

## OXYGEN

### GENERAL

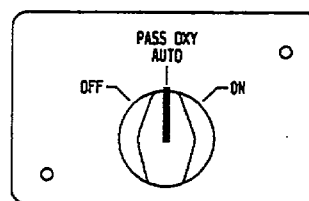
Oxygen for flight crew and passengers is supplied from a 49 or 76-cubic foot oxygen cylinder. The oxygen cylinder pressure gauge is located on the instrument panel. Refer to the oxygen utilization chart for duration of oxygen supply (Figure 3-3).

A three-position oxygen control switch (oxygen control valve) is located on the pilot's left console. The three positions are OFF / PASS OXY AUTO / ON. In the PASS OXY AUTO position, if the cabin altitude exceeds approximately 14,500 feet, the passenger masks will automatically drop. Oxygen will flow to these masks when the lanyard is pulled as the mask is donned. Therapeutic oxygen may be supplied to the passengers at any cabin altitude by placing the selector valve in the ON position. This will cause all masks in the cabin to deploy. Oxygen flow may be shut off from passenger masks by positioning the oxygen priority valve to the OFF (crew only) position.

### PILOT'S SIDE CONSOLE OXYGEN CONTROL AND OUTLETS



6618T1002



9912541-1

Figure 2-23

### OXYGEN MASKS

The crew oxygen mask is a quick donning mask with a microphone and regulator attachment. The mask is a diluter demand with pressure breathing available by selecting the EMER position. The crew member is assured that oxygen is being received when no restriction to breathing is present with the mask donned and in the 100% position. Selection of the EMER position will provide a steady flow of pressurized oxygen in the face cone. To qualify as a quick donning mask, the mask must be properly stowed in the receptacle located in the cockpit side console. To conserve oxygen when using the mask, the regulator may be set to normal if the cabin altitude is below 20,000 feet.

When using an oxygen mask for smoke protection, 100% position should be selected. The emergency position may be used with the oxygen mask.

The high altitude airport mode is automatically selected when a field elevation above 8000 feet is set into the cabin pressurization controller. In this mode, the automatic passenger oxygen mask drop is inhibited below cabin altitudes of approximately 14,500 feet.

### OXYGEN MASK MIC AND HEADSET MIC

A two-position toggle switch is provided on the pilot's and copilot's instrument panels. The switch is marked MIC OXY MASK and MIC HEADSET. Depressing the microphone button on the appropriate control wheel allows a crew member to transmit through the headset microphone or oxygen mask microphone, whichever is selected.

#### NOTE

Cockpit masks are assumed to be at the normal setting below 20,000 feet cabin altitude with a respiratory rate of 10 liters per minute - body temperature pressure saturated and at 100% setting at and above 25,000 feet.

### EROS CREW MASK AND 49-CUBIC FOOT CYLINDER

AVAILABLE TIME IN MINUTES									
CABIN ALTITUDE	1 COCKPIT	2 COCKPIT	2 COCKPIT 2 CABIN	2 COCKPIT 4 CABIN	2 COCKPIT 6 CABIN	2 COCKPIT 8 CABIN	2 COCKPIT 10 CABIN	2 COCKPIT 11 CABIN	2 COCKPIT 12 CABIN
8,000	839	420	106	61	42	33	27	24	22
10,000	964	482	110	62	43	33	27	25	23
15,000	964	482	112	63	44	34	28	25	23
20,000	757	379	107	62	44	34	28	25	23
25,000	405	202	87	55	41	32	27	24	22
27,000	475	237							
29,000	523	261							
31,000	588	294							
33,000	663	332							
35,000	748	374							
37,000	851	426							
39,000	1037	518							

### EROS CREW MASK AND 76-CUBIC FOOT CYLINDER

AVAILABLE TIME IN MINUTES									
CABIN ALTITUDE	1 COCKPIT	2 COCKPIT	2 COCKPIT 2 CABIN	2 COCKPIT 4 CABIN	2 COCKPIT 6 CABIN	2 COCKPIT 8 CABIN	2 COCKPIT 10 CABIN	2 COCKPIT 11 CABIN	2 COCKPIT 12 CABIN
8,000	1308	654	165	94	66	51	41	38	34
10,000	1502	751	172	97	68	52	42	38	35
15,000	1502	751	175	99	69	53	43	39	36
20,000	1180	590	167	97	69	53	43	39	36
25,000	630	315	136	86	63	50	41	38	35
27,000	740	370							
29,000	815	407							
31,000	916	458							
33,000	1034	517							
35,000	1165	583							
37,000	1326	663							
39,000	1616	808							

### CREW OXYGEN SCHEMATIC

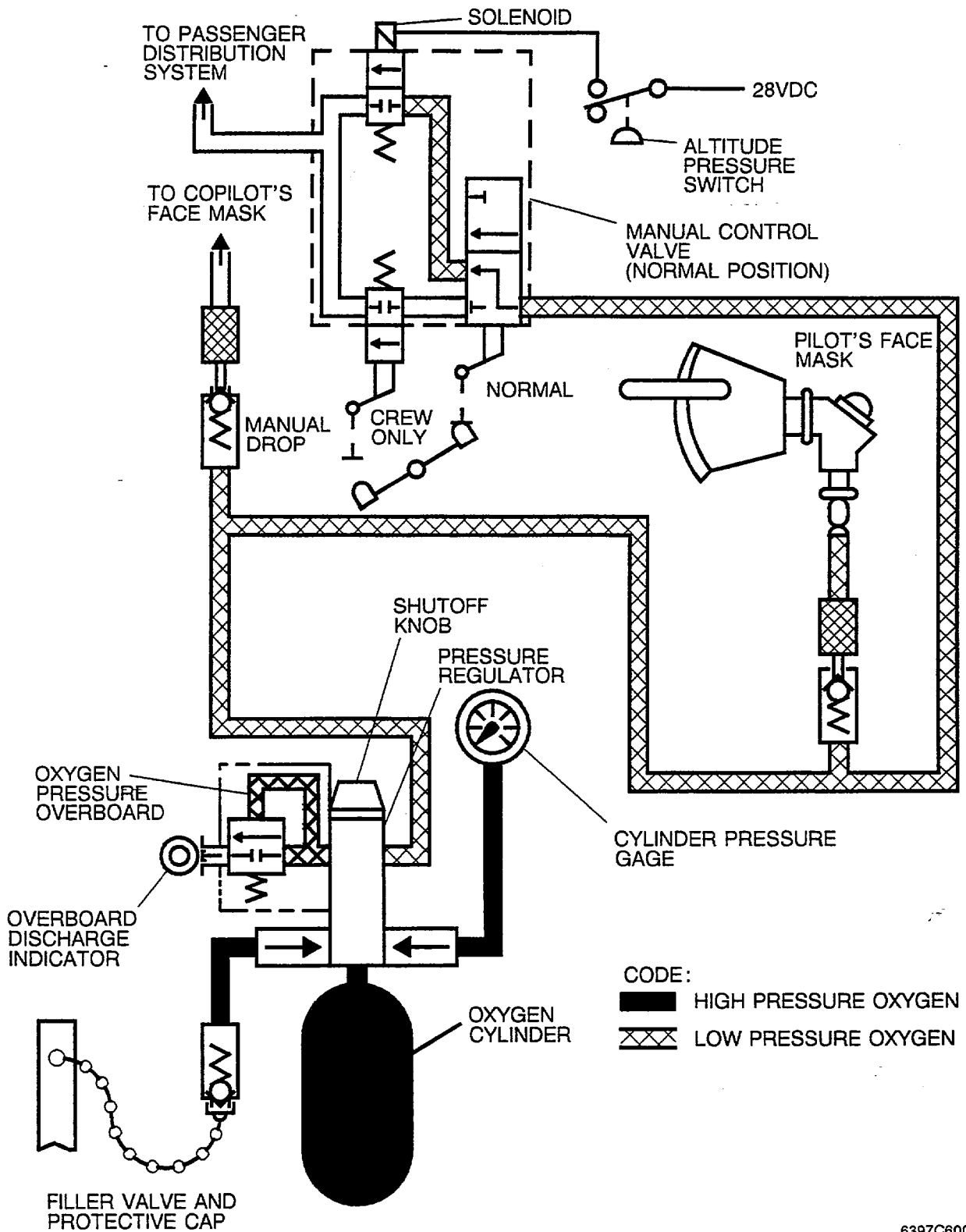


Figure 2-24

6397C6001