

نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برقرسانی مربوط به موقعیت \$W007 و توسعه چندراهه کلاستر بینک



NISOC

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

شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سر يال	نسخه	ſ
053 - 073 - 9184	BK	W007S	PEDCO	110	IN	DT	0004	D02	Ĺ

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	2-707974			

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
AFQ: Approved For Quotation
IFI: Issued For Information
AB-R: As-Built for CLIENT Review

AB-A: As-Built -Approved



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



DATA SHEETS FOR PRESSURE & SAFETY RELIEF VALVES - EXTENSION OF BINAK

B/C MANIFOLD

 نسخه
 سريال
 نوع مدر ک ارشته
 تسهيلات
 صادر کننده
 بسته کاری
 پروژه
 شماره پيمان:

 053 - 073 - 9184
 BK
 W007S
 PEDCO
 110
 IN
 DT
 0004
 D02

شماره صفحه: 2 از 16

05	3 - 0/3 – 9184	ł	BK W	007S PEDCO	110	IN	וט	0004	D02			
				RE	VISION RE	COF	D SHEET					
Page	D00	D01	D02	D03	D04		Page	D00	D01	D02	D03	D04
1	Χ	Χ	Χ				65					
2	X	X	X			4	66 67					
3 4	X	Х	X			1	68					
5	X	Х	X				68 69					
6	Х	Х	Х				70 71					
7	X	X	X			-	71					
8 9	X	X	X				72 73					
10	Х	Х	Х				74					
11 12	Х	Х	Х				75					
13	X	X	X				76 77					
14	X	X	X				78					
15	Х	Х	X				79					
16	Х	Х	Х				80					
17						1	81 82					
18 19						1	83					
20						1	84					
20 21 22 23 24 25						4	84 85 86 87 88 89					
22						4	86					
23							88					
25							89					
26							90					
27 28						1	91 92					
20						1	92					
29 30							93 94					
31 32 33 34 35 36 37							95 96 97 98 99 100					
32						-	96					
33 3 <u>4</u>							97					
35							99					
36							100					
37						1	101 102					
38 39							102					
40							104					
41]	105					
42						-	106 107					<u> </u>
43						1	107			1		
45						1	109					<u> </u>
46							110					
47						-	111					
48 49	1					1	112 113					
50						1	114					
51]	115					
52	1					4	116					<u> </u>
53 54	-					-	117 118					├──
55	1					1	118 119					
56						1	120					
57						4	121					
58 59						1	122 123					
60						1	124					
61						1	125					
62							126					
63 64						4	127 128					
04	İ		ı	1	ı	1	ı ızŏ	1	ı	1	I	l



نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برقرسانی مربوط به موقعیت W00078 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	تسهيلات	رشته	نوع مدرك	سريال	نسخه
053 - 073 – 9184	BK	W007S	PEDCO	110	IN	DT	0004	D02

شماره صفحه: 3 از 16

D02

REFERENCE DOCUMENTS:

Specification For Instrumentation

Specification For Pressure Safety Valves(PSV)

BK-GNRAL-PEDCO-000-IN-SP-0007

Process Basis Of Design

BK-GNRAL-PEDCO-000-PR-DB-0001

BK-GNRAL-PEDCO-000-PR-DB-0001

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

BK-W0078-PEDCO-440-PB-004

B/C Manifold

BK-W007S-PEDCO-110-PR-CN-0001



نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برقرسانی مربوط به موقعیت \$W007 و توسعه چندراهه کلاستر بینک





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

شماره بیمان: پروژه بسته کاری صادر کننده تسهيلات وع مدرک نسخه سر يال 053 - 073 - 9184 BK W007S PEDCO DT 0004 D02 110 IN

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)

D02

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

- 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.



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

								_,		1
	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه	
053 - 073 - 9184		BK	W007S	PEDCO	110	IN	DT	0004	D02	ł

شماره صفحه: 5 از 16

	053 - 073 - 9184		BK	W0075	S PEDCO	110	IN	DT	0004	D02	10 313 . ••••• • 53. ••
Item	Data Category				Technical Features	1		D02		Project Data	& Requirements
1		Tag Numb	er							TRV	/-1701A
2			and Page :						BK-V		10-PR-PI-0001-D04 (3/6)
3		Service									/ 3 PHASES
4		Inlet Line	No.	O	utlet Line No.				CRD-110-170A-I	.N15-1"-PT	CDH-110-170A-AN05-1"-PT
5	GENERAL	Discharge									RAIN HEADER
6		Protect Eq								FLO	W LINE
7			ification for I	ischarge						ZONE	2, IIB T4
8		Sour Servi									YES
9			R0175/ISO 15	156 Com	pliance						YES
10		Nozzle (Fu			•					Full	Nozzle
11				Sa	afety, Relief, Safety-Re	elief				F	Relief
12	BASIS	Design Ty	pe	C	onventional, Bellow, P	ilot Op.				Conv	ventional
13		Bonnet Ty	ре	1						С	losed
14		Fluid / Pha	ase / State							Liqui	d/2phase
15		Ambient T	Cemperature of	C					-5		50
16		Temperati	ıre °C	0	perating					3	36.31
17		Pressure B	Barg	0	perating					1	12.78
18		Oper. Ten	perature °C	R	elievingTemp. °C				36.31		351
19		Required (Capacity kg/l							by	vendor
20		Molecular	Mass	Sp	p. Gr.@ relief Tmp kg/	/m3			77.41		0.437
21		Oper. Pres	ssure barg	Se	et Pressure barg				12.78	3	207
22	PROGRESS CONTRACTOR			C	onstant						1.5
23	PROCESS CONDITIONS (note 2)	Back Press	sure Barg	V	ariable						0
24	(note 2)			Te	otal						1.5
25		% Allowab	ble Overpress	ure							-
26		Over Press	sure Factor								-
27		Compressi	ibility Factor	(Z)							-
28		Latent Hea	at of Vaporiz	ation (Kj/	(Kg)						1906
29		Ratio of S ₁	pecific Heats(Cp/Cv)						1	1.005
30				tempratu	re & pressure						137.7
31			Viscosity cP								0.011
32			c Pressure (p								13.2
33		Design Co			zing Basis				API 52		-
34		_		e-pressur	rising systems Code						PI 521
35			Construction								PI 521
36		Scenarios									vendor
37	SELECTION	Basis of Se		Y	,			_			vendor
38		Calculated Selected A		Inc							vendor
				cm	r			-			vendor
40		Orifice De	tion AC %					-		ру	vendor D
41		Size: Inlet		In-	utlet			-	3/4"		1"
43	CONNECTIONS		Facing : Inlet		utlet				Thread (600	0# SW)	Thread(3000# SW)
44		Body and		J					Till Cau (000		A105 (VTC)
45		Seat and D									SS (VTC)
46		Nozzle	(21m)								SS (VTC)
47	MATERIALS (VTC)	Guide and	Rings					+			SS (VTC)
48		Spring									SS (VTC)
49		Bellows									N/A
50			ut Lever: Scr	ewed or I	Bolted						wed cap
51			ver: Plain or					1			N/A
52		Test Gage									Yes
53		With Rupt									No
54	OPTIONS	Flame Arr									No
55		Hydro Tes									quired
56		Seat Leaka									quired
57			ce Standard						Ac		E MR-0175 / ISO15156
58		Manufactu	urer								nalized later
59	PURCHASE	Model								will be fi	nalized later
60		Serial No.								will be fi	nalized later

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

شماره پیمان∶	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدر ک	سريال	نسخه	
053 - 073 – 9184	BK	W007S	PEDCO	110	IN	DT	0004	D02	

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	053 - 073 – 9184		BK	W007S	PEDCO	110	IN	DT	0004	D02	
Item	Data Category			Techi	nical Features		/	D02		Project l	Data & Requirements
1		Tag Numb	er								TRV-1701B
2		P&ID NO							BK-	W007S-PFD	CO-110-PR-PI-0001-D04 (3/6)
3		Service	unu r uge .						- DIX		IXED/ 3 PHASES
4		Inlet Line	No.	O	tlet Line No.			CF	RD-110-170B		CDH-110-170B-AN05-1"-PT
5	GENERAL	Discharge		0.	the Ellie 110.				15 110 1705		HP DRAIN HEADER
6	GENERIE	Protect Eq									FLOW LINE
7			fication for I)ischarge						-	ZONE 2, IIB T4
8		Sour Servi		-isenarge							YES
9			0175/ISO 15	156 Comp	liance						YES
10		Nozzle (Fu		150 сопр	nunce			-			Full Nozzle
11		1102220 (1 0	.,	Sa	fety, Relief, Saf	etv-Relief					Relief
12	BASIS	Design Typ	e		nventional, Bel		р.				Conventional
13		Bonnet Ty	pe	<u> </u>			•				Closed
14		Fluid / Pha									Liquid/2phase
15			emperature °	C					-5		50
16		Temperatu	_		perating						31.6
17		Pressure B	arg		perating						12.78
18			perature °C		lievingTemp. °(С			31.6	0	347.5
19		Required (Capacity kg/h								by vendor
20		Molecular			. Gr.@ relief Tı	mp kg/m3		1	39.0	9	0.267
21		Oper. Pres	sure barg	Set	Pressure barg				12.7	8	207
22	PROCEED COMPANY			Co	nstant						1.5
23	PROCESS CONDITIONS (note 2)	Back Press	ure Barg	Va	riable						0
24	(note 2)			To	tal						1.5
25		% Allowab	le Overpress	ure							-
26		Over Press	ure Factor								-
27		Compressi	bility Factor	(Z)							-
28			t of Vaporiz		Kg)						2305
29			Ratio of Specific Heats(Cp/Cv)								1.007
30				tempratur	e & pressure						267.7
31			Viscosity cP								0.011
32			Pressure (p						4815		13.2
33		Design Co			ing Basis				API 5	20	
34				le-pressur	ising systems Co	ode					API 521
35			Construction								API 521
36	CELECTION	Scenarios	14:								by vendor
38	SELECTION	Basis of Se Calculated		Incl							by vendor by vendor
39		Selected A		cm ²							by vendor
40		Accumulat		CIII				+			by vendor
41		Orifice Des						+			D D
42		Size: Inlet		On	ıtlet			-	3/4		1"
43	CONNECTIONS		acing : Inlet		ıtlet				Thread (60		Thread(3000# SW)
44		Body and I		122							STM A105 (VTC)
45		Seat and D									316 SS (VTC)
46		Nozzle									316 SS (VTC)
47	MATERIALS (VTC)	Guide and	Rings								316 SS (VTC)
48		Spring									316 SS (VTC)
49		Bellows									N/A
50		Cap withou	ıt Lever: Scr	ewed or B	olted						Screwed cap
51		Lifting Lev	er: Plain or	Packed							N/A
52		Test Gage									Yes
53	OPTIONS	With Rupt	ure Disc								No
54	01 110115	Flame Arr									No
55		Hydro Tes									Required
56		Seat Leaka	_								Required
57			e Standard						P		NACE MR-0175 / ISO15156
58		Manufactu	rer				·				be finalized later
59	PURCHASE	Model									be finalized later
60		Serial No.								will	be finalized later

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

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

شماره پیمان∶	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدر ک	سريال	نسخه	Ī
053 - 073 - 9184	BK	W007S	PEDCO	110	IN	DT	0004	D02	

شماره صفحه: 7 از 16

	053 - 073 – 9184		BK	W007S	PEDCO	110	IN	DT	0004	D02	, ,
Item	Data Category			Techr	nical Features			D02		Project l	Data & Requirements
1		Tag Numb	er					D02			TRV-1701C
2		P&ID NO						-1-	BK-	W007S-PFD	CO-110-PR-PI-0001-D04 (4/6)
3		Service	unu ruge .						<u> </u>		IIXED/ 3 PHASES
4		Inlet Line !	Vo.	Ou	tlet Line No.			C	RD-110-170C		
5	GENERAL	Discharge		00	tiet Ellie 110.						HP DRAIN HEADER
6	GENERIE	Protect Eq									FLOW LINE
7			fication for E	ischarge						-	ZONE 2, IIB T4
8		Sour Service		ischur ₅ c							YES
9			0175/ISO 15	156 Comp	liance						YES
10		Nozzle (Ful		то сопр	nance						Full Nozzle
11		1102220 (1 4	., 50)	Sat	fety, Relief, Saf	etv-Relief					Relief
12	BASIS	Design Typ	e	_	nventional, Bel		p.				Conventional
13		Bonnet Ty	pe	l l							Closed
14		Fluid / Pha									Liquid/2phase
15			emperature ^c	C					-5		50
16		Temperatu	_		perating						46.19
17		Pressure B	arg		perating						12.78
18			perature °C		lievingTemp. °(C		-	46.1	9	351
19					~ *						by vendor
20		Molecular			Gr.@ relief Tı	np kg/m3			77.4	1	0.413
21		Oper. Pres	sure barg		Pressure barg				12.7	'8	207
22				Co	nstant						1.5
23	PROCESS CONDITIONS (note 2)	Back Press	ure Barg	Va	riable						0
24	(Hote 2)			To	tal						1.5
25		% Allowab	le Overpress	ure							-
26		Over Press	ure Factor								-
27		Compressi	bility Factor	(Z)							-
28		Latent Hea	t of Vaporiz	ation (Kj/I	ζg)						1906
29		Ratio of Sp	Ratio of Specific Heats(Cp/Cv)								1.005
30				tempratur	e & pressure						413.1
31			Viscosity cP								0.011
32			Pressure (ps								13.2
33		Design Cod			ing Basis				API 5	20	-
34				le-pressuri	sing systems Co	ode					API 521
35			Construction								API 521
36		Scenarios									by vendor
37	SELECTION	Basis of Se		Y 1							by vendor
38		Calculated Selected A		Incl cm ²							by vendor by vendor
40		Accumulat		CIII				_			
41		Orifice Des						+			by vendor D
42		Size: Inlet	nguau0II	On	tlet			+	3/4		1"
43	CONNECTIONS		acing : Inlet		tlet				Thread (60		Thread(3000# SW)
44		Body and I		34					344 (00		STM A105 (VTC)
45		Seat and D								71.	316 SS (VTC)
46	1	Nozzle									316 SS (VTC)
47	MATERIALS (VTC)	Guide and	Rings					+			316 SS (VTC)
48		Spring									316 SS (VTC)
49		Bellows									N/A
50		Cap withou	ıt Lever: Scr	ewed or B	olted			i			Screwed cap
51		Lifting Lev	er: Plain or	Packed				1			N/A
52		Test Gage									Yes
53	ODTTONG	With Rupt	ure Disc								No
54	OPTIONS	Flame Arre	estor								No
55		Hydro Test	t								Required
56		Seat Leaka	ge Test								Required
57		Complianc	e Standard						P	ccording to	NACE MR-0175 / ISO15156
58		Manufactu	rer							will	be finalized later
59	PURCHASE	Model								will	be finalized later
60		Serial No.								will	be finalized later

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

** 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"



نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برقرساني مربوط به موقعيت W007S و توسعه چندراهه كلاستر بينك



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

شماره پیمان: پروژه صادر کننده بسته کاری تسهيلات رشته نوع مدرك نسخه

شماره صفحه: 8 از 16

	053 - 073 - 9184		BK	W007	7S PEDCO	110	IN		T	0004	D02	شماره صفحه: ۱۵ از ۱۵
Item	Data Category				Technical Feature	es		DO	2		Project Data & R	equirements
1		Tag Numb	er					<i>y</i> D0	2		TRV-170	1D
2		P&ID NO	and Page :								BK-W007S-PEDCO-110-PF	R-PI-0001-D04 (4/6)
3		Service									MIXED/ 3 PI	HASES
4		Inlet Line	No.	(Outlet Line No.					CRD-110-1	70D-LN15-1"-PT	CDH-110-170D-AN05-1"-PT
5	GENERAL	Discharge	to								TO HP DRAIN	HEADER
6		Protect Eq	luipment								FLOW LII	NE
7		Area Claci	ification for I	Discharge	e						ZONE 2, II	B T4
8		Sour Servi	ice								YES	
9		NACE MI	R0175/ISO 15	5156 Con	npliance						YES	
10		Nozzle (Fu	ıll, Semi)								Full Noza	
11	BASIS	Design Ty	ne	S	Safety, Relief, Safe	ety-Relief					Relief	
12	27.10.10			(Conventional, Bell	low, Pilot Op					Convention	
13		Bonnet Ty									Closed	
14		Fluid / Pha									Liquid/2ph	
15			emperature								-5	50
16		Temperatu			Operating						44.41	
17		Pressure B			Operating	~					12.78	
18			perature °C		RelievingTemp. °C	<i>:</i>					44.41	349.9
19			Capacity kg/l		G- G- G " A ==	I / 2					by vend	
20		Molecular			Sp. Gr.@ relief Tr						39.09	0.247
21		Oper. Pres	ssure barg		Set Pressure barg Constant						12.78	207
22	PROCESS CONDITIONS	Dl. D	D	_	Variable						0	
24	(note 2)	Back Press	sure barg	_	Variable Fotal						1.5	
25		% Allowed	ble Overpress		1 Otal						- 1.5	
26			sure Factor	,urc							-	
27			ibility Factor	(Z)								
28			at of Vaporiz		i/Kg)						2305	
29			pecific Heats		y 8 /						1.007	
30				_	ure & pressure						247.6	
31			Viscosity cP								0.012	
32			c Pressure (p								13.2	
33		Design Co	de	S	Sizing Basis					P	PI 520	-
34		pressure re	elieving and o	de-pressu	urising systems Co	ode					API 52°	1
35		Design of	Construction								API 52	1
36		Scenarios									by vend	or
37	SELECTION	Basis of Se	election								by vend	or
38		Calculated			nch						by vend	
39		Selected A		CI	m²						by vend	
40			tion AC %								by vend	or
41		Orifice De	_	1.							D	
42	CONNECTIONS	Size: Inlet			Outlet					There	3/4"	1" Throad/2000# SMA
43			Facing : Inlet	. (Outlet					Inread	(6000# SW)	Thread(3000# SW)
44		Body and	Disc (Trim)								ASTM A105 316 SS (V	
46		Nozzle	out (11III)								316 SS (V	,
47	MATERIALS (VTC)	Guide and	Rings								316 SS (V	
48		Spring									316 SS (V	•
49		Bellows									N/A	,
50			ut Lever: Sci	rewed or	Bolted						Screwed	cap
51			ver: Plain or								N/A	· · ·
52		Test Gage									Yes	
53	OPPLOYO	With Rupt	ture Disc								No	
54	OPTIONS	Flame Arr	estor								No	
55		Hydro Tes	st								Require	ed
56		Seat Leaka	age Test								Require	
57		Compliano	ce Standard								According to NACE MR	-0175 / ISO15156
58		Manufactu	urer								will be finalize	
59	PURCHASE	Model			· · · · · · · · · · · · · · · · · · ·	-					will be finalize	
60		Serial No.									will be finalize	ed later
												·

^{**} 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".



نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برقرسانی 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	تسهيلات	رشته	نوع مدر ک	سريال	نسخه	
053 - 073 - 9184	BK	W007S	PEDCO	110	IN	DT	0004	D02	

شماره صفحه: 9 از 16

	053 - 073 - 9184		BK	W0075	S PEDCO	110	IN	DT	0004	D02	10)17 . 22. 25 25 25 25 25 25 25 25 25 25 25 25 25
Item	Data Category			Tech	nical Features		/	D02		Project 1	Data & Requirements
1		Tag Numb	er					Ĭ	_		TRV-1701E
2	i	P&ID NO	and Page :						BK-	W007S-PED	CO-110-PR-PI-0001-D04 (5/6)
3	i	Service								M	1IXED/ 3 PHASES
4	1	Inlet Line	No.	0	utlet Line No.			С	RD-110-170E	-LN15-1"-PT	CDH-110-170E-AN05-1"-PT
5	GENERAL	Discharge	to							TOI	HP DRAIN HEADER
6	1	Protect Eq	uipment								FLOW LINE
7	1	Area Claci	fication for I	ischarge							ZONE 2, IIB T4
8	i	Sour Servi	ce								YES
9	ı	NACE ME	R0175/ISO 15	156 Com	pliance						YES
10		Nozzle (Fu	ll, Semi)								Full Nozzle
11	BASIS	Design Ty	20	Sa	afety, Relief, Safe	ety-Relief					Relief
12	DASIS	Design Ty	je –	C	onventional, Bell	low, Pilot O	p .				Conventional
13		Bonnet Ty									Closed
14	1	Fluid / Pha									Liquid/2phase
15	1		emperature ^c						-5		50
16	1	Temperatu			perating						40.71
17	1	Pressure B			perating						12.78
18	1		perature °C		elievingTemp. °C	2			40.7	′1	349.9
19	1		Capacity kg/h								by vendor
20	1	Molecular			o. Gr.@ relief Tn	np kg/m3			29.9		0.253
21	1	Oper. Pres	sure barg		et Pressure barg				12.7	/8	207
22	PROCESS CONDITIONS		_		onstant						1.5
23	(note 2)	Back Press	ure Barg	_	ariable			_			0
24	1	0/ 411 1	1.0		otal			_			1.5
25	1		ole Overpress	ure							-
26	1		ure Factor bility Factor	(7)				-			-
28	1		at of Vaporiz		(Va)						2305
29	1		ecific Heats(Ng)						1.007
30	1			_	re & pressure						253.2
31	1		Viscosity cP	cmpratu	re ex pressure						0.012
32	1		Pressure (ps	sia)				- 1			13.2
33		Design Co			zing Basis				API 5	20	-
34	1				rising systems Co	ode					API 521
35	1		Construction								API 521
36	1	Scenarios									by vendor
37	SELECTION	Basis of Se	lection								by vendor
38	1	Calculated	Area	Inc	:h						by vendor
39	1	Selected A	rea	cm	l ²						by vendor
40	1	Accumulat	ion AC %								by vendor
41		Orifice De	signation								D
42	CONNECTIONS	Size: Inlet			utlet				3/4		1"
43	0011120110110		Facing : Inlet	0	utlet				Thread (60		Thread(3000# SW)
44	1	Body and l								A:	STM A105 (VTC)
45	1	Seat and D	usc (Trim)								316 SS (VTC)
46	MATERIALS (VTC)	Nozzle	D:					_			316 SS (VTC)
47		Guide and	Kings					_			316 SS (VTC)
48	1	Spring									316 SS (VTC)
49 50		Bellows Cap without Lever: Screwed or Bolted									N/A Screwed cap
50 51	1				Joilea						N/A
52	1	Lifting Lever: Plain or Packed Test Gage						-			
53	1	With Rupt	ure Disc					Yes No			
54	OPTIONS	Flame Arr									No
55	1	Hydro Tes									Required
56	1	Seat Leaka									Required
57	1		e Standard							According to	NACE MR-0175 / ISO15156
58		Manufactu							•		I be finalized later
59	PURCHASE							will be finalized later			
60		Serial No.						1			I be finalized later
+											

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

** 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"



نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برقرسانی 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 كننده تسهيلات رشته نوع مدرک نسخه

شماره صفحه:10 از 16

	053 - 073 - 9184		BK	W007	S PEDCO	110	IN	DT	0004	D02	شماره صفحه:۱۱ از ۱۵			
Item	Data Category				Technical Features			D02		Project Data	& Requirements			
1		Tag Numb	er					102		TRV	-1701F			
2		P&ID NO	and Page :						BK-	W007S-PEDCO-11	10-PR-PI-0001-D04 (5/6)			
3		Service								MIXED/	′ 3 PHASES			
4		Inlet Line	No.	0	Outlet Line No.				CRD-110-170F-	LN15-1"-PT	CDH-110-170F-AN05-1"-PT			
5	GENERAL	Discharge	to							TO HP DR	AIN HEADER			
6		Protect Eq	uipment							FLO'	W LINE			
7		Area Claci	ification for I	ischarge	,					ZONE	2, IIB T4			
8		Sour Servi	ice							,	YES			
9		NACE ME	R0175/ISO 15	156 Com	pliance					,	YES			
10		Nozzle (Fu	ll, Semi)							Full	Nozzle			
11	D A CITC	ъ . т		S	afety, Relief, Safety-Re	elief				R	elief			
12	BASIS	Design Ty	pe	C	Conventional, Bellow, Pi	ilot Op.				Conv	entional			
13		Bonnet Ty	pe							CI	osed			
14		Fluid / Pha	ase / State							Liquio	d/2phase			
15		Ambient T	emperature °	°C					-5		50			
16		Temperatu	ıre °C	(Operating					4	1.77			
17		Pressure B	Barg	(Operating					1	2.78			
18		Oper. Ten	perature °C	R	RelievingTemp. °C				41.7	7	349.4			
19		Required (Capacity kg/ł								vendor			
20		Molecular	Mass	S	p. Gr.@ relief Tmp kg/	m3			29.9		0.251			
21		Oper. Pres	ssure barg	S	et Pressure barg				12.7	8	207			
22	PROCESS CONDITIONS			C	Constant						1.5			
23	(note 2)	Back Press	sure Barg	v	ariable						0			
24	(,				otal						1.5			
25			ole Overpress	ure							-			
26			sure Factor								-			
27			bility Factor						-					
28			at of Vaporiz		/Kg)				2305					
29			pecific Heats(_					1.007 251.6					
30				tempratu	ire & pressure									
31			Viscosity cP						0.012					
32			c Pressure (p						13.2					
33		Design Co			izing Basis				API 5		-			
34				le-pressu	rising systems Code			_			PI 521			
		Scenarios	Construction					-						
36	CEL ECTION	Basis of Se	lastion								vendor			
38	SELECTION	Calculated		Inc	ah						vendor vendor			
39		Selected A		cn							vendor			
40			tion AC %	CII	ш						vendor			
41		Orifice De								Dy v	D D			
42		Size: Inlet		n	Outlet				3/4	п	1"			
43	CONNECTIONS		Facing : Inlet		Outlet				Thread (60		Thread(3000# SW)			
44		Body and			**					•	A105 (VTC)			
45			Disc (Trim)								SS (VTC)			
46		Nozzle	/								SS (VTC)			
47	MATERIALS (VTC)	Guide and	Rings								SS (VTC)			
48		Spring									SS (VTC)			
49		Spring Bellows									N/A			
50		Cap without Lever: Screwed or Bolted									wed cap			
51		Lifting Lever: Plain or Packed									N/A			
52		Test Gage							N/A Yes					
53	OD##****	With Rupt						No No						
54	OPTIONS	Flame Arr	estor					No No						
55		Hydro Tes	it					Required						
56		Seat Leaka	age Test					Required						
57			e Standard					According to NACE MR-0175 / ISO15156						
58		Manufactu	ırer					will be finalized later						
59	PURCHASE	Model						will be finalized later						
60		Serial No.								will be fir	nalized later			

^{**} 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".



نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برقرسانی 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	تسهيلات	رشته	نوع مدرک	سريال	نسخه	
053 - 073 - 9184		BK	W007S	PEDCO	110	IN	DT	0004	D02	

شماره صفحه:11 از 16

	053 - 073 - 9184		BK	W007S	PEDCO	110	IN	DT	0004	D02	شماره صفحه:۱۱ از ۱۵		
Item	Data Category			Teo	hnical Features			D02		Project Data	& Requirements		
1		Tag Numb	er							PRV	/-1701A		
2			and Page :							BK-W007S-PEDCO-1	10-PR-PI-0001-D04 (3/6)		
3		Service								MIXED.	/ 3 PHASES		
4		Inlet Line	No.	Outlet I	ine No.				CRD-110-1	74A-FN05-4"-PT	CDH-110-174A-AN05-6"-PT		
5	GENERAL	Discharge	to							TO DI	RAIN SEP.		
6		Protect Eq								FLO	DW LINE		
7			ification for D	ischarge						ZONE	2, IIB T4		
8		Sour Servi	ice	-							YES		
9		NACE MI	R0175/ISO 15	156 Compliance	:						YES		
10		Nozzle (Fu	ıll, Semi)							Full	l Nozzle		
11	BASIS	Docion Tre		Safety, l	Relief, Safety-Reli	ief				F	Relief		
12	DASIS	Design Ty	pe	Conven	tional, Bellow, Pilo	ot Op.				Conv	ventional		
13		Bonnet Ty	ре							С	losed		
14	1	Fluid / Pha	ase / State								d/2phase		
15		Ambient T	emperature o	C						-5	50		
16		Temperatu		Operati							36.31		
17		Pressure B		Operati							12.78		
18			perature °C	Relievin	gTemp. °C					36.31	264.9		
19			Capacity kg/h								347.034		
20		Molecular			relief Tmp kg/m	13				77.41	0.437		
21		Oper. Pres	ssure barg		sure barg					12.78	93		
22	PROCESS CONDITIONS			Constan							1.5		
23	(note 2)	Back Press	sure Barg	Variable	•						0		
24				Total							1.5		
25			ble Overpress	ıre							21%		
26			sure Factor	-							1.21		
27			ibility Factor								-		
28			at of Vaporiza pecific Heats(1906 1.005				
30				emprature & p	maggama						137.7		
31			Viscosity cP	епрташте & р	ressure						0.011		
32			c Pressure (ps	ia)							13.2		
33		Design Co		Sizing B	asis				Δ	PI 520	-		
34				e-pressurising s					•		PI 521		
35			Construction	· · · · · · · · · · · · · · · · · · ·	,						PI 521		
36		Scenarios									•		
37	SELECTION	Basis of Se	election								FIRE		
38		Calculated	l Area	Inch						1	1.539		
39		Selected A	rea	cm²							1.26		
40		Accumula	tion AC %								1.21		
41		Orifice De	signation		·						E		
42	CONNECTIONS	Size: Inlet		Outlet						1"	2"		
43	COMMECTIONS		Facing : Inlet	Outlet					FLANG	ED (600# RF)	FLANGED (150# RF)		
44		Body and									r. WCB (VTC)		
45			Disc (Trim)								SS (VTC)		
46	MATERIALS (VTC)	Nozzle	D.								SS (VTC)		
47	- (/	Guide and	Kings								SS (VTC)		
48		Spring									SS (VTC)		
49		Bellows Con without Layou Sarawad on Baltad									N/A		
50		Cap without Lever: Screwed or Bolted Lifting Lever: Plain or Packed									ewed cap		
52				аскец							N/A Vos		
53		Test Gage With Rupt							Yes				
54	OPTIONS	Flame Arr						No No					
55		Hydro Tes											
56		Seat Leaka							Required Required				
57			e Standard								E MR-0175 / ISO15156		
58		Manufactu									inalized later		
59	PURCHASE	Model									inalized later		
60	CHOIMBE	Serial No.									inalized later		
H										50 11	* **		

 $[*]VTA: Vendor \ to \ Advise \ in \ bidding \ stage \qquad VTC: Vendor \ to \ confirm \ in \ bidding \ stage \qquad N/A: \ Not \ applicable$

^{**} 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".



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







	ט	AK B/C MANIFOL	ENSION OF BINA	F VALVES - EXT	E & SAFETY RELIE	IS FOR PRESSUR	DATA SHEE	
شماره صفحه:12 از 16	نسخه	سريال	نوع مدر ک	رشته	تسهيلات	صادر کننده	بسته کاری	پروژه
10) 12	D02	0004	DT	IN	110	PEDCO	W007S	BK

	050 050 0404	سماره پیمان:	پروره	سه داری		سهيادت	رسته	نوع مدر ت	سريال	سحه	شماره صفحه:12 ا ز 16			
	053 - 073 - 9184		BK	W0078	PEDCO	110	IN	DT	0004	D02				
Item	Data Category				Technical Feature	s	/ I	002		Project Data	& Requirements			
1		Tag Numbe	er					-		PR\	<i>J</i> -1701B			
2		P&ID NO a							BK-		10-PR-PI-0001-D04 (3/6)			
3		Service	and rage.								/ 3 PHASES			
4		Inlet Line N	No	0	utlet Line No.				CRD-110-174B-		CDH-110-174B-AN05-6"-PT			
	CENEDAL			U	ittlet Line No.				CKD-110-174D-		RAIN SEP.			
5	GENERAL	Discharge t												
6		Protect Equ									OW LINE			
7			fication for I	Discharge							2, IIB T4			
8		Sour Service									YES			
9		•	0175/ISO 15	5156 Com _l	oliance						YES			
10		Nozzle (Ful	l, Semi)								l Nozzle			
11	BASIS	Design Typ	ne .	_	fety, Relief, Safety						Relief			
12	2.1516	Design 13p		C	onventional, Bellow	, Pilot Op.					ventional			
13		Bonnet Typ	pe							С	losed			
14		Fluid / Phas	se / State							Liqui	d/2phase			
15		Ambient Te	emperature	°C					-5		50			
16		Temperatu	re °C	0	perating		_				31.6			
17		Pressure Ba	arg	0	perating					-	12.78			
18		Oper. Tem	perature °C	Re	elievingTemp. °C				31.6	0	257.5			
19			Capacity kg/l							174	421.909			
20		Molecular I			. Gr.@ relief Tmp	kg/m3			39.0		0.267			
21		Oper. Press			t Pressure barg	-			12.7		93			
22					onstant						1.5			
23	PROCESS CONDITIONS	Back Press	uro Rora		ariable						0			
24	(note 2)	Dack I I Cost	urc Darg		otal						1.5			
25		% Allowah	le Overpress		лаі			-			21%			
26		Over Pressi		surc					1.21					
27				(7)					1.21					
			bility Factor		T7 \				2305					
28			t of Vaporiz		Kg)									
29			ecific Heats	_							1.007			
30					re & pressure						267.7			
31			Viscosity cP						0.011 13.2					
32			Pressure (p						13.2					
33		Design Cod			zing Basis				API 5		-			
34					ising systems Code	:					PI 521			
35			Construction	1						A	PI 521			
36		Scenarios									-			
37	SELECTION	Basis of Sel							FIRE					
38		Calculated		Inc					2.54					
39		Selected Ar		cm	2						1.98			
40		Accumulati									1.21			
41		Orifice Des	ignation								F			
42	CONNECTIONS	Size: Inlet			utlet				1 1/2		2"			
43	COMMECTIONS		acing : Inlet	t O	utlet				FLANGED (•	FLANGED (150# RF)			
44	·	Body and B									r. WCB (VTC)			
45		Seat and Di	isc (Trim)								SS (VTC)			
46	MATERIALS (VTC)	Nozzle									SS (VTC)			
47	MATERIALS (VIC)	Guide and	Rings				_			316	SS (VTC)			
48		Spring								316	SS (VTC)			
49		Bellows									N/A			
50		Cap withou	ıt Lever: Sci	rewed or I	olted					Scre	wed cap			
51		Lifting Lev	er: Plain or	Packed				N/A						
52		Test Gage						Yes						
53		With Ruptu	ure Disc					No						
54	OPTIONS	Flame Arre						No No						
55		Hydro Test						NO Required						
56		Seat Leaka						Required						
57		Compliance	~					According to NACE MR-0175 / ISO15156						
58		Manufactu						will be finalized later						
59	PURCHASE	Model						will be finalized later will be finalized later						
60	IUNCHASE	Serial No.						will be finalized later will be finalized later						
OU		ochai No.								II 9a iliw	HIGHEGU IGICI			

^{**} 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".



نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برقرسانی مربوط به موقعیت $\mathbf{W}007\mathbf{S}$ 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 تسهيلات رشته نوع مدرک نسخه 053 - 073 - 9184 ВK W0079 DEDCO 110 DU3

شماره صفحه:13 از 16

	053 - 073 - 9184		BK	W007S	PEDCO	110	IN	DT	0004	D02	10 31 13.0000 03000			
Item	Data Category			Tec	hnical Features			D02		Project I	Oata & Requirements			
1		Tag Numb	er					D02			PRV-1701C			
2		P&ID NO							BK-	W007S-PFD0	CO-110-PR-PI-0001-D04 (4/6)			
3		Service	and ruge .								XED/ 3 PHASES			
4		Inlet Line !	Vo.	Outlet L	ine No				CRD-110-174C-		CDH-110-174C-AN05-6"-PT			
5	GENERAL	Discharge t		Outlet E	IIIC 140.				000 110 1740		O DRAIN SEP.			
6	GENERAL	Protect Eq									FLOW LINE			
7			fication for D	icah awaa							ONE 2, IIB T4			
8				ischarge							YES			
9		Sour Service		7. C P							YES			
10				56 Compliance							Full Nozzle			
		Nozzle (Ful	ıı, Semı)	C-6-4 T	-E-6 C-6-4- D-1	:_£					Relief			
11	BASIS	Design Typ	e		telief, Safety-Rel									
13		n		Convent	ional, Bellow, Pi	ot Op.				'	Conventional			
-		Bonnet Typ									Closed			
14		Fluid / Pha		~							iquid/2phase			
15			emperature °						-5		50			
16		Temperatu		Operati							46.19			
17		Pressure B		Operati	<u> </u>					•	12.78			
18			perature °C	Relieving	gTemp. °C				46.1	9	264.9			
19			Capacity kg/h	1-							11347.034			
20		Molecular			relief Tmp kg/r	n3			77.4		0.413			
21		Oper. Press	sure barg		sure barg				12.7	8	93			
22	PROCESS CONDITIONS			Constan							1.5			
23	(note 2)	Back Press	ure Barg	Variable							0			
24	, , ,			Total							1.5			
25			le Overpressu	ire							21%			
26		Over Press									1.21			
27		Compressil	bility Factor (Z)							-			
28		Latent Hea	t of Vaporiza	tion (Kj/Kg)					1906					
29		Ratio of Sp	ecific Heats(Cp/Cv)					1.005					
30		Density @	Oper. kg/m3t	emprature & pi	ressure				413.1					
31		Operating	Viscosity cP						0.011					
32		Barometric	Pressure (ps						13.2					
33		Design Cod	le	Sizing Ba	asis				API 5	20	-			
34				e-pressurising s	ystems Code						API 521			
35			Construction								API 521			
36		Scenarios									-			
37	SELECTION	Basis of Sel									FIRE			
38		Calculated		Inch							1.539			
39		Selected Ar		cm ²							1.26			
40		Accumulat	ion AC %								1.21			
41		Orifice Des	signation								E			
42	CONNECTIONS	Size: Inlet		Outlet					1"		2"			
43	5526.10110	_	acing : Inlet	Outlet					FLANGED (FLANGED (150# RF)			
44		Body and I									6 Gr. WCB (VTC)			
45		Seat and D	isc (Trim)								316 SS (VTC)			
46	MATERIALS (VTC)	Nozzle									316 SS (VTC)			
47		Guide and	Rings								316 SS (VTC)			
48		Spring									316 SS (VTC)			
49		Bellows									N/A			
50		Cap without Lever: Screwed or Bolted									Screwed cap			
51			Lifting Lever: Plain or Packed								N/A			
52		Test Gage									Yes			
53	OPTIONS	With Rupt									No			
54	01 110110	Flame Arre									No			
55		Hydro Test									Required			
56		Seat Leaka	_								Required			
57		Complianc	e Standard						А		NACE MR-0175 / ISO15156			
58		Manufactu	rer					will be finalized later						
59	PURCHASE	Model						will be finalized later						
60		Serial No.							will be finalized later will be finalized later					

** 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".



نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برقرسانی 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	تسهيلات	رشته	نوع مدرک	سريال	نسخه	16 31 14:
053 - 073 - 9184		BK	W007S	PEDCO	110	IN	DT	0004	D02	10) 14.

16	از	صفحه:14	نماره

	053 - 073 - 9184		BK	W007	7S PEDCO	110	IN	Dī	Т	0004	D02	شماره صفحه:۱۹ از ۱۵		
Item	Data Category				Technical Feature	es		D02	\		Project Dat	a & Requirements		
1		Tag Numb	er) D02	_		PR	RV-1701D		
2		P&ID NO								BK-\	N007S-PEDCO-	110-PR-PI-0001-D04 (4/6)		
3		Service									MIXE	D/ 3 PHASES		
4		Inlet Line	No.		Outlet Line No.				С	RD-110-174D-I	FN05-4"-PT	CDH-110-174D-AN05-6"-PT		
5	GENERAL	Discharge									TO I	DRAIN SEP.		
6		Protect Eq									FL	OW LINE		
7			fication for D	Discharg	ge						ZON	IE 2, IIB T4		
8		Sour Servi	ce									YES		
9		NACE MR	R0175/ISO 15	156 Con	mpliance							YES		
10		Nozzle (Fu	ll, Semi)								Fu	ıll Nozzle		
11	BASIS	D T		9	Safety, Relief, Safe	ety-Relief						Relief		
12	BASIS	Design Typ	pe	•	Conventional, Bell	ow, Pilot Op.					Cor	nventional		
13		Bonnet Ty	pe									Closed		
14		Fluid / Pha	ase / State								Liqu	uid/2phase		
15		Ambient T	'emperature °	C.						-5		50		
16		Temperatu			Operating							44.41		
17		Pressure B			Operating							12.78		
18			perature °C		RelievingTemp. °C					44.41		262.6		
19			Required Capacity kg/h									9036.515		
20			Molecular Mass Sp. Gr.@ relief Tmp kg/m3							39.09		0.247		
21		Oper. Pressure barg Set Pressure barg								12.78	3	93		
22	PROCESS CONDITIONS		_	L	Constant							1.5		
23	(note 2)	Back Pressure Barg Variable										0		
24		Total										1.5		
25		% Allowable Overpressure Over Pressure Factor							21% 1.21					
26 27				(7)					1.21					
28			bility Factor at of Vaporiza		i/Ka)							2305		
29			pecific Heats(J/Kg)							1.007		
30				_	ure & pressure							247.6		
31			Viscosity cP	шргас	are & pressure				0.012					
32			c Pressure (ps	sia)						13.2				
33		Design Cod			Sizing Basis				API 520 -					
34					urising systems Co	ode						API 521		
35			Construction									API 521		
36		Scenarios										-		
37	SELECTION	Basis of Se	election									FIRE		
38		Calculated	l Area	Ir	nch				3.97					
39		Selected A	rea	c	m²				3.24					
40		Accumulat			- 							1.21		
41		Orifice Des	signation									G		
42	CONNECTIONS	Size: Inlet			Outlet		-			1 1/2		3"		
43			Facing : Inlet	(Outlet					FLANGED (6		FLANGED (150# RF)		
44		Body and I										Gr. WCB (VTC)		
45		Seat and D	usc (1 rim)									6 SS (VTC)		
46 47	MATERIALS (VTC)	Nozzle Cuido and	Dings									6 SS (VTC) 6 SS (VTC)		
48		Guide and	Kings					_						
48		Spring									310	6 SS (VTC) N/A		
50	 	Bellows Cap without Lever: Screwed or Bolted						-			Cor	rewed cap		
51		Lifting Lever: Plain or Packed						- $+$			301	'		
52		Test Gage						$ \vdash$	N/A Yes					
53		With Rupt						Yes No						
54	OPTIONS	Flame Arre						No No						
55		Hydro Tes						Required						
56		Seat Leaka						Required						
57			e Standard					According to NACE MR-0175 / ISO15156						
58		Manufactu						will be finalized later						
59	PURCHASE	Model						will be finalized later						
60		Serial No.						will be finalized later will be finalized later						
		•												

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

** 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".



نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برقرسانی 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	تسهيلات	رشته	نوع مدرك	سريال	نسخه	
053 - 073 - 9184		BK	W007S	PEDCO	110	IN	DT	0004	D02	

شماره صفحه:15 از 16

	053 - 073 - 9184		BK	W007S	PEDCO	110	IN	DT	0004	D02	10 31 13. 🕶			
Item	Data Category			Te	chnical Features			D02		Project Dat	a & Requirements			
1		Tag Numb	er					D02		PI	RV-1701E			
2		P&ID NO							BK-		-110-PR-PI-0001-D04 (5/6)			
3		Service									D/ 3 PHASES			
4		Inlet Line	No.	Outlet	Line No.				CRD-110-174E		CDH-110-174E-AN05-6"-PT			
5	GENERAL	Discharge		ounce	23110 1101						DRAIN SEP.			
6	OEA, EIGIE	Protect Eq									LOW LINE			
7			fication for D	scharge							NE 2, IIB T4			
8		Sour Servi		ge							YES			
9			R0175/ISO 151	56 Complian	nce						YES			
10		Nozzle (Fu		20 Compilar	ice					Fi	ull Nozzle			
11		1102220 (2 0	., se)	Safety	, Relief, Safety-Re	lief					Relief			
12	BASIS	Design Typ	pe		entional, Bellow, P					Co	nventional			
13		Bonnet Ty	pe		, ,						Closed			
14		Fluid / Pha								Liqi	uid/2phase			
15			emperature °	2					-5		50			
16		Temperatu		Opera	ating						40.71			
17		Pressure B		Opera							12.78			
18			perature °C		ingTemp. °C				40.7	<u>'</u> 1	262.6			
19		Required Capacity kg/h									9036.515			
20		Molecular		Sp. Gi	r.@ relief Tmp kg/	m3			29.9		0.253			
21		Oper. Pressure barg Set Pressure barg							12.7		93			
22				Const	ant						1.5			
23	PROCESS CONDITIONS	Back Press	ure Barg	Varial	ble						0			
24	(note 2)			Total							1.5			
25		% Allowab	% Allowable Overpressure								21%			
26		Over Press	ure Factor								1.21			
27		Compressi	bility Factor (Z)					-					
28		Latent Hea	nt of Vaporiza	tion (Kj/Kg)					2305					
29		Ratio of Sp	ecific Heats(C	Cp/Cv)					1.007					
30		Density @	Oper. kg/m3te	emprature &	pressure						253.2			
31		Operating	Viscosity cP						0.012					
32		Barometrio	Pressure (psi	a)					13.2					
33	1	Design Coo	de	Sizing	Basis				API 5	20	-			
34				e-pressurisin	g systems Code						API 521			
35			Construction								API 521			
36		Scenarios									-			
37	SELECTION	Basis of Se									FIRE			
38		Calculated		Inch							3.97			
39		Selected A		cm ²					3.24					
40		Accumulat									1.21			
41		Orifice Des	signation	0.0					1 1/:) II	G 3"			
42	CONNECTIONS	Size: Inlet	Facing : Inlet	Outlet					FLANGED (
44		Body and I		Outlet	•				FLANGED (•	FLANGED (150# RF) Gr. WCB (VTC)			
45		Seat and D									6 SS (VTC)			
46		Nozzle	rist (TTIII)								6 SS (VTC)			
47	MATERIALS (VTC)	Guide and	Rings								6 SS (VTC)			
48			Kiligs								6 SS (VTC)			
49		Spring Bellows								31	N/A			
50		Cap without Lever: Screwed or Bolted								Sr.	rewed cap			
51		Lifting Lever: Plain or Packed						_		301	N/A			
52		Test Gage	VI I								Yes			
53		With Rupt	ure Disc								No			
54	OPTIONS	Flame Arre									No			
55		Hydro Tes						NO Required						
56		Seat Leaka									Required			
57			e Standard					According to NACE MR-0175 / ISO15156						
58		Manufactu						will be finalized later						
59	PURCHASE							will be finalized later will be finalized later						
60		Serial No.									finalized later			
-														

^{**} 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".



نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برقرسانی 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	تسهيلات	رشته	نوع مدرك	سريال	نسخه	شماره صفحه:16 از 16
053 - 073 – 9184	BK	W007S	PEDCO	110	IN	DT	0004	D02	10)/ 10.49420 0)444

<u> </u>	055 - 075 - 9184	BK V	70075	PEDCO	110	IN	DI	0004	D02			
Item	Data Category		Techr	nical Features			D02		Project Data &	Requirements		
1		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 Li	ine No				CRD-110-174F		CDH-110-174F-AN05-6"-PT		
5	CENEDAL		Outlet Li	ine 140.				CKD-110-1741	TO DRAI			
-	GENERAL	Discharge to										
6		Protect Equipment						FLOW LINE				
7		Area Clacification for Dischar	rge						ZONE 2,			
8		Sour Service							YES			
9		NACE MR0175/ISO 15156 C	ompliance						YES	S		
10		Nozzle (Full, Semi)						Full Nozzle				
11	D 4 GFG	Design Type Safety, Relief, Safety-Relief Conventional, Bellow, Pilot Op.						Relief				
12								Conventional				
13		Bonnet Type						Closed				
14		Fluid / Phase / State						Liquid/2phase				
15		Ambient Temperature °C						-5 50				
16		Temperature °C Operating						41.77				
17		Pressure Barg							12.78			
	18	Oper. Temperature °C	Keneving	gremp. C				41.77 261.6				
19		Required Capacity kg/h	la ~ -						11614			
20		Molecular Mass		relief Tmp kg/r	n3			29.		0.251		
21		Oper. Pressure barg	Set Press					12.		93		
22	PROCESS COMPLETONS		Constant	t				1.5				
23	24 (note 2)	Back Pressure Barg	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 (Ki/Ka)					2305				
-								1.007				
-	30	Ratio of Specific Heats(Cp/Cv						251.6				
		Density @ Oper. kg/m3tempra	ature & pr	ressure								
31		Operating Viscosity cP						0.012				
32		Barometric Pressure (psia)						13.2				
33		Design Code Sizing Basis						API 520 -				
34		pressure relieving and de-pres	ssurising sy	ystems Code				API 521				
35		Design of Construction						API 521				
36		Scenarios						-				
37	SELECTION	Basis of Selection						FIRE				
38		Calculated Area	Inch						1.53	39		
39		Selected Area	cm ²					1.26				
	40 41	Accumulation AC %						1.21				
-		Orifice Designation						E				
42		Size: Inlet						1" 2"				
43	CONNECTIONS	Rating & Facing : Inlet	Outlet					FLANGED		FLANGED (150# RF)		
			Judet					ILANGED		, ,		
-	44 45 46 47 48 49	Body and Bonnet						A216 Gr. WCB (VTC)				
-		Seat and Disc (Trim)					316 SS (VTC)					
		Nozzle					316 SS (VTC)					
		Guide and Rings						316 SS (VTC)				
		Spring						316 SS (VTC)				
49		Bellows						N/A				
50		Cap without Lever: Screwed or Bolted						Screwed cap				
51	51 52 53 54 55 56	Lifting Lever: Plain or Packed						N/A				
-		Test Gage						Yes				
		With Rupture Disc						No				
		Flame Arrestor					-	No				
		Hydro Test						Required				
		•						•				
		Seat Leakage Test						Required				
57		Compliance Standard						According to NACE MR-0175 / ISO15156				
	58	Manufacturer						will be finalized later				
59	PURCHASE	Model						will be finalized later				
60		Serial No.	Serial No.						will be finalized later			

^{**} 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".