General

Foam Induction system designed for the Prima pump range, known as “Round the Pump” (RTP). Main castings in aluminium or bronze according to main pump material. Performance range – capable of inducing up to 120 l/min of foam compound into the pump water discharge.

Special note:

When preparing the specifications for your new fire apparatus, ensure the use of a GODIVA RTP foam system by incorporating these specifications as written. No competitive pump can match GODIVA construction or performance.

RTP construction

1. The RTP shall be externally fitted to a Godiva Prima pump and be capable of inducing up to 120 l/min of foam compound into the pump .

2. The RTP system shall be compact and self-contained and mounted on the pump suction in a location that does not extend the existing outer dimensions of the pump.

3. The RTP system and the pump shall be manufactured and dynamometer tested at the pump manufacturer's factory.

4. The main RTP castings shall be made of BS approved aluminum alloy (BS1490 LM25 TF and LM6) and hard anodized to resist wear and corrosion, compatible with the main pump the system is attached to. In the case of a bronze Prima pump the RTP castings will be made of BS approved gunmetal (BS1400 LG2C).

5. The RTP system shall be suitable for all commercially available Protein, Fluoroprotein and Aqueous Film-Forming Foam (AFFF) compounds, but excluding non-Newtonian types.

6. The foam induction rate shall be controlled by an infinitely variable control knob with calibrated incremental markings from 0 to 120 litres per minute.

7. The RTP system shall be suitable for use when the pump is operating from a vehicle tank, open water or, with some constraints, a pressure fed source.

8. Foam compound shall be supplied to the inductor from either a free-standing or vehicle-mounted tank.

9. The RTP system shall be simple to operate in a single step – selecting the required foam flow on the flow regulation knob which then starts the foam induction process.

10. The RTP system will operate satisfactorily with a pump discharge pressure between 5 -15 bar.

RTP for High Pressure Discharge

11. The high pressure discharge version of the RTP shall be available as an additional option to the system defined in sections 1 to 10 of this specification.

12. The high pressure foam system shall be capable of inducing the low quantities of foam necessary for discharging from the high pressure hose reels only.

13. The main castings shall be made of BS approved aluminum alloy (BS1490 LM25 TF and LM6) and hard anodized to resist wear, compatible with the main pump the system is attached to. In the case of a bronze Prima pump the RTP castings will be made of BS approved gunmetal (BS1400 LG2C).

14. The high pressure foam system shall be available in two versions – fixed foam flow rate and selectable foam flow rate.

15. The Fixed flow foam version shall be based on the fitting of fixed jets (workshop only) into an automatic valve unit. There shall be fixed jets available for 1%, 3% and 6% foam.

16. The selectable foam flow rate version shall allow the changing of the foam percentage, 1%, 3% and 6% available at the induction module, whilst the pump is in operation.

17. The variable foam flow rate version shall feature a metering valve with a rotary control that is capable of being mounted in the pump instrument panel.

18. In addition, the variable foam flow rate version shall provide the option of two different pump water flow rates – 80 l/min and 125 l/min – to each hose reel.