Low Pressure Regulating Tank



Description

Type 42813A regulating tank is used to provide a reservoir of regulated dry air for cables and waveguides. It is set for an operating pressure of 6 oz/sq in (0.026 kg/sq cm). The regulating tank is equipped with a low pressure regulator valve which reduces the tank pressure to 6 oz/sq in operating pressure, and has a built-in relief which releases air from the cable or waveguide system when the pressure exceeds 16 oz/sq in (.07 kg/sq cm). A lowpressure sensor with form C dry contacts activates a remote warning light or alarm (not supplied) when the pressure in the system falls below 1.6 oz/sq in (.007 kg/sq cm). A 0 to 20 oz/sq in (0 to .088 kg/sq cm) pressure gauge for reading system pressure is supplied. A 20 ft (6 m) length of 3/8 in (9 mm) diameter polyethylene tubing and fitting are included for interconnections. Type 42813A-2 is not equipped with a low-pressure sensor.

Notice

The installation, maintenance or removal of antenna systems requires qualified, experienced personnel. Andrew installation instructions have been written for such personnel. Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance and condition of equipment.

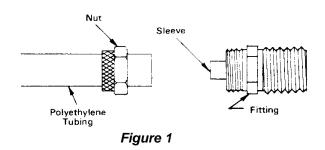
Andrew disclaims any liability or responsibility for the results of improper or unsafe installation practices.

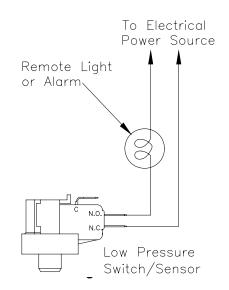
Read the Instructions Thoroughly Before Assembly

- 1. Place regulating tank near dehydrator and in area where pressure gauge is visible. Refer to Figure 3 and parts list on reverse side.
- 2. Remove pipe plug and connect 1/8 NPT male connector fining to inlet on cable or waveguide connector. Use a suitable pipe-thread sealer, such as Teflon tape or pipe dope, to insure a pressure-tight connection. Tighten with small wrench.
- 3. Cut tubing to required lengths for connections between dehydrator, regulating tank, and cable or waveguide inlet. Cut ends square. To connect

tubing, remove nut from fitting, discarding plastic cap, place nut onto end of tubing, and slip tubing over sleeve extending from fitting. See Figure 1. Push tubing into fitting as far as possible. Thread nut onto fitting and tighten with wrench.

- 4. Connect the Low Pressure Switch/sensor to the light or alarm (not supplied). Use the (3) female terminals included to connect to the common terminal and normally open or normally closed terminals on the sensor. Refer to figure 2.
- After initial installation and whenever fittings are assembled, system should be checked for leaks. Use commercial leak detector or liquid detergent over joints and check for bubbles. Unbroken soap film over entire joint for several minutes will indicate very small leaks.

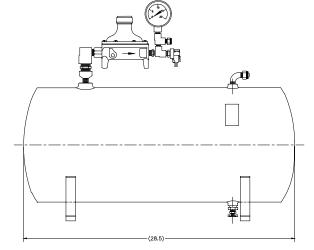


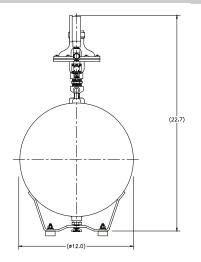


INSTRUCTION BULLETIN

Low Pressure Regulating Tank

Installation





Replacement Parts

	Part Number	Description	Units Per Assembly	
			42813A	42813A-2
1	42815	Air Tank and Bracket	1	0
2	42371-3	Rubber Mount	4	4
3	ENUTS-11080	5/16 Nut, Hex	4	4
4				
5	25436-87	3/4 NPT Hex Nipple	1	1
6	202337	Low Pressure Regulator	1	1
7	25436.57	3/4 to 1/4 Reducing Bushing	1	1
8	25436-86	Street Elbow	1	1
9	9908-500	1/4 Pipe Plug	1	2
10	25436-63	Male Conn. NPT – 3/8 T	1	1
11	25436-64	Male Elbow ¼ NPT – 3/8 T	1	1
12	33117-1	Pressure Gauge, 20 oz	1	1
13	AE01J-A0734-301	Low Pressure Sensor	1	0
14	ESCRS-22612	1/4-20 X 3/4 Long PPH Screw	2	0
15	9869-9	Plastic Cap	1	0
16	25436-1	Cap, 3/8 Tube	2	2
17				
18	EFTGP-22342	Fitting, Brass RED, ¼ x 1/8 NPT	1	0
19				
20	25437-1	Tube 3/8 O.D. 20 ft Lg.	1	1
21				
22	EWSHL-11060	1/4 Split Lock Washer	2	0
23	ENUTS-11070	1/4-20 Hex Nut	2	0
24				
25	25436-17	1/4 NPT Tee	2	2
26	40504-2	Air Tank	0	1
27				
28	ETERD-22320	Terminal, FEM, .25	3	0
29				
30				
31	25436-24	Street Elbow, ¼ M & F NPT	1	0
32	9997-74	5/16 Flat Washer	4	4
33	9886-515	Adapter, 1/2 M-NPT to 3/4 F-NPT	1	1
34	EWSHF-10602	1/4 Flat Washer	2	0
35	EWSHL-11070	5/16 Split Lock Washer	4	4

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