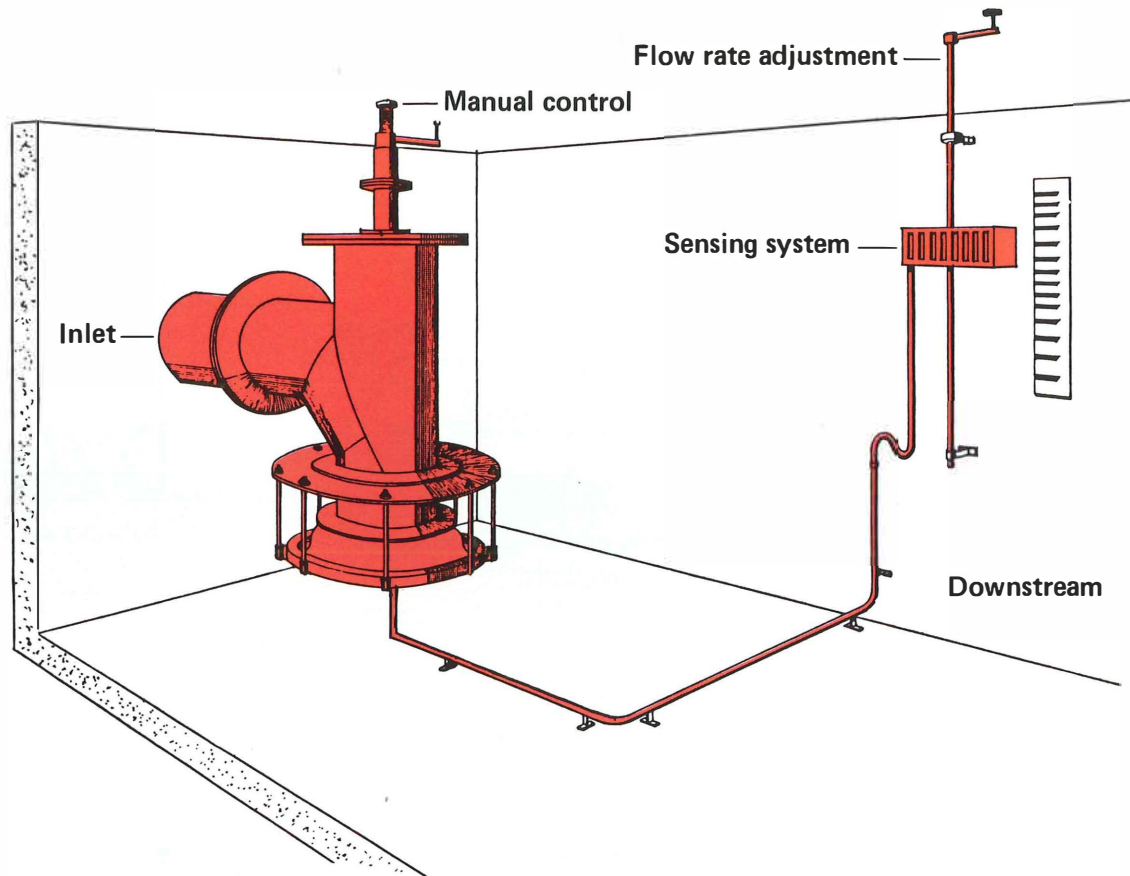


THE FDS AUTOMATIC DIAPHRAGM VALVE



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APPLICATIONS

The valve is used to control a constant (but adjustable) downstream water level with a widely varying level upstream. Standard upstream variation is $\pm 0,3\text{m}$ to 15m.

The valve can be used in: Diversion works, reservoir inlets and outlets, canal offtakes and for water apportionment.

OPERATING PRINCIPLE

Upstream water pressure activates a diaphragm which opens/closes the valve. The movement of the diaphragm is controlled by a simple sensing system.

FEATURES

Regulation

Automatic control of downstream level is maintained without any external power source. Accuracy of control is better than required in normal practice.

Discharge

Installed with a measuring weir or flume enables required discharge to be pre-set and maintained without fluctuation.

Security

The valve can be manually closed and locked to prevent tampering by unauthorised persons.

Manual operation

The valve can be manually operated.

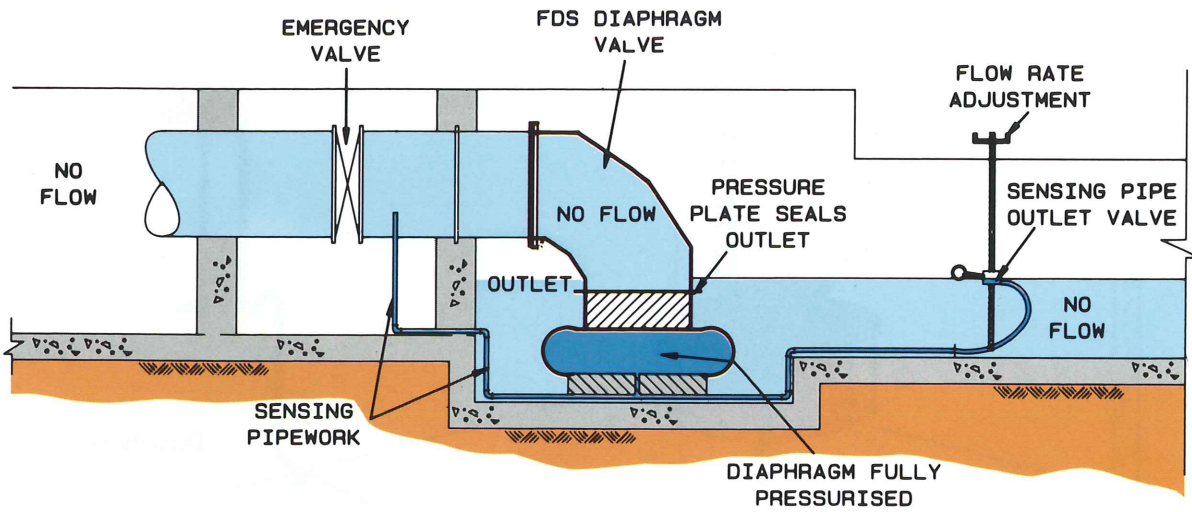
OPTIONAL EXTRAS

- ★ Upstream head variation lower than 0,3m and greater than 15m can be handled.
- ★ A wide range of applications can be designed to suit customer specifications.

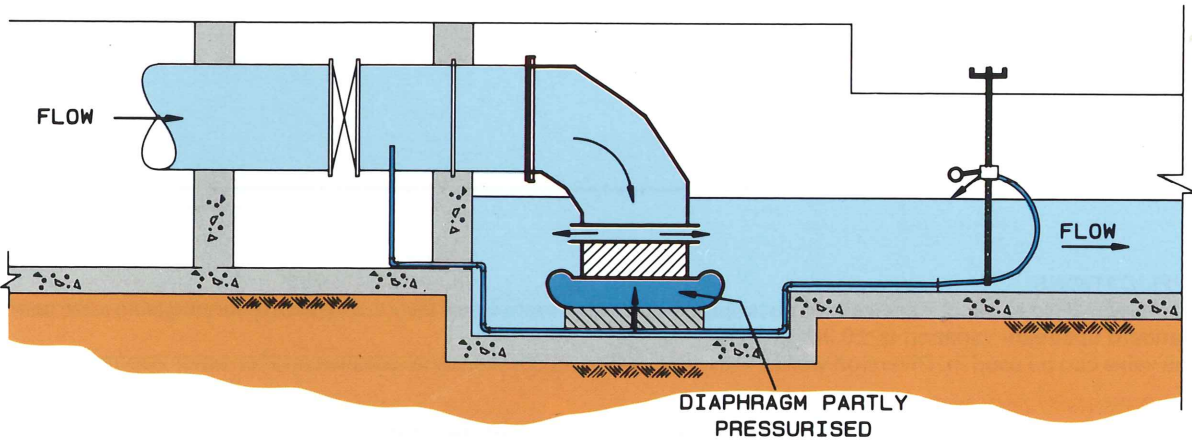
THE FDS AUTOMATIC DIAPHRAGM VALVE

UPSTREAM

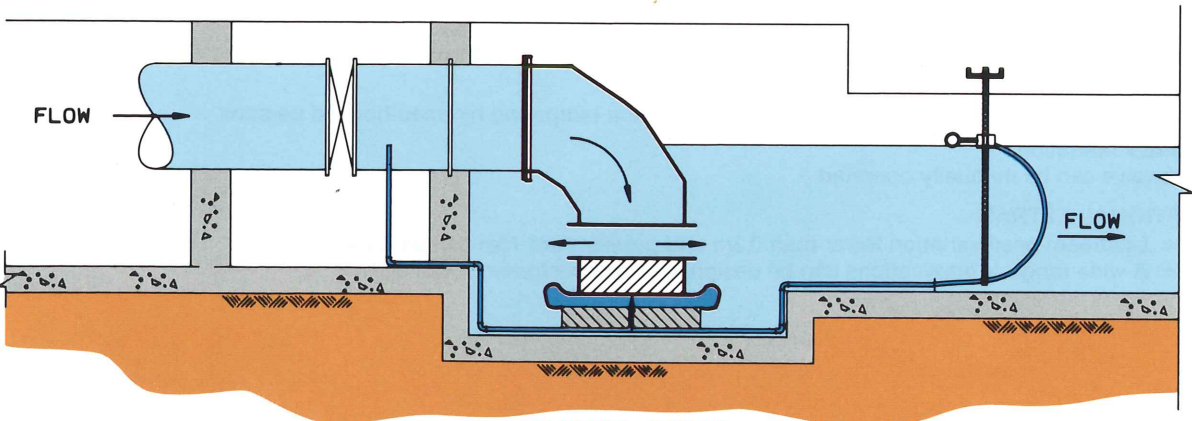
DOWNSTREAM



VALVE CLOSED



VALVE OPENING



VALVE OPEN