



نگهداشت و افزایش تولید میدان نفتی بینک
فعالیت های رو زمینی در بسته های کاری تحت الارض
ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جراینی، 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

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کاری

صادر کنندہ

سهیلات

رشته

سارک

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سور یا

نسخه

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

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D00	MAY. 2022	IFC	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
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Class: 2

CLIENT Doc. Number: F9Z-707974

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

AFO: 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
 فعالیت های رو زمینی در بسته های کاری تحت الارض
 ساخت موقعیت چاه، تأسیسات سر چاهی، 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

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه
D01	0004	DT	IN	110	PEDCO	W007S	BK

شماره صفحه: 2 از 16

REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04	Page	D00	D01	D02	D03	D04
1	X	X				65					
2	X	X				66					
3	X	X				67					
4	X					68					
5	X	X				69					
6	X	X				70					
7	X	X				71					
8	X	X				72					
9	X	X				73					
10	X	X				74					
11	X	X				75					
12	X	X				76					
13	X	X				77					
14	X	X				78					
15	X	X				79					
16	X	X				80					
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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 پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 3 از 16
053 - 073 - 9184	BK	W007S	PEDCO	110	IN	DT	0004	D01	

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

D01



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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 پیمان:
053 - 073 - 9184

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه
D01	0004	DT	IN	110	PEDCO	W007S	BK

شماره صفحه: 4 از 16

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

 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: 5 از 16
		BK	W007S	PEDCO	110	IN	DT	0004	D01	
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		CY-1701A						
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		PIPE 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	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	cm²	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	Flange (1500# RTJ)		Flange (150# RF)				
44	MATERIALS (VTC)	Body and Bonnet		ASTM A105 (VTC)						
45		Seat and Disc (Trim)		Soft Seat-CS ENP-75 micron-PTFE (VTC)						
46		Nozzle		316 SS (VTC)						
47		Guide and Rings		316 SS (VTC)						
48		Spring		ASTM A105 (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 "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001 ".

 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	D01	
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				CY-1701B				
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				PIPE 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	cm²			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		Flange (1500# RTJ)		Flange (150# RF)		
44	MATERIALS (VTC)	Body and Bonnet				ASTM A105 (VTC)				
45		Seat and Disc (Trim)				Soft Seat-CS ENP-75 micron-PTFE (VTC)				
46		Nozzle				316 SS (VTC)				
47		Guide and Rings				316 SS (VTC)				
48		Spring				ASTM A105 (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 "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001 ".

 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: 7 از 16
		BK	W007S	PEDCO	110	IN	DT	0004	D01	
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				CY-1701C				
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				PIPE 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	cm²			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		Flange (1500# RTJ)		Flange (150# RF)		
44	MATERIALS (VTC)	Body and Bonnet				ASTM A105 (VTC)				
45		Seat and Disc (Trim)				Soft Seat-CS ENP-75 micron-PTFE (VTC)				
46		Nozzle				316 SS (VTC)				
47		Guide and Rings				316 SS (VTC)				
48		Spring				ASTM A105 (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 "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001 ".

 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: 8 از 16
		BK	W007S	PEDCO	110	IN	DT	0004	D01	
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				CY-1701D				
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				PIPE 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	cm²			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		Flange (1500# RTJ)		Flange (150# RF)		
44	MATERIALS (VTC)	Body and Bonnet				ASTM A105 (VTC)				
45		Seat and Disc (Trim)				Soft Seat-CS ENP-75 micron-PTFE (VTC)				
46		Nozzle				316 SS (VTC)				
47		Guide and Rings				316 SS (VTC)				
48		Spring				ASTM A105 (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 "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001 ".

 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: 9 از 16
		BK	W007S	PEDCO	110	IN	DT	0004	D01	
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				CY-1701E				
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				PIPE 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	cm²			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		Flange (1500# RTJ)		Flange (150# RF)		
44	MATERIALS (VTC)	Body and Bonnet				ASTM A105 (VTC)				
45		Seat and Disc (Trim)				Soft Seat-CS ENP-75 micron-PTFE (VTC)				
46		Nozzle				316 SS (VTC)				
47		Guide and Rings				316 SS (VTC)				
48		Spring				ASTM A105 (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 "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001 ".										

 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: 10 از 16
		BK	W007S	PEDCO	110	IN	DT	0004	D01	
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				CY-1701F				
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				PIPE 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		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	cm²			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		Flange (1500# RTJ)		Flange (150# RF)		
44	MATERIALS (VTC)	Body and Bonnet				ASTM A105 (VTC)				
45		Seat and Disc (Trim)				Soft Seat-CS ENP-75 micron-PTFE (VTC)				
46		Nozzle				316 SS (VTC)				
47		Guide and Rings				316 SS (VTC)				
48		Spring				ASTM A105 (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 "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001 ".										

 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: 11 از 16
		BK	W007S	PEDCO	110	IN	DT	0004	D01	
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				CY-1701A				
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				PIPE 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			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	cm²			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)				AISI 410+ ST Gr6 (VTC)				
46		Nozzle				316 SS (VTC)				
47		Guide and Rings				316 SS (VTC)				
48		Spring				A216 Gr. WCB (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 "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001 ".

 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: 12 از 16
		BK	W007S	PEDCO	110	IN	DT	0004	D01	
Item	Data Category	Technical Features		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		CY-1701B						
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		PIPE 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	cm²	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)		AISI 410+ ST Gr6 (VTC)						
46		Nozzle		316 SS (VTC)						
47		Guide and Rings		316 SS (VTC)						
48		Spring		A216 Gr. WCB (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 "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001 ".

 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	D01	
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				CY-1701C				
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				PIPE 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		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	cm²			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)				AISI 410+ ST Gr6 (VTC)				
46		Nozzle				316 SS (VTC)				
47		Guide and Rings				316 SS (VTC)				
48		Spring				A216 Gr. WCB (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 "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001 ".

 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: 14 از 16
		BK	W007S	PEDCO	110	IN	DT	0004	D01	
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		CY-1701D						
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		PIPE 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	cm²	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)		AISI 410+ ST Gr6 (VTC)						
46		Nozzle		316 SS (VTC)						
47		Guide and Rings		316 SS (VTC)						
48		Spring		A216 Gr. WCB (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 "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001 ".

 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: 15 از 16
		BK	W007S	PEDCO	110	IN	DT	0004	D01	
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				CY-1701E				
4		Inlet Line No.	Outlet Line No.			CRD-110-174E-FN05-4"-PT		CDH-110-174E-AN05-6"-PT		
5		Discharge to				TO DRAIN SEP.				
6		Protect Equipment				PIPE 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		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	cm²			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)				AISI 410+ ST Gr6 (VTC)				
46		Nozzle				316 SS (VTC)				
47		Guide and Rings				316 SS (VTC)				
48		Spring				A216 Gr. WCB (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:
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** For material details refer to "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001 ".

 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: 16 از 16
		BK	W007S	PEDCO	110	IN	DT	0004	D01	
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				CY-1701F				
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				PIPE 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	cm²			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)				AISI 410+ ST Gr6 (VTC)				
46		Nozzle				316 SS (VTC)				
47		Guide and Rings				316 SS (VTC)				
48		Spring				A216 Gr. WCB (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 "Piping Material Specification Doc No."BK-SSGRL-PEDCO-110-PI-SP-0001 ".