

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۰۱۰-CO-GCS-HD-BK)								
	INSTRUMENT D.S. FOR SAFETY VALVES								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه BK	بسته کاری GCS	صادرکننده MF	تجهیزات 120	رشته IN	نوع مدرک DS	سریال 0013	نسخه V00	شماره صفحه: ۱ از ۱۹

طرح نگهداشت و افزایش تولید ۲۷ مخزن

INSTRUMENT D.S. FOR SAFETY VALVES

نگهداشت و افزایش تولید میدان نفتی بینک

V00	Apr.2025	IFA	MFS	M.Fakharian	S.Faramarzpour	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
		CLIENT Doc. Number: -				

status:

IFA: Issued For Approval



IFI: Issued For Information



AFC: Approved For Construction



	<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸_۰۰۱۰-CO-GCS-HD-BK)</p>								
	INSTRUMENT D.S. FOR SAFETY VALVES								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه BK	بسته کاری GCS	صادر کننده MF	تسهیلات 120	رشته IN	نوع مدرک DS	سریال 0013	نسخه V00	شماره صفحه: ۱۹ از ۲



REVISION RECORD SHEET



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2	X					62					
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4	X					64					
5	X					65					
6	X					66					
7	X					67					
8	X					68					
9	X					69					
10	X					70					
11	X					71					
12	X					72					
13	X					73					
14	X					74					
15	X					75					
16	X					76					
17	X					77					
18	X					78					
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		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۰۱-۰۰۱-BK-HD-GCS-CO)								
		INSTRUMENT D.S. FOR SAFETY VALVES								
شماره پیمان:		پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۹ از ۳
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0013	V00	
GENERAL	1	Tag Number				D-PSV-2101				
	2	Service				FROM C-100				
	3	P & ID No.	Page No.			BK-GCS-MF-120-PR-PI-0003			1/7	
	4	Line No.	Piping Class			GAS-111-0001-FN07-2"-PT			FN07	
VALVE DESIGN	5	Nozzle :	Full, Semi			Full				
	6	Design :	Safety, Relief, Safety-Relief			Safety-Relief				
	7	Type :	Conventional, Bellows, Pilot Operated			Conventional				
	8	Bonnet Type :	Open, Closed			Closed				
	9	Seat Type :	Metal to Metal, Resilient			Metal to Metal				
	10	Seat Tightness :	API 527, Other			API-527				
PROCESS CONDITIONS	11	Fluid	Phase			GAS		V		
	12	Required Capacity	Unit			9655		kg/h		
	13	Operating Sp. Gr.				0.809285714				
	14	Molecular Weight				22.66				
	15	Oper. Pressure	Set Pressure	Unit		54	62		barg	
	16	Oper. Temperature	Relieving Temp.	Unit		63.5	382.9		C	
	17		Constant	Unit		0.2		barg		
	18	Back Pressure	Variable	Unit		1.393		barg		
	19		Total	Unit		1.593		barg		
	20	Discharge to	Flare /Atm./ Other			Flare				
	21	% Allowable Overpressure	Overpressure Factor			21%		1.21		
	22	Compressibility Factor (Z)				0.7435				
	23	Latent Heat of Vaporization	Unit			116.50		kj/kg		
	24	Ratio of Specific Heats				1.688				
	25	Relief Density	Unit			49.02		kg/m3		
	26	Relief Viscosity	Unit			0.7435 (liquid) / 0.08896 (vapor)		cp		
	27	Barometric Pressure				13.26 / 14.37 psia				
	28	Blowdown				0.2 bar				
	29	Cold Differential Test Pressure	Unit			-				
	30	Corrosive Service	Toxic Service			YES		YES		
BASIS AND SELECTION	31	Design Code	Stamp Required			API-520/526				
	32	Sizing Basis				FIRE				
	33	Calculated Area				0.446 in ² (287.74mm ²)				
	34	Selected Area				0.503 in ² (324.52 mm ²)				
	35	Orifice Designation				G				
	36									
CONNECTIONS	37	Size/Sch. : Inlet	Outlet			1 1/2"		3"		
	38	Rating Inlet Outlet	Facing			600#	150#	RF		
	39	Flange Face Finish				125 to 250 µin Ra				
	40	Flange Std.				ASME B16.5				
MATERIALS	41	Body and Bonnet	Nozzle & Disk			ASTM A105		SS316		
	42	Seat and Rings				SS316				
	43	Resilient Seat Seal				N/A				
	44	Guide and Rings				SS 316				
	45	Spring				SS 316				
	46	Bellows				N/A				
	47	Bolting								
	48	Comply with NACE MR 0175				YES				
ACCESSORIES	49	Cap: Screwed or Bolted				Screwed				
	50	Lever: Plain or Packed				Packed				
	51	Test Gag				Yes				
	52	Bug Screen				No				
	53	Other				INLET BOLT & NUT				
PURCHASE	54	Manufacturer				Will be finalized later				
	55	Model				Will be finalized later				
	56	Requisition Number				Will be finalized later				
	57									



		<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>سطح الارض و ابنیه تحت الارض</p> <p>خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک</p> <p>(قرارداد ۰۸-۰۰۱-۰۰۱-BK-HD-GCS-CO)</p>									
		<p align="center">INSTRUMENT D.S. FOR SAFETY VALVES</p>									
شماره صفحه: ۱۹ از ۴		نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه	شماره پیمان:	
		V00	0013	DS	IN	120	MF	GCS	BK	۰۵۳ - ۰۷۳ - ۹۱۸۴	
GENERAL	1	Tag Number				D-PSV-2102					
	2	Service				FROM C-100					
	3	P & ID No.		Page No.		BK-GCS-MF-120-PR-PI-0003				1/7	
	4	Line No.		Piping Class		GAS-111-0001-FN07-2"-PT				FN07	
VALVE DESIGN	5	Nozzle : Full, Semi				Full					
	6	Design : Safety, Relief, Safety-Relief				Safety-Relief					
	7	Type : Conventional, Bellows, Pilot Operated				Conventional					
	8	Bonnet Type : Open, Closed				Closed					
	9	Seat Type : Metal to Metal, Resilient				Metal to Metal					
	10	Seat Tightness API 527, Other				API-527					
PROCESS CONDITIONS	11	Fluid		Phase		GAS		V			
	12	Required Capacity				Unit		9655		kg/h	
	13	Operating Sp. Gr.				0.809285714					
	14	Molecular Weight				22.66					
	15	Oper. Pressure		Set Pressure		Unit		54		62 barg	
	16	Oper. Temperature		Relieving Temp.		Unit		63.5		382.9 C	
	17	Back Pressure		Constant		Unit		0.2		barg	
	18			Variable		Unit		1.393		barg	
	19			Total		Unit		1.593		barg	
	20	Discharge to Flare /Atm./ Other				Flare					
	21	% Allowable Overpress		Overpressure Factor		21%		1.21			
	22	Compressibility Factor (Z)				0.7435					
	23	Latent Heat of Vaporization				Unit		116.50		kj/kg	
	24	Ratio of Specific Heats				1.688					
	25	Relief Density				Unit		49.02		kg/m3	
	26	Relief Viscosity				Unit		0.7435 (liquid) / 0.08896 (vapor)		cp	
	27	Barometric Pressure				13.26 / 14.37 psia					
	28	Blowdown				0.2 bar					
	29	Cold Differential Test Pressure				Unit		-			
	30	Corrosive Service		Toxic Service		Unit		YES		YES	
BASIS AND SELECTION	31	Design Code		Stamp Required		API-520/526					
	32	Sizing Basis				FIRE					
	33	Calculated Area				0.446 in ² (287.74mm ²)					
	34	Selected Area				0.503 in ² (324.52 mm ²)					
	35	Orifice Designation				G					
	36										
CONNECTIONS	37	Size/Sch. : Inlet		Outlet		1 1/2"		3"			
	38	Rating Inlet/Outlet		Facing		600#		150#		RF	
	39	Flange Face Finish				125 to 250 µin Ra					
	40	Flange Std.				ASME B16.5					
MATERIALS	41	Body and Bonnet		Nozzle & Disc (Note 1)		ASTM A105		SS316			
	42	Seat and Rings				SS316					
	43	Resilient Seat Seal				N/A					
	44	Guide and Rings				SS 316					
	45	Spring				SS 316					
	46	Bellows				N/A					
	47	Bolting									
	48	Comply with NACE MR 0175				YES					
ACCESSORIES	49	Cap: Screwed or Bolted				Screwed					
	50	Lever: Plain or Packed				Packed					
	51	Test Gag				Yes					
	52	Bug Screen				No					
	53	Other				INLET BOLT&NUT					
PURCHASE	54	Manufacturer				Will be finalized later					
	55	Model				Will be finalized later					
	56	Requisition Number				Will be finalized later					
	57										



		<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۰۱-۰۰۱-BK-HD-GCS-CO)</p>								
		<p align="center">INSTRUMENT D.S. FOR SAFETY VALVES</p>								
شماره پیمان:		پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۵ از ۱۹
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0013	V00	
GENERAL	1	Tag Number				D-PSV-2103				
	2	Service				FROM V-120				
	3	P & ID No.	Page No.			BK-GCS-MF-120-PR-PI-0003			2/7	
	4	Line No.	Piping Class			GAS-111-0002-AN07-2"-PP			AN07	
VALVE DESIGN	5	Nozzle : Full, Semi				Full				
	6	Design : Safety, Relief, Safety-Relief				Safety-Relief				
	7	Type : Conventional, Bellows, Pilot Operated				Conventional				
	8	Bonnet Type : Open, Closed				Closed				
	9	Seat Type : Metal to Metal, Resilient				Metal to Metal				
	10	Seat Tightness API 527, Other				API-527				
PROCESS CONDITIONS	11	Fluid	Phase			GAS		V		
	12	Required Capacity				Unit	5384		kg/h	
	13	Operating Sp. Gr.				1.05				
	14	Molecular Weight				29.35				
	15	Oper. Pressure	Set Pressure			Unit	4.5	8		barg
	16	Oper. Temperature	Relieving Temp.			Unit	74	201.2		C
	17	Back Pressure	Constant			Unit	0.2		barg	
	18		Variable			Unit	1.393		barg	
	19		Total			Unit	1.593		barg	
	20	Discharge to Flare /Atm./ Other				Flare				
	21	% Allowable Overpress	Overpressure Factor			21%		1.21		
	22	Compressibility Factor (Z)				0.9679				
	23	Latent Heat of Vaporization				Unit	248.50		kj/kg	
	24	Ratio of Specific Heats				1.233				
	25	Relief Density				Unit	8.17		kg/m3	
	26	Relief Viscosity				Unit	0.0161			
	27	Barometric Pressure				13.26 - 14.37 psia				
	28	Blowdown				0.58				
	29	Cold Differential Test Pressure				Unit	-			
	30	Corrosive Service	Toxic Service			YES		YES		
BASIS AND SELECTION	31	Design Code	Stamp Required			API-520/526				
	32	Sizing Basis				FIRE				
	33	Calculated Area				1.11 in ² (716.13 mm ²)				
	34	Selected Area				1.287 in ² (830.32mm ²)				
	35	Orifice Designation				J				
	36									
CONNECTIONS	37	Size/Sch. : Inlet	Outlet			3"		4"		
	38	Rating	Inlet	Outlet	Facing	300#	150#	RF		
	39	Flange Face Finish				125 to 250 μin Ra				
	40	Flange Std.				ASME B16.5				
MATERIALS	41	Body and Bonnet	Nozzle & Disc (Note 1)			ASTM A105		SS316		
	42	Seat and Rings				SS316				
	43	Resilient Seat Seal				N/A				
	44	Guide and Rings				SS 316				
	45	Spring				SS 316				
	46	Bellows				N/A				
	47	Bolting								
	48	Comply with NACE MR 0175				YES				
ACCESSORIES	49	Cap: Screwed or Bolted				Screwed				
	50	Lever: Plain or Packed				Packed				
	51	Test Gag				Yes				
	52	Bug Screen				No				
	53	Other				INLET BOLT&NUT				
PURCHASE	54	Manufacturer				Will be finalized later				
	55	Model				Will be finalized later				
	56	Requisition Number				Will be finalized later				
	57									



		<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۰۱-۰۰۱-BK-HD-GCS-CO)</p>								
		<p align="center">INSTRUMENT D.S. FOR SAFETY VALVES</p>								
شماره پیمان:		پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۹ از ۶
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0013	V00	
GENERAL	1	Tag Number					D-PSV-2104			
	2	Service					FROM V-120			
	3	P & ID No.	Page No.			BK-GCS-MF-120-PR-PI-0003			2/7	
	4	Line No.	Piping Class			GAS-111-0002-AN07-2"-PP			AN07	
VALVE DESIGN	5	Nozzle :	Full, Semi			Full				
	6	Design :	Safety, Relief, Safety-Relief			Safety-Relief				
	7	Type :	Conventional, Bellows, Pilot Operated			Conventional				
	8	Bonnet Type :	Open, Closed			Closed				
	9	Seat Type :	Metal to Metal, Resilient			Metal to Metal				
	10	Seat Tightness API 527, Other				API-527				
PROCESS CONDITIONS	11	Fluid	Phase			GAS		V		
	12	Required Capacity	Unit			5384		kg/h		
	13	Operating Sp. Gr.				1.05				
	14	Molecular Weight				29.35				
	15	Oper. Pressure	Set Pressure	Unit			4.5	8		barg
	16	Oper. Temperature	Relieving Temp.	Unit			74	201.2		C
	17	Back Pressure	Constant	Unit			0.2		barg	
	18		Variable	Unit			1.393		barg	
	19		Total	Unit			1.593		barg	
	20	Discharge to	Flare /Atm./ Other			Flare				
	21	% Allowable Overpress	Overpressure Factor			21%		1.21		
	22	Compressibility Factor (Z)				0.9679				
	23	Latent Heat of Vaporization	Unit			248.50		kj/kg		
	24	Ratio of Specific Heats				1.233				
	25	Relief Density	Unit			8.17		kg/m3		
	26	Relief Viscosity	Unit			0.0161				
	27	Barometric Pressure				13.26 - 14.37 psia				
	28	Blowdown				0.58				
	29	Cold Differential Test Pressure	Unit			-				
	30	Corrosive Service	Toxic Service			YES		YES		
BASIS AND SELECTION	31	Design Code	Stamp Required			API-520/526				
	32	Sizing Basis				FIRE				
	33	Calculated Area				1.11 in ² (716.13 mm ²)				
	34	Selected Area				1.287 in ² (830.32mm ²)				
	35	Orifice Designation				J				
	36									
CONNECTIONS	37	Size/Sch. : Inlet	Outlet			3"		4"		
	38	Rating	Inlet	Outlet	Facing	300#	150#	RF		
	39	Flange Face Finish				125 to 250 µin Ra				
	40	Flange Std.				ASME B16.5				
MATERIALS	41	Body and Bonnet	Nozzle & Disc (Note 1)			ASTM A105		SS316		
	42	Seat and Rings				SS316				
	43	Resilient Seat Seal				N/A				
	44	Guide and Rings				SS 316				
	45	Spring				SS 316				
	46	Bellows				N/A				
	47	Bolting								
	48	Comply with NACE MR 0175				YES				
ACCESSORIES	49	Cap: Screwed or Bolted				Screwed				
	50	Lever: Plain or Packed				Packed				
	51	Test Gag				Yes				
	52	Bug Screen				No				
	53	Other				INLET BOLT&NUT				
PURCHASE	54	Manufacturer				Will be finalized later				
	55	Model				Will be finalized later				
	56	Requisition Number				Will be finalized later				
	57									



		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۰۱-۰۰۱-BK-HD-GCS-CO)								
		INSTRUMENT D.S. FOR SAFETY VALVES								
شماره پیمان:		پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۹ از ۷
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0013	V00	
GENERAL	1	Tag Number				D-PSV-2105				
	2	Service				FROM F-100-A				
	3	P & ID No.	Page No.			BK-GCS-MF-120-PR-PI-0003			3/7	
	4	Line No.	Piping Class			TEG-111-0011-AN07-1"-HI			AN07	
VALVE DESIGN	5	Nozzle :	Full, Semi			Full				
	6	Design :	Safety, Relief, Safety-Relief			Safety-Relief				
	7	Type :	Conventional, Bellows, Pilot Operated			Conventional				
	8	Bonnet Type :	Open, Closed			Closed				
	9	Seat Type :	Metal to Metal, Resilient			Metal to Metal				
	10	Seat Tightness API 527, Other				API-527				
PROCESS CONDITIONS	11	Fluid	Phase			TEG		L		
	12	Required Capacity	Unit			834.3		kg/h		
	13	Operating Sp. Gr.				1.071				
	14	Molecular Weight				101.8				
	15	Oper. Pressure	Set Pressure	Unit		4.5	8		barg	
	16	Oper. Temperature	Relieving Temp.	Unit		73.6	85		C	
	17	Back Pressure	Constant	Unit		-				
	18		Variable	Unit		-				
	19		Total	Unit		3.5		barg		
	20	Discharge to	Flare /Atm./ Other			Glycol Drain Vessel				
	21	% Allowable Overpress	Overpressure Factor			10%		1.1		
	22	Compressibility Factor (Z)				-				
	23	Latent Heat of Vaporization	Unit			-		kj/kg		
	24	Ratio of Specific Heats				-				
	25	Relief Density	Unit			1071		kg/m3		
	26	Relief Viscosity	Unit			5.4720		cp		
	27	Barometric Pressure				13.26/14.37 psia				
	28	Blowdown				-				
	29	Cold Differential Test Pressure	Unit			-				
	30	Corrosive Service	Toxic Service			YES		YES		
BASIS AND SELECTION	31	Design Code	Stamp Required			API-520/526				
	32	Sizing Basis				Thermal Expansion				
	33	Calculated Area				0.047 in ² (30.32 mm ²)				
	34	Selected Area				0.110 in ² (70.97mm ²)				
	35	Orifice Designation				D				
	36									
CONNECTIONS	37	Size/Sch. : Inlet	Outlet			1"		2"		
	38	Rating	Inlet	Outlet	Facing	300#	150#	RF		
	39	Flange Face Finish				125 to 250 μin Ra				
	40	Flange Std.				ASME B16.5				
MATERIALS	41	Body and Bonnet	Nozzle & Disc (Note 1)			ASTM A105		SS316		
	42	Seat and Rings				SS316				
	43	Resilient Seat Seal				N/A				
	44	Guide and Rings				SS 316				
	45	Spring				SS 316				
	46	Bellows				N/A				
	47	Bolting								
	48	Comply with NACE MR 0175				YES				
ACCESSORIES	49	Cap: Screwed or Bolted				Screwed				
	50	Lever: Plain or Packed				Packed				
	51	Test Gag				Yes				
	52	Bug Screen				No				
	53	Other				INLET BOLT&NUT				
PURCHASE	54	Manufacturer				Will be finalized later				
	55	Model				Will be finalized later				
	56	Requisition Number				Will be finalized later				
	57									



		<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۰۱-۰۰۱-BK-HD-GCS-CO)</p>								
		<p align="center">INSTRUMENT D.S. FOR SAFETY VALVES</p>								
شماره پیمان:		پروژه	بسته کاری	صادر کننده	تهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۹ از ۸
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0013	V00	
GENERAL	1	Tag Number				D-PSV-2106				
	2	Service				FROM F-100-B				
	3	P & ID No.	Page No.			BK-GCS-MF-120-PR-PI-0003			3/7	
	4	Line No.	Piping Class			TEG-111-0012-AN07-1"-HI			AN07	
VALVE DESIGN	5	Nozzle :	Full, Semi			Full				
	6	Design :	Safety, Relief, Safety-Relief			Safety-Relief				
	7	Type :	Conventional, Bellows, Pilot Operated			Conventional				
	8	Bonnet Type :	Open, Closed			Closed				
	9	Seat Type :	Metal to Metal, Resilient			Metal to Metal				
PROCESS CONDITIONS	10	Seat Tightness API 527, Other	API-527							
	11	Fluid	Phase			TEG		L		
	12	Required Capacity	Unit			834.3			kg/h	
	13	Operating Sp. Gr.	1.071							
	14	Molecular Weight	101.8							
	15	Oper. Pressure	Set Pressure	Unit			4.5	8		barg
	16	Oper. Temperature	Relieving Temp.	Unit			73.6	85		C
	17	Back Pressure	Constant	Unit			-			
	18		Variable	Unit			-			
	19		Total	Unit			3.5		barg	
	20	Discharge to	Flare /Atm./ Other			Glycol Drain Vessel				
	21	% Allowable Overpress	Overpressure Factor			10%		1.1		
	22	Compressibility Factor (Z)	-							
	23	Latent Heat of Vaporization	Unit			-			kJ/kg	
	24	Ratio of Specific Heats	-							
	25	Relief Density	Unit			1071			kg/m3	
	26	Relief Viscosity	Unit			5.4720			cp	
	27	Barometric Pressure	13.26/14.37 psia							
	28	Blowdown	-							
	29	Cold Differential Test Pressure	Unit			-				
30	Corrosive Service	Toxic Service			YES		YES			
BASIS AND SELECTION	31	Design Code	Stamp Required			API-520/526				
	32	Sizing Basis	Thermal Expansion							
	33	Calculated Area	0.047 in ² (30.32 mm ²)							
	34	Selected Area	0.110 in ² (70.97mm ²)							
	35	Orifice Designation	D							
	36									
CONNECTIONS	37	Size/Sch. : Inlet	Outlet			1"		2"		
	38	Rating	Inlet	Outlet	Facing	300#	150#	RF		
	39	Flange Face Finish	125 to 250 μin Ra							
	40	Flange Std.	ASME B16.5							
MATERIALS	41	Body and Bonnet	Nozzle & Disc (Note 1)			ASTM A105		SS316		
	42	Seat and Rings	SS316							
	43	Resilient Seat Seal	N/A							
	44	Guide and Rings	SS 316							
	45	Spring	SS 316							
	46	Bellows	N/A							
	47	Bolting								
	48	Comply with NACE MR 0175	YES							
ACCESSORIES	49	Cap: Screwed or Bolted	Screwed							
	50	Lever: Plain or Packed	Packed							
	51	Test Gag	Yes							
	52	Bug Screen	No							
	53	Other	INLET BOLT&NUT							
PURCHASE	54	Manufacturer	Will be finalized later							
	55	Model	Will be finalized later							
	56	Requisition Number	Will be finalized later							
	57									



		<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>سطح الارض و ابنیه تحت الارض</p> <p>خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک</p> <p>(قرارداد ۰۸-۰۰۱-۰۰۱-GCS-HD-BK)</p>								
		<p align="center">INSTRUMENT D.S. FOR SAFETY VALVES</p>								
شماره صفحه: ۱۹ از ۱۹		نسخه	سریال	نوع مدرک	رشته	تهیلات	صادرکننده	بسته کاری	پروژه	شماره پیمان:
		V00	0013	DS	IN	120	MF	GCS	BK	۰۵۳ - ۰۷۳ - ۹۱۸۴
GENERAL	1	Tag Number				D-PSV-2107				
	2	Service				FROM F-200-A				
	3	P & ID No.	Page No.			BK-GCS-MF-120-PR-PI-0003			3/7	
	4	Line No.	Piping Class			VTEG-111-0019-AN07-1"-HI			AN07	
VALVE DESIGN	5	Nozzle : Full, Semi				Full				
	6	Design : Safety, Relief, Safety-Relief				Safety-Relief				
	7	Type : Conventional, Bellows, Pilot Operated				Conventional				
	8	Bonnet Type : Open, Closed				Closed				
	9	Seat Type : Metal to Metal, Resilient				Metal to Metal				
	10	Seat Tightness API 527, Other				API-527				
PROCESS CONDITIONS	11	Fluid	Phase			TEG		L		
	12	Required Capacity				Unit	834.3		kg/h	
	13	Operating Sp. Gr.				1.061				
	14	Molecular Weight				101.8				
	15	Oper. Pressure	Set Pressure			Unit	3.8	7.5		barg
	16	Oper. Temperature	Relieving Temp.			Unit	73.6	85		C
	17	Back Pressure	Constant			Unit	-			
	18		Variable			Unit	-			
	19		Total			Unit	3.5		barg	
	20	Discharge to Flare / Atm. / Other				Glycol Drain Vessel				
	21	% Allowable Overpress	Overpressure Factor			10%		1.1		
	22	Compressibility Factor (Z)				-				
	23	Latent Heat of Vaporization				Unit	-		kj/kg	
	24	Ratio of Specific Heats				-				
	25	Relief Density				Unit	1061		kg/m3	
	26	Relief Viscosity				Unit	5.4720		cp	
	27	Barometric Pressure				13.26/14.37 psia				
	28	Blowdown				-				
	29	Cold Differential Test Pressure				Unit	-			
	30	Corrosive Service	Toxic Service			YES		YES		
BASIS AND SELECTION	31	Design Code	Stamp Required			API-520/526				
	32	Sizing Basis				Thermal Expansion				
	33	Calculated Area				0.049 in ² (31.61mm ²)				
	34	Selected Area				0.110 in ² (70.97mm ²)				
	35	Orifice Designation				D				
	36									
CONNECTIONS	37	Size/Sch. : Inlet	Outlet			1"		2"		
	38	Rating Inlet	Outlet	Facing			300#	150#	RF	
	39	Flange Face Finish				125 to 250 μin Ra				
	40	Flange Std.				ASME B16.5				
MATERIALS	41	Body and Bonnet	Nozzle & Disc (Note 1)			ASTM A105		SS316		
	42	Seat and Rings				SS316				
	43	Resilient Seat Seal				N/A				
	44	Guide and Rings				SS 316				
	45	Spring				SS 316				
	46	Bellows				N/A				
	47	Bolting								
	48	Comply with NACE MR 0175				YES				
ACCESSORIES	49	Cap: Screwed or Bolted				Screwed				
	50	Lever: Plain or Packed				Packed				
	51	Test Gag				Yes				
	52	Bug Screen				No				
	53	Other				INLET BOLT&NUT				
PURCHASE	54	Manufacturer				Will be finalized later				
	55	Model				Will be finalized later				
	56	Requisition Number				Will be finalized later				
	57									



		<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۰۱-۰۰۱-BK-HD-GCS-CO)</p>								
		<p align="center">INSTRUMENT D.S. FOR SAFETY VALVES</p>								
شماره پیمان:		پروژه	بسته کاری	صادر کننده	تهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۰ از ۱۹
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0013	V00	
GENERAL	1	Tag Number					D-PSV-2108			
	2	Service					FROM F-200-B			
	3	P & ID No.	Page No.				BK-GCS-MF-120-PR-PI-0003		3/7	
	4	Line No.	Piping Class				TEG-111-0018-AN07-1"-HI		AN07	
VALVE DESIGN	5	Nozzle :	Full, Semi			Full				
	6	Design :	Safety, Relief, Safety-Relief			Safety-Relief				
	7	Type :	Conventional, Bellows, Pilot Operated			Conventional				
	8	Bonnet Type :	Open, Closed			Closed				
	9	Seat Type :	Metal to Metal, Resilient			Metal to Metal				
	10	Seat Tightness API 527, Other				API-527				
PROCESS CONDITIONS	11	Fluid	Phase			TEG		L		
	12	Required Capacity	Unit			834.3		kg/h		
	13	Operating Sp. Gr.				1.061				
	14	Molecular Weight				101.8				
	15	Oper. Pressure	Set Pressure	Unit		3.8	7.5		barg	
	16	Oper. Temperature	Relieving Temp.	Unit		73.6	85		C	
	17	Back Pressure	Constant	Unit		-				
	18		Variable	Unit		-				
	19		Total	Unit		3.5		barg		
	20	Discharge to	Flare /Atm./ Other			Glycol Drain Vessel				
	21	% Allowable Overpress	Overpressure Factor			10%		1.1		
	22	Compressibility Factor (Z)				-				
	23	Latent Heat of Vaporization	Unit			-		kj/kg		
	24	Ratio of Specific Heats				-				
	25	Relief Density	Unit			1061		kg/m3		
	26	Relief Viscosity	Unit			5.4720		cp		
	27	Barometric Pressure				13.26/14.37 psia				
	28	Blowdown				-				
	29	Cold Differential Test Pressure	Unit			-				
	30	Corrosive Service	Toxic Service			YES		YES		
BASIS AND SELECTION	31	Design Code	Stamp Required			API-520/526				
	32	Sizing Basis				Thermal Expansion				
	33	Calculated Area				0.049 in ² (31.61mm ²)				
	34	Selected Area				0.110 in ² (70.97mm ²)				
	35	Orifice Designation				D				
	36									
CONNECTIONS	37	Size/Sch. : Inlet	Outlet			1"		2"		
	38	Rating	Inlet	Outlet	Facing	300#	150#	RF		
	39	Flange Face Finish				125 to 250 µin Ra				
	40	Flange Std.				ASME B16.5				
MATERIALS	41	Body and Bonnet	Nozzle & Disc (Note 1)			ASTM A105		SS316		
	42	Seat and Rings				SS316				
	43	Resilient Seat Seal				N/A				
	44	Guide and Rings				SS 316				
	45	Spring				SS 316				
	46	Bellows				N/A				
	47	Bolting								
	48	Comply with NACE MR 0175				YES				
ACCESSORIES	49	Cap: Screwed or Bolted				Screwed				
	50	Lever: Plain or Packed				Packed				
	51	Test Gag				Yes				
	52	Bug Screen				No				
	53	Other				INLET BOLT&NUT				
PURCHASE	54	Manufacturer				Will be finalized later				
	55	Model				Will be finalized later				
	56	Requisition Number				Will be finalized later				
	57									



		<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>سطح الارض و ابنیه تحت الارض</p> <p>خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک</p> <p>(قرارداد ۰۸-۰۰۱-۰۰۰۱-BK-HD-GCS-CO)</p>								
		<p align="center">INSTRUMENT D.S. FOR SAFETY VALVES</p>								
شماره پیمان:		پروژه	بسته کاری	صادر کننده	تهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۱ از ۱۹
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0013	V00	
GENERAL	1	Tag Number				D-PSV-2109				
	2	Service				FROM R-100				
	3	P & ID No.	Page No.			BK-GCS-MF-120-PR-PI-0003			4/7	
	4	Line No.	Piping Class			GAS-111-0004-AN05-6"-HI			AN05	
VALVE DESIGN	5	Nozzle :	Full, Semi			Full				
	6	Design :	Safety, Relief, Safety-Relief			Safety-Relief				
	7	Type :	Conventional, Bellows, Pilot Operated			Conventional				
	8	Bonnet Type :	Open, Closed			Closed				
	9	Seat Type :	Metal to Metal, Resilient			Metal to Metal				
PROCESS CONDITIONS	10	Seat Tightness API 527, Other	API-527							
	11	Fluid	Phase			GAS		V		
	12	Required Capacity	Unit			14690			kg/h	
	13	Operating Sp. Gr.	2.27							
	14	Molecular Weight	63.58							
	15	Oper. Pressure	Set Pressure	Unit		0.3/0.5		4.1		barg
	16	Oper. Temperature	Relieving Temp.	Unit		140/204		316.4		C
	17	Back Pressure	Constant	Unit		0.2				barg
	18		Variable	Unit		1.393				barg
	19		Total	Unit		1.593				barg
	20	Discharge to	Flare /Atm./ Other			Flare				
	21	% Allowable Overpress	Overpressure Factor			21%		1.21		
	22	Compressibility Factor (Z)	0.9210							
	23	Latent Heat of Vaporization	Unit			242.00			kj/kg	
	24	Ratio of Specific Heats	1.074							
	25	Relief Density	Unit			8.137			kg/m3	
	26	Relief Viscosity	Unit			0.0125			cp	
	27	Barometric Pressure	13.26/14.37 psia							
	28	Blowdown	0.9							
	29	Cold Differential Test Pressure	Unit			-				
30	Corrosive Service	Toxic Service			YES		YES			
BASIS AND SELECTION	31	Design Code	Stamp Required			API-520/526				
	32	Sizing Basis	FIRE							
	33	Calculated Area	6.328 in ² (4082.57 mm ²)							
	34	Selected Area	6.38 in ² (4116.12 mm ²)							
	35	Orifice Designation	P							
	36									
CONNECTIONS	37	Size/Sch. : Inlet	Outlet			4"		6"		
	38	Rating	Inlet	Outlet	Facing	300#	150#	RF		
	39	Flange Face Finish	125 to 250 µin Ra							
	40	Flange Std.	ASME B16.5							
MATERIALS	41	Body and Bonnet	Nozzle & Disc (Note 1)			ASTM A105		SS316		
	42	Seat and Rings	SS316							
	43	Resilient Seat Seal	N/A							
	44	Guide and Rings	SS 316							
	45	Spring	SS 316							
	46	Bellows	N/A							
	47	Bolting								
	48	Comply with NACE MR 0175	YES							
ACCESSORIES	49	Cap: Screwed or Bolted	Screwed							
	50	Lever: Plain or Packed	Packed							
	51	Test Gag	Yes							
	52	Bug Screen	No							
	53	Other	INLET BOLT&NUT							
PURCHASE	54	Manufacturer	Will be finalized later							
	55	Model	Will be finalized later							
	56	Requisition Number	Will be finalized later							
	57									

		<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۰۱-۰۰۱-BK-HD-GCS-CO)</p>								
		<p align="center">INSTRUMENT D.S. FOR SAFETY VALVES</p>								
شماره پیمان:		پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۲ از ۱۹
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0013	V00	
GENERAL	1	Tag Number				D-PSV-2110				
	2	Service				FROM R-100				
	3	P & ID No.	Page No.			BK-GCS-MF-120-PR-PI-0003			4/7	
	4	Line No.	Piping Class			GAS-111-0004-AN05-6"-HI			AN05	
VALVE DESIGN	5	Nozzle :	Full, Semi			Full				
	6	Design :	Safety, Relief, Safety-Relief			Safety-Relief				
	7	Type :	Conventional, Bellows, Pilot Operated			Conventional				
	8	Bonnet Type :	Open, Closed			Closed				
	9	Seat Type :	Metal to Metal, Resilient			Metal to Metal				
	10	Seat Tightness API 527, Other				API-527				
PROCESS CONDITIONS	11	Fluid	Phase			GAS		V		
	12	Required Capacity	Unit			14690		kg/h		
	13	Operating Sp. Gr.				2.27				
	14	Molecular Weight				63.58				
	15	Oper. Pressure	Set Pressure	Unit		0.3/0.5	4.1		barg	
	16	Oper. Temperature	Relieving Temp.	Unit		140/204	316.4		C	
	17	Back Pressure	Constant	Unit		0.2		barg		
	18		Variable	Unit		1.393		barg		
	19		Total	Unit		1.593		barg		
	20	Discharge to	Flare /Atm./ Other			Flare				
	21	% Allowable Overpress	Overpressure Factor			21%		1.21		
	22	Compressibility Factor (Z)				0.9210				
	23	Latent Heat of Vaporization	Unit			242.00		kj/kg		
	24	Ratio of Specific Heats				1.074				
	25	Relief Density	Unit			8.137		kg/m3		
	26	Relief Viscosity	Unit			0.0125		cp		
	27	Barometric Pressure				13.26/14.37 psia				
	28	Blowdown				0.9				
	29	Cold Differential Test Pressure	Unit			-				
	30	Corrosive Service	Toxic Service			YES		YES		
BASIS AND SELECTION	31	Design Code	Stamp Required			API-520/526				
	32	Sizing Basis				FIRE				
	33	Calculated Area				6.328 in ² (4082.57 mm ²)				
	34	Selected Area				6.38 in ² (4116.12 mm ²)				
	35	Orifice Designation				P				
	36									
CONNECTIONS	37	Size/Sch. : Inlet	Outlet			4"		6"		
	38	Rating	Inlet	Outlet	Facing	300#	150#	RF		
	39	Flange Face Finish				125 to 250 μin Ra				
	40	Flange Std.				ASME B16.5				
MATERIALS	41	Body and Bonnet	Nozzle & Disc (Note 1)			ASTM A105		SS316		
	42	Seat and Rings				SS316				
	43	Resilient Seat Seal				N/A				
	44	Guide and Rings				SS 316				
	45	Spring				SS 316				
	46	Bellows				N/A				
	47	Bolting								
	48	Comply with NACE MR 0175				YES				
ACCESSORIES	49	Cap: Screwed or Bolted				Screwed				
	50	Lever: Plain or Packed				Packed				
	51	Test Gag				Yes				
	52	Bug Screen				No				
	53	Other				INLET BOLT&NUT				
PURCHASE	54	Manufacturer				Will be finalized later				
	55	Model				Will be finalized later				
	56	Requisition Number				Will be finalized later				
	57									



		<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>سطح الارض و ابنیه تحت الارض</p> <p>خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک</p> <p>(قرارداد ۰۸-۰۰۱-۰۰۱-GCS-BK-HD)</p>								
		<p align="center">INSTRUMENT D.S. FOR SAFETY VALVES</p>								
شماره پیمان:		پروژه	بسته کاری	صادر کننده	تهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۳ از ۱۹
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0013	V00	
GENERAL	1	Tag Number					D-PSV-2111			
	2	Service					FROM E-200			
	3	P & ID No.	Page No.			BK-GCS-MF-120-PR-PI-0003			5/7	
	4	Line No.	Piping Class			TEG-111-0003-AN04-1"-HI			AN04	
VALVE DESIGN	5	Nozzle :	Full, Semi			Full				
	6	Design :	Safety, Relief, Safety-Relief			Safety-Relief				
	7	Type :	Conventional, Bellows, Pilot Operated			Conventional				
	8	Bonnet Type :	Open, Closed			Closed				
	9	Seat Type :	Metal to Metal, Resilient			Metal to Metal				
	10	Seat Tightness API 527, Other				API-527				
PROCESS CONDITIONS	11	Fluid	Phase			TEG		V/L		
	12	Required Capacity	Unit			834.3		kg/h		
	13	Operating Sp. Gr.				0.93				
	14	Molecular Weight				147.8				
	15	Oper. Pressure	Set Pressure	Unit		55	62		barg	
	16	Oper. Temperature	Relieving Temp.	Unit		120	130		C	
	17	Back Pressure	Constant	Unit		-				
	18		Variable	Unit		-				
	19		Total	Unit		3.5		barg		
	20	Discharge to	Flare /Atm./ Other			Glycol Drain Vessel				
	21	% Allowable Overpress	Overpressure Factor			10%		1.1		
	22	Compressibility Factor (Z)				-				
	23	Latent Heat of Vaporization	Unit			-		kj/kg		
	24	Ratio of Specific Heats				-				
	25	Relief Density	Unit			932.9		kg/m3		
	26	Relief Viscosity	Unit			1.409(Liquid Phase) / 0.01405 (Vapor Phase)		cp		
	27	Barometric Pressure				13.26/14.37 psia				
	28	Blowdown				-				
	29	Cold Differential Test Pressure	Unit			-				
	30	Corrosive Service	Toxic Service			YES		YES		
BASIS AND SELECTION	31	Design Code	Stamp Required			API-520/526				
	32	Sizing Basis				Thermal Expansion				
	33	Calculated Area				0.044 in ² (28.39 mm ²)				
	34	Selected Area				0.110 in ² (70.97mm ²)				
	35	Orifice Designation				D				
	36									
CONNECTIONS	37	Size/Sch. : Inlet	Outlet			1"		2"		
	38	Rating	Inlet	Outlet	Facing	300#	150#	RF		
	39	Flange Face Finish				125 to 250 μin Ra				
	40	Flange Std.				ASME B16.5				
MATERIALS	41	Body and Bonnet	Nozzle & Disc (Note 1)			ASTM A105		SS316		
	42	Seat and Rings				SS316				
	43	Resilient Seat Seal				N/A				
	44	Guide and Rings				SS 316				
	45	Spring				SS 316				
	46	Bellows				N/A				
	47	Bolting								
	48	Comply with NACE MR 0175				NO				
ACCESSORIES	49	Cap: Screwed or Bolted				Screwed				
	50	Lever: Plain or Packed				Packed				
	51	Test Gag				Yes				
	52	Bug Screen				No				
	53	Other				INLET BOLT&NUT				
PURCHASE	54	Manufacturer				Will be finalized later				
	55	Model				Will be finalized later				
	56	Requisition Number				Will be finalized later				
	57									

		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۰۱-۰۰۱-BK-HD-GCS-CO)								
		INSTRUMENT D.S. FOR SAFETY VALVES								
شماره پیمان:		پروژه	بسته کاری	صادر کننده	تهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۴ از ۱۹
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0013	V00	
GENERAL	1	Tag Number				D-PSV-2112				
	2	Service				FROM P-100-A				
	3	P & ID No.	Page No.			BK-GCS-MF-120-PR-PI-0003			5/7	
	4	Line No.	Piping Class			TEG-111-0004-AN04-1"-HI			AN04	
VALVE DESIGN	5	Nozzle :	Full, Semi			Full				
	6	Design :	Safety, Relief, Safety-Relief			Safety-Relief				
	7	Type :	Conventional, Bellows, Pilot Operated			Conventional				
	8	Bonnet Type :	Open, Closed			Closed				
	9	Seat Type :	Metal to Metal, Resilient			Metal to Metal				
	10	Seat Tightness API 527, Other				API-527				
PROCESS CONDITIONS	11	Fluid	Phase			TEG		L		
	12	Required Capacity	Unit			834.3		kg/h		
	13	Operating Sp. Gr.				1.05				
	14	Molecular Weight				147.8				
	15	Oper. Pressure	Set Pressure	Unit		55.1	62		barg	
	16	Oper. Temperature	Relieving Temp.	Unit		120	130		C	
	17	Back Pressure	Constant	Unit		-				
	18		Variable	Unit		-				
	19		Total	Unit		3.5		barg		
	20	Discharge to	Flare /Atm./ Other			Glycol Drain Vessel				
	21	% Allowable Overpress	Overpressure Factor			10%		1.1		
	22	Compressibility Factor (Z)				-				
	23	Latent Heat of Vaporization	Unit			-		kj/kg		
	24	Ratio of Specific Heats				-				
	25	Relief Density	Unit			1054		kg/m3		
	26	Relief Viscosity	Unit			2.3770		cp		
	27	Barometric Pressure				13.26/14.37 psia				
	28	Blowdown				-				
	29	Cold Differential Test Pressure	Unit			-				
	30	Corrosive Service	Toxic Service			YES		YES		
BASIS AND SELECTION	31	Design Code	Stamp Required			API-520/526				
	32	Sizing Basis				Thermal Expansion				
	33	Calculated Area				0.044 in ² (28.39 mm ²)				
	34	Selected Area				0.110 in ² (70.97mm ²)				
	35	Orifice Designation				D				
	36									
CONNECTIONS	37	Size/Sch. : Inlet	Outlet			1"		2"		
	38	Rating	Inlet	Outlet	Facing	300#	150#	RF		
	39	Flange Face Finish				125 to 250 µin Ra				
	40	Flange Std.				ASME B16.5				
MATERIALS	41	Body and Bonnet	Nozzle & Disc (Note 1)			ASTM A105		SS316		
	42	Seat and Rings				SS316				
	43	Resilient Seat Seal				N/A				
	44	Guide and Rings				SS 316				
	45	Spring				SS 316				
	46	Bellows				N/A				
	47	Bolting								
	48	Comply with NACE MR 0175				NO				
ACCESSORIES	49	Cap: Screwed or Bolted				Screwed				
	50	Lever: Plain or Packed				Packed				
	51	Test Gag				Yes				
	52	Bug Screen				No				
	53	Other				INLET BOLT&NUT				
PURCHASE	54	Manufacturer				Will be finalized later				
	55	Model				Will be finalized later				
	56	Requisition Number				Will be finalized later				
	57									



		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۰۱-۰۰۱-BK-HD-GCS-CO)								
		INSTRUMENT D.S. FOR SAFETY VALVES								
شماره پیمان:		پروژه	بسته کاری	صادر کننده	تهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۵ از ۱۹
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0013	V00	
GENERAL	1	Tag Number					D-PSV-2113			
	2	Service					FROM P-100-B			
	3	P & ID No.	Page No.			BK-GCS-MF-120-PR-PI-0003			5/7	
	4	Line No.	Piping Class			TEG-111-0005-AN04-1"-HI			AN04	
VALVE DESIGN	5	Nozzle :	Full, Semi			Full				
	6	Design :	Safety, Relief, Safety-Relief			Safety-Relief				
	7	Type :	Conventional, Bellows, Pilot Operated			Conventional				
	8	Bonnet Type :	Open, Closed			Closed				
	9	Seat Type :	Metal to Metal, Resilient			Metal to Metal				
	10	Seat Tightness API 527, Other				API-527				
PROCESS CONDITIONS	11	Fluid	Phase			TEG		L		
	12	Required Capacity	Unit			834.3		kg/h		
	13	Operating Sp. Gr.				1.05				
	14	Molecular Weight				147.8				
	15	Oper. Pressure	Set Pressure	Unit		55.1	62		barg	
	16	Oper. Temperature	Relieving Temp.	Unit		120	130		C	
	17	Back Pressure	Constant	Unit		-				
	18		Variable	Unit		-				
	19		Total	Unit		3.5		barg		
	20	Discharge to	Flare /Atm./ Other			Glycol Drain Vessel				
	21	% Allowable Overpress	Overpressure Factor			10%		1.1		
	22	Compressibility Factor (Z)				-				
	23	Latent Heat of Vaporization	Unit			-		kj/kg		
	24	Ratio of Specific Heats				-				
	25	Relief Density	Unit			1054		kg/m3		
	26	Relief Viscosity	Unit			2.3770		cp		
	27	Barometric Pressure				13.26/14.37 psia				
	28	Blowdown				-				
	29	Cold Differential Test Pressure	Unit			-				
	30	Corrosive Service	Toxic Service			YES		YES		
BASIS AND SELECTION	31	Design Code	Stamp Required			API-520/526				
	32	Sizing Basis				Thermal Expansion				
	33	Calculated Area				0.110 in ² (70.97mm ²)				
	34	Selected Area				0.110 in ² (70.97mm ²)				
	35	Orifice Designation				D				
	36									
CONNECTIONS	37	Size/Sch. : Inlet	Outlet			1"		2"		
	38	Rating	Inlet	Outlet	Facing	300#	150#	RF		
	39	Flange Face Finish				125 to 250 µin Ra				
	40	Flange Std.				ASME B16.5				
MATERIALS	41	Body and Bonnet	Nozzle & Disc (Note 1)			ASTM A105		SS316		
	42	Seat and Rings				SS316				
	43	Resilient Seat Seal				N/A				
	44	Guide and Rings				SS 316				
	45	Spring				SS 316				
	46	Bellows				N/A				
	47	Bolting								
	48	Comply with NACE MR 0175				NO				
ACCESSORIES	49	Cap: Screwed or Bolted				Screwed				
	50	Lever: Plain or Packed				Packed				
	51	Test Gag				Yes				
	52	Bug Screen				No				
	53	Other				INLET BOLT&NUT				
PURCHASE	54	Manufacturer				Will be finalized later				
	55	Model				Will be finalized later				
	56	Requisition Number				Will be finalized later				
	57									

		<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زداى گاز ايستگاه تقويت فشار گاز بينک (قرارداد ۰۸-۰۰۱-۰۰۱-BK-HD-GCS-CO)</p>								
		<p align="center">INSTRUMENT D.S. FOR SAFETY VALVES</p>								
شماره پیمان:		پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۶ از ۱۹
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0013	V00	
GENERAL	1	Tag Number					D-PSV-2114			
	2	Service					FROM P-200-A			
	3	P & ID No.	Page No.				BK-GCS-MF-120-PR-PI-0003		6/7	
	4	Line No.	Piping Class				CHM-111-0005-AS00-1"-HI		AS00	
VALVE DESIGN	5	Nozzle :	Full, Semi				Full			
	6	Design :	Safety, Relief, Safety-Relief				Safety-Relief			
	7	Type :	Conventional, Bellows, Pilot Operated				Conventional			
	8	Bonnet Type :	Open, Closed				Closed			
	9	Seat Type :	Metal to Metal, Resilient				Metal to Metal			
	10	Seat Tightness API 527, Other					API-527			
PROCESS CONDITIONS	11	Fluid	Phase				Will be finalized later		Will be finalized later	
	12	Required Capacity	Unit				Will be finalized later			
	13	Operating Sp. Gr.					Will be finalized later			
	14	Molecular Weight					Will be finalized later			
	15	Oper. Pressure	Set Pressure	Unit		Will be finalized later		Will be finalized later		
	16	Oper. Temperature	Relieving Temp.	Unit		Will be finalized later		Will be finalized later		
	17	Back Pressure	Constant	Unit		Will be finalized later				
	18		Variable	Unit		Will be finalized later				
	19		Total	Unit		Will be finalized later				
	20	Discharge to	Flare /Atm./ Other				Will be finalized later			
	21	% Allowable Overpress	Overpressure Factor				Will be finalized later		Will be finalized later	
	22	Compressibility Factor (Z)					Will be finalized later			
	23	Latent Heat of Vaporization	Unit				Will be finalized later			
	24	Ratio of Specific Heats					Will be finalized later			
	25	Relief Density	Unit				Will be finalized later			
	26	Relief Viscosity	Unit				Will be finalized later			
	27	Barometric Pressure					Will be finalized later			
	28	Blowdown					Will be finalized later			
	29	Cold Differential Test Pressure	Unit				Will be finalized later			
	30	Corrosive Service	Toxic Service				Will be finalized later		Will be finalized later	
BASIS AND SELECTION	31	Design Code	Stamp Required				API-520/526			
	32	Sizing Basis					Blocked Outlet			
	33	Calculated Area					in ² (mm ²)			
	34	Selected Area					in ² (mm ²)			
	35	Orifice Designation								
	36									
CONNECTIONS	37	Size/Sch. : Inlet	Outlet				1"		2"	
	38	Rating	Inlet	Outlet	Facing		300#	150#	RF	
	39	Flange Face Finish					125 to 250 µin Ra			
	40	Flange Std.					ASME B16.5			
MATERIALS	41	Body and Bonnet	Nozzle & Disc (Note 1)				ASTM A105		SS316	
	42	Seat and Rings					SS316			
	43	Resilient Seat Seal					N/A			
	44	Guide and Rings					SS 316			
	45	Spring					SS 316			
	46	Bellows					N/A			
	47	Bolting								
	48	Comply with NACE MR 0175					Yes			
ACCESSORIES	49	Cap: Screwed or Bolted					Screwed			
	50	Lever: Plain or Packed					Packed			
	51	Test Gag					Yes			
	52	Bug Screen					No			
	53	Other					INLET BOLT&NUT			
PURCHASE	54	Manufacturer					Will be finalized later			
	55	Model					Will be finalized later			
	56	Requisition Number					Will be finalized later			
	57									



THIS PSV WILL BE FINALIZED AFTER RECEIVING VENDOR DATA

		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۰۱-۰۰۰۱-BK-HD-GCS-CO)								
		INSTRUMENT D.S. FOR SAFETY VALVES								
شماره پیمان:		پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۷ از ۱۹
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0013	V00	
GENERAL	1	Tag Number				D-PSV-2115				
	2	Service				FROM P-200-B				
	3	P & ID No.	Page No.			BK-GCS-MF-120-PR-PI-0003			6/7	
	4	Line No.	Piping Class			CHM-111-0005-AS00-1"-HI			AS00	
VALVE DESIGN	5	Nozzle :	Full, Semi			Full				
	6	Design :	Safety, Relief, Safety-Relief			Safety-Relief				
	7	Type :	Conventional, Bellows, Pilot Operated			Conventional				
	8	Bonnet Type :	Open, Closed			Closed				
	9	Seat Type :	Metal to Metal, Resilient			Metal to Metal				
	10	Seat Tightness API 527, Other				API-527				
PROCESS CONDITIONS	11	Fluid	Phase			Will be finalized later		Will be finalized later		
	12	Required Capacity	Unit			Will be finalized later				
	13	Operating Sp. Gr.				Will be finalized later				
	14	Molecular Weight				Will be finalized later				
	15	Oper. Pressure	Set Pressure	Unit		Will be finalized later		Will be finalized later		
	16	Oper. Temperature	Relieving Temp.	Unit		Will be finalized later		Will be finalized later		
	17	Back Pressure	Constant	Unit		Will be finalized later				
	18		Variable	Unit		Will be finalized later				
	19		Total	Unit		Will be finalized later				
	20	Discharge to	Flare /Atm./ Other			Will be finalized later				
	21	% Allowable Overpress	Overpressure Factor			Will be finalized later		Will be finalized later		
	22	Compressibility Factor (Z)				Will be finalized later				
	23	Latent Heat of Vaporization	Unit			Will be finalized later				
	24	Ratio of Specific Heats				Will be finalized later				
	25	Relief Density	Unit			Will be finalized later				
	26	Relief Viscosity	Unit			Will be finalized later				
	27	Barometric Pressure				Will be finalized later				
	28	Blowdown				Will be finalized later				
	29	Cold Differential Test Pressure	Unit			Will be finalized later				
	30	Corrosive Service	Toxic Service			Will be finalized later		Will be finalized later		
BASIS AND SELECTION	31	Design Code	Stamp Required			API-520/526				
	32	Sizing Basis				Blocked Outlet				
	33	Calculated Area				in ² (mm ²)				
	34	Selected Area				in ² (mm ²)				
	35	Orifice Designation								
	36									
CONNECTIONS	37	Size/Sch. : Inlet	Outlet			1"		2"		
	38	Rating	Inlet	Outlet	Facing	300#	150#	RF		
	39	Flange Face Finish				125 to 250 μin Ra				
	40	Flange Std.				ASME B16.5				
MATERIALS	41	Body and Bonnet	Nozzle & Disc (Note 1)			ASTM A105		SS316		
	42	Seat and Rings				SS316				
	43	Resilient Seat Seal				N/A				
	44	Guide and Rings				SS 316				
	45	Spring				SS 316				
	46	Bellows				N/A				
	47	Bolting								
	48	Comply with NACE MR 0175				Yes				
ACCESSORIES	49	Cap: Screwed or Bolted				Screwed				
	50	Lever: Plain or Packed				Packed				
	51	Test Gag				Yes				
	52	Bug Screen				No				
	53	Other				INLET BOLT&NUT				
PURCHASE	54	Manufacturer				Will be finalized later				
	55	Model				Will be finalized later				
	56	Requisition Number				Will be finalized later				
	57									

THIS PSV WILL BE FINALIZED AFTER RECEIVING VENDOR DATA

		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۰۱-۰۰۰۱-BK-HD-GCS-CO)								
		INSTRUMENT D.S. FOR SAFETY VALVES								
شماره پیمان:		پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۸ از ۱۹
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0013	V00	
GENERAL	1	Tag Number					D-PSV-2116			
	2	Service					FROM P-300-A			
	3	P & ID No.	Page No.			BK-GCS-MF-120-PR-PI-0003			7/7	
	4	Line No.	Piping Class			CHM-111-0006-AS00-1"-HI			AS00	
VALVE DESIGN	5	Nozzle :	Full, Semi			Full				
	6	Design :	Safety, Relief, Safety-Relief			Safety-Relief				
	7	Type :	Conventional, Bellows, Pilot Operated			Conventional				
	8	Bonnet Type :	Open, Closed			Closed				
	9	Seat Type :	Metal to Metal, Resilient			Metal to Metal				
	10	Seat Tightness API 527, Other				API-527				
PROCESS CONDITIONS	11	Fluid	Phase			Will be finalized later		Will be finalized later		
	12	Required Capacity	Unit			Will be finalized later				
	13	Operating Sp. Gr.				Will be finalized later				
	14	Molecular Weight				Will be finalized later				
	15	Oper. Pressure	Set Pressure	Unit		Will be finalized later		Will be finalized later		
	16	Oper. Temperature	Relieving Temp.	Unit		Will be finalized later		Will be finalized later		
	17	Back Pressure	Constant	Unit		Will be finalized later				
	18		Variable	Unit		Will be finalized later				
	19		Total	Unit		Will be finalized later				
	20	Discharge to	Flare /Atm./ Other			Will be finalized later				
	21	% Allowable Overpress	Overpressure Factor			Will be finalized later		Will be finalized later		
	22	Compressibility Factor (Z)				Will be finalized later				
	23	Latent Heat of Vaporization	Unit			Will be finalized later				
	24	Ratio of Specific Heats				Will be finalized later				
	25	Relief Density	Unit			Will be finalized later				
	26	Relief Viscosity	Unit			Will be finalized later				
	27	Barometric Pressure				Will be finalized later				
	28	Blowdown				Will be finalized later				
	29	Cold Differential Test Pressure	Unit			Will be finalized later				
	30	Corrosive Service	Toxic Service			Will be finalized later		Will be finalized later		
BASIS AND SELECTION	31	Design Code	Stamp Required			API-520/526				
	32	Sizing Basis				Blocked Outlet				
	33	Calculated Area				in ² (mm ²)				
	34	Selected Area				in ² (mm ²)				
	35	Orifice Designation								
	36									
CONNECTIONS	37	Size/Sch. : Inlet	Outlet			1"		2"		
	38	Rating	Inlet	Outlet	Facing	300#	150#	RF		
	39	Flange Face Finish				125 to 250 μin Ra				
	40	Flange Std.				ASME B16.5				
MATERIALS	41	Body and Bonnet	Nozzle & Disc (Note 1)			ASTM A105		SS316		
	42	Seat and Rings				SS316				
	43	Resilient Seat Seal				N/A				
	44	Guide and Rings				SS 316				
	45	Spring				SS 316				
	46	Bellows				N/A				
	47	Bolting								
	48	Comply with NACE MR 0175				Yes				
ACCESSORIES	49	Cap: Screwed or Bolted				Screwed				
	50	Lever: Plain or Packed				Packed				
	51	Test Gag				Yes				
	52	Bug Screen				No				
	53	Other				INLET BOLT&NUT				
PURCHASE	54	Manufacturer				Will be finalized later				
	55	Model				Will be finalized later				
	56	Requisition Number				Will be finalized later				
	57									

THIS PSV WILL BE FINALIZED AFTER RECEIVING VENDOR DATA

		<p>نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۰۱-۰۰۱-BK-HD-GCS-CO)</p>								
		<p align="center">INSTRUMENT D.S. FOR SAFETY VALVES</p>								
شماره پیمان:		پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۹ از ۱۹
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0013	V00	
GENERAL	1	Tag Number				D-PSV-2117				
	2	Service				FROM P-300-B				
	3	P & ID No.	Page No.			BK-GCS-MF-120-PR-PI-0003			7/7	
	4	Line No.	Piping Class			CHM-111-0006-AS00-1"-HI			AS00	
VALVE DESIGN	5	Nozzle :	Full, Semi			Full				
	6	Design :	Safety, Relief, Safety-Relief			Safety-Relief				
	7	Type :	Conventional, Bellows, Pilot Operated			Conventional				
	8	Bonnet Type :	Open, Closed			Closed				
	9	Seat Type :	Metal to Metal, Resilient			Metal to Metal				
	10	Seat Tightness API 527, Other				API-527				
PROCESS CONDITIONS	11	Fluid	Phase			Will be finalized later		Will be finalized later		
	12	Required Capacity	Unit			Will be finalized later				
	13	Operating Sp. Gr.				Will be finalized later				
	14	Molecular Weight				Will be finalized later				
	15	Oper. Pressure	Set Pressure	Unit		Will be finalized later		Will be finalized later		
	16	Oper. Temperature	Relieving Temp.	Unit		Will be finalized later		Will be finalized later		
	17	Back Pressure	Constant	Unit		Will be finalized later				
	18		Variable	Unit		Will be finalized later				
	19		Total	Unit		Will be finalized later				
	20	Discharge to	Flare /Atm./ Other			Will be finalized later				
	21	% Allowable Overpress	Overpressure Factor			Will be finalized later		Will be finalized later		
	22	Compressibility Factor (Z)				Will be finalized later				
	23	Latent Heat of Vaporization	Unit			Will be finalized later				
	24	Ratio of Specific Heats				Will be finalized later				
	25	Relief Density	Unit			Will be finalized later				
	26	Relief Viscosity	Unit			Will be finalized later				
	27	Barometric Pressure				Will be finalized later				
	28	Blowdown				Will be finalized later				
	29	Cold Differential Test Pressure	Unit			Will be finalized later				
	30	Corrosive Service	Toxic Service			Will be finalized later		Will be finalized later		
BASIS AND SELECTION	31	Design Code	Stamp Required			API-520/526				
	32	Sizing Basis				Blocked Outlet				
	33	Calculated Area				in ² (mm ²)				
	34	Selected Area				in ² (mm ²)				
	35	Orifice Designation								
	36									
CONNECTIONS	37	Size/Sch. : Inlet	Outlet			1"		2"		
	38	Rating	Inlet	Outlet	Facing	300#	150#	RF		
	39	Flange Face Finish				125 to 250 μin Ra				
	40	Flange Std.				ASME B16.5				
MATERIALS	41	Body and Bonnet	Nozzle & Disc (Note 1)			ASTM A105		SS316		
	42	Seat and Rings				SS316				
	43	Resilient Seat Seal				N/A				
	44	Guide and Rings				SS 316				
	45	Spring				SS 316				
	46	Bellows				N/A				
	47	Bolting								
	48	Comply with NACE MR 0175				Yes				
ACCESSORIES	49	Cap: Screwed or Bolted				Screwed				
	50	Lever: Plain or Packed				Packed				
	51	Test Gag				Yes				
	52	Bug Screen				No				
	53	Other				INLET BOLT&NUT				
PURCHASE	54	Manufacturer				Will be finalized later				
	55	Model				Will be finalized later				
	56	Requisition Number				Will be finalized later				
	57									

THIS PSV WILL BE FINALIZED AFTER RECEIVING VENDOR DATA