

## **Fig No 4500-4x**

A pre-assembled unit comprising of a FODRV & strainer on the flow side, a ball valve & PIBCV pressure independent balancing control valve on the return side and also a flushing bypass complete with ball valve. The PIBCV shall be pressure independent and fitted with an on/off or modulating actuator with a M28 x 1.5 mounting thread and 4mm stroke. The low flow version is specifically designed to regulate ultra-low flow rates down to 0.003 l/s. The valve should maintain the flow at the desired flow rate as the diaphragm responds to the pressure upstream and downstream of the balancing valve (via an internal impulse line). The maximum volume flow should be set according to the flow charts by means of a key and can be reset at any time if required. The FODRV facilitates flow verification and isolation. The unit must be configured to allow forward & reverse flushing. The ball valves will have integral extended levers to facilitate lagging and maintain a vapour seal during operation. Valves must be sized for the flow rate required for each application, low flow versions will be available. Rated PN16. The valve manufacturer shall provide a five year fully comprehensive warranty, covering parts, labour and consequential loss.