

0 rev	RECIPROCATING COMPRESSOR DATA SHEET									
1	CUSTOMER: ENI			LOCATION Italy						
2	SERVICE: Makeup and Hysomerization									
3	MODEL: 2HE/1-1		Q.TY: 2	ITEM: k-001						
4	CYLINDER Construction: <input checked="" type="radio"/> LUBE <input type="radio"/> NO LUBE									
5	OPERATING CONDITIONS (FOR EACH MACHINE)									
6	-SERVICE No.		1	2						
7	-CASE		DESIGN	DESIGN						
8	-STAGE		1	1						
9	-GAS HANDLED		Next Page	Next Page						
10	-MOLECULAR WEIGHT		2.03	2.47						
11	-SUCTION PRESSURE (at cyl.flange)	Bar A	30.73	31.85						
12	-SUCTION TEMPERATURE	°C	40	51						
13	-DISCHARGE PRESSURE (at cyl.flange)	Bar A	47.01	55.61						
14	-EXPECT. DISCHARGE TEMP.	°C	86	111						
15	-MFR CAPACITY (*)	Kg/h	3,028	3,715						
16		Nm3/h	33,395	33,769						
17	-SHAFT POWER	kW	1,367	---->						
18	-RATED SPEED	RPM	370	---->						
19	-RECOMM. DRIVER POWER	kW	1,550	---->						
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	2 / 1						
25	-N° OF CYL. PER STAGE		1	1						
26	-SINGLE/DOUBLE ACTING		DA	DA						
27	-BORE	mm	380	390						
28	-STROKE	mm	290	290						
29	-PISTON ROD DIAMETER	mm	90	90						
30	-PISTON DISPLACEMENT	m3/h	1,419.3	1,497.2						
31	-VOL. EFFICIENCY	%								
32	-N° OF IN/OUT VALVE PER END									
33	-VALVE TYPE		RINGS	RINGS						
34	-PISTON SPEED	m/s	3.58	3.58						
35	-ACTUAL OPER. PRESSURE (at cyl. flange)	Bar G	46.1	54.7						
36	-RELIEF VALVE SETTING	Bar G	50.8	60.2						
37	-MAX. ALLOW. WORK. PRESS.	Bar G	51.8	61.2						
38	-MAX. ALLOW. WORK. TEMP.	°C	200	200						
39	-HYDROSTATIC TEST PRESS.	Bar G	77.7	91.8						
40	-MAX ALL. COMB.WRIST PIN LOAD COMPR.	daN	53,300	53,300						
41	-MAX ALL. COMB.WRIST PIN LOAD TENSION	daN	49,000	49,000						
42	-COMB.WRIST PIN LOAD, COMPR.	daN	25,036	34,054						
43	-COMB.WRIST PIN LOAD, TENSION	daN	19,057	27,356						
44										
45	MATERIALS (ASTM or EQUIVALENT)									
46	Cylinder		NCI	NCI						
47	Liner		CI	CI						
48	Piston rings / wear bands / packing rings		Filled PTFE	Filled PTFE						
49	Piston rod		SS	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	NOTES:									
55	This machine selection and above data are preliminary.									
56										
57	Baker Hughes Confidential									
58										
59										