

0	rev	RECIPROCATING COMPRESSOR DATA SHEET									
1	CUSTOMER: daewoo turkmenistan ammonia			LOCATION turkmenistan							
2	SERVICE: N2 compressor										
3	MODEL: 2HA/2			Q.TY: 1	ITEM: U-GB-701						
4	CYLINDER Construction: <input type="radio"/> LUBE <input checked="" type="radio"/> NO LUBE										
5	OPERATING CONDITIONS (FOR EACH MACHINE)										
6	-SERVICE No.		1	1							
7	-CASE		DESIGN	DESIGN							
8	-STAGE		1	2							
9	-GAS HANDLED		Next Page	Next Page							
10	-MOLECULAR WEIGHT		28.01	28.01							
11	-SUCTION PRESSURE (at cyl.flange)	Bar A	4.84	10.21							
12	-SUCTION TEMPERATURE	°C	38	40							
13	-DISCHARGE PRESSURE (at cyl.flange)	Bar A	10.57	21.73							
14	-EXPECT. DISCHARGE TEMP.	°C	121	121							
15	-MFR CAPACITY (*)	Kg/h	515	515							
16		Nm3/h	412	412							
17	-SHAFT POWER	kW	36	----							
18	-RATED SPEED	RPM	490	----							
19	-RECOMM. DRIVER POWER	kW	50	----							
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	1 / 2							
25	-N° OF CYL. PER STAGE		1	1							
26	-SINGLE/DOUBLE ACTING		DA	DA							
27	-BORE	mm	130	100							
28	-STROKE	mm	180	180							
29	-PISTON ROD DIAMETER	mm	48	48							
30	-PISTON DISPLACEMENT	m3/h	130.9	73.6							
31	-VOL. EFFICIENCY	%									
32	-N° OF IN/OUT VALVE PER END										
33	-VALVE TYPE		RINGS	RINGS							
34	-PISTON SPEED	m/s	2.94	2.94							
35	-ACTUAL OPER. PRESSURE (at cyl. flange)	Bar G	9.6	20.8							
36	-RELIEF VALVE SETTING	Bar G	10.6	22.9							
37	-MAX. ALLOW. WORK. PRESS.	Bar G	11.6	23.9							
38	-MAX. ALLOW. WORK. TEMP.	°C	200	200							
39	-HYDROSTATIC TEST PRESS.	Bar G	17.4	35.9							
40	-MAX ALL. COMB.WRIST PIN LOAD COMPR.	daN	14,470	14,470							
41	-MAX ALL. COMB.WRIST PIN LOAD TENSION	daN	14,470	14,470							
42	-COMB.WRIST PIN LOAD, COMPR.	daN	1,521	1,428							
43	-COMB.WRIST PIN LOAD, TENSION	daN	1,490	897							
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											
58											
59											