

## LINE TYPE PROPORTIONERS

### I. GENERAL DEFINITION

The line type proportioners work with venturi principle. Their working principle draws the foam from the tank with the suction power of the passing water. The foam coming to the adjustment module ensures the stable flow of the foam into the installation from the predetermined orifice diameter.

Line type proportioners up to 800 liters can be used as fixed and extendable models. When they are over 800 liters they are used as fixed connection and any intermediate desired up to 10,000 liters can be manufactured.

One should be careful while selecting and placing a proportioner. The system and intermediate distances selected after the proportioners should be compatible and calculated for the proportioners. Especially in upward flows, as the distance increases, this may affect the performance of the proportioner poorly, as well as prevent the foam absorption.

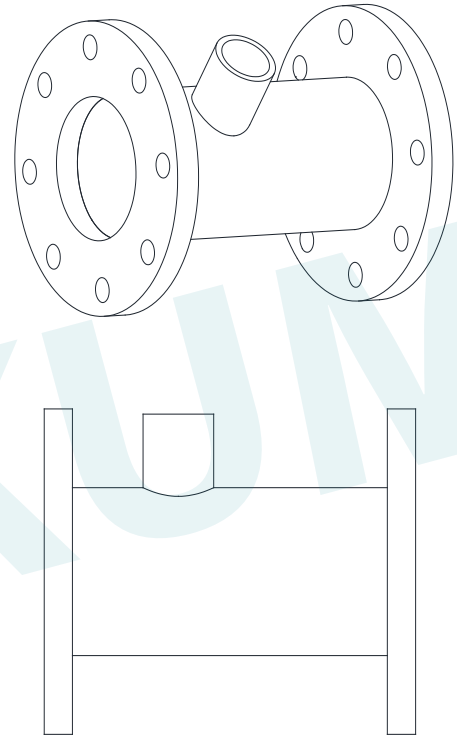
- This Technical Data Sheet is intended for the trained professionals. It provides the basic information required to use the described product.
- For more information, please contact the relevant technical office or consult the technical documentation.

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### 2. CERTIFICATES AND APPROVALS

- Proportioner EN 13565-I+AI



### THE AREAS OF USAGE:

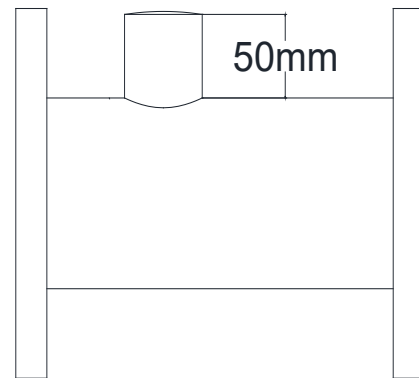
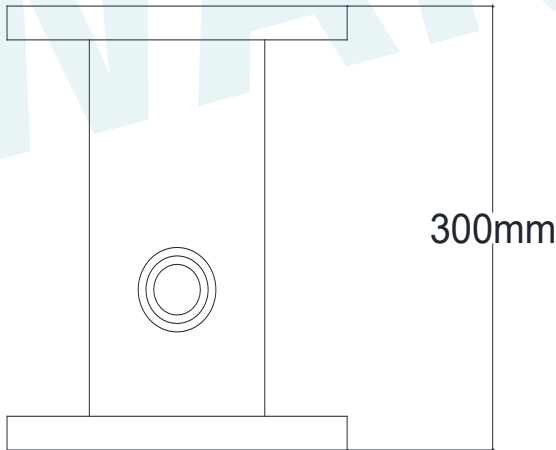
- Refining facilities
- Chemical plants
- Ports and cargo ships
- Waste and recycling facilities
- Open and general storage areas

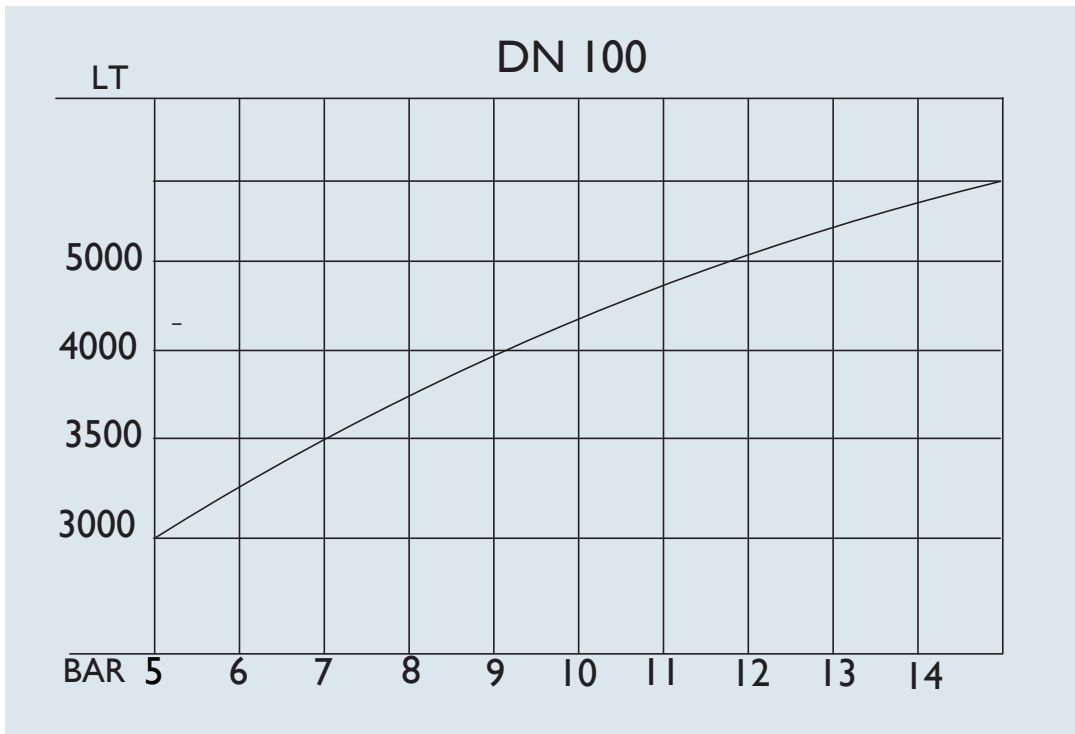
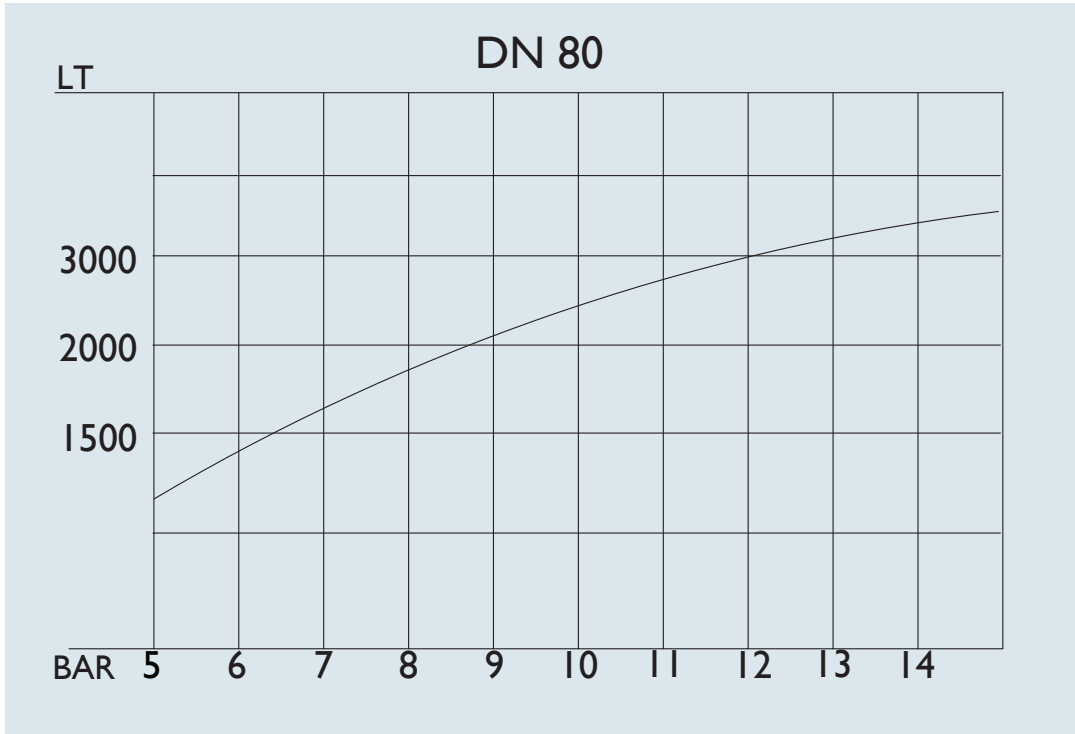
### 3.1 MATERIAL SPECIFICATONS

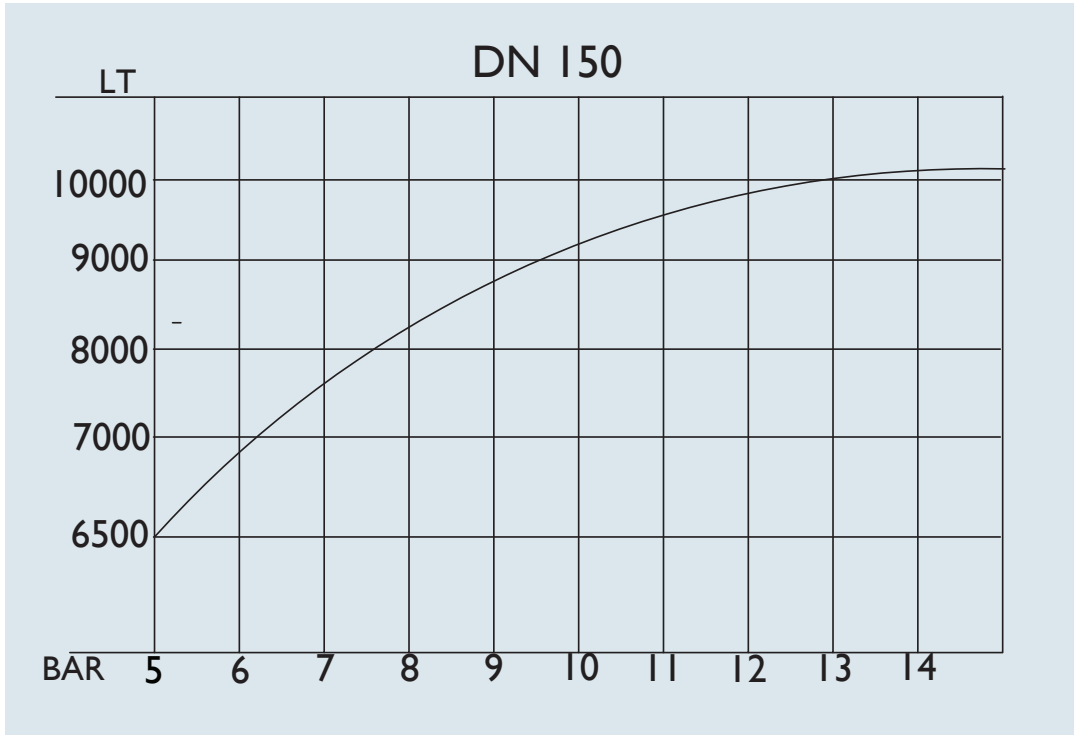
|          |                           |
|----------|---------------------------|
| MATERIAL | STAINLESS – PAINTED STEEL |
| FLANGE   | STAINLESS – PAINTED STEEL |
| INTERIOR | DELTRIN                   |

### 3.2 STANDARD DESIGN FEATURES

|                             |   |
|-----------------------------|---|
| Design Pressure             | 175PSI/12.1bar (1.2MPa) or 232PSI /16.0bar (1.6MPa) |
| Operating Temperature Range | * 35 ° F to 120 ° F (1.7 ° C to 49 ° C)             |
| Capacity                    | 1500 – 10000 liters per minute                      |
| Ration Range                | 1% 3% 6%  |
| Connection Type             | Between The Two Flanges                             |







## **DEPLOYMENT**

- It is mounted between the two flanges as it is shown on the system design. The foam flow is provided by a hose which enters the module from above the proportioner.
- Be sure that the hose does not fold.
- Be sure that the hose reaches the lowest point in the tank.
- The nozzle of the hose shouldn't be straight. (Be sure that the nozzle or equipment used is cut from any angle).
- The proportioner connection should be in the direction of the arrow on the flow direction.
- It can be connected horizontally or vertically.
- There should be a straight line up to five times the pipe diameter before and after the connection.
- The distance between the atmospheric tank and the proportioner should not exceed four to five meters.
- The Following items are recommended for the healthy operation of this system:
  - Limiting the number of tees and the elbows used
  - Increasing the pipes diameter
  - The height of the piping
  - Post proportioner long distance systems

## **4 SCOPE OF DELIVERY**

One piece of body equipment will be connected between two flanges.