FOAM CONCENTRATE BYPASS VALVE

TECHNICAL DATA

MODEL
BV with Bronze material
IS-318 / ASTM B62
BV-S with stainless steel material SS 316
(ASTM A 351-CF8M)

SIZE
40 & 50NB (1.5 & 2 INCH)

MAXIMUM SERVICE PRESSURE
14 Bar (200 PSI)

END CONNECTION
Screwed Female BSPT
(NPT Optional)

FRICTION LOSS IN TERMS OF EQUIVALENT LENGTH OF PIPE (C-120)
50NB - 14.1 Meters
40NB - 10.5 Meters

FACTORY HYDROSTATIC TEST PRESSURE
25 Bar (365 PSI)

FINISH
Red epoxy painted

ORDERING INFORMATION
1) Size
2) End connection

APPLICATION
The foam concentrate bypass valve is used in the balance pressure foam proportioning pump skid system. The valve bypasses the controlled excess quantity of foam concentrate to concentrate storage tank.

SPECIFICATION
The valve is diaphragm operated and works on the simple differential pressure principle. The pressure sensing lines, one from ratio controller inlet for water pressure and another from the concentrate supply pressure above the metering orifice are connected to bypass valve. The bypass valve automatically adjusts the concentrate pressure corresponding to the water pressure. The bypass is provided with flush out valves. The pressure sensing hose is Teflon with stainless steel braid cover and it is permanently attached with swivel coupling. The two separate pressure gauges, one for the water and one for the foam concentrate are provided with valve trims. A duplex gauge is supplied as an optional item in lieu of two pressure gauges. Each valve is factory tested for its performance.

INSTRUCTION AND MAINTENANCE
A qualified and trained person must commission the system. After few initial successful tests an authorized person must be trained to perform inspection and testing of the system. Do not turn off the system or any valve to make repairs or test the system, without placing a roving Fire Patrol in the area protected by the system. The patrol should continue until the system is back in service. Also inform the local security guards and control alarm station, so as to avoid false alarm.

It is recommended to carry out physical inspection of the system at least once a week. The inspection should verify that all the control valves are in proper position as per the system requirement and no damage has taken place to any component. The valve must be operated periodically and proper functioning must be verified. The test must be as per the procedure of system testing.

The system must be flushed after each operation and free flow of water must be drained from the flush-out connection.

The user is responsible for maintaining the valve in proper operating condition.
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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