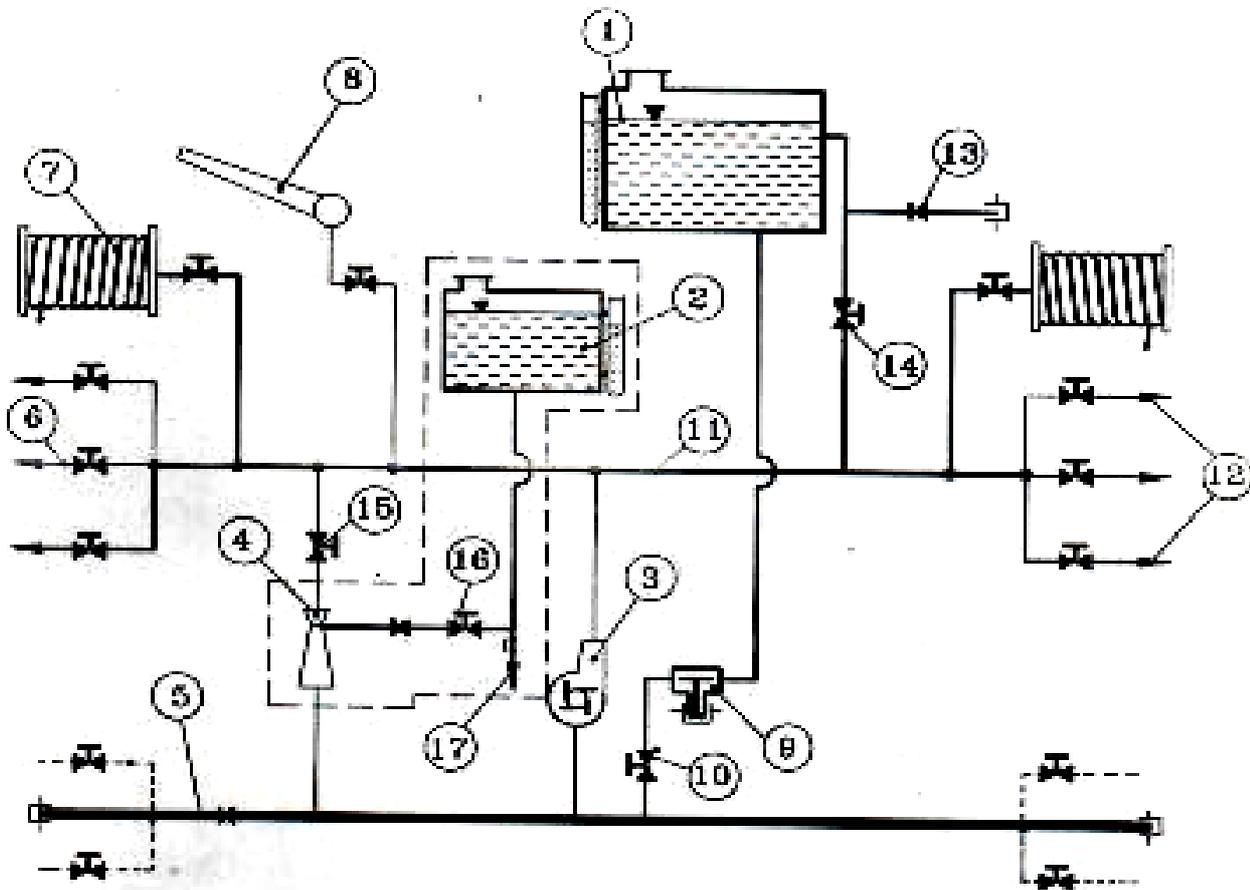


**Water and Foam piping system  
With midship pump  
PF-200**



- |  |   |
|--|---|
| 1. Water tank  | 2. Foam tank  |
| 3. Fire pump   | 4. Foam mixer and foam percentage adjustment valve            |
| 5. Suction line 4" and 2.5"                            | 6. 2.5" drainage standby outlets.                             |
| 7. First interference reel                             | 8. Water-foam monitor   |
| 9. Sieve to prevent the dirt from reaching the tank    | 10. Pump suction inlet valve                                  |
| 11. Drainage line                                      | 12. Main 2.5" drainage valve.                                 |
| 13. Opening for filling up the tank from the fire tap. | 14. Tank suction valve from pump.                             |
| 15. Water inlet valve to the mixer.                    | 16. Foam tank drainage valve.                                 |
| 17. Suction and drainage foam valve.                   | 18. Suction inlet 4", 5" or 6" from an external water source. |
| 19. 2.5" suction opening from hydrant.                 |   |

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## **Pump Feed**

1. From the tank: by pumping water from the tank which opens valve 10, the
2. Water enters through the sieve 9. The stopper at 9 can be opened to drain
3. The tank. The water enters into the suction line 5, into the pump 3, and out
4. To the drainage line 11 to the rest of the outlets.
5. From external water sources into the suction openings: suction openings 18, can be opened bringing in water to the pump 3, then to the drainage
6. From the hydrant suction outlets: the suction inlets 19 can be installed on
7. The hydrant pipes or on another vehicle.

## **Drainage outlets:**

Drainage line 11 connected to openings 12, to be connected to drainage hoses, optional openings can be added 6, connected to the drainage line are 2 outlets for the reels 7, 3" monitor drainage line 8.

Water tank fill

1. External water hose from an external piping system to be connected to
2. Outlet 13, to fill the tank, with a non return valve.
3. From the main drainage pipe 11, valve 14 is opened and water flows
4. Through any pump drainage outlet.
5. Upper tank hole: from an elevated water source.

## **Foam tank fill:**

1. Manually by opening the tank top and pouring the contents inside.
2. Via a pump by installing it on valve 17, opening valve 16, and operating
3. The pump manually or electrically depending on its type.

## **Mixing method:**

1. The water pump is operated and valves 15 and 16 are opened.
2. The water enters with high pressure into the mixer 4, creating a pressure
3. Difference in the foam suction line , which then sucks the foam with high
4. Concentration to the mixer 4.
5. The mixer pushes the water and foam mixture into the pump suction line 5,
6. Also into the pump inlet opening.
7. The pump mixes the foam with the water well to decrease the foam
8. Concentration to the required ratio which is 1:10 depending on the
9. Positioning of the handle which is predetermined depending on the type of
10. Foam used.
11. The foam mixture exits through all the outlets including monitor, hose
12. Reels, and drainage outlets.

## **Foam Line cleaning:**

1. The pump is operated and valve 16 closed, valves 15 and 17 opened.
2. The water exits from all the drainage outlets until all the lines are washed and the water is clean, then valves 15 and 17 are closed.

## **Filling and dumping of the foam tank:**

1. Through valves 16 and 17.

**Manufacturing & design are according to NFPA.**

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