

**BLAZE**

Inline Balanced Pressure Foam Proportioner

Model : BT 5852

Description:

The BT 5852 Inline Balanced Pressure Foam Proportioner (ILBP) is designed to provide accurate and reliable proportioning of foam concentrate into fire-water across a wide range of flow rates and operating pressures. It is suitable for fixed fire protection systems where consistent foam concentration is essential for effective fire suppression.

The Inline Balanced Pressure Foam Proportioning System typically comprises an inline balanced pressure foam proportioner, positive displacement foam pump and atmospheric foam storage tank. This arrangement is particularly suitable for systems with multiple foam injection points, remote foam concentrate storage, or varying fire-water supply pressures caused by the simultaneous operation of multiple proportioners.

Available in Stainless Steel 304/L and Stainless Steel 316/L, the ILBP is offered in configurations with or without manual override, providing flexibility to suit different system requirements. The proportioner is UL Listed and is available in various sizes to accommodate different flow requirements and system layouts.

Specifications:

Size	DN 65 to DN 150 (2 ½" - 8")
Approval	UL Listed
Working Pressure	12 Bar
Material	SS 304/L or SS 316/L
Configuration	With or without manual override
Function	Accurate foam concentrate proportioning
System	Balanced pressure foam proportioning
Flow	Multiple sizes available
Installation	Suitable for multiple foam injection points
Application	Fire protection and foam suppression systems

Operation :

The Inline Balanced Pressure Foam Proportioner (ILBP) is designed to operate with a positive displacement foam pump and an atmospheric foam storage tank. The factory-assembled unit incorporates a balanced pressure foam proportioner, pressure balancing valve, foam concentrate supply valve, water and foam pressure gauges, and interconnecting pipework. A manual override valve and foam concentrate control valve are available as optional features.



The proportioner is installed between flanges drilled to ANSI B16.5 Class 150 or IS 6392 PN16. The foam concentrate supply connection is also flanged to the same standards.

The positive displacement foam pump delivers pressurised foam concentrate to the proportioner. The pressure balancing valve maintains the foam concentrate pressure equal to the fire-water pressure at the proportioner inlet. The respective pressures can be monitored using the water and foam pressure gauges.

A factory-calibrated orifice accurately controls the required quantity of foam concentrate injected into the fire-water stream over a wide range of flow rates and pressures. The ILBP is available in two configurations: with manual override or without manual override. When multiple proportioners share the same fire-water manifold, an optional foam concentrate control valve is installed upstream of each foam concentrate supply connection.

Inline Balanced Pressure Foam Proportioner with Manual Override

Inline Balanced Pressure Foam Proportioners are UL Listed and available with or without a manual override.

The manual override provides a bypass arrangement for the balancing valve, allowing the system to remain operational in the event of balancing valve or diaphragm failure. The manual override is fitted with a ball valve, which can be activated when manual balancing of the system is required.

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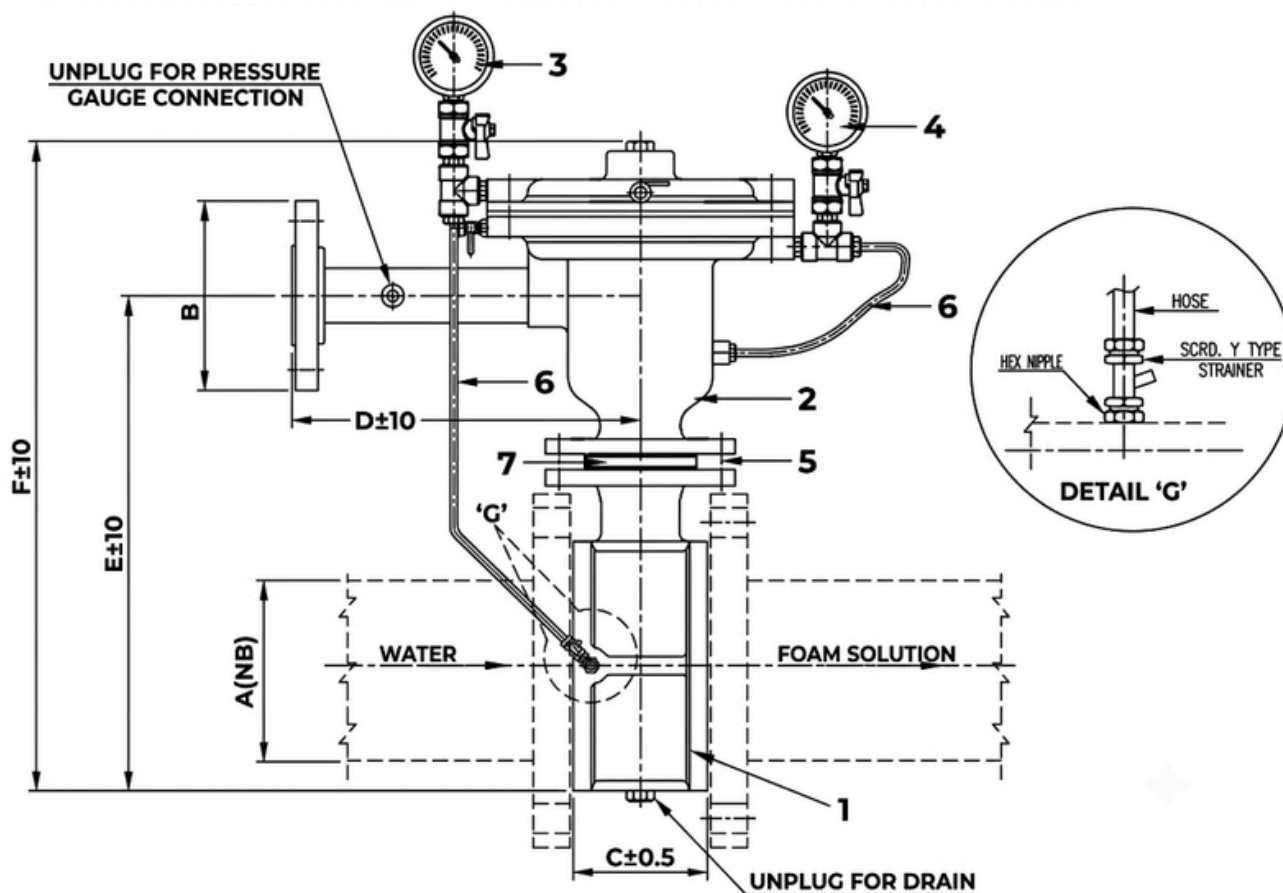


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Dimensions :

MODEL	A(NB) (mm)	B(NB) (mm)	C (mm)	D (mm)	E (mm)	F (mm)	FLOW RANGE (LPM)	PROP. RATIO
BT 5852 065	65	40	100	250	305	400	300-2100	3%
BT 5852 080	80	40	110	250	325	420	500-3300	3%
BT 5852 100	100	40	110	250	365	460	1500-8000	3%
BT 5852 150	150	50	130	260	430	550	2000-11000	3%

Material Specifications:

No.	Part	Material
1	Foam Proportioner	Stainless Steel (SS:304)
2	Pressure Balancing Valve	Stainless Steel (SS:304)
3	Pressure Gauge–water	63MM DIAL, 0-21KG/SQ.CM,SS:316 Internal
4	Pressure Gauge–foam	63MM DIAL, 0-21KG/SQ.CM,SS:316 Internal
5	Nut,bolt	Stainless Steel (SS:304)
6	Pressure Trim Hose	Stainless Steel (SS:304)
7	Foam Orifice	Stainless Steel (SS:304)

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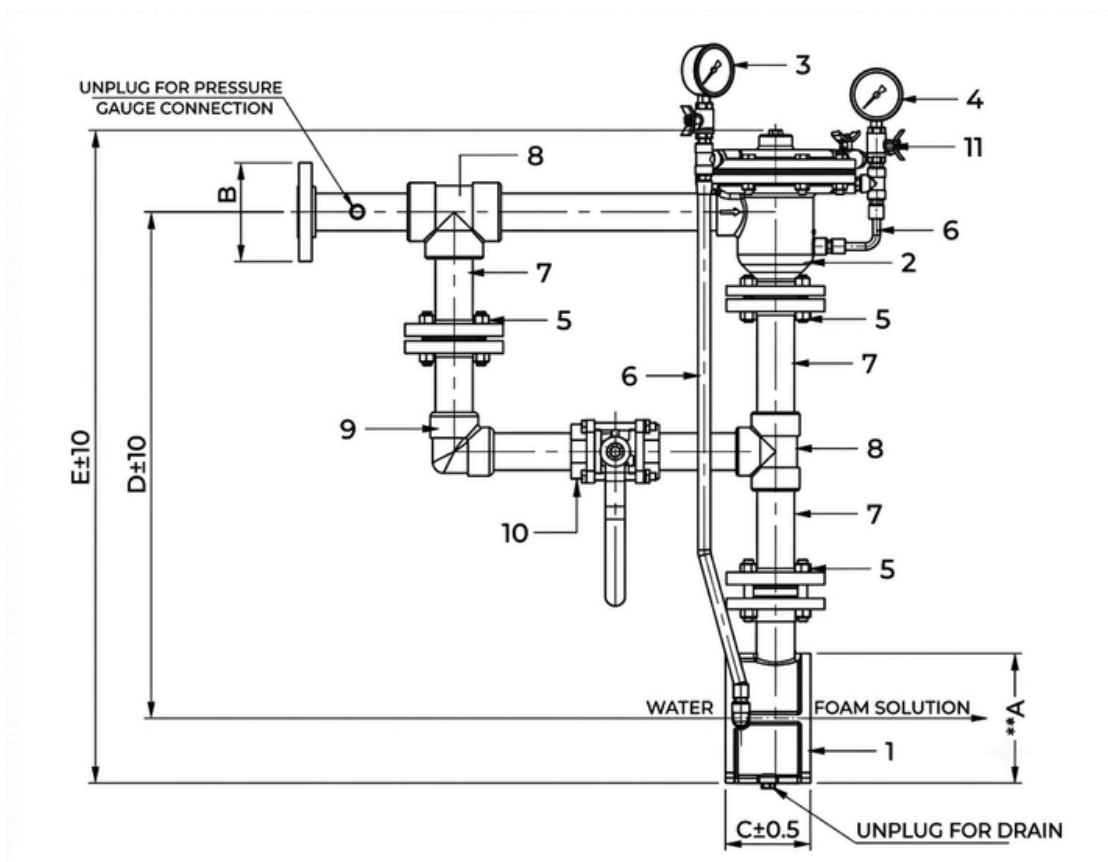


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With Manual Override

Dimensions :

MODEL	A(NB) (mm)	B(NB) (mm)	C (mm)	D (mm)	E (mm)	FLOW RANGE (LPM)	PROP. RATIO
BT 5852 065-M	65	40	100	540	695	300-2100	3%(0.9, -0)
BT 5852 080-M	80	40	110	550	715	500-3300	3%(0.9, -0)
BT 5852 100-M	100	40	110	565	785	1500-8000	3%(0.9, -0)
BT 5852 150-M	150	50	130	670	910	2000-11000	3%(0.9, -0)

Material Specifications:

No.	Part	Material
1	Foam Proportioner (Ratio Flow Controller)	Stainless Steel (SS:304)
2	Pressure Balancing Valve	Stainless Steel (SS:304)
3	Pressure Gauge-water	63MM Dial ,0-21KG/SQ.CM,SS:316 Internal
4	Pressure Gauge-foam	63MM Dial ,0-21KG/SQ.CM,SS:316 Internal
5	Nut,bolt	Stainless Steel (SS:304)
6	Pressure Trim Hose/Tube	Stainless Steel (SS:304)
7	Pipe	Stainless Steel (SS:304)
8	Equal Tee	Stainless Steel (SS:304)
9	Elbow	Stainless Steel (SS:304)
10	Ball Valve	Stainless Steel (SS:304)
11	Ball Valve	Stainless Steel (SS:304)/BRASS

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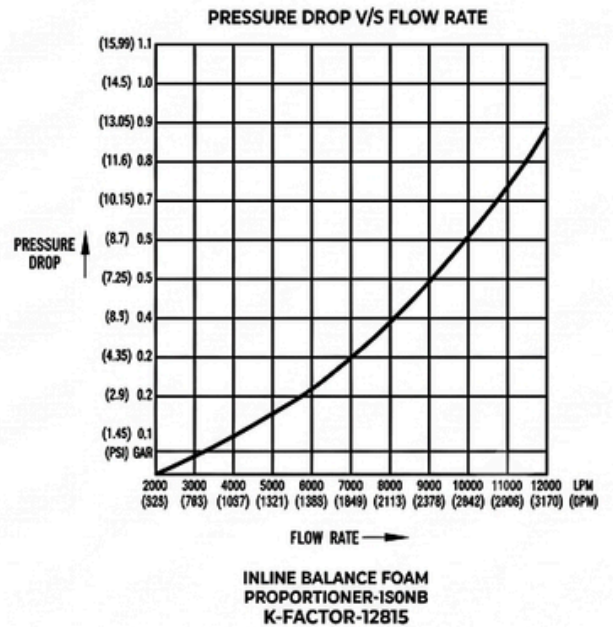
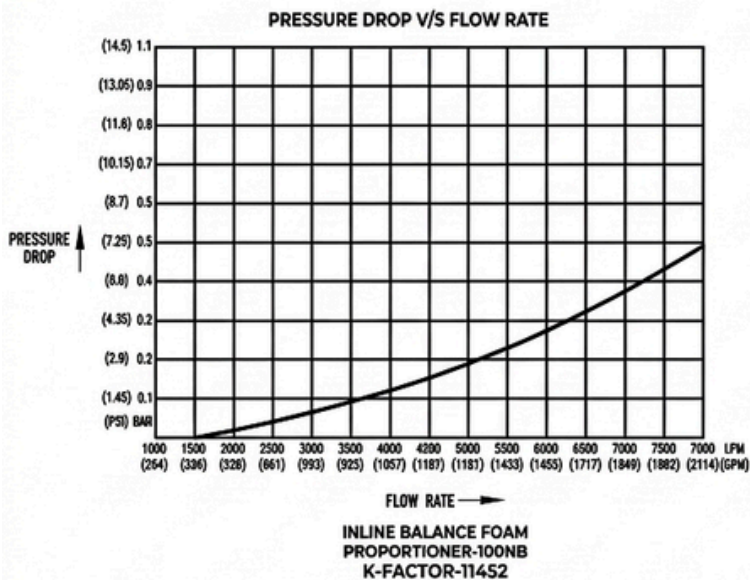
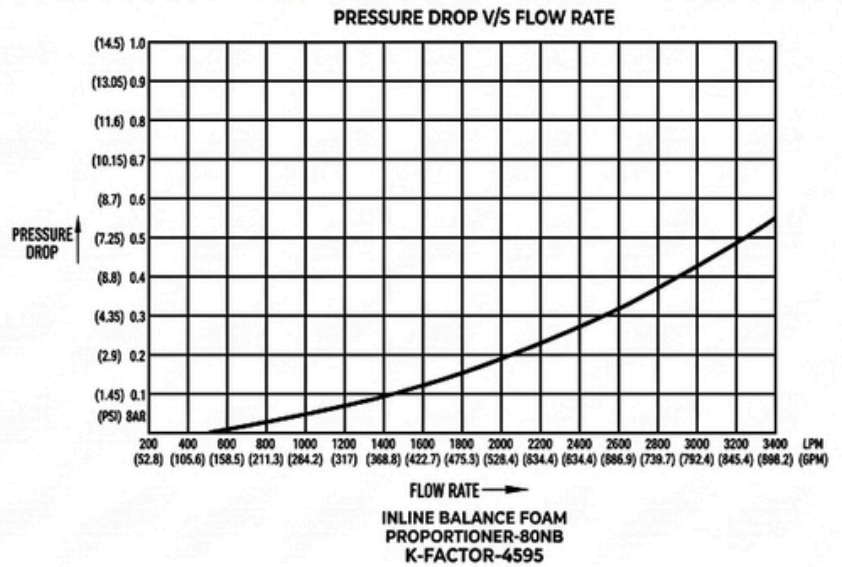
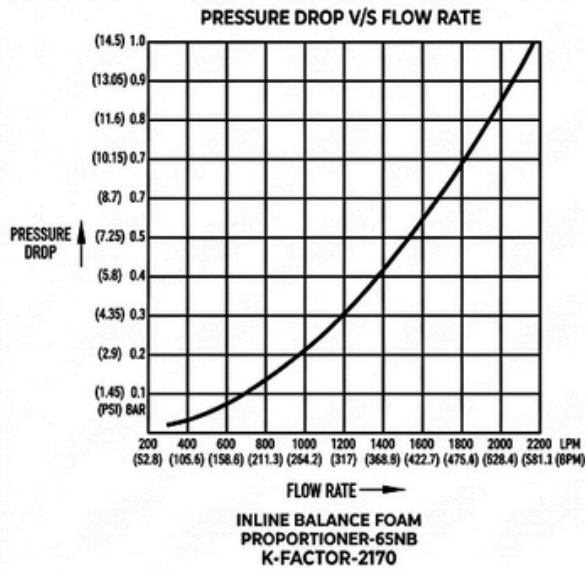


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