

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 designs:

- Integral flush grooves multi-porting.
- Solid close tolerance bushing.
- Split or solid.
- 4-piece split unitized design for minimal axial space available (first obstruction) - replaceable wearing element.
- SS threaded inserts for easier removal.

TYPICAL APPLICATIONS

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.

Optional materials:

Stainless Steel 304SS	PEEK™
Stainless Steel 316SS	WR® 300 PEEK
Stainless Steel 17-4PH SS	WR® 525 PEEK
Bearing Bronze	WR® 650 PEEK
Aluminum Bronze Alloy 954	AR® 1
Greene Tweed	AR® HT

SPECIFICATIONS

Construction - FLOW PRO Bushing:

Standard material carbon graphite-filled PTFE.

Max Pressure:

To 300 psi rotary
To 2500 psi valve packing

pH range:

0–14 (except strong oxidizers)

Temperatures:

-250°F (-157°C) to
450°F (232°C)

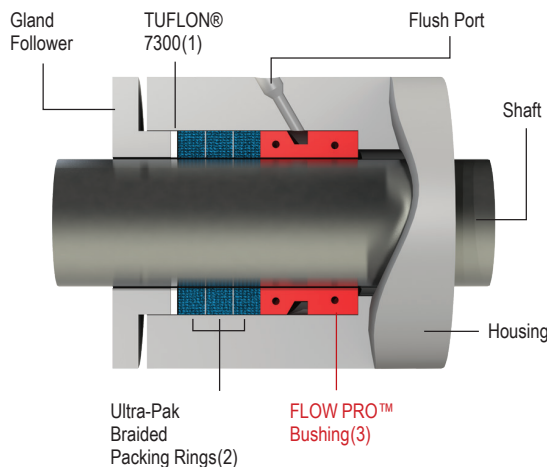
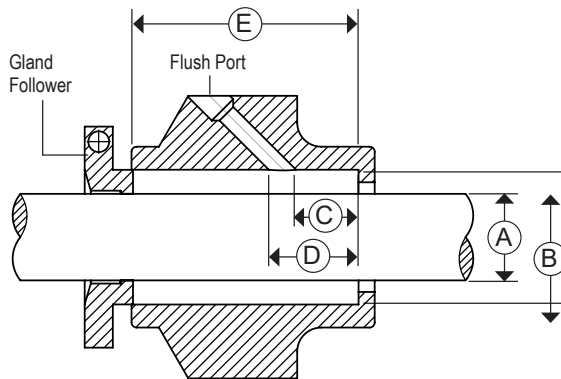
Max Speed:

4000+ fpm
(Non-contact design)

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

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: _____ rpm

Shaft rotation: CW or CCW _____
(viewed from Motor end)

NOTES

- (1) Split gasket Thomson Tuflon 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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