INLINE BALANCED PRESSURE FOAM PROPORTIONER

Models ILPB & ILBPI



PRODUCT DESCRIPTION

The In-Line balanced pressure foam proportioners models ILPB and ILBPI are foam proportioning devices used to balance the higher foam pressure to the lower water pressure or foam pump proportioning system.

It is designed to insert the correct proportion of foam concentrate into the water stream over a wide range of flows and pressures.

It is equipped with a foam concentrate storage tank, inline balance proportioner, duplex gauge, foam concentrate regulating valve and ratio controller single positive displacement foam concentrate supply pump an atmospheric foam concentrate storage tank, inline balance proportioner and a foam concentrate regulating valve. A pressure control valve, located in the return line to the foam concentrate storage tank, is set to maintain a regulated pressure in the supply manifold that is higher than the pressure in the water supply line. The foam concentrate is then metered through a fixed orifice into the water stream.

Inline balance pressure proportioners can be used with an atmospheric foam concentrate tank and a positive displacement foam concentrate pump.

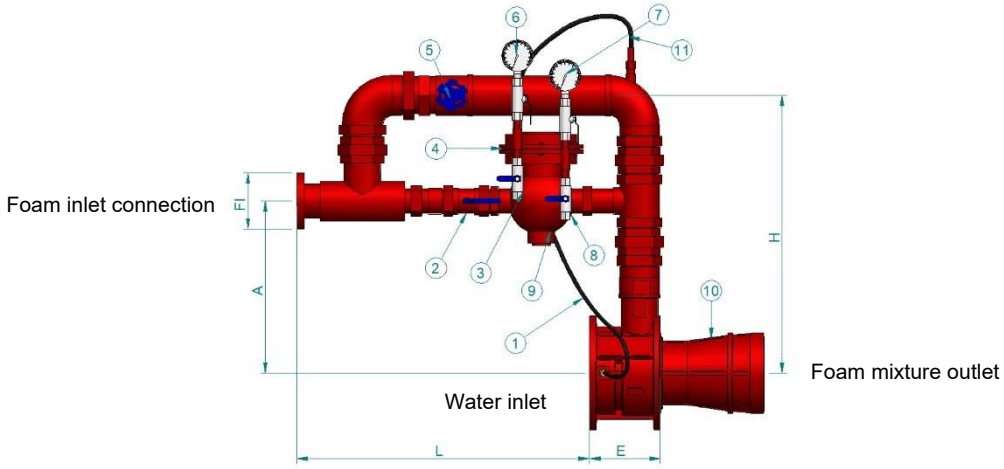
Foam concentrate inlet pressure must be minimum 1.5-2.0 bar higher than the water supply pressure.

TECHNICAL DATA

Models	ILBPB / ILBPI
Sizes	2.5” (DN65), 3” DN80, 4” DN100 ,6” DN150 & 8” (DN200)
End connection	Flanges ANSI B16.5 150 Lbs
Thread opening	NPT / Optional: BSPT
Working pressure	3 to 14 bar (44 to 200 psi)
Hydrostatic test pressure	25 bar (350 psi)
Ratio controller flow range (AFFF 3%)	ILBP-065: 401 to 1419 lpm ILBP-080: 363 to 3077lpm ILBP-100: 655 to 6037 lpm ILBP-150: 1930 to 12267 lpm ILBP-080: 2960 to 16245 lpm
Materials	ILBPB: Bronze construction ILBPI: Stainless Steel Trim and control valves: Stainless Steel
Finish	Red RAL 3000

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INLINE BALANCE PRESSURE PROPORTIONER WITH MANUAL OVERRIDE



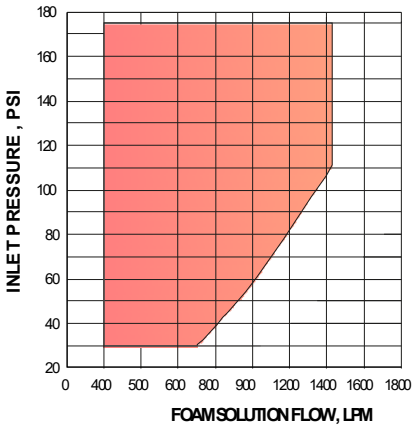
SIZES	DIMENSIONS inch (mm)				
	E	L	A	H	Fl
2.5” DN65	3.1(80)	21.1(535)	10.5(267)	19.2(487)	40NB
3” DN80	4.2(107,5)	20(508)	10.7(272)	19.4(492)	40NB
4” DN100	5(126)	19.7(500)	11.5(293)	20.1(513)	40NB
6” DN150	5.2(133)	20.7(525)	13.3(338)	23(583)	50NB
8” DN200	5.1(130)	21.2(538)	14.4(365)	24(610)	50NB

ITEM	DESCRIPTION
1	Water sensing line
2	Foam concentrate supply valve
3	Water flush out valve
4	Diaphragm balance valve
5	Manual override valve
6	Water pressure gauge
7	Foam pressure gauge
8	Foam concentrate flush out valve
9	Drain plug
10	Ratio controller (wafer inlet and outlet)
11	Foam sensing line

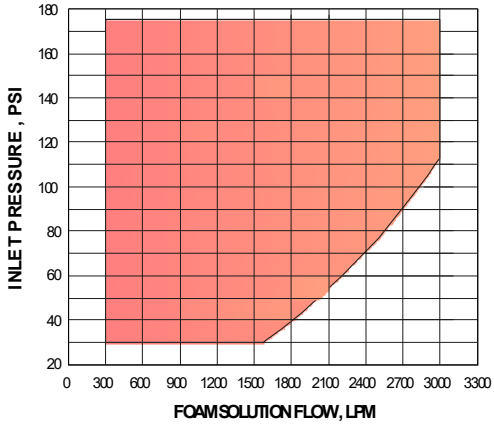
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FOAM SOLUTION FLOW WITH AFFF 3% CONCENTRATE

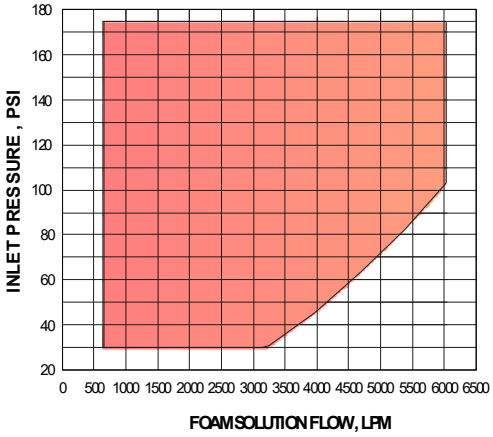
65NB



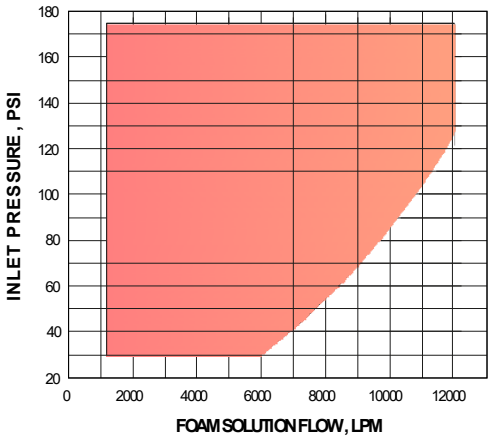
80NB



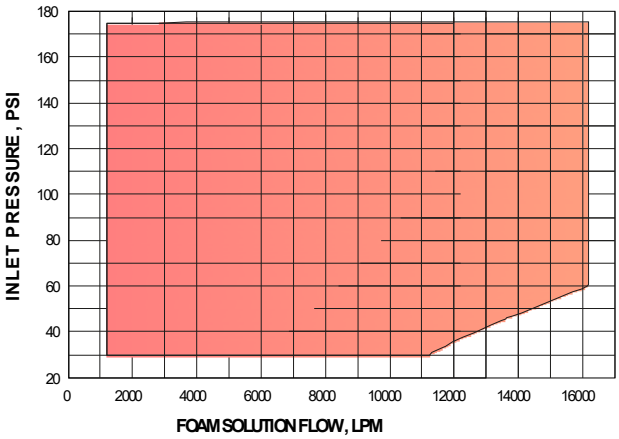
100NB



150NB

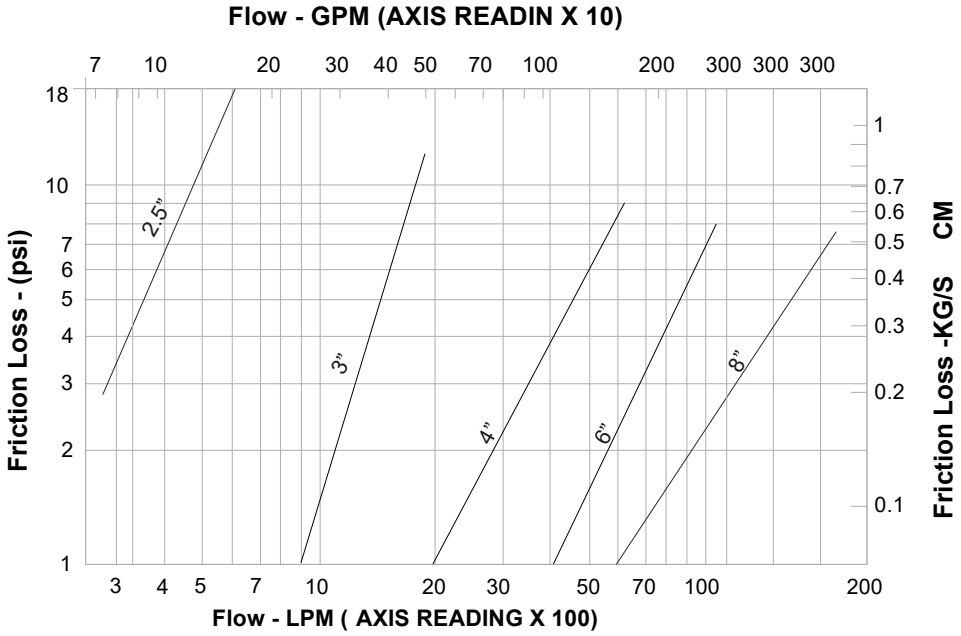


200NB



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PRESSURE LOSS



INSTALLATION, TESTING AND MAINTENANCE

The proportioner must be installed, inspected and tested by a qualified and trained person.

It must be supported properly to prevent strain on the inductor.

After few initial successful test, a trained person must inspect and test the system. It is recommended to carry out physical inspection of the system regularly. The system must be fully tested at least once in a year or in accordance with applicable NFPA codes or in accordance to the standard of the organization having local jurisdiction.

The proportioner must be inspected prior to and after each use.

The owner is responsible for maintenance of the inductor in proper operating condition.

After use with foam, flush with fresh water.

ORDERING INFORMATION

WATER FLOW		MATERIAL	
AFFF	AR-AFFF	STAINLESS STEEL	BRONZE
401-1420 lpm	496-1476 lpm	ILBPI-080	ILBPB-080
365-3077 lpm	727-3017 lpm	ILBPI-080	ILBPB-080
650-6035 lpm	780-5999 lpm	ILBPI-100	ILBPB-100
1930-12267 lpm	2173-11658 lpm	ILBPI-150	ILBPB-150
2960-16245 lpm	3543-16847 lpm	ILBPI-200	ILBPB-200

Specify:

Model	
Quantity	
Size	
Flow rate	
Percentage induction	
Type of foam concentrate	

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  - Extended Coverage
  - Storage
  - Dry
  - Accessories
- System Valves
  - Wet
  - Dry
  - Preaction Equipment
  - Accessories
- Spray System Open Nozzles
  - High Velocity Nozzles
  - Medium Velocity Nozzles
  - Window Nozzles
  - Hydroshield Nozzles
  - Mushroom Type Nozzles
- Foam equipment
  - Tanks
  - Proportioners
  - Foam Discharge Equipment
  - Foam Concentrates
- Deluge equipment for Water Spray and Foam
  - Clapper Deluge Valves
  - Diaphragm Deluge Valves
- Monitors
  - Manual Monitors
  - Remote Monitors
  - Monitor Nozzles
  - Towers and Trolleys
- Valves
  - Butterfly Valves
  - Gate Valves
  - Check Valves
  - Pressure Control Valves
  - Test and Drain
  - Hose, Hydrant and Fire Connection Valves
  - Fire Department Connections

The equipment presented in this bulletin is to be installed in accordance with the latest published Standard of the National Fire Protection Association, Factory Mutual Research Corporation, or other similar organizations and also with the provisions of governmental codes or ordinances whenever applicable.
This documentation is not contractual. AG Fire Sprinkler reserves the right to any kind of change without notice.

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