

RELY ON EXCELLENCE

MFU Multi Flow Unit

Seal Supply Systems | External Flush systems



Features

The Multi Flow Unit (MFU) is an economical sealing water management solution for reducing operating costs through minimized rates of fresh water and waste water. The MFU series is available in three basic versions:

MFU-MP: for single seals with flush

MFU-MQ: for seals with quench

MFU-MD: for double seals

These are available for different indicated flow ranges and with numerous system components (e.g. mounting supports, stands, hoses, alarm sensors, etc.) and other material combinations.

Circulation in accordance with API 682 [Plan 32](#), [Plan 54](#), [Plan 62](#).

Functional description

The seal water control unit MFU is designed to enable easy adjustment of the rate of sealing water (flush, quench or buffer water) on rotary machines to the optimum and lowest level of water consumption necessary for the seal's safe operation. Key parameters such as pressure and flow can be permanently monitored for early detection of any malfunctions. The buffer medium is supplied by an external system.

Advantages

- Economical supply system
- Optimized sealing water management
- Reduced costs for fresh water and waste water
- Easy operation and cleaning even during operation
- Safe operation even in case of pressure changes
- Quick detection of seal failures

Operating range

Max. operating pressure: 25 bar (363 PSI)

Max. operating temperature: 85 °C (185 °F)

Indicated flow range (pressure drop):

0.1 ... 2 l/min. (≤ 0.1 bar (1.5 PSI) at 2 l/min)

0.5 ... 4 l/min. (0.1 bar (1.5 PSI) at 4 l/min.)

1 ... 8 l/min. (≥ 1 bar (15 PSI) at 8 l/min.)

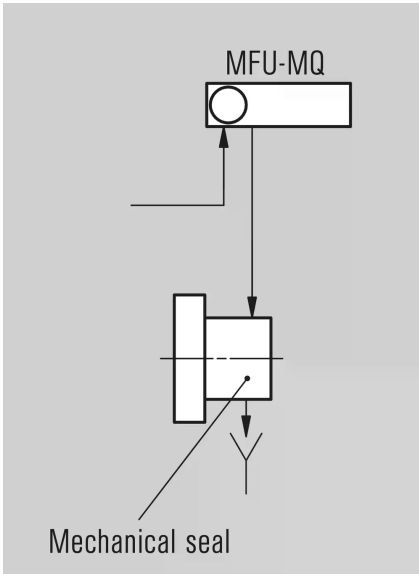
8 ... 15 l/min. (available on request)

Recommended applications

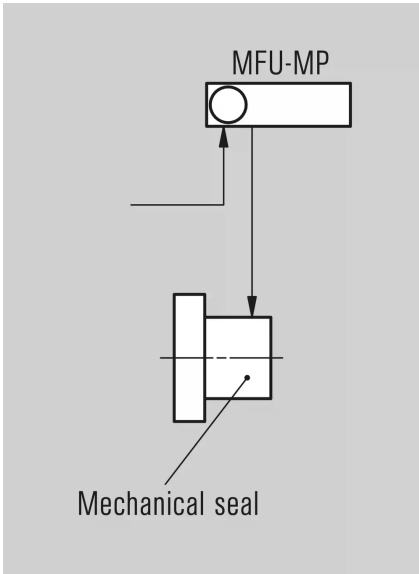
- Pulp and paper industry
- Food and beverage industry
- Water and waste water technology
- Chemical industry
- Process industry

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Installation, details, options

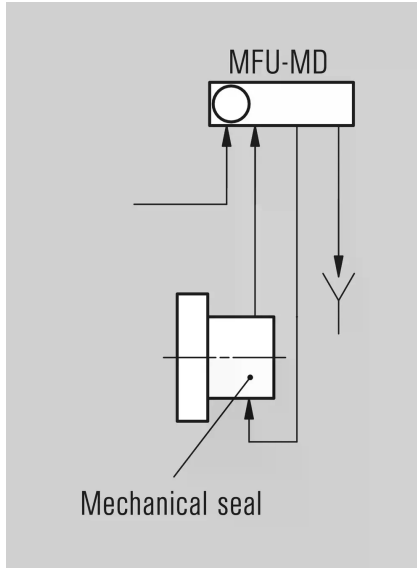


P&ID for MFU-MQ
(for mechanical seals with quench)



P&ID for MFU-MP
(for single mechanical seals)

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P&ID for MFU-MD
(for dual mechanical seals)

Product variants

Designation	MFU-MP	MFU-M0	MFU-MD
Pressure gauge	■		■
Pressure control valve			■
Flow rate (l/min.)	1 ... 8	1 ... 8	1 ... 8
Allowable pressure	25 bar (363 PSI) (*)		25 bar (363 PSI) (*)
Allowable temperature	85 °C (185 °F)	85 °C (185 °F)	85 °C (185 °F)
Accuracy	±3 ... 5 %	±3 ... 5 %	±3 ... 5 %
Housing material	AISI 304	AISI 304	AISI 304
Metal parts	AISI 316AISI 304	AISI 316AISI 304	AISI 316AISI 304
Sight-glass	Grilamid® TR 55	Grilamid® TR 55	Grilamid® TR 55
Seals	NBR	NBR	NBR
Process connections	Hose nozzlesfor 10 mm hose	Hose nozzlesfor 10 mm hose	Hose nozzlesfor 10 mm hose

Other versions with alternative connections, higher pressure and/or higher flow rates on request.

(*) Depending on range of selected pressure gauge (available range 10, 16, 25 bar)