

0	rev	RECIPROCATING COMPRESSOR DATA SHEET									
1	CUSTOMER: <b>Rabigh Refining and Petrochem</b>			LOCATION <b>Rabigh, Kingdom of Saudi Arabia</b>							
2	SERVICE: <b>Sales Gas Compressor</b>										
3	MODEL: <b>2HE/1</b>		Q.TY: <b>2</b>	ITEM: <b>R280-K-03 A-B</b>							
4	CYLINDER Construction: <input type="radio"/> LUBE <input checked="" type="radio"/> NO LUBE										
5	OPERATING CONDITIONS (FOR EACH MACHINE)										
6	-SERVICE No.		1								
7	-CASE		DESIGN								
8	-STAGE		1								
9	-GAS HANDLED		xxx								
10	-MOLECULAR WEIGHT		17.56								
11	-SUCTION PRESSURE (at cyl.flange)	Bar A	15.65								
12	-SUCTION TEMPERATURE	°C	40								
13	-DISCHARGE PRESSURE (at cyl.flange)	Bar A	38.43								
14	-EXPECT. DISCHARGE TEMP.	°C	116								
15	-MFR CAPACITY (*)	Kg/h	25,826								
16		Nm3/h	32,967								
17	-SHAFT POWER	kW	1,264								
18	-RATED SPEED	RPM	355								
19	-RECOMM. DRIVER POWER	kW	1,450								
20											
21	(*) MFR Capacity=Required Capacity/0.97 as per API 618 (on suction side dry basis)										
22											
23	CYLINDER DATA										
24	-SERVICE / STAGE		1 / 1								
25	-N° OF CYL. PER STAGE		2								
26	-SINGLE/DOUBLE ACTING		DA								
27	-BORE	mm	380								
28	-STROKE	mm	290								
29	-PISTON ROD DIAMETER	mm	90								
30	-PISTON DISPLACEMENT	m3/h	2,723.6								
31	-VOL. EFFICIENCY	%									
32	-N° OF IN/OUT VALVE PER END										
33	-VALVE TYPE		RINGS								
34	-PISTON SPEED	m/s	3.43								
35	-ACTUAL OPER. PRESSURE (at cyl. flange)	Bar A	38.4								
36	-RELIEF VALVE SETTING	Bar A	42.5								
37	-MAX. ALLOW. WORK. PRESS.	Bar A	42.2								
38	-MAX. ALLOW. WORK. TEMP.	°C	200								
39	-HYDROSTATIC TEST PRESS.	Bar A	63.3								
40	-MAX ALL. COMB.WRIST PIN LOAD COMPR.	daN	53,300								
41	-MAX ALL. COMB.WRIST PIN LOAD TENSION	daN	49,000								
42	-COMB.WRIST PIN LOAD, COMPR.	daN	27,341								
43	-COMB.WRIST PIN LOAD, TENSION	daN	22,936								
44											
45	MATERIALS (ASTM or EQUIVALENT)										
46	Cylinder		NCI								
47	Liner		CI								
48	Piston rings / wear bands / packing rings		Filled PTFE								
49	Piston rod		SS								
50											
51	KEY: CI= cast iron - NCI= nodular iron - CS= cast steel - FS= forged steel										
52	AS=alloy steel - SS= stainless steel										
53											
54	<u>NOTES:</u>										
55	<u>This machine selection and above data are preliminary.</u>										
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57											
58											
59											