

Multi FlowUnit for Rough Seal Water Applications

Flow Control's Multi FlowUnit™ is a novel seal supply system that has undergone significant advancements in its operating principle. This innovation enables greater tolerances for impurities in the seal water, enhancing its reliability and performance.

The Multi FlowUnit™ is capable of detecting leaks in dual seals even at extremely low flow rates of 0.025 GPM. Its robust design ensures consistent operation in low-flow conditions.

Notably, the Multi FlowUnit™ boasts an exceptionally large flow aperture diameter, allowing it to accommodate even 0.079-inch particles at a flow rate of 1 GPM. This capability is particularly advantageous for applications involving paper and pulp mills, where different types of circulation waters can be utilized as seal water, provided the system is housed within a stainless steel body.

The Multi FlowUnit™ seal supply system has two different functions in the same body (in dual seals):

1. Zero-Flow (Non-Flow), a dual seal's outlet is plugged (or closed by a valve) with a pressure of the main supply pipeline, but without a pressure control.
2. A regular flush and a pressure control.

The Multi FlowUnit™ detects leakages in dual seals into or out of the product (also O-ring leaks on the shaft). The inductive sensor connected to the Multi FlowUnit detects the leakages.



Multi FlowUnit™ is available in three different basic versions:

- MFU-MP: for packing and single seals
- MFU-MQ: for Quench seals (unpressurized)
- MFU-MD: for double seals (pressurized)

These basic versions of Multi FlowUnit™ are available in a variety of reported flow ranges and are also available in a number of body materials and metal parts materials.





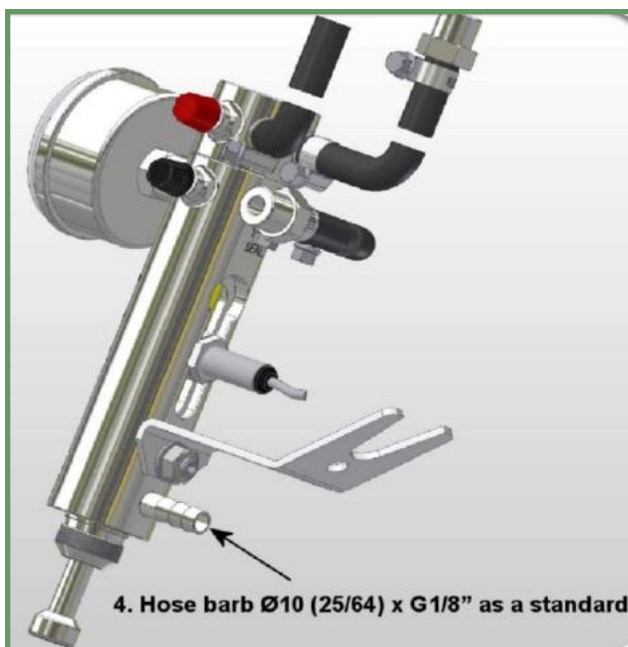
Model MQ



Model MP



Model MD



Technical Specifications:

- Flow Ranges: 0.025-0.5; 0.13-1 and 0.25-2 GPM Max Pressure: 360 psi Range: 0-145/230/360 psi
- Body Material : Stainless steel EN 1.4305/ AISI304 or POM-C (PVDF)
- Metal parts: Stainless steel EN 1.4305/ AISI304 (1.4401/-04/AISI316/-L)
- Flow Tube: Grilamid TR 55 (PSU or glass) Seals: NBR (FPM)

Failure to ensure a seal between water and mechanical shaft seals leads to the overheating of moving surfaces, which subsequently causes surface damage. Consequently, seals typically begin to leak and necessitate either replacement or repair. The advantage of compression packing seals lies in their ability to be tightened, provided that the preservative has not been depleted.

Both types of seals necessitate clean sealing water for reliable operation. Consequently, transferring sealing water to seals or other objects without a sealing water monitoring device is not advisable.

Extremely large Flow aperture diameter

2000 μm @ 4 LPM
0,079 in @ 1 US GPM

