ATMOSPHERIC FOAM CONCENTRATE STORAGE TANK



TECHNICAL DATA

| STORAGE CAPACITY | 200 to 10000 Ltrs. |
|-----------------------------|--|
| MATERIAL OF CONSTRUCTION | Stainless Steel (304 or 316) or Carbon Steel with FRP Lining |
| EXPANSION DOME | 2% of Total Tank Capacity |
| FINISH | Red RAL 3001 or Yellow |
| ORDERING INFORMATION | Specify Tank Capacity, Material of Construction of Tank, Optional: Accessories |

APPLICATION

Atmospheric foam concentrate storage tank is used with Inline Foam Inductor and Inline Balance Pressure Foam Proportioning system. Refer to data-sheets/product catalogues of these devices for equipment operational and installation guidelines.

DESCRIPTION

The atmospheric foam concentrate storage tank is manufactured in stainless sel material. The tank is provided with an expansion dome with a volume not less than 2% of the total capacity of the tank. All the tanks must be kept filled upto the level of half way of expansion dome. A sediment sump is provided at the bottom of the concentrate tank. The tank is provided with an inlet, an outlet, a drain connection and a fill connection. The horizontal tanks are supported by two saddles/legs welded to the tank and drilled for anchoring. Tank is provided with lifting lugs, designed to lift empty tanks. The tank has flat ends but can be provided with dished ends if needed.

When using AFFF or AR-AFFF type foam concentrates in the storage tank, it is recommended that a thin layer (approximately 6mm) of a quality mineral/ sealer oil be placed on the surface of the foam concentrate after filling the tank with the correct quantity. This alleviates the problem associated with evaporation of the foam concentrate. The foam concentrate should be inspected periodically following any of these standards: NFPA 11, EN 13565-2, or other relevant standards. For tanks containing mineral oil, special tools should be used during annual sampling exercise to make sure no oil is taken with the foam. Stainless steel pipes need to be used for all interconnecting piping to the tank, especially with HD AFFF/AR-AFFF types of foam concentrates.

Carbon Steel pipes shall not be used and pipes carrying foam concentrate shall not be galvanized. Foam spillage over the coated tank shall be avoided or cleaned immediately with clean water. Atmospheric Foam Concentrate Storage tank shall be designed as per ASME Section VIII Div-1 with standard thickness, however the thickness other than standard can be provided as per the requirement.



INSTALLATION

- If the tank has been received in a satisfactory condition, place the tank in the desired level location and anchor to the ground. The tank should be lifted with the use of lifting lugs only.
- If possible, leave an area around the tank free from any walls and obstacles etc.
- All interconnecting piping must be self-supported firmly to prevent stress on the tank.
- Preferably the tank should be installed under a shed. If not, care should be taken than the ambient temperature of the environment does not go above 50 Deg Celsius for long durations.

Reference Catalogues:

Inline Foam Inductors: HD 187

Inline Balance Pressure Foam Proportioners: HD 289

Foam Concentrate By-Pass Valve: HD 186

Skid Mounted Balance Foam Proportioning System: HD 190

The tank is provided with following as standard supply:

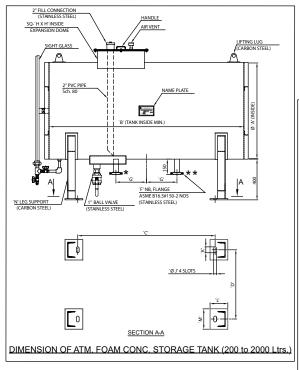
- 1. Fill connection with expansion dome.
- 2. Drain connection at bottom.
- 3. Flanged suction connection at the bottom of tank.
- 4. Flanged return connection at the bottom or at the top of tank.
- 5. Sight Gauge
- 6. Air Vent
- 7. Lifting Lugs

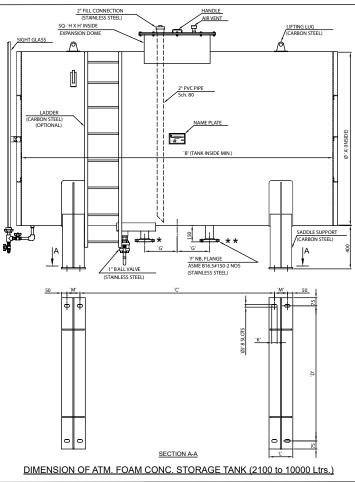
Optional Supply:

- 1. Ladder
- 2. Level Switch/ Level Transmitter
- 3. Custom nozzle connections, sizes, locations & quantities
- 4. Platform on the top
- 5. Disshed instead of flat end
- 6. Vertical configurations
- 7. Seismic/Structural Analysis



ATMOSPHERIC FOAM CONCENTRATE STORAGE TANK - DIMENSIONS





NOTE

- 1) STORED LIQUID FOAM CONCENTRATE
- 2) TYPE HORIZONTAL
- 3) ALL CARBON STEEL ATMOSPHERIC FOAM CONCENTRATE STORAGE TANKS ARE WITH 2MM THICK MIN. FRP INTERNAL LINING
- 4) FLANGES, PIPE & PIPE FITTINGS ARE OF SS 304
- 5) PAINTING POLYURETHANE RED PAINT RAL 3001 FROM OUTSIDE
- 6) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE APPROXIMATE AND MAY VARY SLIGHTLY

^{*} TO SYSTEM SUPPLY CONNECTION

^{**} RETURN FLOW FROM SYSTEM TO STORAGE TANK



CAPACITY & DIMENSIONAL CHART FOR ATM. FOAM CONCENTRATE STORAGE TANK

| NOMINAL CAPACITY (LITERS) | ØA ±10 | B ±25 | C ±25 | D ±25 | F | G ±10 | НхН | Ø٦ | К | L | M | N LEG ISMC CHANNEL |
|---------------------------------|--------------|--------------|--------------|------------|----------------|------------|--------------------|------------|----------|------------|------------|------------------------------|
| 200 | 550 | 925 | 675 | 360 | 40 NB | 200 | 450x450 | Ø23 | 48 | 150 | 150 | 100x50 |
| 250 | 595 | 990 | 740 | 400 | 40 NB | 200 | 450x450 | Ø23 | 48 | 150 | 150 | 100x50 |
| 300 | 610 | 1129 | 880 | 400 | 40 NB | 200 | 450x450 | Ø23 | 48 | 150 | 150 | 100x50 |
| 350 | 660 | 1129 | 880 | 450 | 40 NB | 200 | 450x450 | Ø23 | 48 | 150 | 150 | 100x50 |
| 400 | 705 | 1129 | 880 | 490 | 40 NB | 200 | 450x450 | Ø23 | 48 | 150 | 150 | 100x50 |
| 450 | 750 | 1129 | 880 | 530 | 40 NB | 200 | 450x450 | Ø23 | 48 | 150 | 150 | 100x50 |
| 500 | 790 | 1129 | 880 | 570 | 40 NB | 200 | 450x450 | Ø23 | 48 | 150 | 150 | 100x50 |
| 600 | 775 | 1410 | 1050 | 560 | 40 NB | 250 | 450x450 | Ø23 | 48 | 150 | 150 | 100x50 |
| 650 | 805 | 1410 | 1050 | 580 | 40 NB | 250 | 450x450 | Ø23 | 48 | 150 | 150 | 100x50 |
| 700 750 | 835 865 | 1410 1410 | 1050 1050 | 610 630 | 40 NB 40 NB | 250 250 | 450x450 450x450 | Ø23 Ø23 | 48 48 | 150 150 | 150 150 | 100x50 100x50 |
| 800 | 895 | 1410 | 1050 | 660 | 40 NB | 250 | 450x450 450x450 | Ø23 | 48 | 150 | 150 | 100x50 |
| 850 | 920 | 1410 | 1050 | 680 | 40 NB | 250 | 450x450 | Ø23 | 48 | 150 | 150 | 100x50 |
| 900 | 945 | 1410 | 1050 | 700 | 40 NB | 250 | 450x450 | Ø23 | 48 | 150 | 150 | 100x50 |
| 950 | 970 | 1410 | 1050 | 720 | 40 NB | 250 | 450x450 | Ø23 | 48 | 150 | 150 | 100x50 |
| 1000 | 1000 | 1410 | 1050 | 750 | 40 NB | 250 | 450x450 | Ø23 | 48 | 150 | 150 | 100x50 |
| 1100 | 900 | 1910 | 1350 | 650 | 40 NB | 300 | 450x450 | Ø28 | 58 | 175 | 200 | 150x75 |
| 1150 | 920 | 1910 | 1350 | 660 | 40 NB | 300 | 450x450 | Ø28 | 58 | 175 | 200 | 150x75 |
| 1200 | 940 | 1910 | 1350 | 680 | 40 NB | 300 | 450x450 | Ø28 | 58 | 175 | 200 | 150x75 |
| 1250 | 960 | 1910 | 1350 | 700 | 40 NB | 300 | 450x450 | Ø28 | 58 | 175 | 200 | 150x75 |
| 1300 | 980 | 1910 | 1350 | 710 | 40 NB | 300 | 450x450 | Ø28 | 58 | 175 | 200 | 150x75 |
| 1350 | 995 | 1910 | 1350 | 730 | 40 NB | 300 | 450x450 | Ø28 | 58 | 175 | 200 | 150x75 |
| 1400 | 1015 | 1910 | 1350 | 750 | 40 NB | 300 | 450x450 | Ø28 | 58 | 175 | 200 | 150x75 |
| 1500 1600 | 1050 1085 | 1910 1910 | 1350 1350 | 770 810 | 40 NB 40 NB | 300 | 450x450 450x450 | Ø28 Ø28 | 58 58 | 175 175 | 200 | 150x75 150x75 |
| 1700 | 1120 | 1910 | 1350 | 830 | 40 NB | 300 | 450x450 450x450 | Ø28 | 58 | 175 | 200 | 150x75 |
| 1800 | 1150 | 1910 | 1350 | 860 | 40 NB | 300 | 450x450 | Ø28 | 58 | 175 | 200 | 150x75 |
| 1900 | 1185 | 1910 | 1350 | 890 | 40 NB | 300 | 450x450 | Ø28 | 58 | 175 | 200 | 150x75 |
| 2000 | 1215 | 1910 | 1350 | 920 | 40 NB | 300 | 450x450 | Ø28 | 58 | 175 | 200 | 150x75 |
| 2100 | 1225 | 1975 | 1250 | 930 | 50 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SADDLE SUPPORT |
| 2200 | 1250 | 1975 | 1250 | 950 | 50 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SADDLE SUPPORT |
| 2300 | 1275 | 1985 | 1260 | 970 | 50 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SADDLE |
| 2500 | 1275 | 2155 | 1330 | 970 | 50 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SUPPORT SADDLE |
| 2600 | 1300 | 2155 | 1330 | 990 | 50 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SUPPORT SADDLE |
| | | | | | | | | | | | | SUPPORT SADDLE |
| 2700 | 1325 | 2155 | 1330 | 1010 | 50 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SUPPORT SADDLE |
| 2800 | 1325 | 2235 | 1380 | 1010 | 50 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SUPPORT |
| 2900 | 1350 | 2230 | 1380 | 1040 | 50 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SUPPORT |
| 3000 | 1350 | 2320 | 1430 | 1040 | 50 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SADDLE SUPPORT |
| 3250 | 1400 | 2350 | 1450 | 1080 | 50 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SADDLE SUPPORT |
| 3500 | 1450 | 2350 | 1450 | 1120 | 50 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SADDLE SUPPORT |
| 4000 | 1500 | 2500 | 1550 | 1170 | 65 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SADDLE SUPPORT |
| 4250 | 1550 | 2480 | 1550 | 1210 | 65 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SADDLE SUPPORT |
| 4500 | 1550 | 2650 | 1650 | 1250 | 65 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SADDLE SUPPORT |
| 4750 | 1600 | 2600 | 1650 | 1250 | 65 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SADDLE |
| | | | | | | | | | | | | SUPPORT SADDLE |
| 5000 | 1600 | 2740 | 1710 | 1250 | 65 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SUPPORT |
| 5250 | 1600 | 2800 | 1800 | 1250 | 65 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SUPPORT |
| 5500 | 1600 | 3010 | 1890 | 1250 | 65 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SADDLE SUPPORT |
| 5750 | 1600 | 3150 | 1980 | 1250 | 65 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SADDLE SUPPORT |
| 6000 | 1625 | 3185 | 2000 | 1280 | 65 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SADDLE SUPPORT |
| 6500 | 1650 | 3350 | 2110 | 1300 | 65 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SADDLE SUPPORT |
| 7000 | 1700 | 3400 | 2150 | 1340 | 65 NB | 300 | 600x600 | Ø25 | 50 | 220 | 120 | SADDLE SUPPORT |
| 7500 | 1750 | 3440 | 2590 | 1380 | 65 NB | 300 | 600x600 | Ø25 | 50 | 250 | 150 | SADDLE SUPPORT |
| 8000 | 1780 | 3540 | 2590 | 1410 | 65 NB | 300 | 600x600 | Ø25 | 50 | 250 | 150 | SADDLE |
| 8500 | 1800 | 3680 | 2630 | 1430 | 65 NB | 300 | 600x600 | Ø25 | 50 | 350 | 250 | SUPPORT SADDLE |
| 9000 | 1840 | | 2680 | 1460 | | 300 | 600x600 | | 50 | 350 | 250 | SUPPORT SADDLE SUPPORT |
| | | 3730 | | | 65 NB | | | Ø25 | | | | SADDLE |
| 9500 | 1870 | 3810 | 2680 | 1490 | 65 NB | 300 | 600x600 | Ø25 | 50 | 350 | 250 | SUPPORT |
| 10000 | 1900 | 3880 | 2750 | 1510 | 65 NB | 300 | 600x600 | Ø25 | 50 | 350 | 250 | SUPPORT |



LIMITED WARRANTY

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NOTICE

The equipment presented in this bulletin is to be installed in accordance with the latest publication standards of NFPA or other similar organisations and also with the provision of government codes or ordinances wherever applicable.

The information provided by us is to the best of our knowledge and belief, and consist of general guidelines only. Site handling and installation control is not in our scope. Hence we give no guarantee for result and take no liability for damages, loss or penalties whatsoever, resulting from our suggestion, information, recommendation or damages due to our product.

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