



شماره ۵ بهمانه:

• 03 - • 73 - 9184

تکدداشت و افزایش تولید میدان نفتی بینک
سطح الارض و ابنیه تحت الارض
خرید پکیج های کمپرسور گاز (دفت و برگشتی) بینک
(قرارداد ۰۳-۰۰۸-BK-HD-GCS-CO-)



شماره صفحه: ۱ از ۹

DATASHEET FOR SAFETY VALVES							
نسخه	سریال	نوع	رشته	تجهیزات	صادر کننده	بسته کاری	پروژه
V04	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

V04	Oct.2024	IFR	Havayar CO	M.Fakharian	M.SADEGHIAN	
V03	Jan.2024	IFR	Havayar CO	M.Fakharian	S.Faramarzpour	
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

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status:
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CLIENT Doc. Number:

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
V04	0004	DS	IN	120	HY	GCS	BK

شماره صفحه: ۲ از ۹

Tabulation Of Revised Pages

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1	X	X	X	X	X
2	X	X	X	X	X
3	X	X	X	X	X
4	X	X	X	X	X
5	X	X	X	X	X
6	X	X	X	X	X
7	X	X	X	X	X
8	X	X	X	X	X
9				X	X
10				X	
11				X	
12				X	
13				X	
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15				X	
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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-BK-HD-GCS-CO)								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴		DATASHEET FOR SAFETY VALVES								شماره صفحه: ۳ از ۹
		نسخه	سریال	نوع	رشته	تهیهات	صادر کننده	بسته کاری	پروژه	
		V04	0004	DS	IN	120	HY	GCS	BK	
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-CN05-6"-IS				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				CONVENTIONAL			
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 MR0175)				A216 Gr.WCB (NACE MR0175)			
13	SEAT		Hard/S.S. 316 L Stellite Gr. 6				Hard/S.S. 316 L Stellite Gr. 6			
14	NOZZLE & Disk		S.S. 316L (NACE MR0175)				S.S. 316L (NACE MR0175)			
15	GUID AND RINGS		S.S. 316L (NACE MR0175)				S.S. 316L (NACE MR0175)			
16	SPRINGS		S.S. 316L (NACE MR0175)				S.S. 316L (NACE MR0175)			
17	BELLOWS		N/A				N/A			
18	NACE MR0175 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	8,935.5			8,935.5			
28	MOL. WT.	Mass Density (kg/m3)	24.52	14.62		24.52	42.01			
29	OPER. PRESS. Barg	SET PRESSURE Barg	18	22		54.9	62			
30	OPER. TEMP. °C	REL. TEMP. °C	129	159		148	170			
31	BACK PRESSURE Barg	CONSTANT	1			1				
32		VARIABLE	0			0				
33		TOTAL	1			1				
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	562.7			224.65			
43	SELECTED ORIFICE AREA		mm ²	908			325			
44	ORIFICE DESIGNATION		J			G				
45	MANUFACTURE		Kiasa			Kiasa				
46	MODEL NO.		C3J42/1A21705			C1.5G33/1A21705				
47	Noise Level @ 30 m		109.13 dB			109.13 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-BK-HD-GCS-CO)								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴		DATASHEET FOR SAFETY VALVES								شماره صفحه: ۴ از ۹
		نسخه	سریال	نوع	رشته	تهیهات	صادر کننده	بسته کاری	پروژه	
		V04	0004	DS	IN	120	HY	GCS	BK	
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-111-0036B-CN05-6"-IS				GAS-111-0051B-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				CONVENTIONAL			
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 MR0175)				A216 Gr.WCB (NACE MR0175)			
13	SEAT		Hard/S.S. 316 L Stellite Gr. 6				Hard/S.S. 316 L Stellite Gr. 6			
14	NOZZLE & Disk		S.S. 316L (NACE MR0175)				S.S. 316L (NACE MR0175)			
15	GUID AND RINGS		S.S. 316L (NACE MR0175)				S.S. 316L (NACE MR0175)			
16	SPRINGS		S.S. 316L (NACE MR0175)				S.S. 316L (NACE MR0175)			
17	BELLOWS		N/A				N/A			
18	NACE MR0175 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	8,935.5			8,935.5			
28	MOL. WT.	Mass Density (kg/m3)	24.52	14.62		24.52	42.01			
29	OPER. PRESS. Barg	SET PRESSURE Barg	18	22		54.9	62			
30	OPER. TEMP. °C	REL. TEMP. °C	129	159		148	170			
31	BACK PRESSURE Barg	CONSTANT	1			1				
32		VARIABLE	0			0				
33		TOTAL	1			1				
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	562.7			224.65			
43	SELECTED ORIFICE AREA		mm ²	908			325			
44	ORIFICE DESIGNATION		J			G				
45	MANUFACTURE		Kiasa			Kiasa				
46	MODEL NO.		C3J42/1A21705			C1.5G33/1A21705				
47	MAXIMUM SOUND LEVEL (db)		109.13 dB			109.13 dB				



تکهداشت و افزایش تولید میدان نفتی بینک
سطح الارض و ابنیه تحت الارض
خرید کپچ های کمپرسور گاز (رفت و برگشتی) بینک
(ق ارداد ۰۳-۰۰۸-BK-HD-GCS-CO)



شماره پیمان:
۵۳ - ۰۷۳ - ۹۱۸۴

DATASHEET FOR SAFETY VALVES

شماره صفحه: ۵ از ۹

پروژه

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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-111-0036C-CN05-6"-IS	GAS-111-0051C-FN05-6"-IS
5	FULL NOZZLE, SEMI NOZZLE	FULL NOZZLE	FULL NOZZLE
6	SAFETY OR RELIEF	SAFETY & RELIEF	SAFETY & RELIEF
7	CONV., BELLOW, PILOT OP.	CONVENTIONAL	CONVENTIONAL
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 MR0175)	A216 Gr.WCB (NACE MR0175)
13	SEAT	Hard/S.S. 316 L Stellite Gr. 6	Hard/S.S. 316 L Stellite Gr. 6
14	NOZZLE & Disk	S.S. 316L (NACE MR0175)	S.S. 316L (NACE MR0175)
15	GUID AND RINGS	S.S. 316L (NACE MR0175)	S.S. 316L (NACE MR0175)
16	SPRINGS	S.S. 316L (NACE MR0175)	S.S. 316L (NACE MR0175)
17	BELLOWS	N/A	N/A
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	8,935.5		8,935.5		
28	MOL. WT.		Mass Density (kg/m3)	24.52	14.62	24.52	42.01	
29	OPER. PRESS.	Barg	SET PRESSURE	Barg	18	22	54.9	62
30	OPER. TEMP.	°C	REL. TEMP.	°C	129	159	148	170
31	BACK PRESSURE		Barg	CONSTANT		1		
VARIABLE				0				
TOTAL				1				
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	
1	1.1
2	2.1
3	3.1
4	4.1
5	5.1
6	6.1
7	7.1
8	8.1
9	9.1
10	10.1
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42	42.1
43	43.1
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85	85.1
86	86.1
87	87.1
88	88.1
89	89.1
90	90.1
91	91.1
92	92.1
93	93.1
94	94.1
95	95.1
96	96.1
97	97.1
98	98.1
99	99.1
100	100.1

42	CALCULATION ORIFICE AREA	mm ²	562.7	224.65
43	SELECTED ORIFICE AREA	mm ²	908	325
44	ORIFICE DESIGNATION		J	G
45	MANUFACTURE		Kiasa	Kiasa
46	MODEL NO.		C3J42/1A21705	C1.5G33/1A21705
47	MAXIMUM SOUND LEVEL (db)		109.13 dB	109.13 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: ۶ از ۹
		پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع	سریال	نسخه	
		BK	GCS	HY	120	IN	DS	0004	V04	
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"	
10	FLANGE RATING OR SCRWD: IN	OUT	300#, ASME B 16.5		150#, ASME B 16.5		300#, 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		SA351 CF8M				SA351 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	0.5		2.8		2		2.8	
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	Summer: 914-winter: 991				Summer: 914-winter: 991			
41	CORROSION		N/A				N/A			
SPECIFICATION										
42	CALCULATION ORIFICE AREA	mm ²	1.33				1.33			
43	SELECTED ORIFICE AREA	mm ²	78.5				78.5			
44	ORIFICE DESIGNATION		D				D			
45	MANUFACTURE		Kiasa				Kiasa			
46	MODEL NO.		C1D22/1A21700				C1D22/1A21700			
47	MAXIMUM SOUND LEVEL (db)		86 dB				86 dB			

 NISOC		تگه‌داشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنيه تحت الارض خريد پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد ۰۳_۰۰۰۸_۰۰۰۰-BK-HD-GCS-CO)						 HAVAYAR INDUSTRIAL GROUP				
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴		DATASHEET FOR SAFETY VALVES							شماره صفحه: ۷ از ۹			
		نسخه	سریال	نوع	رشته	تهیهات	صادرکننده	بسته کاری			پروژه	
		V04	0004	DS	IN	120	HY	GCS			BK	
GENERAL												
1	TAG NO.			PSV-2203B				PSV-2204B				
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-112-0002B-SS-1"-IS				NIT-112-0001B-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"	
10	FLANGE RATING OR SCRWED: IN		OUT		300#, ASME B 16.5		150#, ASME B 16.5		300#, 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			SA351 CF8M				SA351 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		0.5		2.8		2		2.8	
30	OPER. TEMP. °C		REL. TEMP. °C		60		60		60		60	
31	BACK PRESSURE Barg		CONSTANT		NO		NO					
VARIABLE			NO		NO							
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		Summer: 914-winter: 991				Summer: 914-winter: 991			
41	CORROSION											
SPECIFICATION												
42	CALCULATION ORIFICE AREA		mm ²		1.33		1.33					
43	SELECTED ORIFICE AREA		mm ²		78.5		78.5					
44	ORIFICE DESIGNATION			D				D				
45	MANUFACTURE			Kiasa				Kiasa				
46	MODEL NO.			C1D22/1A21700				C1D22/1A21700				
47	MAXIMUM SOUND LEVEL (db)			86 dB				86 dB				



تجهداشت 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-CO-BK-HD)



شماره پیمان:

• 03 - • 73 - 9184

DATASHEET FOR SAFETY VALVES

شماره صفحه: ۸ از ۹

پروژه

کار

صادر کنندہ

تسهيلات

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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-112-0002C-SS-1"-IS	NIT-112-0001C-SS-1"-IS
5	FULL NOZZLE, SEMI NOZZLE	FULL NOZZLE	FULL NOZZLE
6	SAFETY OR RELIEF	SAFETY & RELIEF	SAFETY & RELIEF
7	CONV., BELLOW, PILOT OP.	CONVENTIONAL	CONVENTIONAL
8	BONNET TYPE	CLOSED	CLOSED

CONNECTION

9	SIZE: INLET	OUTLET	1"	2"	1"	2"
10	FLANGE RATING OR SCREWED: IN	OUT	300# ,ASME B 16.5	150# ,ASME B 16.5	300# ,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	SA351 CF8M	SA351 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	0.5	2.8	2	2.8
30	OPER. TEMP.	°C	REL. TEMP.	°C	60	60	60	60
31	BACK PRESSURE		Barg	CONSTANT		NO		
VARIABLE				NO				
TOTAL				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	Summer: 914-winter: 991		Summer: 914-winter: 991		
41	CORROSION							

	SPECIFICATION
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42	CALCULATION ORIFICE AREA	mm ²	1.33	1.33
43	SELECTED ORIFICE AREA	mm ²	78.5	78.5
44	ORIFICE DESIGNATION		D	D
45	MANUFACTURE		Kiasa	Kiasa
46	MODEL NO.		C1D22/1A21700	C1D22/1A21700
47	MAXIMUM SOUND LEVEL (db)		86 dB	86 dB

 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج های کمپرسور گاز (رقت و برگشتی) بینک (قرارداد ۰۳-۰۰۸-GCS-HD-BK) DATASHEET FOR SAFETY VALVES						 HAVAYAR INDUSTRIAL GROUP	
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴		شماره صفحه: ۹ از ۹							
		نسخه	سر مال	نوع	رشته	تجهیزات	صادر کننده	بسته کاری	پروژه
		V04	0004	DS	IN	120	HY	GCS	BK

GENERAL									
1	TAG NO.		RV-2200 A/B/C				RV-2201 A/B/C		
2	SERVICE		Oil Skid				Oil Skid		
3	P&ID NO.		BK-GCS-HY-120-PR-PI-0001-Page3				BK-GCS-HY-120-PR-PI-0001-Page3		
4	LINE NO. / VESSEL NO.		OIL-112-0004A-S.S-1.1/2"-IS				OIL-112-0003A-S.S-2"-IS		
5	FULL NOZZLE, SEMI NOZZLE		FULL NOZZLE				FULL NOZZLE		
6	SAFETY OR RELIEF		RELIEF				RELIEF		
7	CONV., BELLOW, PILOT OP.		CONVENTIONAL				CONVENTIONAL		
8	BONNET TYPE		CLOSED				CLOSED		
CONNECTION									
9	SIZE: INLET	OUTLET	1"		2"		1"		2"
10	FLANGE RATING OR SCRWED: IN	OUT	300# ,ASME B 16.5		150# ,ASME B 16.5		300# ,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		SA351 CF8M				SA351 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		Lube Oil, ISO VG-100				Lube Oil, ISO VG-100		
27	REQUIRED CAPACITY		lit/min		131		131		
28	MOL. WT.	Mass Density (kg/m3)			862		862		
29	OPER. PRESS.	Barg	SET PRESSURE	Barg	5		5		7
30	OPER. TEMP.	°C	REL. TEMP.	°C	70		70		70
31	BACK PRESSURE		CONSTANT		NO		NO		
VARIABLE			NO		NO				
TOTAL			NO		NO				
34	% ALLOWABLE OVER PRESS.		10				10		
35	OVER PRESSURE FACTOR		10%				10%		
36	COMPRESSIBILITY FACTOR (Z)		6.08E-02				0.0608		
37	LATENT HEAT OF VAPORIZATION (kj / Kg)		-				-		
38	RATIO OF SPECIFIC HEATS (Cp / Cv)		1.153				1.153		
39	OPERATING VISCOSITY cP		1.94E+01				1.94E+01		
40	barometric pressure		m bara		Summer: 914-winter: 991		Summer: 914-winter: 991		
41	CORROSION								
SPECIFICATION									
42	CALCULATION ORIFICE AREA		mm ²		81.26		81.26		
43	SELECTED ORIFICE AREA		mm ²		154		154		
44	ORIFICE DESIGNATION		E				E		
45	MANUFACTURE		Kiasa				Kiasa		
46	MODEL NO.		C1E22/1C21705				C1E22/1C21705		
47	MAXIMUM SOUND LEVEL (db)		86 dB				86 dB		