

ITEM 1144-101
SERVICE: GAS ADSORBERS
TYPE: ELECTRICAL HEATER
DUTY: 12 kW
DESIGN PRESS: 31 bar g
DESIGN TEMP: 340°C

ITEM 1144-102
SERVICE: GAS ADSORBERS
TYPE: ELECTRICAL HEATER
DUTY: 12 kW
DESIGN PRESS: 340°C
DESIGN TEMP: 340°C

ITEM 114-E-103
SERVICE: GAS ADSORBERS
TYPE: ELECTRICAL HEATER
DUTY: 12 kW
DESIGN PRESS: 32 bar g
DESIGN TEMP: 340°C

ITEM 114-E-104
SERVICE: GAS ADSORBERS
TYPE: ELECTRICAL HEATER
DUTY: 12 kW
DESIGN PRESS: 32 bar g
DESIGN TEMP: 340°C

ITEM 114-E-105
SERVICE: GAS ADSORBERS
TYPE: ELECTRICAL HEATER
DUTY: 12 kW
DESIGN PRESS: 32 bar g
DESIGN TEMP: 340°C

ITEM 114-E-106
SERVICE: GAS ADSORBERS
TYPE: ELECTRICAL HEATER
DUTY: 12 kW
DESIGN PRESS: 32 bar g
DESIGN TEMP: 340°C

ITEM 114-E-107
SERVICE: GAS ADSORBERS
TYPE: ELECTRICAL HEATER
DUTY: 12 kW
DESIGN PRESS: 32 bar g
DESIGN TEMP: 340°C

- NOTES**
1. INSTRUMENTATION SYSTEM FOR HEATER ASSEMBLY
 2. INSTRUMENTATION SYSTEM FOR HEATER ASSEMBLY
 3. INSTRUMENTATION SYSTEM FOR HEATER ASSEMBLY
 4. INSTRUMENTATION SYSTEM FOR HEATER ASSEMBLY
 5. INSTRUMENTATION SYSTEM FOR HEATER ASSEMBLY
 6. INSTRUMENTATION SYSTEM FOR HEATER ASSEMBLY
 7. INSTRUMENTATION SYSTEM FOR HEATER ASSEMBLY
 8. INSTRUMENTATION SYSTEM FOR HEATER ASSEMBLY

GENERAL NOTES

ALL INSTRUMENTS TO BE 1/4" NPT

1/4" NPT

1/4" NPT

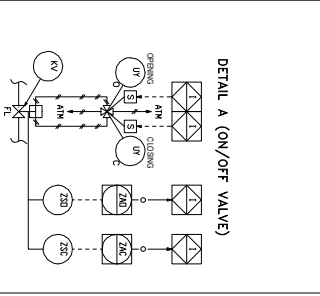
1/4" NPT

HOLDS

1. 1/4" NPT

2. 1/4" NPT

3. 1/4" NPT



THIS PID IS BASED ON DRAWING NO. 114-001-0111 BY MEANS

ITEM	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	VALVE	1	EA	100.00	100.00
2	ACTUATOR	1	EA	200.00	200.00
3	PISTON	1	EA	50.00	50.00
4	SEAL	1	EA	10.00	10.00
5	SPRING	1	EA	20.00	20.00
6	SCREW	1	EA	10.00	10.00
7	WASHER	1	EA	10.00	10.00
8	NUT	1	EA	10.00	10.00
9	KEY	1	EA	10.00	10.00
10	LOCKWASHER	1	EA	10.00	10.00
11	LOCKNUT	1	EA	10.00	10.00
12	SPRING WASHER	1	EA	10.00	10.00
13	SCREW	1	EA	10.00	10.00
14	WASHER	1	EA	10.00	10.00
15	NUT	1	EA	10.00	10.00
16	KEY	1	EA	10.00	10.00
17	LOCKWASHER	1	EA	10.00	10.00
18	LOCKNUT	1	EA	10.00	10.00
19	SPRING WASHER	1	EA	10.00	10.00
20	SCREW	1	EA	10.00	10.00
21	WASHER	1	EA	10.00	10.00
22	NUT	1	EA	10.00	10.00
23	KEY	1	EA	10.00	10.00
24	LOCKWASHER	1	EA	10.00	10.00
25	LOCKNUT	1	EA	10.00	10.00
26	SPRING WASHER	1	EA	10.00	10.00
27	SCREW	1	EA	10.00	10.00
28	WASHER	1	EA	10.00	10.00
29	NUT	1	EA	10.00	10.00
30	KEY	1	EA	10.00	10.00
31	LOCKWASHER	1	EA	10.00	10.00
32	LOCKNUT	1	EA	10.00	10.00
33	SPRING WASHER	1	EA	10.00	10.00
34	SCREW	1	EA	10.00	10.00
35	WASHER	1	EA	10.00	10.00
36	NUT	1	EA	10.00	10.00
37	KEY	1	EA	10.00	10.00
38	LOCKWASHER	1	EA	10.00	10.00
39	LOCKNUT	1	EA	10.00	10.00
40	SPRING WASHER	1	EA	10.00	10.00
41	SCREW	1	EA	10.00	10.00
42	WASHER	1	EA	10.00	10.00
43	NUT	1	EA	10.00	10.00
44	KEY	1	EA	10.00	10.00
45	LOCKWASHER	1	EA	10.00	10.00
46	LOCKNUT	1	EA	10.00	10.00
47	SPRING WASHER	1	EA	10.00	10.00
48	SCREW	1	EA	10.00	10.00
49	WASHER	1	EA	10.00	10.00
50	NUT	1	EA	10.00	10.00
51	KEY	1	EA	10.00	10.00
52	LOCKWASHER	1	EA	10.00	10.00
53	LOCKNUT	1	EA	10.00	10.00
54	SPRING WASHER	1	EA	10.00	10.00
55	SCREW	1	EA	10.00	10.00
56	WASHER	1	EA	10.00	10.00
57	NUT	1	EA	10.00	10.00
58	KEY	1	EA	10.00	10.00
59	LOCKWASHER	1	EA	10.00	10.00
60	LOCKNUT	1	EA	10.00	10.00
61	SPRING WASHER	1	EA	10.00	10.00
62	SCREW	1	EA	10.00	10.00
63	WASHER	1	EA	10.00	10.00
64	NUT	1	EA	10.00	10.00
65	KEY	1	EA	10.00	10.00
66	LOCKWASHER	1	EA	10.00	10.00
67	LOCKNUT	1	EA	10.00	10.00
68	SPRING WASHER	1	EA	10.00	10.00
69	SCREW	1	EA	10.00	10.00
70	WASHER	1	EA	10.00	10.00
71	NUT	1	EA	10.00	10.00
72	KEY	1	EA	10.00	10.00
73	LOCKWASHER	1	EA	10.00	10.00
74	LOCKNUT	1	EA	10.00	10.00
75	SPRING WASHER	1	EA	10.00	10.00
76	SCREW	1	EA	10.00	10.00
77	WASHER	1	EA	10.00	10.00
78	NUT	1	EA	10.00	10.00
79	KEY	1	EA	10.00	10.00
80	LOCKWASHER	1	EA	10.00	10.00
81	LOCKNUT	1	EA	10.00	10.00
82	SPRING WASHER	1	EA	10.00	10.00
83	SCREW	1	EA	10.00	10.00
84	WASHER	1	EA	10.00	10.00
85	NUT	1	EA	10.00	10.00
86	KEY	1	EA	10.00	10.00
87	LOCKWASHER	1	EA	10.00	10.00
88	LOCKNUT	1	EA	10.00	10.00
89	SPRING WASHER	1	EA	10.00	10.00
90	SCREW	1	EA	10.00	10.00
91	WASHER	1	EA	10.00	10.00
92	NUT	1	EA	10.00	10.00
93	KEY	1	EA	10.00	10.00
94	LOCKWASHER	1	EA	10.00	10.00
95	LOCKNUT	1	EA	10.00	10.00
96	SPRING WASHER	1	EA	10.00	10.00
97	SCREW	1	EA	10.00	10.00
98	WASHER	1	EA	10.00	10.00
99	NUT	1	EA	10.00	10.00
100	KEY	1	EA	10.00	10.00

HEATERS		AIR COOLER		EXCHANGERS	
114-H-01		114-A-02		114-E-10	
114-H-02				114-E-04	

UTILITY PID NUMBER