

World Wide Facilities to Serve You



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Quality Products and Services Since 1969

SAFE - T Hydro

Monitoring and Control System for Seal Water



TOO MUCH WATER DOWN THE DRAIN?



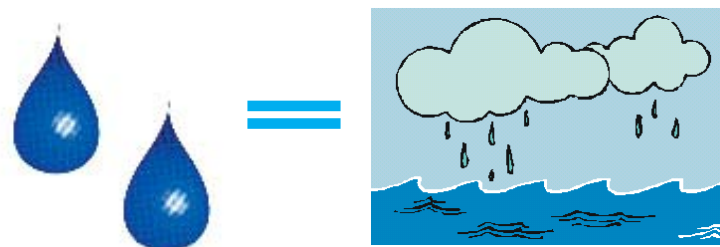
- Recent surveys indicate that up to 30% of wastewater is seal water.
- Too much water down the drain can mean enormous capital expenditures to enlarge existing effluent centers and evaporators
- Get control of your seal water and packing flush, with a Safe-T Unit.
- Reduce your flow and save money

The seal water flow can be reduced 30% by using Safe-T Unit.

USED WITH MECHANICAL SEALS — Allows you to maintain the correct pressure and desired flow to the seal chamber. This will give the seal the optimal environment to run in. The result will be longer operating life.

USED WITH PACKING — Allows you to preset the flow therefore saving up to 30% of flush water. As pressure drops on the gauge, simple gland tightening will restore to the correct operating pressure and leakage rate.

SAVE SEAL WATER
2 drops/second = 14 m³/year



SAFE-T UNIT — COMPUTE YOUR SAVINGS

EXAMPLE

PRESENT CONSUMPTION / YEAR / MILL

Input data:

Number of pumps (PCS)	=	N	150
Estimated Seal Water Flow / Pump (Gal/Min)	=	F	2 GPM
Operating Days/Year (PCS)	=	T	350

Formula

$$\text{CONSUMPTION} = N \times F \times T \times 1440$$

$$= 150 \times 2 \times 350 \times 1440$$

PRESENT CONSUMPTION 151,200,000 MILLION GAL/YEAR

CONSUMPTION WHEN USING SAFE-T UNIT:

$$151,200,000 \times 0.7 = 105,840,000 \text{ GAL/YEAR}$$

SAVINGS: = 45,360,000 GAL/YEAR

Complete Formula : Consumption = NxFxTx24x60
 Constant 24 hours x 60 minutes = 1440 minutes

YOUR PLANT CONSUMPTION / YEAR

Input your data:

Number of pumps (PCS)	=	N	<input type="text"/>
Estimated Seal Water Flow / Pump (Gal/Min)	=	F	<input type="text"/>
Operating Days/Year (PCS)	=	T	<input type="text"/>

YOUR PLANT CONSUMPTION = N x F x T x 1440

A. PRESENT CONSUMPTION OF YOUR PLANT = GAL/YEAR

B. CONSUMPTION WHEN USING SAFE-T UNIT:
 x 0.7 = GAL/YEAR

(A - B)

SAVINGS: = GAL/YEAR



SAFE-T UNIT — FEATURES AND BENEFITS

A strong stainless base 7/8 inch thick. This eliminates the stripping of fittings that causes leaking.

Stainless steel glycerin filled pressure gauge. Will stand up in corrosive, and vibration environments.

Heavy duty flow internals. Longer lasting service with no risk of sticking.

Smooth action self-cleaning button. Easy to clean without effecting flow and pressure.

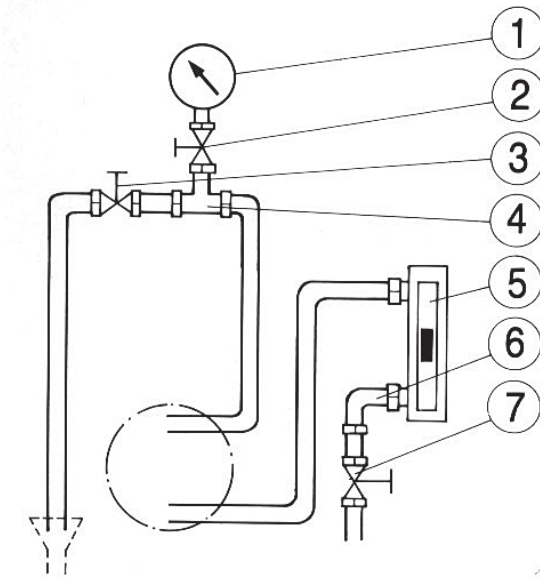
Orifice shaped regulating valves. Will allow larger particles to pass without plugging.

Alarm Option. Allows you to alarm for low seal water flow.

FLOW BODY RANGES

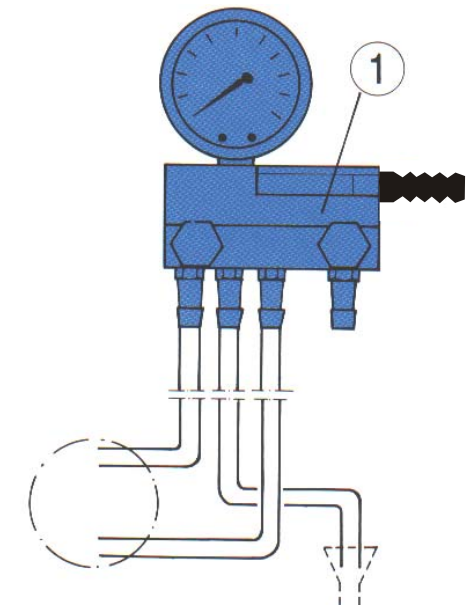
0-3 lit/min	(.79 usg)
0-8 lit/min	(2 usg)
0-12 lit/min	(3usg)
0-15 lit/min	(4usg)

ONE COMPLETE SAFE-T UNIT THAT CAN BE CLEANED WITH A SINGLE BUTTON, COMPARED TO MULTIPLE PARTS WITHOUT CLEANING OPTIONS



- (1) PRESSURE GAUGE
- (2) GAUGE COUPLING
- (3) VALVE
- (4) TEE CONNECTION
- (5) VOLUMETRIC FLOWMETER
- (6) ELBOW
- (7) FLOW REGULATING VALVE

Safe-T Unit



- (1) ONE SINGLE COMPACT UNIT

SAFE-T UNIT TYPES

Packing or Single Seal Flush



Type STP



Quench Seal



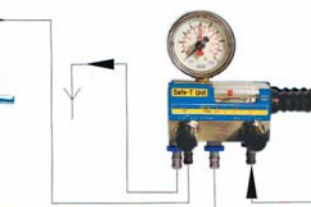
Type STQ



Double Mechanical Seal



Type STD



SAFE-T UNIT

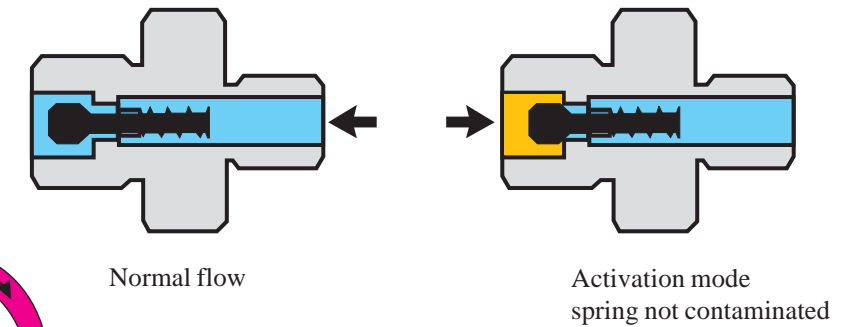
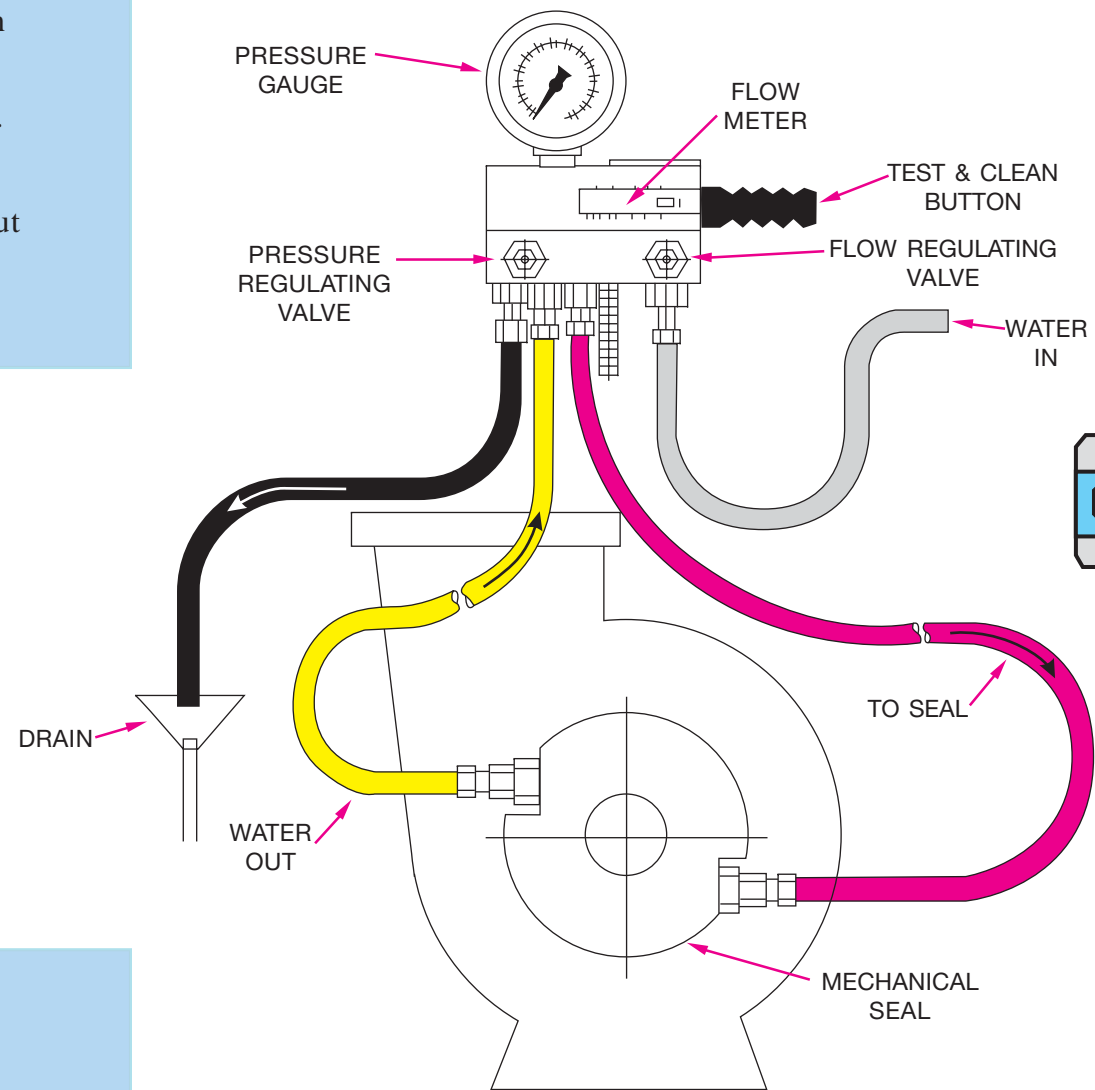
SAFE-T UNIT

1. EFFICIENT SELF CLEANING PUSH BUTTON

- The Safe-T Unit has a self cleaning button that, when pushed, cleans the flow tube. Heavy duty internals do not get caught up.
- This self cleaning design can be carried out without disturbing flow or pressure even when used with optional alarm.

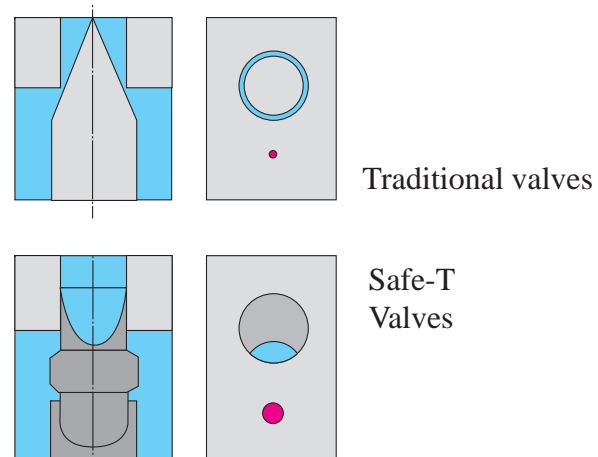
3. THE CHECK VALVE OPTION THAT PROVIDES TRUE PROTECTION.

- The check valve protects the Safe-T Unit and Seals from product contamination.
- With the Safe-T check valve design, the spring is always in the clean water..



2. NON-CLOGGING REGULATING VALVES

Large particles in the seal water can cause traditional valves to plug up. The Safe-T valves are designed to allow larger particles to pass without plugging.



4. ALARM OPTION TO PROTECT YOUR SEAL AND EQUIPMENT.

Inductive alarm works in conjunction with the float tube and the alarm position. It is mounted on the back.

