

 NISOC	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-HD-BK)																			
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	DATASHEET FOR SAFETY VALVES <table border="1"> <tr> <td>نسخه</td> <td>سریال</td> <td>نوع</td> <td>رشته</td> <td>تمهيلات</td> <td>صادر کننده</td> <td>بسته کاری</td> <td>پروژه</td> </tr> <tr> <td>V01</td> <td>0004</td> <td>DS</td> <td>IN</td> <td>120</td> <td>HY</td> <td>GCS</td> <td>BK</td> </tr> </table>		نسخه	سریال	نوع	رشته	تمهيلات	صادر کننده	بسته کاری	پروژه	V01	0004	DS	IN	120	HY	GCS	BK	شماره صفحه: ۱ از ۸	
نسخه	سریال	نوع	رشته	تمهيلات	صادر کننده	بسته کاری	پروژه													
V01	0004	DS	IN	120	HY	GCS	BK													
طرح نگهداشت و افزایش تولید ۲۷ مخزن DATASHEET FOR SAFETY VALVES نگهداشت و افزایش تولید میدان نفتی بینک																				
Rev.	Date	Purpose of Issue/Status	Prepared By	Checked By	Approved By	Client Approval														
status: 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_۰۰۸_۰۰۰۰-GCS-BK-HD)



HAVAYAR
INDUSTRIAL GROUP

DATASHEET FOR SAFETY VALVES

نسخه	سریال	نوع	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه
V01	0004	DS	IN	120	HY	GCS	BK

شماره صفحه: ۲ از ۸

Revision Record Sheet

Page	V00	V01	V02	V03	V04
1	X	X			
2	X	X			
3	X	X			
4	X	X			
5	X	X			
6	X	X			
7	X	X			
8	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 (درفت و برگشتی) بینک (قرارداد ۰۳-۰۸-۰۰۰۰-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	V01	
GENERAL										
1	TAG NO.		PSV-2192A/PSV-2193A				PSV-2194A/PSV-2195A			
2	SERVICE		1STG DISCHARGE SNUBBER				2nd STAGE DISCHARGE SNUBBER			
3	P&ID NO.		BK-GCS-HY-120-PR-PI-0001				BK-GCS-HY-120-PR-PI-0001			
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.		Will be finalized				Will be finalized			
8	BONNET TYPE		CLOSED				CLOSED			
CONNECTION										
9	SIZE: INLET	OUTLET	3"		4"		1.1/2"		3"	
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		Will be finalized				Will be finalized			
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		55	62			
30	OPER. TEMP. °C	REL. TEMP. °C	129	129.1		147	148.9			
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	914			914				
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	V01	
GENERAL										
1	TAG NO.		PSV-2192B/PSV-2193B				PSV-2194B/PSV-2195B			
2	SERVICE		1STG DISCHARGE SNUBBER				2nd STAGE DISCHARGE SNUBBER			
3	P&ID NO.		BK-GCS-HY-120-PR-PI-0001				BK-GCS-HY-120-PR-PI-0001			
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.		Will be finalized				Will be finalized			
8	BONNET TYPE		CLOSED				CLOSED			
CONNECTION										
9	SIZE: INLET	OUTLET	3"		4"		1.1/2"		3"	
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		Will be finalized				Will be finalized			
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		55	62			
30	OPER. TEMP. °C	REL. TEMP. °C	129	129.1		147	148.9			
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	914			914				
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)									

 NISOC		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)						 HAVAYAR INDUSTRIAL GROUP		
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	V01	
GENERAL										
1	TAG NO.		PSV-2192C/PSV-2193C				PSV-2194C/PSV-2195C			
2	SERVICE		1STG DISCHARGE SNUBBER				2nd STAGE DISCHARGE SNUBBER			
3	P&ID NO.		BK-GCS-HY-120-PR-PI-0001				BK-GCS-HY-120-PR-PI-0001			
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.		Will be finalized				Will be finalized			
8	BONNET TYPE		CLOSED				CLOSED			
CONNECTION										
9	SIZE: INLET	OUTLET	3"		4"		1.1/2"		3"	
10	FLANGE RATING OR SCREWED: 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		Will be finalized				Will be finalized			
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		55	62			
30	OPER. TEMP. °C	REL. TEMP. °C	129	129.1		147	148.9			
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	914			914				
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)									

		تکده‌داشت 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	تسهلات	رشته	نوع		سریال	نسخه
		BK	GCS	HY	120	IN	DS		0004	V01
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			BK-GCS-HY-120-PR-PI-0001				
4	LINE NO. / VESSEL NO.		NIT-112-0002A-SS-1"-NP			NIT-112-0001A-SS-1"-NP				
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	3.251			
29	OPER. PRESS. Barg	SET PRESSURE Barg	1	3.5		2.2	3.5			
30	OPER. TEMP. °C	REL TEMP. °C	60	60		60	60			
31	BACK PRESSURE Barg	CONSTANT	NO		NO					
32		VARIABLE	NO		NO					
33		TOTAL	NO		NO					
34	% ALLOWABLE OVER PRESS.		10		10					
35	OVER PRESSURE FACTOR		10%		10%					
36	COMPRESSIBILITY FACTOR (Z)		9.99E-01		0.999					
37	LATENT HEAT OF VAPORIZATION (Kj / Kg)		-		-					
38	RATIO OF SPECIFIC HEATS (Cp / Cv)		1.4		1.4					
39	OPERATING VISCOSITY cP		1.99E-02		1.99E-02					
40	barometric pressure	m bara	914		914					
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					
45	MANUFACTURE		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	تجهیزات	رشته	نوع	سریال		نسخه
		BK	GCS	HY	120	IN	DS	0004		V01
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				BK-GCS-HY-120-PR-PI-0001			
4	LINE NO. / VESSEL NO.		NIT-112-0002A-SS-1"-NP				NIT-112-0001A-SS-1"-NP			
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 SCRWED: 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		3.5		2.2	
30	OPER. TEMP.	°C	REL. TEMP.	°C	60		60		60	
31	BACK PRESSURE	Barg	CONSTANT		NO		NO			
32			VARIABLE		NO		NO			
33			TOTAL		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		914		914			
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.										