

SALT WATER DISPOSAL CONTROL VALVE

Startup, regulated process control of fluids and shutdown of a SWD pump enables you to manage your disposal process and protect the disposal pump. You can successfully maintain efficient operations and minimize downtime by using this control solution.

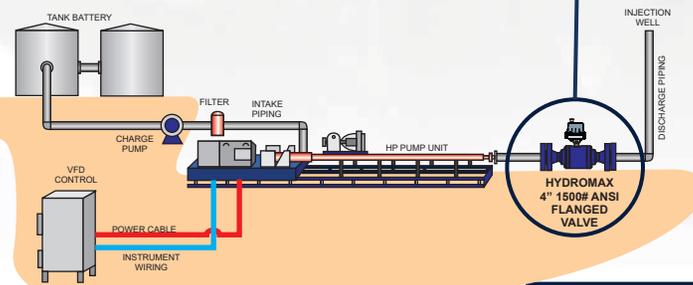
Why an SWD Control Valve

During the startup of a saltwater disposal (SWD) pump, it is necessary to hold back pressure on the pump to keep it at or near its best efficiency point (BEP). The HydraMax throttling prevents damage to the pump and allow it to build up pressure to reach its optimal operating conditions. Once the pump is running at optimum conditions, the valve can be gradually opened to manage differential pressure between the pump and the disposal well as needed. It is important have the pump curve available to properly size and configure the valve to meet the customer requirements.

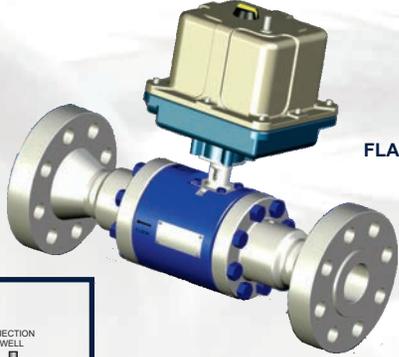
In a high pressure injection well, it is important to carefully control the pressure of the injected fluid to ensure that it is injected at the desired rate or pressure. One way to do this is to use a valve with a three stage pressure drop. Additionally a staged pressure drop valve can help to reduce noise, cavitation and flashing.

A three stage pressure drop valve works by gradually reducing the pressure of the injected fluid as it passes through the valve.

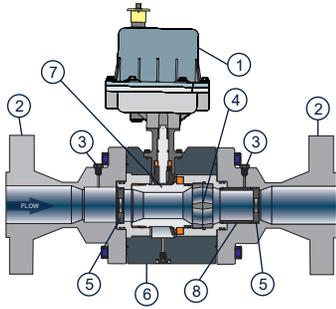
Overall, the use of a three stage pressure drop valve can help to control the pressure of the injected fluid, reduce noise, and potential of cavitation and flashing. It is important to carefully design and size the restrictions in the valve to achieve the desired results.



HYDRAMAX



**HYDRAMAX
FLANGED THROTTLING
VALVE**



Major Components

1. Actuator
2. Hub Assembly
3. Pressure/Injection Ports
4. T/C Control Discs
5. Positive Beams (optional)
6. Carbon steel Body
7. Stainless Steel Internals
8. Wear Sleeve

Fluid Pressure

Travel in Flow Stream (travel)

Benefits of installing a Hydroplex Valve

- **Precise Control** with “Direct Mount” Actuation, no brackets, linkage or adapters
- Superior **Resolution and Accuracy** with 270 Degree Rotation and Twin Disc trim
- **High Repeatability Rate** maintains unparalleled control in applications
- **Twin Disc Design** separates control and sealing surfaces for longer useful life
- **Robust Stem and Seal** design integration provides for hundreds of thousands of cycles
- **Solid Tungsten Carbide Trim** minimizes seal and control surface wear
- **Longest Mean Time Between Service** with Stainless Steel internals
- **Chemical Injection Port** in the body
- Optional internal **MultiStage Pressure Drop** capability