

 NISOC	<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>فعالیت های رو زمینی در بسته های کاری تحت الارض</p> <p>ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات</p> <p>برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک</p>							 	
	DATA SHEETS FOR PRESSURE & SAFETY RELIEF VALVES - EXTENSION OF BINAK B/C MANIFOLD								
شماره پیمان: 053 - 073 - 9184	پروژه BK	بسته کاری W007S	صادر کننده PEDCO	تسهیلات 110	رشته IN	نوع مدرک DT	سریال 0004	نسخه D02	شماره صفحه: 1 از 16

طرح نگهداشت و افزایش تولید 27 مخزن

DATA SHEETS FOR PRESSURE & SAFETY RELIEF VALVES - EXTENSION OF BINAK B/C MANIFOLD

نگهداشت و افزایش تولید میدان نفتی بینک

D02	DEC. 2022	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
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: 2		CLIENT Doc. Number: F9Z-707974				
status: <p> 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 </p>						



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
 فعالیت های رو زمینی در بسته های کاری تحت الارض
 ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات
 برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک





DATA SHEETS FOR PRESSURE & SAFETY RELIEF VALVES - EXTENSION OF BINAK
 B/C MANIFOLD

شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 2 از 16
053 - 073 - 9184	BK	W007S	PEDCO	110	IN	DT	0004	D02	

REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04	Page	D00	D01	D02	D03	D04
1	X	X	X			65					
2	X	X	X			66					
3	X	X	X			67					
4	X		X			68					
5	X	X	X			69					
6	X	X	X			70					
7	X	X	X			71					
8	X	X	X			72					
9	X	X	X			73					
10	X	X	X			74					
11	X	X	X			75					
12	X	X	X			76					
13	X	X	X			77					
14	X	X	X			78					
15	X	X	X			79					
16	X	X	X			80					
17						81					
18						82					
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64						128					

 <p>NISOC</p>	<p>تگداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک</p> <p>DATA SHEETS FOR PRESSURE & SAFETY RELIEF VALVES - EXTENSION OF BINAK B/C MANIFOLD</p>								
شماره پیمان: 053 - 073 - 9184	پروژه BK	بسته کاری W007S	صادر کننده PEDCO	تسهیلات 110	رشته IN	نوع مدرک DT	سریال 0004	نسخه D02	شماره صفحه: 3 از 16

REFERENCE DOCUMENTS :

Specification For Instrumentation	BK-GNRAL-PEDCO-000-IN-SP-0001
Specification For Pressure Safety Valves(PSV)	BK-GNRAL-PEDCO-000-IN-SP-0007
Process Basis Of Design	BK-GNRAL-PEDCO-000-PR-DB-0001
Piping Material Specification	BK-SSGRL-PEDCO-110-PI-SP-0001
Symbol & Legend For PFD and P&ID	BK-SSGRL-PEDCO-110-PR-PI-0001
P&ID - EXTENSION OF BINAK B/C MANIFOLD	BK-W007S-PEDCO-110-PR-PI-0001-D04
Instrument Hook-Up Diagram	BK-PPL-PEDCO-320-IN-DG-0002
Instrument & Control System Design Criteria	BK-SSGRL-PEDCO-110-IN-DC-0002
Specification For Painting	BK-GNRAL-PEDCO-000-PI-SP-0006
Calculation book for (CV,PSV,Pump & Line sizing) - Extension of Binak B/C Manifold	BK-W007S-PEDCO-110-PR-CN-0001

D02



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نگهداشت و افزایش تولید میدان نفتی بینک
 فعالیت های رو زمینی در بسته های کاری تحت الارض
 ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات
 برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک

DATA SHEETS FOR PRESSURE & SAFETY RELIEF VALVES - EXTENSION OF BINAK B/C
 MANIFOLD



شماره صفحه: 4 از 16

053 - 073 - 9184

شماره پیمان:

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه
D02	0004	DT	IN	110	PEDCO	W007S	BK

GENERAL NOTES:

1- All valves shall be clearly and permanently marked. The name plate shall be corrosion resistant Stainless Steel and pinned to the valve body. Wired on labels are not acceptable. Following information shall be submitted on nameplate for approval.

- Tag number
- Manufacturer name, model and serial number
- Set Pressure
- Pressure rating
- Body size and material
- Measurement Range
- Liquid density
- Degree of protection & electrical construction
- Marking as per IEC Codes
- Well name

2- Calculation sheet using API RP-520 formula shall be provided by vendor for each safety/relief valve in accordance with process values.

3- All wetted part material shall be in accordance with ISO 15156-2 region 2 or NACE MR-01-75 as specified in data sheets for each tag . For these mentioned tags, both the compliance shall be provided. primary and secondary sides of valves shall meet NACE MR-01-75 requirements and certificate of

4- The safety/ relief valves shall comply with API RP 520, 521, 526 and 527 standards. All valves shall be supplied with ASME section VIII.

5- All valves shall be tested for leakage at the manufacturer's works in accordance with API 527. The procedures for these tests shall be submitted for approval.

6- Gasket material shall be suitable for the application.

7- The inlet/outlet sizes & rating and center to flange face dimensions for all valves shall be in accordance with ANSI B 16.34. , unless otherwise Where threaded inlet and outlet connections have been specified, they shall be in accordance with ANSI B 1.20.1 (NPT), unless otherwise noted.

8- All the valves with the materials offered shall meet the set pressure and other design conditions for the orifice selected.

9- Vendor to advise all wetted parts materials include disc holder, stem guide, blowdown ring, ring pin, bushing and other internal components in contact with process fluid in bid stage

10. According to "process basic of design" document, environmental condition for field instrumentation of binak complex shall be considered as per the following:

Maximum ambient temperature: 50 (°C)

Minimum ambient temperature: -5 (°C)

Maximum steel surface exposed to sun: 85 (°C)

Maximum summer dry bulb: 50 (°C)

Maximum Design relative humidity (%): 100

Minimum Design relative humidity (%): 0


Maximum Design relative humidity (%): 100

Minimum Design relative humidity (%): 0

D02

11. For flammable or toxic services, bonnets shall be vented to the discharge side of the relief valve.

12. Balanced bellows valves shall have open bonnet construction. In bellows type, bonnet shall be vented separately from discharge. In valves with balancing bellow, the bonnet shall have a ½" threaded hole, NPT as per ANSI 1.20.1.





NISOC

تگهداشت و افزایش تولید میدان نفتی بینک

فعالیت های رو زمینی در بسته های کاری تحت الارض

ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات

برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک

053 - 073 - 9184

شماره پیمان:

پروژه

BK

بسته کاری

W007S

صادر کننده

PEDCO

تسهیلات

110

رشته

IN

نوع مدرک

DT

سریال

0004

نسخه

D02

شماره صفحه: 5 از 16



Item	Data Category	Technical Features	Project Data & Requirements		
1	GENERAL	Tag Number	TRV-1701A		
2		P&ID NO and Page :	BK-W007S-PEDCO-110-PR-PI-0001-D04 (3/6)		
3		Service	MIXED/ 3 PHASES		
4		Inlet Line No. Outlet Line No.	CRD-110-170A-LN15-1"-PT	CDH-110-170A-AN05-1"-PT	
5		Discharge to	TO HP DRAIN HEADER		
6		Protect Equipment	FLOW LINE		
7		Area Clacification for Discharge	ZONE 2, IIB T4		
8		Sour Service	YES		
9		NACE MR0175/ISO 15156 Compliance	YES		
10	BASIS	Nozzle (Full, Semi)	Full Nozzle		
11		Design Type	Safety, Relief, Safety-Relief		
12			Conventional, Bellow, Pilot Op.		
13		Bonnet Type	Closed		
14	PROCESS CONDITIONS (note 2)	Fluid / Phase / State	Liquid/2phase		
15		Ambient Temperature °C	-5	50	
16		Temperature °C	Operating	36.31	
17		Pressure Barg	Operating	12.78	
18		Oper. Temperature °C	RelievingTemp. °C	36.31	351
19		Required Capacity kg/h	by vendor		
20		Molecular Mass	Sp. Gr. @ relief Tmp kg/m3	77.41	0.437
21		Oper. Pressure barg	Set Pressure barg	12.78	207
22		Back Pressure Barg	Constant	1.5	
23			Variable	0	
24			Total	1.5	
25		% Allowable Overpressure	-		
26		Over Pressure Factor	-		
27		Compressibility Factor (Z)	-		
28		Latent Heat of Vaporization (Kj/Kg)	1906		
29		Ratio of Specific Heats(Cp/Cv)	1.005		
30		Density @ Oper. kg/m3temperature & pressure	437.7		
31		Operating Viscosity cP	0.011		
32		Barometric Pressure (psia)	13.2		
33		SELECTION	Design Code	Sizing Basis	API 520
34	pressure relieving and de-pressurising systems Code		API 521		
35	Design of Construction		API 521		
36	Scenarios		by vendor		
37	Basis of Selection		by vendor		
38	Calculated Area		Inch	by vendor	
39	Selected Area		cm²	by vendor	
40	Accumulation AC %		by vendor		
41	Orifice Designation		D		
42	CONNECTIONS	Size: Inlet	Outlet	3/4"	1"
43		Rating & Facing : Inlet	Outlet	Thread (6000# SW)	Thread(3000# SW)
44	MATERIALS (VTC)	Body and Bonnet	ASTM A105 (VTC)		
45		Seat and Disc (Trim)	316 SS (VTC)		
46		Nozzle	316 SS (VTC)		
47		Guide and Rings	316 SS (VTC)		
48		Spring	316 SS (VTC)		
49		Bellows	N/A		
50	OPTIONS	Cap without Lever: Screwed or Bolted	Screwed cap		
51		Lifting Lever: Plain or Packed	N/A		
52		Test Gage	Yes		
53		With Rupture Disc	No		
54		Flame Arrestor	No		
55		Hydro Test	Required		
56		Seat Leakage Test	Required		
57	Compliance Standard		According to NACE MR-0175 / ISO15156		
58	PURCHASE	Manufacturer	will be finalized later		
59		Model	will be finalized later		
60		Serial No.	will be finalized later		

Main Notes:

*VTA : Vendor to Advise in bidding stage VTC : Vendor to confirm in bidding stage N/A: Not applicable

** For material details refer to the latest revision of "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001 ".

*** Body color of valves shall be selected same as pipe color. For more details refer to the latest revision of "Specification For Painting Doc No."BK-GNRAL-PEDCO-000-PI-SP-0006 ".

 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک								
										DATA SHEETS FOR PRESSURE & SAFETY RELIEF VALVES - EXTENSION OF BINAK B/C MANIFOLD
شماره پیمان: 053 - 073 - 9184		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 6 از 16
		BK	W007S	PEDCO	110	IN	DT	0004	D02	



Item	Data Category	Technical Features	Project Data & Requirements		
1	GENERAL	Tag Number	TRV-1701B		
2		P&ID NO and Page :	BK-W007S-PEDCO-110-PR-PI-0001-D04 (3/6)		
3		Service	MIXED/ 3 PHASES		
4		Inlet Line No.	Outlet Line No.	CRD-110-170B-LN15-1"-PT	CDH-110-170B-AN05-1"-PT
5		Discharge to	TO HP DRAIN HEADER		
6		Protect Equipment	FLOW LINE		
7		Area Clacification for Discharge	ZONE 2, IIB T4		
8		Sour Service	YES		
9		NACE MR0175/ISO 15156 Compliance	YES		
10	BASIS	Nozzle (Full, Semi)	Full Nozzle		
11		Design Type	Safety, Relief, Safety-Relief	Relief	
12			Conventional, Bellow, Pilot Op.	Conventional	
13		Bonnet Type	Closed		
14	PROCESS CONDITIONS (note 2)	Fluid / Phase / State	Liquid/2phase		
15		Ambient Temperature °C	-5	50	
16		Temperature °C	Operating	31.6	
17		Pressure Barg	Operating	12.78	
18		Oper. Temperature °C	RelievingTemp. °C	31.60	347.5
19		Required Capacity kg/h	by vendor		
20		Molecular Mass	Sp. Gr.@ relief Tmp kg/m3	39.09	0.267
21		Oper. Pressure barg	Set Pressure barg	12.78	207
22		Back Pressure Barg	Constant	1.5	
23			Variable	0	
24			Total	1.5	
25		% Allowable Overpressure	-		
26		Over Pressure Factor	-		
27		Compressibility Factor (Z)	-		
28		Latent Heat of Vaporization (Kj/Kg)	2305		
29		Ratio of Specific Heats(Cp/Cv)	1.007		
30		Density @ Oper. kg/m3temperature & pressure	267.7		
31		Operating Viscosity cP	0.011		
32		Barometric Pressure (psia)	13.2		
33		SELECTION	Design Code	Sizing Basis	API 520
34	pressure relieving and de-pressurising systems Code		API 521		
35	Design of Construction		API 521		
36	Scenarios		by vendor		
37	Basis of Selection		by vendor		
38	Calculated Area		Inch	by vendor	
39	Selected Area		cm²	by vendor	
40	Accumulation AC %		by vendor		
41		Orifice Designation	D		
42	CONNECTIONS	Size: Inlet	Outlet	3/4"	1"
43		Rating & Facing : Inlet	Outlet	Thread (6000# SW)	Thread(3000# SW)
44	MATERIALS (VTC)	Body and Bonnet	ASTM A105 (VTC)		
45		Seat and Disc (Trim)	316 SS (VTC)		
46		Nozzle	316 SS (VTC)		
47		Guide and Rings	316 SS (VTC)		
48		Spring	316 SS (VTC)		
49		Bellows	N/A		
50	OPTIONS	Cap without Lever: Screwed or Bolted	Screwed cap		
51		Lifting Lever: Plain or Packed	N/A		
52		Test Gage	Yes		
53		With Rupture Disc	No		
54		Flame Arrestor	No		
55		Hydro Test	Required		
56		Seat Leakage Test	Required		
57		Compliance Standard	According to NACE MR-0175 / ISO15156		
58	PURCHASE	Manufacturer	will be finalized later		
59		Model	will be finalized later		
60		Serial No.	will be finalized later		

Main Notes:

*VTA : Vendor to Advise in bidding stage VTC : Vendor to confirm in bidding stage N/A: Not applicable

** For material details refer to the latest revision of "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001".


*** Body color of valves shall be selected same as pipe color. For more details refer to the latest revision of "Specification For Painting Doc No."BK-GNRAL-PEDCO-000-PI-SP-0006 "

 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک									
								شماره صفحه: 7 از 16			
053 - 073 - 9184		شماره پیمان:		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
		BK	W007S	PEDCO	110	IN	DT	0004	D02		

Item	Data Category	Technical Features	Project Data & Requirements		
1	GENERAL	Tag Number	TRV-1701C		
2		P&ID NO and Page :	BK-W007S-PEDCO-110-PR-PI-0001-D04 (4/6)		
3		Service	MIXED/ 3 PHASES		
4		Inlet Line No.	Outlet Line No.	CRD-110-170C-LN15-1"-PT	CDH-110-170C-AN05-1"-PT
5		Discharge to	TO HP DRAIN HEADER		
6		Protect Equipment	FLOW LINE		
7		Area Clacification for Discharge	ZONE 2, IIB T4		
8		Sour Service	YES		
9		NACE MR0175/ISO 15156 Compliance	YES		
10	BASIS	Nozzle (Full, Semi)	Full Nozzle		
11		Design Type	Safety, Relief, Safety-Relief	Relief	
12			Conventional, Bellow, Pilot Op.	Conventional	
13		Bonnet Type	Closed		
14	PROCESS CONDITIONS (note 2)	Fluid / Phase / State	Liquid/2phase		
15		Ambient Temperature °C	-5	50	
16		Temperature °C	Operating	46.19	
17		Pressure Barg	Operating	12.78	
18		Oper. Temperature °C	RelievingTemp. °C	46.19	351
19		Required Capacity kg/h	by vendor		
20		Molecular Mass	Sp. Gr.@ relief Tmp kg/m3	77.41	0.413
21		Oper. Pressure barg	Set Pressure barg	12.78	207
22		Back Pressure Barg	Constant	1.5	
23			Variable	0	
24			Total	1.5	
25		% Allowable Overpressure	-		
26		Over Pressure Factor	-		
27		Compressibility Factor (Z)	-		
28		Latent Heat of Vaporization (Kj/Kg)	1906		
29		Ratio of Specific Heats(Cp/Cv)	1.005		
30		Density @ Oper. kg/m3temperature & pressure	413.1		
31		Operating Viscosity cP	0.011		
32	Barometric Pressure (psia)	13.2			
33	SELECTION	Design Code	Sizing Basis	API 520	-
34		pressure relieving and de-pressurising systems Code		API 521	
35		Design of Construction		API 521	
36		Scenarios		by vendor	
37		Basis of Selection		by vendor	
38		Calculated Area	Inch	by vendor	
39		Selected Area	cm²	by vendor	
40		Accumulation AC %		by vendor	
41		Orifice Designation	D		
42	CONNECTIONS	Size: Inlet	Outlet	3/4"	1"
43		Rating & Facing : Inlet	Outlet	Thread (6000# SW)	Thread(3000# SW)
44	MATERIALS (VTC)	Body and Bonnet	ASTM A105 (VTC)		
45		Seat and Disc (Trim)	316 SS (VTC)		
46		Nozzle	316 SS (VTC)		
47		Guide and Rings	316 SS (VTC)		
48		Spring	316 SS (VTC)		
49		Bellows	N/A		
50	OPTIONS	Cap without Lever: Screwed or Bolted	Screwed cap		
51		Lifting Lever: Plain or Packed	N/A		
52		Test Gage	Yes		
53		With Rupture Disc	No		
54		Flame Arrestor	No		
55		Hydro Test	Required		
56		Seat Leakage Test	Required		
57		Compliance Standard	According to NACE MR-0175 / ISO15156		
58	PURCHASE	Manufacturer	will be finalized later		
59		Model	will be finalized later		
60		Serial No.	will be finalized later		

Main Notes:
 *VTA : Vendor to Advise in bidding stage VTC : Vendor to confirm in bidding stage N/A: Not applicable

** For material details refer to the latest revision of "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001".
 *** Body color of valves shall be selected same as pipe color. For more details refer to the latest revision of "Specification For Painting Doc No."BK-GNRAL-PEDCO-000-PI-SP-0006 "





NISOC

تگهداشت و افزایش تولید میدان نفتی بینک

فعالیت های رو زمینی در بسته های کاری تحت الارض

ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات

برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک

053 - 073 - 9184

شماره پیمان:

پروژه

BK

بسته کاری

W007S

صادر کننده

PEDCO

تسهیلات

110

رشته

IN

نوع مدرک

DT

سریال

0004

نسخه

D02

شماره صفحه: 8 از 16



Item	Data Category	Technical Features	Project Data & Requirements		
1	GENERAL	Tag Number	TRV-1701D		
2		P&ID NO and Page :	BK-W007S-PEDCO-110-PR-PI-0001-D04 (4/6)		
3		Service	MIXED/ 3 PHASES		
4		Inlet Line No. Outlet Line No.	CRD-110-170D-LN15-1"-PT	CDH-110-170D-AN05-1"-PT	
5		Discharge to	TO HP DRAIN HEADER		
6		Protect Equipment	FLOW LINE		
7		Area Clacification for Discharge	ZONE 2, IIB T4		
8		Sour Service	YES		
9		NACE MR0175/ISO 15156 Compliance	YES		
10	BASIS	Nozzle (Full, Semi)	Full Nozzle		
11		Design Type	Safety, Relief, Safety-Relief	Relief	
12			Conventional, Bellow, Pilot Op.	Conventional	
13		Bonnet Type	Closed		
14	PROCESS CONDITIONS (note 2)	Fluid / Phase / State	Liquid/2phase		
15		Ambient Temperature °C	-5	50	
16		Temperature °C	Operating	44.41	
17		Pressure Barg	Operating	12.78	
18		Oper. Temperature °C	RelievingTemp. °C	44.41	349.9
19		Required Capacity kg/h	by vendor		
20		Molecular Mass	Sp. Gr. @ relief Tmp kg/m3	39.09	0.247
21		Oper. Pressure barg	Set Pressure barg	12.78	207
22		Back Pressure Barg	Constant	1.5	
23			Variable	0	
24			Total	1.5	
25		% Allowable Overpressure	-		
26		Over Pressure Factor	-		
27		Compressibility Factor (Z)	-		
28		Latent Heat of Vaporization (Kj/Kg)	2305		
29		Ratio of Specific Heats(Cp/Cv)	1.007		
30		Density @ Oper. kg/m3temperature & pressure	247.6		
31		Operating Viscosity cP	0.012		
32		Barometric Pressure (psia)	13.2		
33		SELECTION	Design Code	Sizing Basis	API 520
34	pressure relieving and de-pressurising systems Code		API 521		
35	Design of Construction		API 521		
36	Scenarios		by vendor		
37	Basis of Selection		by vendor		
38	Calculated Area		Inch	by vendor	
39	Selected Area		cm²	by vendor	
40	Accumulation AC %		by vendor		
41		Orifice Designation	D		
42	CONNECTIONS	Size: Inlet	Outlet	3/4"	1"
43		Rating & Facing : Inlet	Outlet	Thread (6000# SW)	Thread(3000# SW)
44	MATERIALS (VTC)	Body and Bonnet	ASTM A105 (VTC)		
45		Seat and Disc (Trim)	316 SS (VTC)		
46		Nozzle	316 SS (VTC)		
47		Guide and Rings	316 SS (VTC)		
48		Spring	316 SS (VTC)		
49		Bellows	N/A		
50	OPTIONS	Cap without Lever: Screwed or Bolted	Screwed cap		
51		Lifting Lever: Plain or Packed	N/A		
52		Test Gage	Yes		
53		With Rupture Disc	No		
54		Flame Arrestor	No		
55		Hydro Test	Required		
56		Seat Leakage Test	Required		
57		Compliance Standard	According to NACE MR-0175 / ISO15156		
58	PURCHASE	Manufacturer	will be finalized later		
59		Model	will be finalized later		
60		Serial No.	will be finalized later		

Main Notes:

*VTA : Vendor to Advise in bidding stage VTC : Vendor to confirm in bidding stage N/A: Not applicable

** For material details refer to the latest revision of "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001 ".

*** Body color of valves shall be selected same as pipe color. For more details refer to the latest revision of "Specification For Painting Doc No."BK-GNRAL-PEDCO-000-PI-SP-0006 ".


 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک								
								DATA SHEETS FOR PRESSURE & SAFETY RELIEF VALVES - EXTENSION OF BINAK B/C MANIFOLD		
شماره پیمان: 053 - 073 - 9184		پروژه: BK	بسته کاری: W007S	صادر کننده: PEDCO	تسهیلات: 110	رشته: IN	نوع مدرک: DT	سریال: 0004	نسخه: D02	شماره صفحه: 9 از 16
Item	Data Category	Technical Features				Project Data & Requirements				
1	GENERAL	Tag Number				TRV-1701E				
2		P&ID NO and Page :				BK-W007S-PEDCO-110-PR-PI-0001-D04 (5/6)				
3		Service				MIXED/ 3 PHASES				
4		Inlet Line No.		Outlet Line No.		CRD-110-170E-LN15-1"-PT		CDH-110-170E-AN05-1"-PT		
5		Discharge to				TO HP DRAIN HEADER				
6		Protect Equipment				FLOW LINE				
7		Area Clacification for Discharge				ZONE 2, IIB T4				
8		Sour Service				YES				
9		NACE MR0175/ISO 15156 Compliance				YES				
10	BASIS	Nozzle (Full, Semi)				Full Nozzle				
11		Design Type		Safety, Relief, Safety-Relief		Relief				
12				Conventional, Bellow, Pilot Op.		Conventional				
13		Bonnet Type				Closed				
14	PROCESS CONDITIONS (note 2)	Fluid / Phase / State				Liquid/2phase				
15		Ambient Temperature °C				-5		50		
16		Temperature °C		Operating		40.71				
17		Pressure Barg		Operating		12.78				
18		Oper. Temperature °C		RelievingTemp. °C		40.71		349.9		
19		Required Capacity kg/h				by vendor				
20		Molecular Mass		Sp. Gr.@ relief Tmp kg/m3		29.92		0.253		
21		Oper. Pressure barg		Set Pressure barg		12.78		207		
22		Back Pressure Barg		Constant		1.5				
23				Variable		0				
24				Total		1.5				
25		% Allowable Overpressure				-				
26		Over Pressure Factor				-				
27		Compressibility Factor (Z)				-				
28		Latent Heat of Vaporization (Kj/Kg)				2305				
29		Ratio of Specific Heats(Cp/Cv)				1.007				
30		Density @ Oper. kg/m3temperature & pressure				253.2				
31		Operating Viscosity cP				0.012				
32	Barometric Pressure (psia)				13.2					
33	SELECTION	Design Code		Sizing Basis		API 520		-		
34		pressure relieving and de-pressurising systems Code				API 521				
35		Design of Construction				API 521				
36		Scenarios				by vendor				
37		Basis of Selection				by vendor				
38		Calculated Area		Inch		by vendor				
39		Selected Area		cm²		by vendor				
40		Accumulation AC %				by vendor				
41		Orifice Designation				D				
42	CONNECTIONS	Size: Inlet		Outlet		3/4"		1"		
43		Rating & Facing : Inlet		Outlet		Thread (6000# SW)		Thread(3000# SW)		
44	MATERIALS (VTC)	Body and Bonnet				ASTM A105 (VTC)				
45		Seat and Disc (Trim)				316 SS (VTC)				
46		Nozzle				316 SS (VTC)				
47		Guide and Rings				316 SS (VTC)				
48		Spring				316 SS (VTC)				
49		Bellows				N/A				
50	OPTIONS	Cap without Lever: Screwed or Bolted				Screwed cap				
51		Lifting Lever: Plain or Packed				N/A				
52		Test Gage				Yes				
53		With Rupture Disc				No				
54		Flame Arrestor				No				
55		Hydro Test				Required				
56		Seat Leakage Test				Required				
57		Compliance Standard				According to NACE MR-0175 / ISO15156				
58	PURCHASE	Manufacturer				will be finalized later				
59		Model				will be finalized later				
60		Serial No.				will be finalized later				

Main Notes:

*VTA : Vendor to Advise in bidding stage VTC : Vendor to confirm in bidding stage N/A: Not applicable

** For material details refer to the latest revision of "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001".

*** Body color of valves shall be selected same as pipe color. For more details refer to the latest revision of "Specification For Painting Doc No."BK-GNRAL-PEDCO-000-PI-SP-0006 "





NISOC

تگهداشت و افزایش تولید میدان نفتی بینک

فعالیت های رو زمینی در بسته های کاری تحت الارض

ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات

برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک

053 - 073 - 9184

شماره پیمان:

پروژه

بسته کاری

صادر کننده

تسهیلات

رشته

نوع مدرک

سریال

نسخه

BK

W007S

PEDCO

110

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0004

D02

شماره صفحه: 10 از 16


Item	Data Category	Technical Features	Project Data & Requirements	
1	GENERAL	Tag Number	TRV-1701F	
2		P&ID NO and Page :	BK-W007S-PEDCO-110-PR-PI-0001-D04 (5/6)	
3		Service	MIXED/ 3 PHASES	
4		Inlet Line No. Outlet Line No.	CRD-110-170F-LN15-1"-PT	CDH-110-170F-AN05-1"-PT
5		Discharge to	TO HP DRAIN HEADER	
6		Protect Equipment	FLOW LINE	
7		Area Clacification for Discharge	ZONE 2, IIB T4	
8		Sour Service	YES	
9		NACE MR0175/ISO 15156 Compliance	YES	
10	BASIS	Nozzle (Full, Semi)	Full Nozzle	
11		Design Type	Relief	
12		Conventional, Bellow, Pilot Op.	Conventional	
13		Bonnet Type	Closed	
14	PROCESS CONDITIONS (note 2)	Fluid / Phase / State	Liquid/2phase	
15		Ambient Temperature °C	-5	50
16		Temperature °C Operating	41.77	
17		Pressure Barg Operating	12.78	
18		Oper. Temperature °C RelievingTemp. °C	41.77	349.4
19		Required Capacity kg/h	by vendor	
20		Molecular Mass Sp. Gr. @ relief Tmp kg/m3	29.92	0.251
21		Oper. Pressure barg Set Pressure barg	12.78	207
22		Back Pressure Barg	Constant	1.5
23			Variable	0
24			Total	1.5
25		% Allowable Overpressure	-	
26		Over Pressure Factor	-	
27		Compressibility Factor (Z)	-	
28		Latent Heat of Vaporization (Kj/Kg)	2305	
29		Ratio of Specific Heats(Cp/Cv)	1.007	
30		Density @ Oper. kg/m3temperature & pressure	251.6	
31	Operating Viscosity cP	0.012		
32	Barometric Pressure (psia)	13.2		
33	SELECTION	Design Code Sizing Basis	API 520	-
34		pressure relieving and de-pressurising systems Code	API 521	
35		Design of Construction	API 521	
36		Scenarios	by vendor	
37		Basis of Selection	by vendor	
38		Calculated Area Inch	by vendor	
39		Selected Area cm²	by vendor	
40		Accumulation AC %	by vendor	
41		Orifice Designation	D	
42	CONNECTIONS	Size: Inlet Outlet	3/4"	1"
43		Rating & Facing : Inlet Outlet	Thread (6000# SW)	Thread(3000# SW)
44	MATERIALS (VTC)	Body and Bonnet	ASTM A105 (VTC)	
45		Seat and Disc (Trim)	316 SS (VTC)	
46		Nozzle	316 SS (VTC)	
47		Guide and Rings	316 SS (VTC)	
48		Spring	316 SS (VTC)	
49		Bellows	N/A	
50	OPTIONS	Cap without Lever: Screwed or Bolted	Screwed cap	
51		Lifting Lever: Plain or Packed	N/A	
52		Test Gage	Yes	
53		With Rupture Disc	No	
54		Flame Arrestor	No	
55		Hydro Test	Required	
56		Seat Leakage Test	Required	
57		Compliance Standard	According to NACE MR-0175 / ISO15156	
58	PURCHASE	Manufacturer	will be finalized later	
59		Model	will be finalized later	
60		Serial No.	will be finalized later	

Main Notes:

*VTA : Vendor to Advise in bidding stage VTC : Vendor to confirm in bidding stage N/A: Not applicable

** For material details refer to the latest revision of "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001 ".

*** Body color of valves shall be selected same as pipe color. For more details refer to the latest revision of "Specification For Painting Doc No."BK-GNRAL-PEDCO-000-PI-SP-0006 ".





NISOC

تگهداشت و افزایش تولید میدان نفتی بینک

فعالیت های رو زمینی در بسته های کاری تحت الارض

ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات

برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک

DATA SHEETS FOR PRESSURE & SAFETY RELIEF VALVES - EXTENSION OF BINAK B/C MANIFOLD

شماره پیمان:

053 - 073 - 9184

پروژه

W007S

بسته کاری

PEDCO

تسهیلات

110

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سریال

0004

نسخه

D02

شماره صفحه: 11 از 16

Item	Data Category	Technical Features	Project Data & Requirements		
1	GENERAL	Tag Number	PRV-1701A		
2		P&ID NO and Page :	BK-W007S-PEDCO-110-PR-PI-0001-D04 (3/6)		
3		Service	MIXED/ 3 PHASES		
4		Inlet Line No.Outlet Line No.	CRD-110-174A-FN05-4"-PT	CDH-110-174A-AN05-6"-PT	
5		Discharge to	TO DRAIN SEP.		
6		Protect Equipment	FLOW LINE		
7		Area Clacification for Discharge	ZONE 2, IIB T4		
8		Sour Service	YES		
9		NACE MR0175/ISO 15156 Compliance	YES		
10	BASIS	Nozzle (Full, Semi)	Full Nozzle		
11		Design Type	Relief		
12		Conventional, Bellow, Pilot Op.	Conventional		
13		Bonnet Type	Closed		
14	PROCESS CONDITIONS (note 2)	Fluid / Phase / State	Liquid/2phase		
15		Ambient Temperature °C	-5	50	
16		Temperature °C	Operating	36.31	
17		Pressure Barg	Operating	12.78	
18		Oper. Temperature °C	RelievingTemp. °C	36.31	264.9
19		Required Capacity kg/h	11347.034		
20		Molecular Mass	Sp. Gr. @ relief Tmp kg/m3	77.41	0.437
21		Oper. Pressure barg	Set Pressure barg	12.78	93
22		Back Pressure Barg	Constant	1.5	
23			Variable	0	
24			Total	1.5	
25		% Allowable Overpressure	21%		
26		Over Pressure Factor	1.21		
27		Compressibility Factor (Z)	-		
28		Latent Heat of Vaporization (Kj/Kg)	1906		
29		Ratio of Specific Heats(Cp/Cv)	1.005		
30		Density @ Oper. kg/m3temperature & pressure	437.7		
31	Operating Viscosity cP	0.011			
32	Barometric Pressure (psia)	13.2			
33	SELECTION	Design Code	Sizing Basis	API 520	-
34		pressure relieving and de-pressurising systems Code		API 521	
35		Design of Construction		API 521	
36		Scenarios		-	
37		Basis of Selection		FIRE	
38		Calculated Area	Inch	1.539	
39		Selected Area	cm²	1.26	
40		Accumulation AC %		1.21	
41	Orifice Designation		E		
42	CONNECTIONS	Size: Inlet	Outlet	1 "	2"
43		Rating & Facing : Inlet	Outlet	FLANGED (600# RF)	FLANGED (150# RF)
44	MATERIALS (VTC)	Body and Bonnet	A216 Gr. WCB (VTC)		
45		Seat and Disc (Trim)	316 SS (VTC)		
46		Nozzle	316 SS (VTC)		
47		Guide and Rings	316 SS (VTC)		
48		Spring	316 SS (VTC)		
49		Bellows	N/A		
50	OPTIONS	Cap without Lever: Screwed or Bolted	Screwed cap		
51		Lifting Lever: Plain or Packed	N/A		
52		Test Gage	Yes		
53		With Rupture Disc	No		
54		Flame Arrestor	No		
55		Hydro Test	Required		
56		Seat Leakage Test	Required		
57	Compliance Standard		According to NACE MR-0175 / ISO15156		
58	PURCHASE	Manufacturer	will be finalized later		
59		Model	will be finalized later		
60		Serial No.	will be finalized later		

Main Notes:

*VTA : Vendor to Advise in bidding stage

VTC : Vendor to confirm in bidding stage

N/A: Not applicable

** For material details refer to the latest revision of "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001 ".

*** Body color of valves shall be selected same as pipe color. For more details refer to the latest revision of "Specification For Painting Doc No."BK-GNRAL-PEDCO-000-PI-SP-0006 ".



تکهداشت و افزایش تولید میدان نفتی بینک
 فعالیت های روزمینی در بسته های کاری تحت الارض
 ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جرانی، تهیلات
 بوقرسانی، مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک



DATA SHEETS FOR PRESSURE & SAFETY RELIEF VALVES - EXTENSION OF BINAK B/C MANIFOLD

053 - 073 - 9184

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شماره صفحہ: 12؛ 16




Item	Data Category	Technical Features		D02	Project Data & Requirements	
1	GENERAL	Tag Number		PRV-1701B		
2		P&ID NO and Page :		BK-W007S-PEDCO-110-PR-PI-0001-D04 (3/6)		
3		Service		MIXED/ 3 PHASES		
4		Inlet Line No.	Outlet Line No.	CRD-110-174B-FN05-4"-PT	CDH-110-174B-AN05-6"-PT	
5		Discharge to		TO DRAIN SEP.		
6		Protect Equipment		FLOW LINE		
7		Area Clacification for Discharge		ZONE 2, IIB T4		
8		Sour Service		YES		
9		NACE MR0175/ISO 15156 Compliance		YES		
10	BASIS	Nozzle (Full, Semi)		Full Nozzle		
11		Design Type	Safety, Relief, Safety-Relief	Relief		
12			Conventional, Bellow, Pilot Op.	Conventional		
13		Bonnet Type		Closed		
14	PROCESS CONDITIONS (note 2)	Fluid / Phase / State		Liquid/2phase		
15		Ambient Temperature °C		-5	50	
16		Temperature °C	Operating	31.6		
17		Pressure Barg	Operating	12.78		
18		Oper. Temperature °C	RelievingTemp. °C	31.60	257.5	
19		Required Capacity kg/h		17421.909		
20		Molecular Mass	Sp. Gr.@ relief Tmp kg/m3	39.09	0.267	
21		Oper. Pressure barg	Set Pressure barg	12.78	93	
22		Back Pressure Barg	Constant	1.5		
23			Variable	0		
24			Total	1.5		
25		% Allowable Overpressure		21%		
26		Over Pressure Factor		1.21		
27		Compressibility Factor (Z)		-		
28		Latent Heat of Vaporization (Kj/Kg)		2305		
29		Ratio of Specific Heats(Cp/Cv)		1.007		
30		Density @ Oper. kg/m3temperature & pressure		267.7		
31		Operating Viscosity cP		0.011		
32		Barometric Pressure (psia)		13.2		
33		SELECTION	Design Code	Sizing Basis	API 520	-
34	pressure relieving and de-pressurising systems Code		API 521			
35	Design of Construction		API 521			
36	Scenarios		-			
37	Basis of Selection		FIRE			
38	Calculated Area		Inch	2.54		
39	Selected Area		cm²	1.98		
40	Accumulation AC %		1.21			
41	Orifice Designation		F			
42	CONNECTIONS	Size: Inlet	Outlet	1 1/2"	2"	
43		Rating & Facing : Inlet	Outlet	FLANGED (600# RF)	FLANGED (150# RF)	
44	MATERIALS (VTC)	Body and Bonnet		A216 Gr. WCB (VTC)		
45		Seat and Disc (Trim)		316 SS (VTC)		
46		Nozzle		316 SS (VTC)		
47		Guide and Rings		316 SS (VTC)		
48		Spring		316 SS (VTC)		
49		Bellows		N/A		
50	OPTIONS	Cap without Lever: Screwed or Bolted		Screwed cap		
51		Lifting Lever: Plain or Packed		N/A		
52		Test Gage		Yes		
53		With Rupture Disc		No		
54		Flame Arrestor		No		
55		Hydro Test		Required		
56		Seat Leakage Test		Required		
57		Compliance Standard		According to NACE MR-0175 / ISO15156		
58	PURCHASE	Manufacturer		will be finalized later		
59		Model		will be finalized later		
60		Serial No.		will be finalized later		

Main Notes:


*VTA: Vendor to Advise in bidding stage VTC: Vendor to confirm in bidding stage N/A: Not applicable

** For material details refer to the latest revision of "Piping Material Specification Doc No."BK-SSGRI-PEDCO-110-PI-SP-0001 "

*** Body color of valves shall be selected same as pipe color. For more details refer to the latest revision of "Specification For Painting Doc No."BK-GNBAI-PEDCO-000-PI-SP-0006."

 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک							 	
		DATA SHEETS FOR PRESSURE & SAFETY RELIEF VALVES - EXTENSION OF BINAK B/C MANIFOLD								
شماره پیمان: 053 - 073 - 9184		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 13 از 16
		BK	W007S	PEDCO	110	IN	DT	0004	D02	
Item	Data Category	Technical Features				Project Data & Requirements				
1	GENERAL	Tag Number				PRV-1701C				
2		P&ID NO and Page :				BK-W007S-PEDCO-110-PR-PI-0001-D04 (4/6)				
3		Service				MIXED/ 3 PHASES				
4		Inlet Line No.	Outlet Line No.			CRD-110-174C-FN05-4"-PT		CDH-110-174C-AN05-6"-PT		
5		Discharge to				TO DRAIN SEP.				
6		Protect Equipment				FLOW LINE				
7		Area Clacification for Discharge				ZONE 2, IIB T4				
8		Sour Service				YES				
9		NACE MR0175/ISO 15156 Compliance				YES				
10	BASIS	Nozzle (Full, Semi)				Full Nozzle				
11		Design Type		Safety, Relief, Safety-Relief		Relief				
12				Conventional, Bellow, Pilot Op.		Conventional				
13		Bonnet Type				Closed				
14	PROCESS CONDITIONS (note 2)	Fluid / Phase / State				Liquid/2phase				
15		Ambient Temperature °C				-5		50		
16		Temperature °C		Operating		46.19		50		
17		Pressure Barg		Operating		12.78		50		
18		Oper. Temperature °C		RelievingTemp. °C		46.19		264.9		
19		Required Capacity kg/h				11347.034				
20		Molecular Mass		Sp. Gr.@ relief Tmp kg/m3		77.41		0.413		
21		Oper. Pressure barg		Set Pressure barg		12.78		93		
22		Back Pressure Barg		Constant		1.5				
23				Variable		0				
24				Total		1.5				
25		% Allowable Overpressure				21%				
26		Over Pressure Factor				1.21				
27		Compressibility Factor (Z)				-				
28		Latent Heat of Vaporization (Kj/Kg)				1906				
29		Ratio of Specific Heats(Cp/Cv)				1.005				
30		Density @ Oper. kg/m3temperature & pressure				413.1				
31	Operating Viscosity cP				0.011					
32	Barometric Pressure (psia)				13.2					
33	SELECTION	Design Code		Sizing Basis		API 520		-		
34		pressure relieving and de-pressurising systems Code				API 521				
35		Design of Construction				API 521				
36		Scenarios				-				
37		Basis of Selection				FIRE				
38		Calculated Area		Inch		1.539				
39		Selected Area		cm²		1.26				
40		Accumulation AC %				1.21				
41		Orifice Designation				E				
42	CONNECTIONS	Size: Inlet		Outlet		1 "		2"		
43		Rating & Facing : Inlet		Outlet		FLANGED (600# RF)		FLANGED (150# RF)		
44	MATERIALS (VTC)	Body and Bonnet				A216 Gr. WCB (VTC)				
45		Seat and Disc (Trim)				316 SS (VTC)				
46		Nozzle				316 SS (VTC)				
47		Guide and Rings				316 SS (VTC)				
48		Spring				316 SS (VTC)				
49		Bellows				N/A				
50	OPTIONS	Cap without Lever: Screwed or Bolted				Screwed cap				
51		Lifting Lever: Plain or Packed				N/A				
52		Test Gage				Yes				
53		With Rupture Disc				No				
54		Flame Arrestor				No				
55		Hydro Test				Required				
56		Seat Leakage Test				Required				
57		Compliance Standard				According to NACE MR-0175 / ISO15156				
58	PURCHASE	Manufacturer				will be finalized later				
59		Model				will be finalized later				
60		Serial No.				will be finalized later				

Main Notes:
*VTA : Vendor to Advise in bidding stage VTC : Vendor to confirm in bidding stage N/A: Not applicable
** For material details refer to the latest revision of "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001 ".
*** Body color of valves shall be selected same as pipe color. For more details refer to the latest revision of "Specification For Painting Doc No."BK-GNRL-PEDCO-000-PI-SP-0006 ".





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تکهداشت و افزایش تولید میدان نفتی بینک

فعالیت های رو زمینی در بسته های کاری تحت الارض

ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات

برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک

053 - 073 - 9184

شماره پیمان:

پروژه

بسته کاری

صادر کننده

تسهیلات

رشته

نوع مدرک

سریال

نسخه

BK

W007S

PEDCO

110

IN

DT

0004

D02

شماره صفحه: 14 از 16


Item	Data Category	Technical Features	Project Data & Requirements		
1	GENERAL	Tag Number	PRV-1701D		
2		P&ID NO and Page :	BK-W007S-PEDCO-110-PR-PI-0001-D04 (4/6)		
3		Service	MIXED/ 3 PHASES		
4		Inlet Line No. Outlet Line No.	CRD-110-174D-FN05-4"-PT	CDH-110-174D-AN05-6"-PT	
5		Discharge to	TO DRAIN SEP.		
6		Protect Equipment	FLOW LINE		
7		Area Clacification for Discharge	ZONE 2, IIB T4		
8		Sour Service	YES		
9		NACE MR0175/ISO 15156 Compliance	YES		
10	BASIS	Nozzle (Full, Semi)	Full Nozzle		
11		Design Type	Safety, Relief, Safety-Relief	Relief	
12			Conventional, Bellow, Pilot Op.	Conventional	
13		Bonnet Type	Closed		
14	PROCESS CONDITIONS (note 2)	Fluid / Phase / State	Liquid/2phase		
15		Ambient Temperature °C	-5	50	
16		Temperature °C	Operating	44.41	
17		Pressure Barg	Operating	12.78	
18		Oper. Temperature °C	RelievingTemp. °C	44.41	262.6
19		Required Capacity kg/h	29036.515		
20		Molecular Mass	Sp. Gr.@ relief Tmp kg/m3	39.09	0.247
21		Oper. Pressure barg	Set Pressure barg	12.78	93
22		Back Pressure Barg	Constant	1.5	
23			Variable	0	
24			Total	1.5	
25		% Allowable Overpressure	21%		
26		Over Pressure Factor	1.21		
27		Compressibility Factor (Z)	-		
28		Latent Heat of Vaporization (Kj/Kg)	2305		
29		Ratio of Specific Heats(Cp/Cv)	1.007		
30		Density @ Oper. kg/m3temperature & pressure	247.6		
31		Operating Viscosity cP	0.012		
32	Barometric Pressure (psia)	13.2			
33	SELECTION	Design Code	Sizing Basis	API 520	
34		pressure relieving and de-pressurising systems Code		API 521	
35		Design of Construction		API 521	
36		Scenarios		-	
37		Basis of Selection		FIRE	
38		Calculated Area	Inch	3.97	
39		Selected Area	cm²	3.24	
40		Accumulation AC %		1.21	
41		Orifice Designation		G	
42	CONNECTIONS	Size: Inlet	Outlet	1 1/2" 3"	
43		Rating & Facing : Inlet	Outlet	FLANGED (600# RF) FLANGED (150# RF)	
44	MATERIALS (VTC)	Body and Bonnet	A216 Gr. WCB (VTC)		
45		Seat and Disc (Trim)	316 SS (VTC)		
46		Nozzle	316 SS (VTC)		
47		Guide and Rings	316 SS (VTC)		
48		Spring	316 SS (VTC)		
49		Bellows	N/A		
50	OPTIONS	Cap without Lever: Screwed or Bolted	Screwed cap		
51		Lifting Lever: Plain or Packed	N/A		
52		Test Gage	Yes		
53		With Rupture Disc	No		
54		Flame Arrestor	No		
55		Hydro Test	Required		
56		Seat Leakage Test	Required		
57	Compliance Standard		According to NACE MR-0175 / ISO15156		
58	PURCHASE	Manufacturer	will be finalized later		
59		Model	will be finalized later		
60		Serial No.	will be finalized later		

Main Notes:

*VTA : Vendor to Advise in bidding stage VTC : Vendor to confirm in bidding stage N/A: Not applicable

** For material details refer to the latest revision of "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001 ".

*** Body color of valves shall be selected same as pipe color. For more details refer to the latest revision of "Specification For Painting Doc No."BK-GNRAL-PEDCO-000-PI-SP-0006 ".





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تکهداشت و افزایش تولید میدان نفتی بینک

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ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات

برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک

053 - 073 - 9184

شماره پیمان:

پروژه

BK

بسته کاری

W007S

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110

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IN

نوع مدرک

DT

سریال

0004

نسخه

D02

شماره صفحه: 15 از 16


Item	Data Category	Technical Features	Project Data & Requirements		
1	GENERAL	Tag Number	PRV-1701E		
2		P&ID NO and Page :	BK-W007S-PEDCO-110-PR-PI-0001-D04 (5/6)		
3		Service	MIXED/ 3 PHASES		
4		Inlet Line No.	CRD-110-174E-FN05-4"-PT	CDH-110-174E-AN05-6"-PT	
5		Outlet Line No.			
6		Discharge to	TO DRAIN SEP.		
7		Protect Equipment	FLOW LINE		
8		Area Clacification for Discharge	ZONE 2, IIB T4		
9		Sour Service	YES		
10	BASIS	NACE MR0175/ISO 15156 Compliance	YES		
11		Nozzle (Full, Semi)	Full Nozzle		
12		Design Type	Relief		
13		Bonnet Type	Closed		
14	PROCESS CONDITIONS (note 2)	Fluid / Phase / State	Liquid/2phase		
15		Ambient Temperature °C	-5	50	
16		Temperature °C	Operating	40.71	
17		Pressure Barg	Operating	12.78	
18		Oper. Temperature °C	RelievingTemp. °C	40.71	262.6
19		Required Capacity kg/h	29036.515		
20		Molecular Mass	Sp. Gr. @ relief Tmp kg/m3	29.92	0.253
21		Oper. Pressure barg	Set Pressure barg	12.78	93
22		Back Pressure Barg	Constant	1.5	
23			Variable	0	
24			Total	1.5	
25		% Allowable Overpressure	21%		
26		Over Pressure Factor	1.21		
27		Compressibility Factor (Z)	-		
28		Latent Heat of Vaporization (Kj/Kg)	2305		
29		Ratio of Specific Heats(Cp/Cv)	1.007		
30		Density @ Oper. kg/m3temperature & pressure	253.2		
31	Operating Viscosity cP	0.012			
32	Barometric Pressure (psia)	13.2			
33	SELECTION	Design Code	Sizing Basis	API 520	
34		pressure relieving and de-pressurising systems Code	API 521		
35		Design of Construction	API 521		
36		Scenarios	-		
37		Basis of Selection	FIRE		
38		Calculated Area	Inch	3.97	
39		Selected Area	cm²	3.24	
40		Accumulation AC %	1.21		
41	CONNECTIONS	Orifice Designation	G		
42		Size: Inlet	Outlet	1 1/2 "	3"
43	MATERIALS (VTC)	Rating & Facing : Inlet	Outlet	FLANGED (600# RF)	FLANGED (150# RF)
44		Body and Bonnet	A216 Gr. WCB (VTC)		
45		Seat and Disc (Trim)	316 SS (VTC)		
46		Nozzle	316 SS (VTC)		
47		Guide and Rings	316 SS (VTC)		
48		Spring	316 SS (VTC)		
49		Bellows	N/A		
50	OPTIONS	Cap without Lever: Screwed or Bolted	Screwed cap		
51		Lifting Lever: Plain or Packed	N/A		
52		Test Gage	Yes		
53		With Rupture Disc	No		
54		Flame Arrestor	No		
55		Hydro Test	Required		
56		Seat Leakage Test	Required		
57	PURCHASE	Compliance Standard	According to NACE MR-0175 / ISO15156		
58		Manufacturer	will be finalized later		
59		Model	will be finalized later		
60		Serial No.	will be finalized later		

Main Notes:

*VTA : Vendor to Advise in bidding stage VTC : Vendor to confirm in bidding stage N/A: Not applicable

** For material details refer to the latest revision of "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001 ".

*** Body color of valves shall be selected same as pipe color. For more details refer to the latest revision of "Specification For Painting Doc No."BK-GNRL-PEDCO-000-PI-SP-0006 ".





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053 - 073 - 9184

شماره پیمان:

پروژه

BK

بسته کاری

W007S

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110

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DT

سریال

0004

نسخه

D02

شماره صفحه 16 از 16

Item	Data Category	Technical Features	Project Data & Requirements	
1	GENERAL	Tag Number	PRV-1701F	
2		P&ID NO and Page :	BK-W007S-PEDCO-110-PR-PI-0001-D04 (5/6)	
3		Service	MIXED/ 3 PHASES	
4		Inlet Line No. Outlet Line No.	CRD-110-174F-FN05-4"-PT	CDH-110-174F-AN05-6"-PT
5		Discharge to	TO DRAIN SEP.	
6		Protect Equipment	FLOW LINE	
7		Area Clacification for Discharge	ZONE 2, IIB T4	
8		Sour Service	YES	
9		NACE MR0175/ISO 15156 Compliance	YES	
10	BASIS	Nozzle (Full, Semi)	Full Nozzle	
11		Design Type	Safety, Relief, Safety-Relief	Relief
12			Conventional, Bellow, Pilot Op.	Conventional
13		Bonnet Type	Closed	
14	PROCESS CONDITIONS (note 2)	Fluid / Phase / State	Liquid/2phase	
15		Ambient Temperature °C	-5	50
16		Temperature °C Operating	41.77	
17		Pressure Barg Operating	12.78	
18		Oper. Temperature °C RelievingTemp. °C	41.77	261.6
19		Required Capacity kg/h	11614.606	
20		Molecular Mass Sp. Gr.@ relief Tmp kg/m3	29.92	0.251
21		Oper. Pressure barg Set Pressure barg	12.78	93
22		Back Pressure Barg	Constant	1.5
23			Variable	0
24			Total	1.5
25		% Allowable Overpressure	21%	
26		Over Pressure Factor	1.21	
27		Compressibility Factor (Z)	-	
28		Latent Heat of Vaporization (Kj/Kg)	2305	
29		Ratio of Specific Heats(Cp/Cv)	1.007	
30		Density @ Oper. kg/m3temperature & pressure	251.6	
31		Operating Viscosity cP	0.012	
32	Barometric Pressure (psia)	13.2		
33	SELECTION	Design Code Sizing Basis	API 520	-
34		pressure relieving and de-pressurising systems Code	API 521	
35		Design of Construction	API 521	
36		Scenarios	-	
37		Basis of Selection	FIRE	
38		Calculated Area Inch	1.539	
39		Selected Area cm²	1.26	
40		Accumulation AC %	1.21	
41		Orifice Designation	E	
42	CONNECTIONS	Size: Inlet Outlet	1"	2"
43		Rating & Facing : Inlet Outlet	FLANGED (600# RF)	FLANGED (150# RF)
44	MATERIALS (VTC)	Body and Bonnet	A216 Gr. WCB (VTC)	
45		Seat and Disc (Trim)	316 SS (VTC)	
46		Nozzle	316 SS (VTC)	
47		Guide and Rings	316 SS (VTC)	
48		Spring	316 SS (VTC)	
49		Bellows	N/A	
50	OPTIONS	Cap without Lever: Screwed or Bolted	Screwed cap	
51		Lifting Lever: Plain or Packed	N/A	
52		Test Gage	Yes	
53		With Rupture Disc	No	
54		Flame Arrestor	No	
55		Hydro Test	Required	
56		Seat Leakage Test	Required	
57		Compliance Standard	According to NACE MR-0175 / ISO15156	
58	PURCHASE	Manufacturer	will be finalized later	
59		Model	will be finalized later	
60		Serial No.	will be finalized later	

Main Notes:

*VTA : Vendor to Advise in bidding stage VTC : Vendor to confirm in bidding stage N/A: Not applicable

** For material details refer to the latest revision of "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001 ".

*** Body color of valves shall be selected same as pipe color. For more details refer to the latest revision of "Specification For Painting Doc No."BK-GNRAL-PEDCO-000-PI-SP-0006 ".