



شماره پیمان: بسته کاری صادر كننده تسهيلات نوع مدرك سريال نسخه ۱۸۶ – ۲۷۰ – ۹۱۸۶ GCS DS BK MF 120 IN 0013 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





#### **INSTRUMENT D.S. FOR SAFETY VALVES**

شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدر ک	سر يال	نسخه
٤٨١٤ – ٢٧٠ – ٢٥٠	BK	GCS	MF	120	IN	DS	0013	V00

شماره صفحه: ۲ از ۱۹

#### **REVISION RECORD SHEET**

Page	V00	V01	V02	V03	V04
1 2	X				
2	X				
3	Х				
4	X				
5	X				
6	X X				
7	Х				
8	Х				
9	X				
10	X				
11	X X				
12	Х				
13	Χ				
14	X				
15	Χ				
16	Х				
17	X				
18	X				1
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35					+
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36 37					+
38					+
39					+
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41 42			}	-	+
4 <u>4</u> //2				-	+
43			}	-	+
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45 46			}	-	+
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Page	V00	V01	V02	V03	V04
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72 73			+		
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75			+		
76			+		
77			†		
77 78					
79			1		
80			<b>†</b>		
81			1		
82 83					
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88			<u> </u>		
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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

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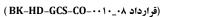
(قرارداد BK-HD-GCS-CO-۰۰۱۰\_۰۸)

				INSTR	UMENT D.	S. FOR S	SAFET	Y VALVES					
		شماره پيمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه	فحه: ۱۳ از ۱۹	شماده ص	
• ۵۳ – •	۷۳ — ۹	11114	BK	GCS	MF	120	IN	DS	0013	V00	5		
	1	Tag Number		•					D-PS	V-2101			
GENERAL	2	Service							FRON	/I C-100			
GENERAL	3	P & ID No.		Page No.			BK-	GCS-MF-120	-PR-PI-00	003	1/7		
	4	Line No.		Piping Clas	SS		G/	AS-111-0001-F	-N07-2"-F	PT	FN07		
	5		Full, Semi							ull			
	6		Safety, Relief,							y-Relief			
VALVE DESIGN	7		Conventional,		ot Operated					entional			
.,			Open, Closed							osed			
	9	Seat Type :	Metal to Metal	l, Resilient						to Metal			
		Seat Tightness:	API 527, Othe					0.4.0	AP	l-527			
		Fluid		Phase		lu s		GAS	2055		V		
		Required Capacit				Unit			9655	00574.4		kg/h	
		Operating Sp. Gr								285714			
		Molecular Weight		Cat Danas		11.1:4		<b>5</b> 4		2.66		h = ==	
		Oper. Pressure Oper. Temperatu	ro	Set Pressu Relieving T		Unit Unit		54 63.5		62 382.		barg C	
		Oper. Temperatu	ie	Constant	emp.	Unit		63.5	0.2	302.	9		
	17	Back Pressure		Variable		Unit	-		1.393			barg barg	
	19	Dack Flessule		Total		Unit			1.593			barg	
PROCESS		Discharge to		Flare /Atm.	/ Othor	Offic				lare		bary	
CONDITIONS		% Allowable Ove	rproceuro	Overpressi				21%	<del>'</del>	iaie	1.21		
CONDITIONS		Compressibility F		Overpresse	are r deter		-	2170	0.7	7435	1.21		
			Itent Heat of Vaporization Unit						116.50	400		kj/kg	
		Ratio of Specific				OTIIC		1.688					
		Relief Density	riodio			Unit				kg/m3			
		Relief Viscosity				Unit							
		Barometric Press	ure			OTIN		0.7 100 (119	13.26 /			ср	
		Blowdown								2 bar			
		Cold Differential	Test Pressure			Unit			-				
		Corrosive Service		Toxic Serv	ice			YES			YES		
	31	Design Code		Stamp Red	uired			API-520/526					
		Sizing Basis			-				F	IRE			
BASIS AND	33	Calculated Area						0	.446 in <sup>2</sup> (	287.74n	nm²)		
SELECTION	34	Selected Area							503 in <sup>2</sup> (				
	35	Orifice Designation	on							G			
	36												
		Size/Sch.: Inlet		Outlet				1 1/2"			3"		
CONNECTIONS			Outlet	Facing			600	)# 150			RF		
		Flange Face Finis	sh						125 to 2		Ra		
		Flange Std.							ASMI	B16.5	00010		
		Body and Bonnet		Nozzle & D	lisk			ASTM A105			SS316		
		Seat and Rings								316			
		Resilient Seat Se	al							V/A			
MATERIALS		Guide and Rings								316			
		Spring								316			
		Bellows							r	I/A			
		Bolting	NE MD 0475										
		Comply with NAC								ES			
		Cap: Screwed or					_			ewed			
		Lever: Plain or Pa	аскед							cked			
ACCESSORIES		Test Gag								'es			
		Bug Screen					No.						
		Other							INLET B				
		Manufacturer					Will be finalized later						
PURCHASE		Model						,	Will be fir	nalized la	ater		
FUNCHASE	56	Requisition Numb	oer				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





					NSTRIME	NT D S FOR	OR SAFETY VALVES					No and Sarages		
				T				_	Ι					
		شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه	حه: ۴ از ۱۹	شماره صف		
• 54 - • 1	۳-۹۱	۸۴	BK	GCS	MF	120	IN	DS	0013	V00	-	-		
	1	Tag Number	-			•			D-PS	SV-2102				
GENERAL	2	Service								M C-100	1			
OLNENAL		P & ID No.		Page No.				GCS-MF-120-			1/7			
		Line No.		Piping Clas	SS		G <i>A</i>	\S-111-0001-F			FN07	7		
	_		Full, Se		t Diret					Full				
	6	Design : Type :		Relief, Safe	ws, Pilot Ope	rated				ty-Relief rentional				
VALVE DESIGN	7	Bonnet Type :	Onen (	lloriai, bello	ws, Filot Ope	Taleu				losed				
	9	Seat Type :	Metal to	Metal. Res	ilient					to Meta	I			
		Seat Tightness								PI-527				
		Fluid		Phase				GAS			V			
		Required Capa				Unit			9655			kg/h		
		Operating Sp.								9285714				
		Molecular Wei		1		1			2	2.66				
		Oper. Pressure Oper. Tempera		Set Pressu		Unit Unit		54 63.5		62 382.		barg C		
	16	Oper. rempera	ature	Relieving T Constant	епр.	Unit		03.5	0.2	382.	<b>a</b>	barg		
		Back Pressure	•	Variable		Unit			1.393			barg		
	19			Total		Unit			1.593			barg		
PROCESS	20	Discharge to		Flare /Atm.	./ Other	ļ -				lare				
CONDITIONS	21	% Allowable O	verpres	Overpressi	ure Factor			21%			1.21			
		Compressibility						0.7435						
		Latent Heat of				Unit			116.50			kj/kg		
	24	Ratio of Specif	ic Heats	1		Tra s				.688		1		
		Relief Density Relief Viscosity	.,			Unit Unit		0.7425 /liqu	49.02	2006 (1/0	nor)	kg/m3		
		Barometric Pre						0.7435 (liqu		14.37 ps		ср		
		Blowdown	3301C							2 bar	ыа			
			ial Test Pressure Unit					-						
	30	Corrosive Serv	/ice	Toxic Serv	ice	I		YES			YES	ı		
		Design Code		Stamp Red	quired			API-520/526						
	32	Sizing Basis								IRE				
BASIS AND	33	Calculated Are	ea						).446 in <sup>2</sup> (					
SELECTION	34	Selected Area						0	).503 in <sup>2</sup> (	324.52	mm²)			
	35	Orifice Designa	ation							G				
	36													
		Size/Sch. : Inle		Outlet			000	1 1/2"			3"			
CONNECTIONS		Rating Inlet Flange Face F		Facing			600	# 150		250 µin l	RF			
		Flange Std.	111211							250 μιπ ι Ε Β16.5				
		Body and Boni	net	Nozzle & F	Disc (Note 1)			ASTM A105	70101		SS316			
	42	Seat and Rings	S		()			271.00	S	S316				
	43	Resilient Seat	Seal							N/A				
MATERIALS	44	Guide and Rin	gs							316				
MATERIALO		Spring								316				
		Bellows								N/A				
		Bolting	4 OF 14F	0.0475						/E0				
		Comply with N. Cap: Screwed					-			/ES				
	49 50	Lever: Plain or								rewed acked				
ACCESSORIES		_	, ackeu							Yes				
ACCESSURIES		Bug Screen								No				
		Other							INLET E		UT			
		Manufacturer							Will be fi					
		Model							Will be fi					
PURCHASE		Requisition Number							Will be fi					
	57	2 - 12	5.				The Domination later							
	, J.	l .												



#### نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض

خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد BK-HD-GCS-CO-۰۰۱۰\_۰۸)



				•									
		شماره پیمان:	پروژه	بسته کاری	صادر كننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه	<b>حه: ۵ از ۱۹</b>	شماره صف	
•04 - • 1	۳ – ۹ ۱	٨۴	BK	GCS	MF	120	IN	DS	0013	V00			
	1	Tag Number			•				D-PS	V-2103			
GENERAL	2	Service								M V-120			
GENERAL		P & ID No.		Page No.			BK-	-GCS-MF-120-	PR-PI-00	003	2/7		
		Line No.		Piping Cla	SS		G/	\S-111-0002- <i>F</i>	N07-2"-P	PP	AN0	7	
	5	Nozzle:	Full, Se							Full			
	6	Design :	Safety,	Relief, Safe	ety-Relief					ty-Relief			
VALVE DESIGN	7	Type:			ws, Pilot Ope	rated				entional			
VALVE DEGIGIT		Bonnet Type :								osed			
				Metal, Res	silient					to Meta	l		
		Seat Tightness	API 527					0.4.0	AP	PI-527			
		Fluid	14	Phase		II India		GAS	5004		V	1//-	
		Required Capa				Unit			5384	OF.		kg/h	
		Operating Sp. Molecular Wei								9.35			
		Oper. Pressure		Set Pressu	ıro	Unit		4.5	1	8.33		hara	
		Oper. Tempera		Relieving		Unit		74		201.	2	barg C	
	16 17	Oper. Tempere	uture	Constant	i cirip.	Unit		17	0.2	201.	-	barg	
		Back Pressure	<b>.</b>	Variable		Unit			1.393			barg	
	19	Dack i lessure	•	Total		Unit			1.593			barg	
PROCESS		Discharge to		Flare /Atm	/ Other	John				Daily			
CONDITIONS	21	% Allowable O	verpress					21%		lare	1.21		
	22	Compressibility	v Factor	(Z)				0.967					
		Latent Heat of				Unit		248.50				kj/kg	
		Ratio of Specif						1.233					
	25	Relief Density				Unit		8.17 k					
		Relief Viscosity	у			Unit			0.0161				
	27	Barometric Pre	essure						13.26 -	14.37 ps	sia		
	28	Blowdown							C	).58			
		Cold Differentia							-				
		Corrosive Serv	/ice	Toxic Serv			YES			YES	•		
		Design Code		Stamp Re	quired			API-520/526					
	32	Sizing Basis						FIRE					
BASIS AND	33	Calculated Are	ea					1.11 in <sup>2</sup> (716.13 mm <sup>2</sup> )					
SELECTION	34	Selected Area						1	l.287 in² (	830.32	mm²)		
		Orifice Designa	ation							J			
	36												
		Size/Sch. : Inle		Outlet				3" 4"					
CONNECTIONS			Outlet	Facing			300	300# 150# RF					
	39	Flange Face F	inish					125 to 250 μin Ra ASME B16.5					
		Flange Std.		NI	Dia - (Nlata 4)			A OTN A 405	ASM	E B16.5			
		Body and Bong Seat and Rings		NOZZIE & L	Disc (Note 1)			ASTM A105		S316	SS316		
		Resilient Seat								V/A			
		Guide and Rin								316			
MATERIALS		Spring	95							316			
		Bellows								V/A			
		Bolting								4// (			
		Comply with N	ACE MR	0175					Υ	/ES			
		Cap: Screwed								rewed			
		Lever: Plain or		-			Packed						
ACCESSORIES		Test Gag					Yes						
7.0020001.1120		Bug Screen					No						
		Other							INLET B		UT		
		Manufacturer					Will be finalized later						
	55							Will be finalized later  Will be finalized later					
PURCHASE		Requisition Nu	ımher				Will be finalized later						
	57	1 toquisition Nu	IIIIOUI				vviii de finalized later						
	3/	l											





		شماره پیمان:	پروژه	بسته کاری	صادر كننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه					
۰۵۳ – ۰۷	۳ – ۹۱		BK	GCS	MF	120	IN	DS	0013	V00	حه: ۶ از ۱۹	شماره صف			
- ,			DΝ	GCS	IVII	120	IIN	DS		SV-2104					
	2	Tag Number Service								M V-120					
GENERAL	3	P & ID No.		Page No.			BK	-GCS-MF-120-			2/7				
	4	Line No.		Piping Cla	\$\$			AS-111-0002-A			AN0				
	5		Full, Se		00		0,	10 111 00027		Full	7.1.40	•			
	6	Design :		Relief, Safe	etv-Relief					ty-Relief					
V41 VE BESISH	7	Type:			ows, Pilot Ope	rated				entional					
VALVE DESIGN	8	Bonnet Type :							С	losed					
				Metal, Res	silient					to Meta					
		Seat Tightness	API 527						AF	PI-527					
		Fluid		Phase				GAS			V	,			
		Required Capa				Unit			5384			kg/h			
		Operating Sp.								1.05					
		Molecular Wei		C-4 D		111-24		4.5	1 2	9.35		h			
		Oper. Tempera		Set Pressu Relieving		Unit Unit		4.5 74		201.	2	barg C			
	17	Oper. Tempera	ature	Constant	remp.	Unit		74	0.2	201.		barg			
		Back Pressure	<b>.</b>	Variable		Unit		1.393 ba							
	19	Back Freedom		Total		Unit		1.593 ba							
PROCESS		Discharge to		Flare /Atm	./ Other			Flare							
CONDITIONS		% Allowable O	verpress					21% 1.21							
	22	Compressibility	y Factor	(Z)				0.9679							
	23	Latent Heat of	Vaporiza	ation		Unit			248.50		1				
		Ratio of Specif	fic Heats			•				.233					
		Relief Density				Unit		8.17 kg/r							
		Relief Viscosity				Unit			0.0161						
		Barometric Pre	essure							14.37 ps	sia				
		Blowdown	1 = 1 =			In a			(	0.58		1			
		Cold Differentia			rian	Unit		VEC			VEC				
		Design Code	rice	Toxic Serv Stamp Red				YES YES							
		Sizing Basis		Starrip IXet	quireu			API-520/526 FIRE							
BASIS AND	33	Calculated Are	a						1.11 in <sup>2</sup> (		nm²)				
SELECTION	34	Selected Area							.287 in <sup>2</sup> (						
	35	Orifice Designa						·		J	,				
	36	Ü													
	37	Size/Sch.: Inle	et	Outlet				3" 4"							
CONNECTIONS			Outlet	Facing			300	)# 150			RF				
COMMEDITIONS		Flange Face F	inish					125 to 250 μin Ra							
		Flange Std.		IN	S: (A) ( A)			10T11111	ASM	E B16.5	00010				
		Body and Bon		Nozzie & L	Disc (Note 1)			ASTM A105		S316	SS316				
		Seat and Rings Resilient Seat								N/A					
		Guide and Rin								S 316					
MATERIALS		Spring	95							3 316					
		Bellows								N/A					
		Bolting													
		Comply with N	ACE MR	0175			YES								
	49	Cap: Screwed	or Bolted	d			Screwed								
		Lever: Plain or					Packed								
ACCESSORIES	51	Test Gag					Yes								
	52	Bug Screen								No					
	53	Other							INLET E	BOLT&N	UT				
	54	Manufacturer							Will be fi	nalized I	ater				
DUDGUAGE	55	Model							Will be fi	nalized I	ater				
PURCHASE	56								Will be fi	nalized I	ater				
	57														
	•	•					•								



## نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک



(BK-HD-GCS-CO-۰۰۱۰\_۰۸)

				ll	NSTRUMEI	NT D.S. FOR	SAFET	Y VALVES				No control of No. con Sanger
		شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه		
۰۵۳ - ۰۷	۳-۹۱	٨۴	BK	GCS	MF	120	IN	DS	0013	V00	حه: ۱۷از ۱۹ ا	شماره صف
	1	Tag Number								SV-210	5	
OFNEDAL	2	Service								1 F-100		
GENERAL	3	P & ID No.		Page No.			BK-	GCS-MF-120	-PR-PI-00	003	3/7	
		Line No.		Piping Clas	SS		TE	G-111-0011-	AN07-1"-I	HI	ANC	7
	5		Full, Se							Full		
	6			Relief, Safe						ty-Relie		
VALVE DESIGN	7	Type:	Conven	tional, Bello	ws, Pilot Ope	rated				ention:	al	
.,		Bonnet Type :								losed		
		Seat Type : Seat Tightness			silient					to Met	ial	
		Fluid	API 527	Phase				TEG	AF	PI-527	L	
		Required Capa	ocity.	Priase		Unit		TEG	834.3		L	ka/h
		Operating Sp.				Offic				.071		kg/h
		Molecular Wei								01.8		
		Oper. Pressure		Set Pressu	ıre	Unit		4.5	<del></del>		3	barg
		Oper. Tempera		Relieving 7		Unit		73.6			5	C
	17			Constant	<u> </u>	Unit			٠			
	18	Back Pressure	•	Variable		Unit			-			
	19			Total		Unit			3.5			barg
PROCESS	20	Discharge to		Flare /Atm.	./ Other				Glycol D	rain Ve	essel	
CONDITIONS	21	% Allowable O	verpress	Overpress	ure Factor			10%			1.1	
		Compressibility								-		
		Latent Heat of				Unit			-			kj/kg
		Ratio of Specif	ic Heats			1				-		T
	Relief Density				Unit			1071			kg/m3	
		Relief Viscosity Barometric Pre				Unit			5.4720		ania.	ср
		Blowdown	essure				_		13.26/	14.37 F	ISIA	
		Cold Differentia	al Tast F	Praccura		Unit			_	-		1
	30	Corrosive Serv	/ice	Toxic Serv	rice	John		YES			YES	1
		Design Code		Stamp Red				API-520/526			0	
		Sizing Basis							Therma	l Expar	nsion	
BASIS AND		Calculated Are	a						0.047 in <sup>2</sup>			
SELECTION		Selected Area							0.110 in <sup>2</sup>	(70.97	mm²)	
		Orifice Designa	ation							D		
	36			T -								
		Size/Sch. : Inle		Outlet			000	1"	.,,		2"	
CONNECTIONS	38	Rating Inlet	Outlet	Facing			300	# 150		050	RF	
	39	Flange Face F Flange Std.	inisn						125 to 2	250 μιτ ΙΕ Β16.		
		Body and Bonr	not	Nozzla & F	Disc (Note 1)		+	ASTM A105	ASIVI	E DIO.	SS316	
	41	Seat and Rings	s	INOZZIE G L	713C (Note 1)			AOTIVIA 103	S	S316	00010	
		Resilient Seat								N/A		
		Guide and Ring								S 316		
MATERIALS		Spring								S 316		
		Bellows								N/A		
	47	Bolting										
	48	Comply with N	ACE MR	0175					,	YES		
		Cap: Screwed							Sc	rewed		
	50	Lever: Plain or	Packed						Pa	acked		
ACCESSORIES	51	Test Gag								Yes		
	52	Bug Screen								No		
	53	Other							INLET E	3OLT&	NUT	
	54	Manufacturer							Will be fi	nalized	later	
DUDCUACE	55	Model					Will be finalized later					
PURCHASE	56	Requisition Nu	ımber						Will be fi	nalized	l later	
	57											





		شماره پيمان:	پروژه	بسته کاري	صادر كننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه	10.111			
•۵٣ – •٧	۳-۹۱	٨۴	BK	GCS	MF	120	IN	DS	0013	V00	حه: ۱۸ از ۱۹	شماره صف		
	1	Tag Number								SV-210				
GENERAL	2	Service							FROM					
OLNERAL	3	P & ID No.		Page No.				GCS-MF-120-			3/7			
	4	Line No.		Piping Clas	SS		TE	G-111-0012-A			AN0	7		
	5		Full, Se							Full				
	6			Relief, Safe						ty-Relie				
VALVE DESIGN	7				ws, Pilot Ope	rated				entiona	al			
VALVE BEGION		Bonnet Type :								osed				
		Seat Type :	Metal to	Metal, Res	silient					to Met	al			
		Seat Tightness	API 527						AP	PI-527				
		Fluid		Phase		1		TEG			L			
		Required Capa				Unit			834.3	074		kg/h		
		Operating Sp.								.071				
		Molecular Wei		0.10		line		4.5	11	01.8		I		
		Oper. Pressure		Set Pressu		Unit		4.5		8		barg		
		Oper. Tempera	ature	Relieving 7	етр.	Unit		73.6	L	8	5	С		
	17	Back Pressure		Constant Variable		Unit Unit			-					
	18	Dack Plessure	•	Total		Unit								
PROCESS	19	Diaghannata			/ Oth	Unit			Glycol D	roin \/o	anal .	barg		
CONDITIONS		Discharge to % Allowable O		Flare /Atm.			10%	Glycol D	rain ve	1.1				
CONDITIONS	22	Compressibility	verpress	(7)	ule i actoi			1076	l l	-	1.1			
		Latent Heat of				Unit								
		Ratio of Specif		ation		Onit	-					kj/kg		
		Relief Density	10 1 10410			Unit	-		1071			kg/m3		
		Relief Viscosity	/			Unit	-		5.4720			ср		
		Barometric Pre				0			13.26/1	14.37 p	sia	_ ~F		
		Blowdown								-				
	_	Cold Differentia	al Test P	ressure		Unit			-					
		Corrosive Serv		Toxic Serv	rice			YES YES						
	31	Design Code		Stamp Red	quired			API-520/526						
		Sizing Basis		•				Thermal Expansion						
BASIS AND	33	Calculated Are	a					0.047 in <sup>2</sup> (30.32 mm <sup>2</sup> )						
SELECTION		Selected Area						(	0.110 in <sup>2</sup>	(70.97	mm²)			
	_	Orifice Designa	ation							D				
	36							1" 2"						
	_	Size/Sch. : Inle		Outlet										
CONNECTIONS	38	Rating Inlet	Outlet	Facing			300	# 150			RF			
		Flange Face F	inish					125 to 250 μin Ra ASME B16.5						
		Flange Std.		N     - 0   D	Disc (Note 1)			ACTM A405	ASIVI	E B16.	SS316			
		Body and Bonr Seat and Rings		NOZZIE & L	DISC (Note 1)		_	ASTM A105		S316	33310			
		Resilient Seat								V/A				
	44	Guide and Ring								316				
MATERIALS		Spring	95							316				
		Bellows								V/A				
		Bolting							•	4,7,1				
		Comply with N	ACE MR	0175					Y	/ES				
		Cap: Screwed					Screwed							
	50	Lever: Plain or	Packed				Packed							
ACCESSORIES	51	Test Gag					Yes							
	_	Bug Screen					No							
	53	Other							INLET B		NUT			
	54	Manufacturer							Will be fir		_			
	55	Model							Will be fir					
PURCHASE	56	Requisition Nu	mber				Will be finalized later							
	57	242.2.00.740							20111					
	, ,,	I.												





		شماره ييمان:		بسته کاری	صادر كننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه				
		سماره پیمان.	پروژه	بسه داری	صادر تسده	سهيرت	رسه	نوع مدر ت	سریان	دسعوه	حه: ۹ از ۱۹	شماره صف		
•04 –	Vr - 91	114	BK	GCS	MF	120	IN	DS	0013	V00	_	-		
	1	Tag Number		L	I	ı			D-PS	V-2107	l			
	2	Service								1 F-200-	Δ			
GENERAL	3	P & ID No.		Page No.			BK-	GCS-MF-120-			3/7			
	4	Line No.		Piping Clas	20			EG-111-0019-			ANO			
	5	Nozzle :	Full, Se		33		V 1 L	20 111 0013		Full	71140	,		
	6	Design:		Relief, Safe	tv-Relief					y-Relief				
	7	Type:	Conven	tional Rello	ws, Pilot Ope	rated	_			entional				
VALVE DESIGN	8	Bonnet Type :			W3, 1 110t Opc	raica	_			osed				
	9	Seat Type :	Metal to	Metal, Res	ilient					to Meta	I			
	10	Seat Tightness								PI-527				
		Fluid		Phase				TEG			L			
		Required Capa	acitv			Unit			834.3			kg/h		
		Operating Sp.				L.			1	.061				
		Molecular Wei							1	01.8				
	15	Oper. Pressure		Set Pressu	ire	Unit		3.8		7.5	;	barg		
	16	Oper. Tempera		Relieving 1	Temp.	Unit		73.6		85		С		
	17			Constant	•	Unit			-					
	18	Back Pressure	)	Variable		Unit			-					
	19	†		Total		Unit			3.5			barg		
PROCESS	20	Discharge to		Flare /Atm	./ Other	*			Glycol D	rain Ves	ssel	*		
CONDITIONS	21	% Allowable O	verpress	Overpress	ure Factor			10%			1.1			
		Compressibility								-				
		Latent Heat of				Unit			-			kj/kg		
		Ratio of Specif	fic Heats							-				
		Relief Density				Unit		1061 kg/i						
	26	Relief Viscosity				Unit			5.4720			ср		
	27	Barometric Pre	essure						13.26/	14.37 ps	ia			
	28	Blowdown								-				
	29	Cold Differentia				Unit			-					
	30	Corrosive Serv	vice	Toxic Serv			YES			YES				
	31	Design Code		Stamp Red	quired			API-520/526						
	32	Sizing Basis						Thermal Expansion						
BASIS AND	33	Calculated Are	ea						0.049 in <sup>2</sup>	( 31.61r	nm²)			
SELECTION	34	Selected Area						0.110 in <sup>2</sup> ( 70.97mm <sup>2</sup> )						
	35	Orifice Designa	ation							D				
	36													
	37	Size/Sch.: Inle		Outlet				1" 2"						
CONNECTIONS	38	Rating Inlet	Outlet	Facing			300	# 150			RF			
COMILECTIONS		Flange Face F	inish					125 to 250 μin Ra						
		Flange Std.							ASM	E B16.5				
		Body and Boni		Nozzle & L	Disc (Note 1)			ASTM A105			SS316			
		Seat and Rings								S316				
	43	Resilient Seat								N/A				
MATERIALS	44	Guide and Rin	gs							316				
		Spring								316				
		Bellows								N/A				
		Bolting Comply with N	ACE MD	0475			VEO							
		Cap: Screwed					_			/ES				
										rewed				
		Lever: Plain or	Packed				Packed							
ACCESSORIES	51	Test Gag					Yes							
	52	Bug Screen								No				
		Other							INLET E					
	E 4	Manufacturer					Will be finalized later							
	54													
PURCHASE	55	Model							Will be fi					
PURCHASE	55		ımber						Will be fi					





						N 1 D.3. 1 OF		TALTE						
		شماره پيمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه	نه: ۱۰ از ۱۹	 شماره صفح		
· ۵۳ – · V			BK	GCS	MF	120	IN	DS	0013	V00		<u> </u>		
	1	Tag Number							D-PS	SV-2108	1			
GENERAL	2	Service							FROM	1 F-200-	В			
GLINERAL	3	P & ID No.		Page No.				GCS-MF-120-			3/7			
	4	Line No.		Piping Cla	SS		TE	G-111-0018- <i>F</i>	4N07-1"-F	HI .	AN0	7		
	5	Nozzle:	Full, Se							Full				
	6	Design:		Relief, Safe					Safet	ty-Relief	f			
VALVE DESIGN		Type:			ows, Pilot Ope	rated			Conv	entional	l			
VALVE DESIGN		Bonnet Type :	Open, C	Closed						losed				
				Metal, Res	silient					to Meta	al			
		Seat Tightness	API 527						AP	PI-527				
		Fluid		Phase				TEG			L			
		Required Capa				Unit			834.3			kg/h		
		Operating Sp.								.061				
		Molecular Wei							1	01.8				
		Oper. Pressure		Set Pressu		Unit		3.8		7.5		barg		
		Oper. Tempera	ature	Relieving	I emp.	Unit		73.6		85	j	С		
	17	David B		Constant		Unit			-					
		Back Pressure	!	Variable		Unit								
	19			Total		Unit			3.5			barg		
PROCESS		Discharge to		Flare /Atm				400/	Glycol D	rain Ves				
CONDITIONS	21	% Allowable O	verpress	Overpress	sure Factor			10%			1.1			
		Compressibility Latent Heat of				I Init				-		kj/kg		
		Ratio of Specif		ation		Unit		- k						
		Relief Density	ic neats			Unit								
		Relief Viscosity		Unit				1061 kg 5.4720						
		Barometric Pre				Offic		13.26/14.37 psia						
		Blowdown	ssuie						13.20/	14.57 ps	ыа			
	_		ferential Test Pressure Unit					-						
		Corrosive Serv		Toxic Serv	/ice	Olin		YES			YES			
		Design Code		Stamp Re				API-520/526						
		Sizing Basis							Thermal	Expans	sion			
BASIS AND		Calculated Are	a						0.049 in <sup>2</sup>					
SELECTION		Selected Area							0.110 in <sup>2</sup>					
		Orifice Designa								D	,			
	36	Ŭ												
	37	Size/Sch.: Inle	et	Outlet				1"			2"			
CONNECTIONS			Outlet	Facing			300	# 150	#		RF			
CONNECTIONS		Flange Face F	inish						125 to 2					
	40	Flange Std.					ASME B16.5							
		Body and Bonr		Nozzle & [	Disc (Note 1)			ASTM A105			SS316			
		Seat and Rings								S316				
	43	Resilient Seat								N/A				
MATERIALS	44	Guide and Rin	gs							316				
		Spring								316				
		Bellows								N/A				
		Bolting Comply with N	A O E N 4 D	0175						/F.C				
		Comply with N								/ES				
		Cap: Screwed	3		Screwed									
	••	Lever: Plain or		Packed										
ACCESSORIES	_	Test Gag								Yes				
		Bug Screen								No				
		Other					INLET BOLT&NUT							
		Manufacturer					Will be finalized later							
PURCHASE		Model					Will be finalized later							
FUNCHASE	56	Requisition Nu	mber				Will be finalized later							
	57													





		شماره پیمان:	پروژه	بسته کاری	صادر كننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه				
•۵٣ – • ٧	/r — 91		BK	GCS	MF	120	IN	DS	0013	V00	ه: ۱۱ از ۱۹	شماره صفح		
	1	Tag Number		l.	l.		1	1	D-PS	SV-2109	l			
	2	Service								M R-100				
GENERAL	3	P & ID No.		Page No.			BK	-GCS-MF-120			4/7	•		
	4	Line No.		Piping Cla	SS			AS-111-0004-			ANC	5		
	5	Nozzle :	Full, Se	mi						Full				
	6	Design :	Safety,	Relief, Safe	ety-Relief				Safe	ty-Relief				
VALVE DESIGN	7	Type:	Conven	tional, Bello	ws, Pilot Ope	rated			Conv	entional				
VALVE DESIGN	8	Bonnet Type :							C	losed				
	9			Metal, Res	silient					to Meta	l			
	10	Seat Tightness	API 527					API-527						
		Fluid		Phase				GAS V						
		Required Capa				Unit			14690			kg/h		
		Operating Sp.								2.27				
		Molecular Wei		0.15		Trans.		0.0/0.5	- 6	3.58				
		Oper. Pressure Oper. Tempera		Set Pressu Relieving		Unit Unit		0.3/0.5 140/204		4.1 316.		barg C		
	16 17	Oper. Tempera	ature		теттр.	Unit		140/204	0.2	310.	4	barg		
		Constant   Unit   0.2										barg		
	19	Dack i lessure	•	Total		Unit			1.593			barg		
PROCESS		Discharge to		Flare /Atm	/ Other	Onit				lare		barg		
CONDITIONS		% Allowable O	vernress					21%		iaro	1.21			
CONDITIONS		Compressibility						2.70	0.	9210				
	23	Latent Heat of	Vaporiza	ation		Unit			242.00			kj/kg		
		Ratio of Specif								.074		, , ,		
		Relief Density				Unit			8.137			kg/m3		
		Relief Viscosity	у			Unit			0.0125			ср		
	27	Barometric Pre	essure			•			13.26/	14.37 ps	ia	•		
		Blowdown								0.9				
		Cold Differentia		ressure		Unit			-					
		Corrosive Serv	/ice	Toxic Serv				YES YES						
		Design Code		Stamp Red	quired			API-520/526						
		Sizing Basis								IRE	2			
BASIS AND	33	Calculated Are							.328 in <sup>2</sup> (					
SELECTION	34	Selected Area						6	5.38 in <sup>2</sup> ( 4	4116.12	mm <sup>-</sup> )			
	35 36	Orifice Designa	ation					P P						
		Size/Sch. : Inle	·+	Outlet				4"			6"			
			Outlet	Facing			30		#		RF			
CONNECTIONS		Flange Face F		i doing			- 00	125 to 250 µin Ra						
		Flange Std.						ASME B16.5						
		Body and Bonr	net	Nozzle & D	Disc (Note 1)			ASTM A105			SS316			
		Seat and Rings		I	, , ,				S	S316				
	43	Resilient Seat	Seal							N/A				
MATERIALS		Guide and Rin	gs						SS	S 316				
WATERIALS	45	Spring							SS	316				
		Bellows								N/A				
		Bolting												
		Comply with N								YES				
		Cap: Screwed		<u> </u>						Screwed				
		Lever: Plain or	Packed							acked				
ACCESSORIES	51	Test Gag								Yes				
	52	Bug Screen								No				
	53	Other								BOLT&N				
	54	Manufacturer							Will be fi					
PURCHASE	55	Model							Will be fi					
I SKOTAGE	56	Requisition Nu	mber						Will be fi	nalized l	ater			
	57													





		شماره پیمان:	پروژه	بسته کاری	صادر كننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه				
• ۵۳ – • ۷	۳-۹۱		BK	GCS	MF	120	IN	DS	0013	V00	عه: ۱۲ از ۱۹	شماره صفح		
	1	Tag Number			ı.	ı	1		D-PS	SV-2110				
	2	Service								M R-100	1			
GENERAL		P & ID No.		Page No.			BK	-GCS-MF-120			4/7			
	4	Line No.		Piping Cla	SS			AS-111-0004-			AN0	5		
	5	Nozzle :	Full, Se	mi						Full				
	6	Design :	Safety,	Relief, Safe	ety-Relief				Safe	ty-Relief				
VALVE DESIGN	7	Type:	Conven	tional, Bello	ws, Pilot Ope	rated			Conv	entional				
VALVE DESIGN	8	Bonnet Type :							С	losed				
				Metal, Res	silient					to Meta	l			
		Seat Tightness	API 527					API-527						
		Fluid		Phase				GAS V						
		Required Capa				Unit			14690			kg/h		
		Operating Sp.								2.27				
		Molecular Wei		0.45		In a		0.0/0.5	- 6	3.58				
		Oper. Pressure Oper. Tempera		Set Pressu Relieving		Unit Unit		0.3/0.5 140/204		4.1 316.		barg C		
	16 17	Oper. Tempera	ature		теттр.	Unit		140/204	0.2	310.	4	barg		
		Constant   Unit   0.2									barg			
	19	Dack Flessule	,	Total		Unit			1.593			barg		
PROCESS		Discharge to		Flare /Atm	/ Other	Offic				lare		barg		
CONDITIONS	21	% Allowable O	vernress					21%		iaro	1.21			
CONDITIONS		Compressibility						2.70	0.	9210				
	23	Latent Heat of	Vaporiza	ation		Unit			242.00			kj/kg		
		Ratio of Specif				L-				.074		, , ,		
		Relief Density				Unit			8.137			kg/m3		
		Relief Viscosity	у			Unit			0.0125			ср		
	27	Barometric Pre	essure			•	13.26/14.37 psia					•		
		Blowdown						0.9						
		Cold Differentia		ressure		Unit			-					
		Corrosive Serv	/ice	Toxic Serv				YES YES						
		Design Code		Stamp Red	quired			API-520/526						
		Sizing Basis								IRE	2			
BASIS AND		Calculated Are							328 in <sup>2</sup> (					
SELECTION	34	Selected Area						6	i.38 in² ( 4	4116.12	mm <sup>-</sup> )			
	35 36	Orifice Designa	ation					P P						
		Size/Sch. : Inle	·+	Outlet				4"			6"			
			Outlet	Facing			30		#		RF			
CONNECTIONS		Flange Face F		i doing				300# 150# RF 125 to 250 μin Ra						
		Flange Std.						ASME B16.5						
		Body and Bonr	net	Nozzle & D	Disc (Note 1)			ASTM A105			SS316			
		Seat and Rings		1	, , ,				S	S316				
	43	Resilient Seat	Seal							N/A				
MATERIALS		Guide and Rin	gs						S	S 316				
WATERIALS	45	Spring							S	316				
		Bellows								N/A				
		Bolting												
		Comply with N								YES				
		Cap: Screwed		b						rewed				
		Lever: Plain or	Packed							acked				
ACCESSORIES		Test Gag								Yes				
		Bug Screen								No				
		Other								BOLT&N				
		Manufacturer							Will be fi					
PURCHASE		Model							Will be fi					
IONOMAGE	56	Requisition Nu	mber						Will be fi	nalized l	ater			
	57													





		شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه				
•۵٣ – •٧	۳-91		BK	GCS	MF	120	IN	DS	0013	V00	مه: ۱۳ از ۱۹	شماره صفح		
	1	Tag Number	DIX	000	IVII	120	- "	50		SV-2111				
	2	Service								M E-200	1			
GENERAL	3	P & ID No.		Page No.			BK	-GCS-MF-120-			5/7			
	4	Line No.		Piping Cla	SS			EG-111-0003-A			AN0			
	5		Full, Se							Full	7.1.10	•		
	6	Design :		Relief, Safe	etv-Relief					ty-Relief				
V41 VE BESISH	7	Type:			ows, Pilot Ope	rated				entional				
VALVE DESIGN	8	Bonnet Type :	Open, C	Closed					С	losed				
				Metal, Res	silient				Metal	to Meta	l			
	10	Seat Tightness	API 527						AF	PI-527				
		Fluid		Phase				TEG V/L						
		Required Capa				Unit			834.3			kg/h		
		Operating Sp.								0.93				
		Molecular Wei		0.15		In a			1	47.8				
		Oper. Pressure Oper. Tempera		Set Pressu Relieving		Unit Unit		55 120		62 130		barg C		
	16 17	Oper. Tempera	ature	Constant	теттр.	Unit		120		130	)	U		
		Back Pressure		Variable		Unit								
	19	Dack i lessure	•	Total		Unit			3.5			barg		
PROCESS		Discharge to		Flare /Atm	/ Other	OTIL			Glycol D	rain Ves	sel	barg		
CONDITIONS	21	% Allowable O	verpress					10%	0.900. 2		1.1			
		Compressibility							l l	-				
	23	Latent Heat of	Vaporiza	ation		Unit			-			kj/kg		
		Ratio of Specif								-				
	25	Relief Density				Unit			932.9			kg/m3		
		Relief Viscosity				Unit	1.4	1.409(Liquid Phase) / 0.01405 (Vapor Phase)						
		Barometric Pre	essure			•		13.26/14.37 psia						
		Blowdown		I				-						
		Cold Differentia				Unit			-					
		Corrosive Serv	rice	Toxic Serv				YES YES						
		Design Code		Stamp Red	quired			API-520/526	Thermon	·				
BASIS AND	32	Sizing Basis Calculated Are							Therma					
SELECTION	34	Selected Area							0.044 in <sup>2</sup> 0.110 in <sup>2</sup>					
SEEECHON	35	Orifice Designa							0.110111	( 70.9711 D	iiiii )			
	36	Office Designa	ation											
		Size/Sch. : Inle	et	Outlet				1"			2"			
CONNECTIONS			Outlet	Facing			30		#		RF			
CONNECTIONS	39	Flange Face F						125 to 250 μin Ra						
	40	Flange Std.							ASM	E B16.5				
		Body and Bonr		Nozzle & D	Disc (Note 1)			ASTM A105			SS316			
		Seat and Rings								S316				
	43	Resilient Seat								N/A				
MATERIALS		Guide and Rin	gs							316				
		Spring Bellows								S 316				
		Bolting								N/A				
		Comply with N	ACE MR	0175						NO				
		Cap: Screwed								rewed				
		Lever: Plain or		<u> </u>						acked				
ACCESSORIES	51	Test Gag	1 donca							Yes				
ACCECCONIES	52	Bug Screen					Yes No							
	53	Other								BOLT&N	IIT			
		Manufacturer							Will be fi					
	55	Model							Will be fi					
PURCHASE	56	Requisition Nu	mber						Will be fi					
	57	oquionion Nu									u			
	3/	I												





		شماره پيمان:	پروژه	بسته کاري	صادر كننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه				
•۵٣ – •٧	۳-۹۱	٨۴	BK	GCS	MF	120	IN	DS	0013	V00	عه: ۱۴ از ۱۹ ا	شماره صف		
	1	Tag Number							D-PS	SV-211	2			
GENERAL	2	Service							FROM		)-A			
OLNERAL	3	P & ID No.		Page No.				GCS-MF-120-			5/7			
	4	Line No.		Piping Clas	SS		TE	G-111-0004- <i>A</i>			AN0	4		
	5		Full, Se							Full				
	6	Design :		Relief, Safe						ty-Relie				
VALVE DESIGN	7	Type:			ws, Pilot Ope	rated				ention	al			
VALVE BEGION		Bonnet Type :								osed				
		Seat Type :	Metal to	Metal, Res	silient					to Met	al			
		Seat Tightness	API 527						AP	PI-527				
		Fluid		Phase		1		TEG L						
		Required Capa				Unit			834.3			kg/h		
		Operating Sp.						1.05 147.8						
		Molecular Wei		0.10		lu.s		55.4	1-			I		
		Oper. Pressure		Set Pressu		Unit		55.1		6		barg		
		Oper. Tempera	ature	Relieving 7	етр.	Unit		120	L	13	DU	С		
	17	Back Pressure		Constant Variable		Unit Unit			-					
	18	Back Plessure		Total		Unit			3.5			hora		
PROCESS	19	Dia ah awas ta		Flare /Atm.	/ Oth	Unit			Glycol D	roin 1/a	2001	barg		
CONDITIONS		Discharge to % Allowable O						10%	Glycol D	rain ve	1.1			
CONDITIONS	22	Compressibility	/ Factor	(7)	ule i actoi			1076	l l	-	1.1			
		Latent Heat of				Unit			_	-		kj/kg		
	24	Ratio of Specif	ic Heats	ation		Offic				-		NJ/NY		
		Relief Density	ic ricats			Unit		- 1054 kg/n						
		Relief Viscosity	./	Unit				5						
		Barometric Pre		Offit					13.26/1	14 37 n	nsia	ср		
		Blowdown	,55uic						10.20/	-	,51 <b>u</b>			
		Cold Differentia	al Test P	Pressure Unit				-						
		Corrosive Serv		Toxic Serv	rice	Cinc		YES			YES			
		Design Code		Stamp Red				API-520/526						
		Sizing Basis						Thermal Expansion						
BASIS AND		Calculated Are	a					0.044 in <sup>2</sup> ( 28.39 mm <sup>2</sup> )						
SELECTION	34	Selected Area						0.110 in <sup>2</sup> ( 70.97mm <sup>2</sup> )						
	35	Orifice Designa	ation							D				
	36													
	_	Size/Sch. : Inle		Outlet				1"			2"			
CONNECTIONS		Rating Inlet	Outlet	Facing			300	300# 150# RF						
••••••		Flange Face F	inish					125 to 250 µin Ra						
		Flange Std.						ASME B16.5						
		Body and Bon		Nozzie & L	Disc (Note 1)			ASTM A105		2010	SS316			
		Seat and Rings Resilient Seat								S316 V/A				
	_									316				
MATERIALS	44	Guide and Ring Spring	gs							316				
		Bellows								V/A				
		Bolting								<b>V/</b> A				
		Comply with N	ACE MR						NO					
		Cap: Screwed								rewed				
	50	Lever: Plain or								cked				
ACCESSORIES	51	Test Gag	1 ackeu							Yes				
ACCESSORIES	_	Bug Screen								No				
											NILIT			
	53	Other					INLET BOLT&NUT							
	54								Will be finalized later					
PURCHASE	55	Model					Will be finalized later Will be finalized later							
	56	Requisition Nu	mper						vviii be fii	nalized	ıater			
	57													





		شماره پیمان:	پروژه	بسته کاري	صادر كننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه	حه: ۱۵ از ۱۹	څانه مه		
•04 - •1	MY - 9\AF BK GCS MF 120 IN DS								0013	V00		سماره صف		
	1	Tag Number							D-PS	V-211	3			
GENERAL	2	Service							FROM					
OLNEIO L		P & ID No.		Page No.				GCS-MF-120-			5/7			
		Line No.		Piping Clas	SS		TE	G-111-0005- <i>F</i>			AN04	4		
			Full, Se							ull				
	6	Design :	Safety,	Relief, Safe	ty-Relief					y-Relie				
VALVE DESIGN		Type :	Conven	tional, Bello	ws, Pilot Ope	rated				entiona	al .			
		Bonnet Type : Seat Type :			iliant					osed	ol.			
		Seat Tightness			illerit					to Met	aı			
		Fluid	A 1 1 327	Phase				TEG		1-021	L			
		Required Capa	acity	i ilase		Unit		834.3 kg/l						
		Operating Sp.				OTIL		1.05						
		Molecular Wei						147.8						
		Oper. Pressure		Set Pressu	ire	Unit		55.1 62 ba						
	16	Oper. Tempera	ature	Relieving T	emp.	Unit		120		13	30	С		
	17			Constant		Unit			-					
	18	Back Pressure		Variable		Unit			-					
	19			Total		Unit			3.5			barg		
PROCESS	20	Discharge to		Flare /Atm.	/ Other				Glycol Di	rain Ve				
CONDITIONS	21	% Allowable O	verpress	Overpress	ure Factor			10%			1.1			
		Compressibility				Trans.				-				
		Latent Heat of		ation		Unit			-			kj/kg		
		Ratio of Specif	ic Heats			111-24		-						
		Relief Density Relief Viscosity				Unit Unit		1054 kg/s 2.3770 ci						
		Barometric Pre				Onit			13.26/1	1 27 n	eia	ср		
		Blowdown	sssuie						13.20/1	4.37 p	Sia			
		Cold Differentia	al Test P	ressure		Unit			_					
		Corrosive Serv		Toxic Serv	ice	Cinc		YES YES						
		Design Code		Stamp Red				API-520/526						
		Sizing Basis			•			Thermal Expansion						
BASIS AND	33	Calculated Are	a					0.110 in <sup>2</sup> ( 70.97mm <sup>2</sup> )						
SELECTION		Selected Area						(	0.110 in <sup>2</sup> (	70.97	'mm²)			
		Orifice Designa	ation							D				
	36													
		Size/Sch. : Inle		Outlet			000	1"	,,		2"			
CONNECTIONS		Rating Inlet		Facing			300# 150# RF 125 to 250 uin Ra							
		Flange Face F Flange Std.	Inisn					125 to 250 µin Ra						
		Body and Boni	not	Nozzle & F	isc (Note 1)			ASME B16.5  ASTM A105 SS316						
		Seat and Rings		I TOLLIO & D	100 (11010 1)			7.6 1.11.71.100	SS	316	00010			
	43	Resilient Seat	Seal							VA				
MATERIALO		Guide and Rin								316				
MATERIALS		Spring							SS	316				
	46	Bellows							١	I/A				
		Bolting												
		Comply with N							1	10				
		Cap: Screwed		t					Scr	ewed				
			Packed				Packed							
ACCESSORIES		Test Gag								'es				
	52	Bug Screen					No							
		Other					INLET BOLT&NUT							
		Manufacturer					Will be finalized later							
PURCHASE		Model					Will be finalized later							
IONOMAGE	56	Requisition Nu	mber				Will be finalized later							
	57													



MES

INSTRUMENT D.S. FOR SAFETY VALVES								Constant					
		شماره پیمان:	پروژه	بسته کاری	صادر كننده	هيلات	تسإ	رشته	نوع مدرک	سريال	نسخه	19 115	خارمه ف
· ۵۳ – · v	۳-۹۱	٨۴	BK	GCS	MF	120	0	IN	DS	0013	V00	<i>ح</i> ه: ۱۶ از ۱۹	شماره صع
	1	Tag Number				ı	ı			D-P	SV-2114		
OFNEDAL	2	Service								FRON	/I P-200-	A	
GENERAL	3	P & ID No.		Page No.				BK-	GCS-MF-120-	PR-PI-0	003	6/7	
	4	Line No.		Piping Clas	SS			CH	IM-111-0005-	AS00-1"-	HI	AS0	)
	5	Nozzle:	Full, Se	mi							Full		
	6			Relief, Safe						Safe	ty-Relief	:	
VALVE DESIGN	7				ws, Pilot Ope	rated					ventional		
VALVE DEGICIT	_	Bonnet Type :									losed		
	9	Seat Type :			ilient						I to Meta	ıl	
		Seat Tightness	API 527					14/11	h e Carle e da		PI-527	LL - C F L	-1
		Fluid	-14.	Phase		li i	-:4	VVIII	be finalized la			l be finalized	ater
		Required Capa Operating Sp.				JUI	nit	-	VVIII C	e finalize Will be f		otor	
		Molecular Weigh								Will be f			
		Oper. Pressure		Set Pressu	Iro	H	nit	Will be	finalized later			ized later	1
		Oper. Tempera		Relieving T			nit		finalized later			ized later	
	17	Орон тотпроте	aturo	Constant	omp.		nit	***************************************		e finalize		1200 10101	
		Back Pressure	!	Variable		_	nit	1		e finalize			
	19			Total			nit			e finalize			
PROCESS		Discharge to		Flare /Atm.	/ Other					Will be f		ater	<b>I</b>
CONDITIONS	21	% Allowable O	verpress					Will	be finalized la	iter	Wil	I be finalized	ater
		Compressibility								Will be f	inalized l	ater	
		Latent Heat of		Ur	nit	Will be finalized later							
		Ratio of Specif	ic Heats			•				Will be f	inalized l	ater	
		Relief Density				Ur	nit	Will be finalized later					
		Relief Viscosity				Ur	nit	Will be finalized later Will be finalized later					
		Barometric Pre	essure										
	_	Blowdown								Will be f		ater	,
			d Differential Test Pressure Unit							e finalize			
		Corrosive Serv	rice	Toxic Serv				Will	be finalized la	iter	Wil	l be finalized	ater
		Design Code		Stamp Rec	quired				API-520/526	Disal	I O 4I -		
BASIS AND		Sizing Basis Calculated Are									ed Outle	et .	
SELECTION		Selected Area	a								( mm <sup>2</sup> )		
SELECTION		Orifice Designa	ation								( 111111 )		
	36	Office Designa	ation										
		Size/Sch. : Inle	et .	Outlet					1"			2"	
001111111111111111			Outlet	Facing				300		#		RF	
CONNECTIONS		Flange Face F									250 µin		
		Flange Std.									IE B16.5		
	41	Body and Bonr		Nozzle & D	isc (Note 1)				ASTM A105			SS316	
		Seat and Rings									S316		
		Resilient Seat									N/A		
MATERIALS		Guide and Ring	gs								S 316		
		Spring									S 316		
		Bellows									N/A		
		Bolting	A O E 14D	0475							\/		
		Comply with N									Yes		
		Cap: Screwed									rewed		
400E000DIE0		Lever: Plain or	Packed					1			acked		
ACCESSORIES	_	Test Gag						1			Yes		
		Bug Screen						<u> </u>			No		
		Other									BOLT&N		
	71							/ill be finalized later					
PURCHASE		Model						1		Will be f			
		Requisition Nu	mber					1		Will be f	ınalızed l	ater	
	57												





				II	NSTRUME	NT D.S. FOR	FOR SAFETY VALVES							
	1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3								نسخه	شماره صفحه: ۱۷ از ۱۹				
• ۵۳ – • ۷	۳-۹۱	۸۴	BK	GCS	MF	120	IN	DS	0013	V00	سماره صفحه. ۱۷ از ۱۹			
	1	Tag Number							D-PS	SV-2115				
GENERAL		Service							FROM	l P-200-l	3			
GLINERAL	3	P & ID No.		Page No.				GCS-MF-120			6/7			
	4	Line No.		Piping Clas	SS		CH	HM-111-0005-	AS00-1"-I	11	AS00			
	5	Nozzle :	Full, Se							Full				
		Design :		Relief, Safe						ty-Relief				
VALVE DESIGN	7	Type :			ws, Pilot Oper	rated				entional				
		Bonnet Type :								osed				
		Seat Type : Seat Tightness			illient			Metal to Metal API-527						
		Fluid	API 527	, Other Phase			\ <b>\/</b> /il	ho finalized l			be finalized later			
		Required Capa	oit.	Phase		Unit	VVIII	be finalized la	oe finalize		be imalized later			
		Operating Sp.				John		VVIII I	Will be fi		ater			
		Molecular Wei							Will be fi					
		Oper. Pressure		Set Pressu	ıre	Unit	Will be	finalized late			zed later			
		Oper. Tempera		Relieving T		Unit		e finalized late			zed later			
	17		· · · · · · · · · · · · · · · · · · ·	Constant		Unit			oe finalize					
	18	Back Pressure	:	Variable		Unit		Will b	oe finalize	d later				
	19	Ī		Total		Unit		Will b	oe finalize	d later				
PROCESS	20	Discharge to	Flare /Atm./ Other overpress Overpressure Factor						Will be fi	nalized la	ater			
CONDITIONS	21	% Allowable O	verpress	Overpress	ure Factor		Will	be finalized la			be finalized later			
		Compressibility Factor (Z) Will be finalize							ater					
			atent Heat of Vaporization Unit Will be finalized later											
		Ratio of Specif	ic Heats						Will be fi		ater			
		Relief Density	elief Density Unit elief Viscosity Unit						Will be finalized later					
					Unit		Will be finalized later Will be finalized later							
			arometric Pressure											
			Blowdown Cold Differential Test Pressure Unit						Will be fi		ater			
		Corrosive Serv		Toxic Serv	ico	Unit	\//il	Will be finalized later  Will be finalized later  Will be finalized later						
		Design Code	rice	Stamp Red			VVIII	API-520/526	alei	VVIII	De III lalizeu latei			
		Sizing Basis		Otamp rece	quiicu			711 1 020/020	Block	ed Outle	t			
BASIS AND		Calculated Are	a							( mm <sup>2</sup> )	-			
SELECTION		Selected Area								( mm <sup>2</sup> )				
	35	Orifice Designa	ation					111 (111111)						
	36													
	37	Size/Sch. : Inle		Outlet				1"			2"			
CONNECTIONS			Outlet	Facing			300# 150# RF 125 to 250 μin Ra							
		Flange Face F	inish								Ra			
		Flange Std.			Nine (Ninte 4)			ACTM A40F	ASM	E B16.5	00040			
		Body and Bonr Seat and Rings		NOZZIE & L	Disc (Note 1)			ASTM A105		S316	SS316			
		Resilient Seat								V/A				
		Guide and Ring								316				
MATERIALS		Spring	95							316				
		Bellows								N/A				
		Bolting							·	47.				
		Comply with N	ACE MR	0175					,	Yes				
		Cap: Screwed							Sc	rewed				
		Lever: Plain or							Pa	cked				
ACCESSORIES		Test Gag								Yes				
		Bug Screen								No				
		Other							INLET E		UT			
		Manufacturer							Will be fi					
	_	Model							Will be fi					
PURCHASE		Requisition Nu	mber						Will be fi					
	57	242.2.00.740							2011					
	51	l												



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				II	NSTRUMEN	NT D.S. FOR	SAFET	Y VALVES						
	سريال نوع مدرک رشته تسهيلات صادرکننده بسته کاری پروژه شماره پيمان: ۱۷۲–۹۱۸۴ BK GCS MF 120 IN DS 0013								نسخه	شماره صفحه: ۱۸ از ۱۹				
•۵٣ – •٧	۳-۹۱	۸۴	BK	GCS	MF	120	IN	DS	0013	V00	سماره صفحه. ۱۸ از ۱۲			
	1	Tag Number	<u> </u>						D-PS	SV-2116				
		Service								I P-300-A	1			
GENERAL				Page No.			BK-	GCS-MF-120			7/7			
		Line No.		Piping Clas	SS			-IM-111-0006-			AS00			
	5	Nozzle :	Full, Se	. 0						Full				
	6	Design :	Safety,	Relief, Safe	ty-Relief				Safet	y-Relief				
VALVE DESIGN	7				ws, Pilot Oper	rated			Conv	entional				
VALVE DESIGN		Bonnet Type :								osed				
				Metal, Res	ilient					to Metal				
		Seat Tightness	API 527							PI-527				
		Fluid		Phase		Tr. s	Wil	l be finalized l			be finalized later			
		Required Capa				Unit		Will	be finalize					
		Operating Sp.							Will be fi					
		Molecular Weig	•	C-4 D		[] lada	\A/:II l	. f:!:!  -t-	Will be fi					
		Oper. Pressure Oper. Tempera		Set Pressu Relieving 1		Unit Unit		e finalized late e finalized late			zed later zed later			
	17	Oper. Tempera	ature	Constant	emp.	Unit	VVIII DE		be finalize		zeu iatei			
		Back Pressure		Variable		Unit			be finalize					
	19	Back 1 1000aro		Total		Unit			be finalize					
PROCESS		Discharge to		Flare /Atm	/ Other	10			Will be fi		ater			
CONDITIONS		% Allowable O	verpress				Wil	l be finalized l			be finalized later			
		Compressibility Factor (Z)							Will be fi	nalized la	ater			
		Latent Heat of Vaporization Unit Will be finalized							d later					
		Ratio of Specif	ic Heats			•			Will be fi	nalized la	ater			
	25	Relief Density							Will be finalized later					
	_	Relief Viscosity	,			Unit		Will be finalized later Will be finalized later						
		Barometric Pre	essure			·								
		Blowdown							Will be fi		ater			
	_	Cold Differential Test Pressure Unit					100		be finalize					
		Corrosive Serv	/ice	Toxic Serv			VVII	be finalized I		VVIII	be finalized later			
		Design Code Sizing Basis		Stamp Red	quirea			API-520/526		ed Outlet				
BASIS AND		Calculated Are								( mm²)	•			
SELECTION		Selected Area	a							( mm²)				
0222011011		Orifice Designa	ation							( 111111 )				
	36	Office Beergine	411011											
	37	Size/Sch.: Inle	et	Outlet				1"			2"			
CONNECTIONS			Outlet	Facing			300	RF						
CONNECTIONS	39	Flange Face F	inish							250 µin R	Ra			
		Flange Std.							ASM	E B16.5				
		Body and Bonr		Nozzle & D	Disc (Note 1)			ASTM A105		2016	SS316			
		Seat and Rings								S316				
		Resilient Seat								N/A 3 316				
MATERIALS		Spring	gs							316				
		Bellows								V/A				
		Bolting							<u>'</u>	N//\				
		Comply with N	ACF MR	0175					,	Yes				
		Cap: Screwed								rewed				
		Lever: Plain or								cked				
ACCESSORIES		Test Gag								Yes				
. IOOLOONILO		Bug Screen								No				
		Other								OLT&NU	IT			
		Manufacturer							Will be fi					
		Model							Will be fi					
PURCHASE		Requisition Nu	mber						Will be fi					
	57	1 toquisition Nu							44 III DC III	i wiizeu le				
L	JI													



### نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک



#### (قرارداد ۵۸-۰۰۱۰-BK-HD-GCS)

				II	NSTRUME	NT D.S. FOF	R SAFET	Y VALVES					
		شماره پیمان:	پروژه	بسته کاری	صادركننده	تسهيلات	رشته	نوع مدرک	نسخه	شماره صفحه: ۱۹ از ۱۹			
• 54 - • 1	۳-۹۱	٨۴	BK	GCS	MF	120	IN	DS	0013	V00	شماره صفحه: ۱۹ از ۱۹		
	1	Tag Number							D-PS	SV-2117			
GENERAL	2	Service							FROM	1 P-300-l	3		
GENERAL	3	P & ID No.		Page No.			BK-	GCS-MF-120	-PR-PI-00	003	7/7		
	4	Line No.		Piping Clas	SS		Cl	-111-0006	AS00-1"-I	HI	AS00		
	5		Full, Se							Full			
	6			Relief, Safe						ty-Relief			
VALVE DESIGN	7				ws, Pilot Ope	rated				entional			
		Bonnet Type :								losed			
	9	Seat Type : Seat Tightness	Metal to	Metal, Res	illent					to Meta			
		Fluid	API 527	, Other Phase			\ <b>\</b> /;i	l ha finalizad l		PI-527	be finalized later		
		Required Capa	noity.	Phase		Unit	VVII	l be finalized la	be finalize		i de imalized later		
		Operating Sp.				Offic		VVIII I	Will be fi		ator		
		Molecular Weig							Will be fi				
		Oper. Pressure		Set Pressu	ire	Unit	Will be	e finalized late			ized later		
		Oper. Tempera		Relieving T		Unit		e finalized late			ized later		
	17			Constant	<u> </u>	Unit			be finalize				
	18	Back Pressure	!	Variable		Unit		Will I	be finalize	d later			
	19	İ		Total		Unit		Will I	be finalize	d later			
PROCESS	20	Discharge to		Flare /Atm.		•			Will be fi	nalized l	ater		
CONDITIONS		% Allowable O			ure Factor		Wil	l be finalized l	ater	Wil	l be finalized later		
		Compressibility Factor (Z) Will be fina							ater				
		Latent Heat of						Will I	be finalize				
		Ratio of Specif	ic Heats						Will be fi		ater		
		Relief Density				Unit		Will be finalized later					
		Relief Viscosity				Unit		Will be finalized later  Will be finalized later					
		Barometric Pre	essure										
		Blowdown Cold Differential Test Pressure Unit						147:11	Will be fi		ater		
		Corrosive Serv		ressure Toxic Serv	ioo	Unit	\ <b>\</b> /;i	Will be finalized later  Will be finalized later  Will be finalized later					
		Design Code	rice	Stamp Red			VVII	API-520/526	alei	VVII	i de ilitalizeu ialei		
		Sizing Basis		Starrip Nec	lanea			AF 1-320/320	Block	ed Outle	t		
BASIS AND		Calculated Are	a							( mm <sup>2</sup> )	•		
SELECTION		Selected Area								( mm <sup>2</sup> )			
		Orifice Designa	ation							<i>\</i>			
	36	, , , , , , , , , , , , , , , , , , ,											
	37	Size/Sch. : Inle	et	Outlet				1"			2"		
CONNECTIONS			Outlet	Facing			300	)# 150			RF		
COMMEDITORS		Flange Face F	inish					125 to 250 μin Ra					
		Flange Std.							ASM	E B16.5			
		Body and Bonr		Nozzle & L	isc (Note 1)			ASTM A105		0010	SS316		
		Seat and Rings								S316			
		Resilient Seat								N/A S 316			
MATERIALS		Spring	ys							S 316			
		Bellows								N/A			
		Bolting								11/7			
		Comply with N	ACE MR	0175					,	Yes			
		Cap: Screwed								rewed			
		Lever: Plain or		-						acked			
ACCESSORIES		Test Gag								Yes			
		Bug Screen								No			
		Other								BOLT&N	UT		
		Manufacturer							Will be fi				
		Model							Will be fi				
PURCHASE		Requisition Nu	mber						Will be fi				
	57								00 11	anzou I	u.u.		
	J)	l											