

FLOW PRO™

Thomson Sealing System

Reduces flush water and extends equipment life

FEATURES / BENEFITS

Extends equipment life by protecting sleeve (non contact) and isolates packing from media attack.

Significant cost savings:

- Reduces flush water requirements as much as 70–90% (as demonstrated with the installation of a Thomson ESF Flowmeter).
- Eliminates packing extruded into the process.
- Reduces number of packing rings and includes integral lantern ring – never lose lantern ring position again!

Controls the stuffing box environment:

Harmful solids and particulate are contained from entering the stuffing box as the flush water is forced by the FLOW PRO bushing's unique design (integral tangential multi-porting) toward the pumped media utilizing the shaft's rotation and centrifugal forces are created; allows small amount to lubricate the compression packing.

Axially Split design installs quickly:

Can be easily retrofitted into existing stuffing boxes typically with no equipment modification required.



SPECIFICATIONS

Construction:

FLOW PRO bushing: Standard material carbon graphite-filled PTFE.

Optional materials: Stainless Steel 304SS, 316SS and 17-4PH SS Bearing Bronze and Aluminum Bronze Alloy 954.

Temperature:

-250°F (-157°C) to +450°F (+232°C)

Surface speed:

4000+ fpm (Non-contact design)

For higher speeds, contact A.R. Thomson Group.

pH range:

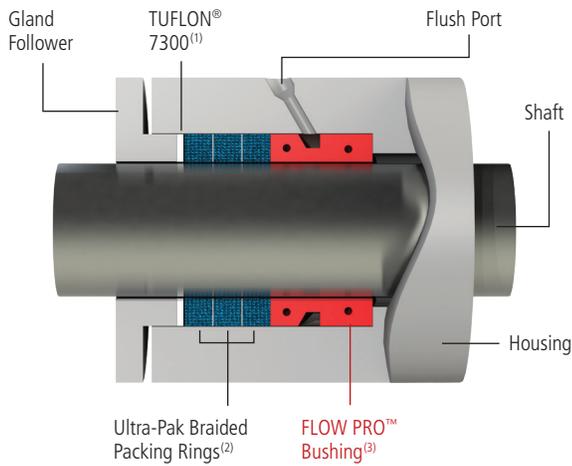
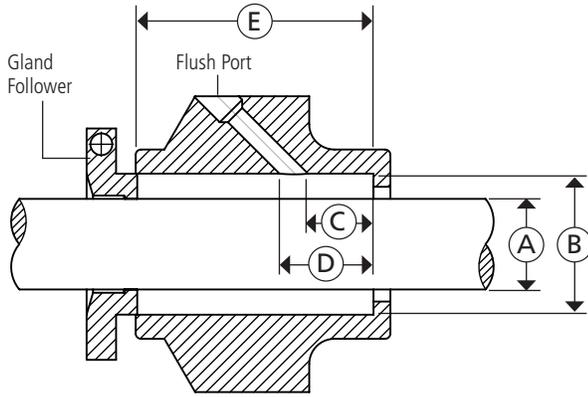
0–14 (except strong oxidizers)

TYPICAL APPLICATION

Thomson Flowmeter ESF 1335-PSEXXX, inline check valve FLUSH PLAN 32 shut off any discharge lines, gland water supply +25 psi > stuffing box pressure to ensure positive flow.

FLOW PRO™ SEALING SYSTEM

- (1) FLOW PRO split bushing
- (3) Ultra-Pak flexible graphite braided packing rings
- (1) Thomson Flowmeter ESF1335-PSEXXX
- (1) SS metal pump tag
- (2) Pullers, installation lubricant & instructions



APPLICATION DATA

Customer _____

Equip. manufacturer _____

Equip. model _____

Equip. reference number _____

DIMENSIONS

- A _____ Sleeve/shaft
- B _____ Stuffing box bore
- C _____ Bottom of s/box to beginning of flush port
- D _____ Bottom of s/box to end of flush port
- E _____ Stuffing box OA length

OPERATING CONDITIONS

Media: _____

Pressure: _____ bar or psig

Temperature: _____ °F or °C

Shaft Speed: _____

Shaft rotation: CW or CCW _____ rpm

(viewed from Motor end)

NOTES

- (1) Split gasket Thomson Teflon 7300 or other suitable material for application.
- (2) Thomson compression packing - select as per application requirements.
- (3) Flow Pro bushing - multiple configurations and materials available.

FLOW PRO bushings and Thomson Compression Packing - multiple configurations, options and materials available. Please discuss application specific details with your A.R. Thomson Group Account Manager for an engineered and reliable solution.

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