



• 03 - • 73 - 9184



شماره صفحه: ۱ از ۸

DATASHEET FOR SAFETY VALVES							
نسخه	سریال	نوع	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه
V02	0004	DS	IN	120	HY	GCS	BK

DATASHEET FOR SAFETY VALVES

نگهداشت و افزایش تولید میدان نفتی بینک

V02	Dec.2023	IFR	Havayar Co	M.Fakharian	S.Faramarzpour	
V01	Nov.2023	IFR	Havayar Co	M.Fakharian	S.Faramarzpour	
V00	SEP.2023	IFR	Havayar Co	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue/Status	Prepared By	Checked By	Approved By	Client Approval

IFA: Issued For Approval
IFR: Issued For Review
IFI: Issued For Information
AFC: Approved For Construction



NISOC

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض و ابنیه تحت الارض
خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک
(قرارداد ۰۳_۰۰۰۸-GCS-BK-HD)



DATASHEET FOR SAFETY VALVES

نسخه	سریال	نوع	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه
V02	0004	DS	IN	120	HY	GCS	BK

شماره صفحه: ۲ از ۸

REVISION RECORD SHEET

Page	V00	V01	V02	V03	V04
1	X	X	X		
2	X	X	X		
3	X	X	X		
4	X	X	X		
5	X	X	X		
6	X	X	X		
7	X	X	X		
8	X	X	X		
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Page	V00	V01	V02	V03	V04
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		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج های کمپرسور گاز (دفت و برگشتی) بینک (قرارداد ۰۳-۰۰۸-۰۰۰۰-GCS-HD-BK)									
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴		DATASHEET FOR SAFETY VALVES								شماره صفحه: ۳ از ۸	
		پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع	سریال	نسخه		
		BK	GCS	HY	120	IN	DS	0004	V02		
GENERAL											
1	TAG NO.		PSV-2122A/PSV-2123A				PSV-2132A/PSV-2133A				
2	SERVICE		1STG DISCHARGE SNUBBER				2nd STAGE DISCHARGE SNUBBER				
3	P&ID NO.		BK-GCS-HY-120-PR-PI-0001- Page1				BK-GCS-HY-120-PR-PI-0001- Page1				
4	LINE NO. / VESSEL NO.		GAS-111-0036A-CN05-10"-PT				GAS-111-0051A-FN05-6"-IS				
5	FULL NOZZLE, SEMI NOZZLE		FULL NOZZLE				FULL NOZZLE				
6	SAFETY OR RELIEF		SAFETY & RELIEF				SAFETY & RELIEF				
7	CONV., BELLOWS, PILOT OP.		CONVENTIONAL(VTA)				CONVENTIONAL(VTA)				
8	BONNET TYPE		CLOSED				CLOSED				
CONNECTION											
9	SIZE: INLET	OUTLET	3"(VTA)		4"(VTA)		1.1/2"(VTA)		3"(VTA)		
10	FLANGE RATING OR SCRWED: IN	OUT	300#, ASME B 16.5		150#, ASME B 16.5		600#, ASME B 16.5		150#, ASME B 16.5		
11	FACING/ FINISHING : IN	OUT	RF ASME B16.5		RF ASME B16.5		RF ASME B16.5		RF ASME B16.5		
MATERIALS											
12	BODY & BONNET		A216 Gr.WCB (Nace)				A216 Gr.WCB (Nace)				
13	SEAT		Soft /PTFE Coating				PTFE Coating				
14	NOZZLE & Disk		S.S. 316L (Nace)				S.S. 316L (Nace)				
15	GUID AND RINGS		S.S. 316L (Nace)				S.S. 316L (Nace)				
16	SPRINGS		S.S. 316L (Nace)				S.S. 316L (Nace)				
17	BELLOWS		N/A(VTA)				N/A(VTA)				
18	NACE MATERIAL		Yes				Yes				
OPTIONS											
19	CAP : SCREWED OR BOLTED		Screwed				Screwed				
20	LEVER : PLAIN OR PACKED		NOT REQUIRED				NOT REQUIRED				
21	TEST GAG		Yes				Yes				
22	RUPTURE DISC		NO				NO				
BASIS											
23	CODE		API RP 520				API RP 520				
24	FIRE		No				No				
25	OTHER		BLOCK OUTLET				BLOCK OUTLET				
FLUID DATA											
26	FLUID & STATE		Process Gas				Process Gas				
27	REQUIRED CAPACITY		kg/h	8,936			8,936				
28	MOL. WT.	Mass Density (kg/m3)	24.52	14.62		24.52		42.01			
29	OPER. PRESS. Barg	SET PRESSURE Barg	18	24.5		54.9		62			
30	OPER. TEMP. °C	REL. TEMP. °C	129	129		148		148			
31	BACK PRESSURE Barg	CONSTANT	0.8			0.8					
32		VARIABLE	0			0					
33		TOTAL	0.8			0.8					
34	% ALLOWABLE OVER PRESS.		10			10					
35	OVER PRESSURE FACTOR		10%			10%					
36	COMPRESSIBILITY FACTOR (Z)		0.9668			0.9281					
37	LATENT HEAT OF VAPORIZATION (Kj / Kg)		-			-					
38	RATIO OF SPECIFIC HEATS (Cp / Cv)		1.221			1.271					
39	OPERATING VISCOSITY cP		1.49E-02			1.65E-02					
40	barometric pressure	m bara	Summer: 914-winter: 991			Summer: 914-winter: 991					
41	CORROSION		3mm			3mm					
SPECIFICATION											
42	CALCULATION ORIFICE AREA		mm ²	VTA			VTA				
43	SELECTED ORIFICE AREA		mm ²	VTA			VTA				
44	ORIFICE DESIGNATION		VTA			VTA					
45	MANUFACTURE		Kiasa			Kiasa					
46	MODEL NO.										
47	MAXIMUM SOUND LEVEL (db)										

		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج های کمپرسور گاز (دفت و برگشتی) بینک (قرارداد ۰۳-۰۰۸-۰۰۰۰-GCS-HD-BK)								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴		DATASHEET FOR SAFETY VALVES								شماره صفحه: ۴ از ۸
		پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع	سریال	نسخه	
		BK	GCS	HY	120	IN	DS	0004	V02	
GENERAL										
1	TAG NO.		PSV-2122B/PSV-2123B				PSV-2132B/PSV-2133B			
2	SERVICE		1STG DISCHARGE SNUBBER				2nd STAGE DISCHARGE SNUBBER			
3	P&ID NO.		BK-GCS-HY-120-PR-PI-0001- Page1				BK-GCS-HY-120-PR-PI-0001- Page1			
4	LINE NO. / VESSEL NO.		GAS-111-0036A-CN05-10"-PT				GAS-111-0051A-FN05-6"-IS			
5	FULL NOZZLE, SEMI NOZZLE		FULL NOZZLE				FULL NOZZLE			
6	SAFETY OR RELIEF		SAFETY & RELIEF				SAFETY & RELIEF			
7	CONV., BELLOWS, PILOT OP.		CONVENTIONAL(VTA)				CONVENTIONAL(VTA)			
8	BONNET TYPE		CLOSED				CLOSED			
CONNECTION										
9	SIZE: INLET	OUTLET	3"(VTA)		4"(VTA)		1.1/2"(VTA)		3"(VTA)	
10	FLANGE RATING OR SCRWED: IN	OUT	300#, ASME B 16.5		150#, ASME B 16.5		600#, ASME B 16.5		150#, ASME B 16.5	
11	FACING/ FINISHING : IN	OUT	RF ASME B16.5		RF ASME B16.5		RF ASME B16.5		RF ASME B16.5	
MATERIALS										
12	BODY & BONNET		A216 Gr.WCB (Nace)				A216 Gr.WCB (Nace)			
13	SEAT		Soft /PTFE Coating				PTFE Coating			
14	NOZZLE & Disk		S.S. 316L (Nace)				S.S. 316L (Nace)			
15	GUID AND RINGS		S.S. 316L (Nace)				S.S. 316L (Nace)			
16	SPRINGS		S.S. 316L (Nace)				S.S. 316L (Nace)			
17	BELLOWS		N/A(VTA)				N/A(VTA)			
18	NACE MATERIAL		Yes				Yes			
OPTIONS										
19	CAP : SCREWED OR BOLTED		Screwed				Screwed			
20	LEVER : PLAIN OR PACKED		NOT REQUIRED				NOT REQUIRED			
21	TEST GAG		Yes				Yes			
22	RUPTURE DISC		NO				NO			
BASIS										
23	CODE		API RP 520				API RP 520			
24	FIRE		No				No			
25	OTHER		BLOCK OUTLET				BLOCK OUTLET			
FLUID DATA										
26	FLUID & STATE		Process Gas				Process Gas			
27	REQUIRED CAPACITY		kg/h	8,936			8,936			
28	MOL. WT.	Mass Density (kg/m3)	24.52	14.62		24.52	42.01			
29	OPER. PRESS. Barg	SET PRESSURE Barg	18	24.5		54.9	62			
30	OPER. TEMP. °C	REL. TEMP. °C	129	129		148	148			
31	BACK PRESSURE Barg	CONSTANT	0.8			0.8				
32		VARIABLE	0			0				
33		TOTAL	0.8			0.8				
34	% ALLOWABLE OVER PRESS.		10			10				
35	OVER PRESSURE FACTOR		10%			10%				
36	COMPRESSIBILITY FACTOR (Z)		0.9668			0.9281				
37	LATENT HEAT OF VAPORIZATION (Kj / Kg)		-			-				
38	RATIO OF SPECIFIC HEATS (Cp / Cv)		1.221			1.271				
39	OPERATING VISCOSITY cP		1.49E-02			1.65E-02				
40	barometric pressure	m bara	Summer: 914-winter: 991			Summer: 914-winter: 991				
41	CORROSION		3mm			3mm				
SPECIFICATION										
42	CALCULATION ORIFICE AREA	mm ²	VTA			VTA				
43	SELECTED ORIFICE AREA	mm ²	VTA			VTA				
44	ORIFICE DESIGNATION		VTA			VTA				
45	MANUFACTURE		Kiasa			Kiasa				
46	MODEL NO.									
47	MAXIMUM SOUND LEVEL (db)									

		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج های کمپرسور گاز (دفت و برگشتی) بینک (قرارداد ۰۳-۰۰۸-۰۰۰۰-GCS-HD-BK)									
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴		DATASHEET FOR SAFETY VALVES								شماره صفحه: ۵ از ۸	
		پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع	سریال	نسخه		
		BK	GCS	HY	120	IN	DS	0004	V02		
GENERAL											
1	TAG NO.		PSV-2122C/PSV-2123C				PSV-2132C/PSV-2133C				
2	SERVICE		1STG DISCHARGE SNUBBER				2nd STAGE DISCHARGE SNUBBER				
3	P&ID NO.		BK-GCS-HY-120-PR-PI-0001- Page1				BK-GCS-HY-120-PR-PI-0001- Page1				
4	LINE NO. / VESSEL NO.		GAS-111-0036A-CN05-10"-PT				GAS-111-0051A-FN05-6"-IS				
5	FULL NOZZLE, SEMI NOZZLE		FULL NOZZLE				FULL NOZZLE				
6	SAFETY OR RELIEF		SAFETY & RELIEF				SAFETY & RELIEF				
7	CONV., BELLOWS, PILOT OP.		CONVENTIONAL(VTA)				CONVENTIONAL(VTA)				
8	BONNET TYPE		CLOSED				CLOSED				
CONNECTION											
9	SIZE: INLET	OUTLET	3"(VTA)		4"(VTA)		1.1/2"(VTA)		3"(VTA)		
10	FLANGE RATING OR SCRWED: IN	OUT	300#, ASME B 16.5		150#, ASME B 16.5		600#, ASME B 16.5		150#, ASME B 16.5		
11	FACING/ FINISHING : IN	OUT	RF ASME B16.5		RF ASME B16.5		RF ASME B16.5		RF ASME B16.5		
MATERIALS											
12	BODY & BONNET		A216 Gr.WCB (Nace)				A216 Gr.WCB (Nace)				
13	SEAT		Soft /PTFE Coating				PTFE Coating				
14	NOZZLE & Disk		S.S. 316L (Nace)				S.S. 316L (Nace)				
15	GUID AND RINGS		S.S. 316L (Nace)				S.S. 316L (Nace)				
16	SPRINGS		S.S. 316L (Nace)				S.S. 316L (Nace)				
17	BELLOWS		N/A(VTA)				N/A(VTA)				
18	NACE MATERIAL		Yes				Yes				
OPTIONS											
19	CAP : SCREWED OR BOLTED		Screwed				Screwed				
20	LEVER : PLAIN OR PACKED		NOT REQUIRED				NOT REQUIRED				
21	TEST GAG		Yes				Yes				
22	RUPTURE DISC		NO				NO				
BASIS											
23	CODE		API RP 520				API RP 520				
24	FIRE		No				No				
25	OTHER		BLOCK OUTLET				BLOCK OUTLET				
FLUID DATA											
26	FLUID & STATE		Process Gas				Process Gas				
27	REQUIRED CAPACITY		kg/h	8,936			8,936				
28	MOL. WT.	Mass Density (kg/m3)	24.52	14.62		24.52		42.01			
29	OPER. PRESS. Barg	SET PRESSURE Barg	18	24.5		54.9		62			
30	OPER. TEMP. °C	REL. TEMP. °C	129	129		148		148			
31	BACK PRESSURE Barg	CONSTANT	0.8			0.8					
32		VARIABLE	0			0					
33		TOTAL	0.8			0.8					
34	% ALLOWABLE OVER PRESS.		10			10					
35	OVER PRESSURE FACTOR		10%			10%					
36	COMPRESSIBILITY FACTOR (Z)		0.9668			0.9281					
37	LATENT HEAT OF VAPORIZATION (Kj / Kg)		-			-					
38	RATIO OF SPECIFIC HEATS (Cp / Cv)		1.221			1.271					
39	OPERATING VISCOSITY cP		1.49E-02			1.65E-02					
40	barometric pressure	m bara	Summer: 914-winter: 991			Summer: 914-winter: 991					
41	CORROSION		3mm			3mm					
SPECIFICATION											
42	CALCULATION ORIFICE AREA		mm ²	VTA			VTA				
43	SELECTED ORIFICE AREA		mm ²	VTA			VTA				
44	ORIFICE DESIGNATION		VTA			VTA					
45	MANUFACTURE		Kiasa			Kiasa					
46	MODEL NO.										
47	MAXIMUM SOUND LEVEL (db)										

		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد ۰۰۰۸۰۳-BK-HD-GCS-CO-)							
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴		DATASHEET FOR SAFETY VALVES						شماره صفحه: ۶ از ۸	
		پروژه	بسته کاری	صادر کننده	تجهیزات	رشته	نوع		سریال
		BK	GCS	HY	120	IN	DS		0004
GENERAL									
1	TAG NO.		PSV-2203A			PSV-2204A			
2	SERVICE		N2 Gas Supply			N2 Gas Supply			
3	P&ID NO.		BK-GCS-HY-120-PR-PI-0001-Page4			BK-GCS-HY-120-PR-PI-0001-Page4			
4	LINE NO. / VESSEL NO.		NIT-112-0002A-SS-1"-IS			NIT-112-0001A-SS-1"-IS			
5	FULL NOZZLE, SEMI NOZZLE		FULL NOZZLE			FULL NOZZLE			
6	SAFETY OR RELIEF		SAFETY & RELIEF			SAFETY & RELIEF			
7	CONV., BELLOWS, PILOT OP.		CONVENTIONAL			CONVENTIONAL			
8	BONNET TYPE		CLOSED			CLOSED			
CONNECTION									
9	SIZE: INLET	OUTLET	1/2"		1/2"		1/2"		
10	FLANGE RATING OR SCRWED: IN	OUT	Threaded		Threaded		Threaded		
11	FACING/ FINISHING : IN	OUT	-		-		-		
MATERIALS									
12	BODY & BONNET		A 351 CF8M			A 351 CF8M			
13	SEAT		Hard/S.S.316L			Hard/S.S.316L			
14	NOZZLE & Disk		S.S. 316L			S.S. 316L			
15	GUID AND RINGS		S.S. 316L			S.S. 316L			
16	SPRINGS		S.S. 316L			S.S. 316L			
17	BELLOWS		NOT REQUIRED			NOT REQUIRED			
18	NACE MATERIAL		NOT REQUIRED			NOT REQUIRED			
OPTIONS									
19	CAP : SCREWED OR BOLTED		Screwed			Screwed			
20	LEVER : PLAIN OR PACKED		NOT REQUIRED			NOT REQUIRED			
21	TEST GAG		Yes			Yes			
22	RUPTURE DISC		NO			NO			
BASIS									
23	CODE		API RP 520			API RP 520			
24	FIRE		No			No			
25	OTHER		BLOCK OUTLET			BLOCK OUTLET			
FLUID DATA									
26	FLUID & STATE		N2 Gas Supply			N2 Gas Supply			
27	REQUIRED CAPACITY		Nm3/h		3		3		
28	MOL. WT.	Mass Density (kg/m3)	28.01		2.037		28.01		
29	OPER. PRESS. Barg	SET PRESSURE Barg	1		2.8		2.2		
30	OPER. TEMP. °C	REL TEMP. °C	60		60		60		
31	BACK PRESSURE Barg	CONSTANT	NO		NO		NO		
32		VARIABLE	NO		NO		NO		
33		TOTAL	NO		NO		NO		
34	% ALLOWABLE OVER PRESS.		10		10		10		
35	OVER PRESSURE FACTOR		10%		10%		10%		
36	COMPRESSIBILITY FACTOR (Z)		9.99E-01		0.999		0.999		
37	LATENT HEAT OF VAPORIZATION (Kj / Kg)		-		-		-		
38	RATIO OF SPECIFIC HEATS (Cp / Cv)		1.4		1.4		1.4		
39	OPERATING VISCOSITY cP		1.99E-02		1.99E-02		1.99E-02		
40	barometric pressure	m bara	Summer: 914-winter: 991		Summer: 914-winter: 991		Summer: 914-winter: 991		
41	CORROSION								
SPECIFICATION									
42	CALCULATION ORIFICE AREA	mm ²	VTA		VTA		VTA		
43	SELECTED ORIFICE AREA	mm ²	VTA		VTA		VTA		
44	ORIFICE DESIGNATION		Kiasa Performance		Kiasa Performance		Kiasa Performance		
45	MANUFACTURE		Kiasa		Kiasa		Kiasa		
46	MODEL NO.								
47	MAXIMUM SOUND LEVEL (db)								
Note: As per API standard minimum orifice letter is "D" & the letter is too much for required flow. we have chatterin in PSV for flange PSV & orifice D So threaded PSV has been supplied.									



		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد ۰۳-۰۰۸-۰۰۰۸-GCS-HD-BK)								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴		DATASHEET FOR SAFETY VALVES							شماره صفحه: ۸ از ۸	
		پروژه	بسته کاری	صادر کننده	تمپلالت	رشته	نوع	سریال		نسخه
		BK	GCS	HY	120	IN	DS	0004		V02
GENERAL										
1	TAG NO.		PSV-2203C				PSV-2204C			
2	SERVICE		N2 Gas Supply				N2 Gas Supply			
3	P&ID NO.		BK-GCS-HY-120-PR-PI-0001-Page4				BK-GCS-HY-120-PR-PI-0001-Page4			
4	LINE NO. / VESSEL NO.		NIT-112-0002A-SS-1"-IS				NIT-112-0001A-SS-1"-IS			
5	FULL NOZZLE, SEMI NOZZLE		FULL NOZZLE				FULL NOZZLE			
6	SAFETY OR RELIEF		SAFETY & RELIEF				SAFETY & RELIEF			
7	CONV., BELLOWS, PILOT OP.		CONVENTIONAL				CONVENTIONAL			
8	BONNET TYPE		CLOSED				CLOSED			
CONNECTION										
9	SIZE: INLET	OUTLET	1/2"		1/2"		1/2"		1/2"	
10	FLANGE RATING OR SCREWED: IN	OUT	Threaded		Threaded		Threaded		Threaded	
11	FACING/ FINISHING : IN	OUT	-		-		-		-	
MATERIALS										
12	BODY & BONNET		A 351 CF8M				A 351 CF8M			
13	SEAT		Hard/S.S.316L				Hard/S.S.316L			
14	NOZZLE & Disk		S.S. 316L				S.S. 316L			
15	GUID AND RINGS		S.S. 316L				S.S. 316L			
16	SPRINGS		S.S. 316L				S.S. 316L			
17	BELLOWS		NOT REQUIRED				NOT REQUIRED			
18	NACE MATERIAL		NOT REQUIRED				NOT REQUIRED			
OPTIONS										
19	CAP : SCREWED OR BOLTED		Screwed				Screwed			
20	LEVER : PLAIN OR PACKED		NOT REQUIRED				NOT REQUIRED			
21	TEST GAG		Yes				Yes			
22	RUPTURE DISC		NO				NO			
BASIS										
23	CODE		API RP 520				API RP 520			
24	FIRE		No				No			
25	OTHER		BLOCK OUTLET				BLOCK OUTLET			
FLUID DATA										
26	FLUID & STATE		N2 Gas Supply				N2 Gas Supply			
27	REQUIRED CAPACITY		Nm3/h		3		3			
28	MOL. WT.	Mass Density (kg/m3)	28.01		2.037		28.01		3.251	
29	OPER. PRESS. Barg	SET PRESSURE Barg	1		2.8		2.2		2.8	
30	OPER. TEMP. °C	REL. TEMP. °C	60		60		60		60	
31	BACK PRESSURE Barg	CONSTANT	NO		NO		NO			
32		VARIABLE	NO		NO		NO			
33		TOTAL	NO		NO		NO			
34	% ALLOWABLE OVER PRESS.		10		10		10			
35	OVER PRESSURE FACTOR		10%		10%		10%			
36	COMPRESSIBILITY FACTOR (Z)		9.99E-01		0.999		0.999			
37	LATENT HEAT OF VAPORIZATION (Kj / Kg)		-		-		-			
38	RATIO OF SPECIFIC HEATS (Cp / Cv)		1.4		1.4		1.4			
39	OPERATING VISCOSITY cP		1.99E-02		1.99E-02		1.99E-02			
40	barometric pressure	m bara	Summer: 914-winter: 991				Summer: 914-winter: 991			
41	CORROSION									
SPECIFICATION										
42	CALCULATION ORIFICE AREA		mm ²		VTA		VTA			
43	SELECTED ORIFICE AREA		mm ²		VTA		VTA			
44	ORIFICE DESIGNATION		Kiasa Performance		Kiasa Performance		Kiasa Performance			
45	MANUFACTURE		Kiasa		Kiasa		Kiasa			
46	MODEL NO.									
47	MAXIMUM SOUND LEVEL (db)									
Note: As per API standard minimum orifice letter is "D" & the letter is too much for required flow. we have chatterin in PSV for flange PSV & orifice D So threaded PSV has been supplied.										