INLINE BALANCE PRESSURE FOAM PROPORTIONER

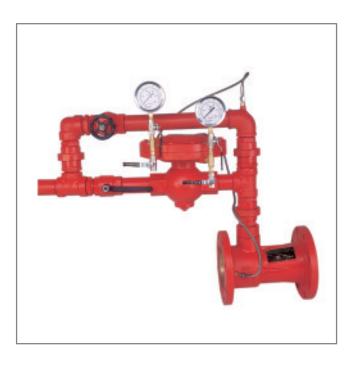


TECHNICAL DATA:

MODEL	IB for Bronze construction			
WODEL	IS 318 / ASTM B62			
	IBS for stainless steel (304) construction			
	(ASTM A351-CF8)			
SIZE	80, 100, 150 & 200 NB			
MAXIMUM SERVICE PRESSURE	14 BAR (200 PSI)			
MIMIMUM WORKING PRESSURE	3.0 BAR. (44 PSI)			
FLOW RANGE	Size Flow			
	80NB : 270 - 3000LPM			
	100NB : 650 - 5700LPM			
	150NB : 1200 - 9500LPM			
	200NB : 3200 - 18500LPM			
FLANGE CONNECTION AN	SI B16.24 Class 150#			
	for bronze ANSI B16.5 Class			
	150# for stainless steel			
THREADED OPENING	BSPT/NPT optional			
PRESSURE SENSING	TEFLON tube with HOSE			
stainless steel braided cover				
TRIM CONNECTION	Brass/stainless steel			
AND VARIOUS	2.456/614656 6166.			
CONTROL VALVES				
FACTORY HYDROSTATIC	25 Bar. (365 PSI)			
TEST PRESSURE				
FINISH	Epoxy Red Painted			
ORDERING	Please specify:			
INFORMATION	a) Model Number			
	b) Flow rate			
	c) Percentage of foam			
	Concentrate used			
	d) Type of Foam			
	Concentrate used			
	e) Flange Connection specification			
	specification			



The inline balance pressure foam proportioners are used with positive displacement foam concentrate supply pump . The system controls accurately the flow of foam concentrate into the water stream over a wide range of flow rate and pressure.



The Inline Balance Pressure Foam Proportioning System is used for simultaneous operation of the multiple foam injection even with different pressures between the two injection point with a single concentrate supply line. Various sizes of inline balance pressure proportioner can be combined to suit the flow requirement of each hazard area.

SPECIFICATION

Inline balance pressure proportioning system utilizes a single, positive displacement foam concentrate supply pump, an atmospheric foam concentrate storage tank, inline balance proportioner, and a foam concentrate regulating valve. The pressure regulating valve is mounted on foam concentrate return line to the foam concentrate storage tank. The valve regulates the foam concentrate supply pressure. The Inline balance pressure proportioner consists of a ratio controller, diaphragm operated pressure balancing valve, water and foam gauges, and pressure sensing hose of teflon tube with stainless steel braided cover, interconnecting trim fittings with various control and flush valves. The water inlet pressure and foam concentrate pressure at metering orifice is sensed by a diaphragm valve and it automatically balances the concentrate supply to provide accurately proportioned water foam solution over a wide range of flow conditions. A foam concentrate supply valve is also provided as an optional item. The system requires foam concentrate supply pressure of 1.5- 2.0 bar. higher than the water supply pressure. The Inline balance pressure proportioner is also provided with a manual balancing valve.

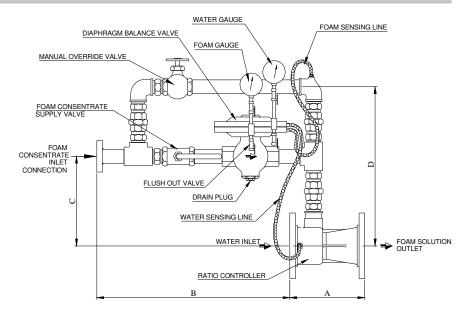


INSPECTION AND MAINTENANCE

A qualified and trained person must commission the system. After a few initial successful tests, an authorized person must be trained to perform the inspection and testing of the system. It is recommended to carry out physical inspection of the system at least once in a week. The inspection should verify that all the valves are in their proper position as per the system requirement and no damage has taken place to any component. The system

where foam concentrate piping is maintained in charged condition, the provision should be made to flow foam through each Inline Balance Proportioner at least once in six weeks. The system should be fully tested at least once in a year or in accordance with applicable NFPA codes, or in accordance to the guidelines of the organization having local jurisdiction.

INLINE BALANCE PRESSURE PROPORTIONER WITH MANUAL OVERRIDE

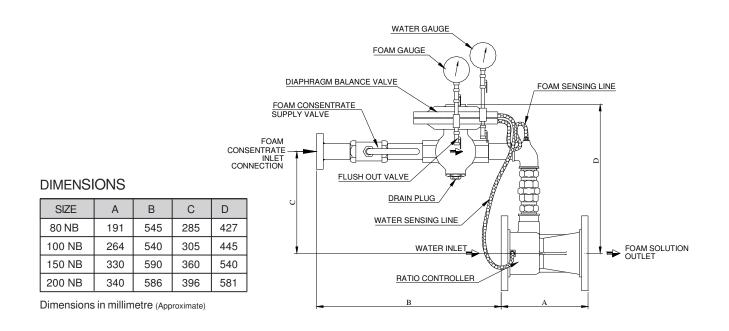


DIMENSIONS

SIZE	Α	В	С	D
80 NB	191	630	267	490
100 NB	264	608	278	514
150 NB	330	700	352	605
200 NB	340	718	362	625

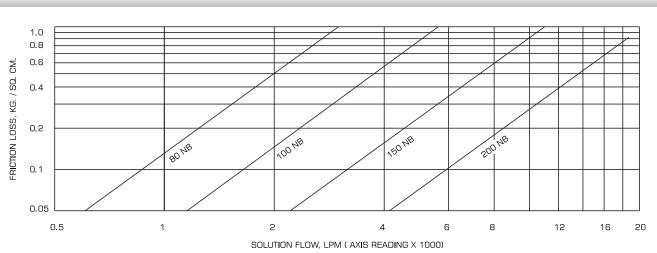
Dimensions in millimetre (Approximate)

INLINE BALANCE PRESSURE PROPORTIONER WITHOUT MANUAL OVERRIDE

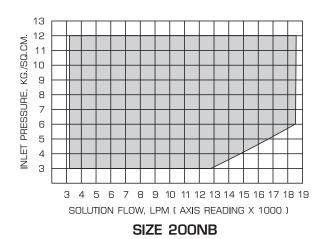


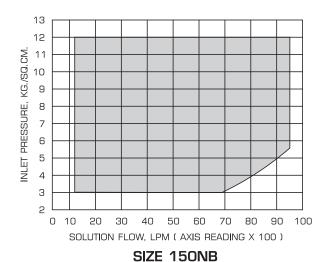


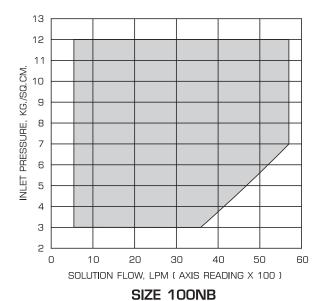
FLOW VS PRESSURE LOSS

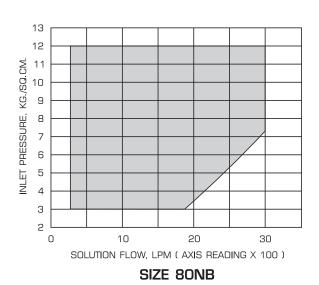


PRESSURE VS FLOW GRAPH



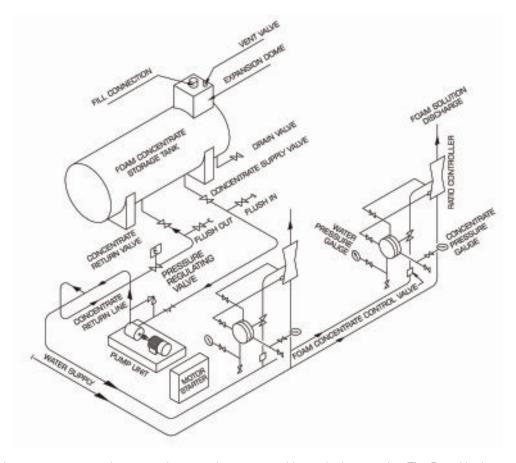








TYPICAL INLINE BALANCE PRESSURE FOAM PROPORTIONING SYSTEM



CAUTION

Do not turn off the system or any valve to repair or test the system, without placing a roving Fire Patrol in the area covered by the system. The Patrol should continue until the system is put back in service. Also inform the local security guards and the control alarm station, so as to avoid false alarm..

LIMITED WARRANTY

Products manufactured by K.V. FIRE CHEMICALS (I) PVT.LTD.. are warranted against defects in material and workmanship for a period of Two (2) years from the date of shipment.

KV's obligation under this warranty is limited to replace or repair the products or its parts, which are shown to KV's examination to be in a defective condition attributable to KV. No warranty is given for products or components which have been subject, to misuse, improper installation, corrosion, wear and tear, improper storage, modification or repaired. If the defect attributable to KV cannot be rectified by repair or replacement, then KV may elect to refund the purchase price of the equipment in complete discharge of its obligation under this Limited Warranty.

IN NO EVENT SHALL K.V. FIRE CHEMICALS (I) PVT. LTD. BE LIABLE IN CONTRACT, STRICT LIABILITY OR ANY OTHER LEGAL THEORY, FOR INCIDENTAL, IN-DIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, INCLUDING DAMAGES FOR INJURY TO PERSON OR DEATH OR DAMAGE TO PROPERTY AND OR PENALTIES RESULTING FROM ANY PRODUCTS OR COMPONENT MANUFACTURED OR ASSEMBLED BY HD. THIS IS LIMITED WARRANTY ONLY, KY DISCLAIMS WITH RESPECT TO THE PRODUCTS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE. THERE IS NO WARRANTY OF ANY NATURE MADE BY HD BEYOND AS STATED ABOVE.

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 are to the best of our knowledge and belief, and are general guidelines only. Site handling and installation control is beyond our reach. 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.

Product development is a continuous programme of K.V. FIRE CHEMICALS (I) PVT. LTD. and hence the right to modify any specification without prior notice is reserved with the company.



 ${\sf KAMALA\,NIWAS,\,PLOT\,NO.\,32,\,LANE\,D,\,SECTOR\,8,\,VASHI,\,NAVI\,MUMBAI\,400703\,INDIA.}$

PHONE: +(91) 22 2782 0827
FAX: +(91) 22 2782 4712

• EMAIL : info@kvfire.com • WEBSITE : www.kvfire.com