RATING		110V DC , 10A		
34		PLUG / BALL / DISK MATERIAL					316 SS					78	ACTUATION POINT		Fully Open/Close		
35		SEAT		TYPE	MATERIAL		Soft Seat		316 SS+PTFE		79	ENCLOSURE MATERIAL		Die Cast Aluminum			
36		CAGE / GUIDE MATERIAL					VTA					80	WEATHER PROTECTION		IP-65		
37		STEM		TYPE	MATERIAL		Anti-Blow Out		316 SS		81	ELEC. CERTIFICATE	ELEC. CONNECTION	EEs "d" ,IIB T4		ISO M20 × 1.5	
38		LEAKAGE CLASS					ANSI Class VI					82	MFR. & MODEL		Will be finalized later		
SOLENOID VALVE	39	VALVE STEM EXTENSION REQUIREMENT					No					83	SET PRESSURE		Yes		
	40	TAG NO					PSOV-2301					84	PNEUMATIC CONNECTION		1/4" NPT		
	41	TYPE					3 Way					85	GAUGES	FILTER	Required		Required
	42	BODY MATERIAL		WEATHER IP.		AISI 316 S.S		IP-65		86	MFR. & MODEL		Will be finalized later				
	43	ELE. CERTIFICATE		ELE. CONNECTION		EEs "d" ,IIB T4		ISO M20 × 1.5		TEST	ANSI/FCI LEAKAGE CLASS		Required				
	44	MANUAL RESET					Yes					HYDRO PRESSURE		Required			
	45	Power Supply					24 VDC					FUNCTIONAL TEST		Required			
46	Pnu. Connection					1/4" NPT											
SPECIAL / ACCESS.	47	FUSIBLE LEAKAGE					No					91					
	48	BLOCK RELAY					No					92					
	49	QUICK EXHUST					Yes					93	PASSIVE FIRE PROTECTION		No		
	50	FILTER REGULATOR					Yes					94	API 6FA REQUIREMENTS		Yes		
	51	VOLUME TANK					No					95	SIL REQUIREMENTS		No		
	52	MECHANICAL POSITION INDICATOR					Required					96	PARTIAL STROKING VALVE TEST		No		
	53	MANUALPNEUMATIC BYPASS VALVE FOR SOLENOID VALVE					No					97					
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.																	