

0	rev	RECIPROCATING COMPRESSOR DATA SHEET									
1	CUSTOMER: daewoo turkmenistan ammonia			LOCATION turkmenistan							
2	SERVICE: Startup H2 Recycle Compressor										
3	MODEL: OA/1		Q.TY: 1	ITEM: A-175-J							
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		Next Page								
10	-MOLECULAR WEIGHT		12.27								
11	-SUCTION PRESSURE (at cyl.flange)		Bar A	36.97							
12	-SUCTION TEMPERATURE		°C	70							
13	-DISCHARGE PRESSURE (at cyl.flange)		Bar A	44.05							
14	-EXPECT. DISCHARGE TEMP.		°C	91							
15	-MFR CAPACITY (*)		Kg/h	1,770							
16			Nm3/h	3,233							
17	-SHAFT POWER		kW	31							
18	-RATED SPEED		RPM	370							
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								
25	-N° OF CYL. PER STAGE		1								
26	-SINGLE/DOUBLE ACTING		DA								
27	-BORE		mm	130							
28	-STROKE		mm	220							
29	-PISTON ROD DIAMETER		mm	#N/A							
30	-PISTON DISPLACEMENT		m3/h	#N/A							
31	-VOL. EFFICIENCY		%								
32	-N° OF IN/OUT VALVE PER END										
33	-VALVE TYPE		RINGS								
34	-PISTON SPEED		m/s	2.71							
35	-ACTUAL OPER. PRESSURE (at cyl. flange)		Bar G	43.1							
36	-RELIEF VALVE SETTING		Bar G	47.5							
37	-MAX. ALLOW. WORK. PRESS.		Bar G	48.5							
38	-MAX. ALLOW. WORK. TEMP.		°C	200							
39	-HYDROSTATIC TEST PRESS.		Bar G	72.8							
40	-MAX ALL. COMB.WRIST PIN LOAD COMPR.		daN	#N/A							
41	-MAX ALL. COMB.WRIST PIN LOAD TENSION		daN	#N/A							
42	-COMB.WRIST PIN LOAD, COMPR.		daN	2,503							
43	-COMB.WRIST PIN LOAD, TENSION		daN	1,128							
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	NOTES:										
55	This machine selection and above data are preliminary.										
56											
57											
58											
59											