

ARNETT VALVES

FX SERIES

WALL MOUNTED WATER PENSTOCK

FX

WALL MOUNTED WATER PENSTOCK



MAX SIZE

118.1" x 118.1"
(3000 x 3000 MM)

WORKING HEAD

32.8 FT
(10 M)

MAX TEMPERATURE

176°F
(80°C)

SEAL

**BIDIRECTIONAL
ONE-PIECE PROFILE**

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WWW.ARNETT.COM

SIZES

Up to **118.1" x 118.1"**
(3000 x 3000 mm)

WORKING HEAD

32.8 FT
(10 M)

Higher head on request

TEMPERATURE

Up to **176°F**
(80°C)

SEAL

Bidirectional as standard
One-piece profile

SERVICE

On/off
and modulating

MOUNTING

Channel,
embedded in concrete,
or wall-anchored

FX

Wall mounted water penstock. To 118.1" x 118.1" (3000 x 3000 mm), 32.8 ft (10 m) head.

Every FX is designed for the customer's civil works. Sizes, head and materials outside the standard envelope: consult Arnett.



WALL MOUNTED WATER PENSTOCK

ONE CONTINUOUS PROFILE

The Arnett Valve FX is a welded assembly penstock for water service, used for isolation and flow control.
The seal profile runs as a single piece.

At the upper corners it curves, so those corners are part of the same continuous profile and carry no joints.
The penstock seals with the head on either face as standard.

Feature	Description
BIDIRECTIONAL AS STANDARD	Seals with the head on either face.
ONE-PIECE SEAL PROFILE	Curved through the upper corners, so the corners carry no joints.
HIGH FLOW, LOW PRESSURE DROP	The raised gate leaves the opening clear.
RISING OR NON-RISING SPINDLE	Both configurations, with extensions for remote operation.
INTERCHANGEABLE ACTUATION	Actuators swap with the penstock in place.
BUILT FOR CIVIL WORKS	Designed to the opening, the head and the operating position.



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APPLICATIONS

MINING AND MINERAL
PROCESSING

METAL

FOOD AND BEVERAGE

POWER GENERATION

CEMENT

CHEMICAL

PULP AND PAPER

WATER TREATMENT

OIL AND GAS

ALTERNATIVE ENERGIES



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MATERIALS AND CONSTRUCTION

Welded Assembly. Epoxy Coating On Carbon Steel Components.

Standard range	For seawater
Carbon steel, SS304, SS304L, SS316, SS316L	Duplex, Superduplex

Special materials and treatments on request.

Design to AWWA standards.

Pressure Equipment Directive PED 2014/68/EU, Article 4 Paragraph 3.

Machinery Directive 2006/42/EC.

Explosive Atmosphere Directive ATEX 2014/34/EU, Category 3, Zone 2 and 22.

Finite Element Analysis On Components And Assemblies.

ONE PENSTOCK FIVE ACTUATORS

Actuator type	Power source
Handwheel	Manual
Gearbox	Manual
Electric	Electric
Pneumatic cylinder	Compressed air
Hydraulic cylinder	Hydraulic

Actuators interchange with the penstock in place.

ISO 5210 drilling in most cases.

Other actuation options on request.

Rising or non-rising spindle.

On/off and modulating service.



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BUILT FOR CIVIL WORKS

Every FX penstock is designed to the opening, the head and the operating position it will live in.

The standard envelope runs to 118.1" x 118.1" (3000 x 3000 mm) and 32.8 ft (10 m) of head. Higher head is available on request.

Type	Where
Channel passage	Anchored in the channel section
Embedded	Cast into the concrete during commissioning
Wall-anchored	Bolted to the wall with anchor bolts and wall fixing connectors

CONFIGURATION OPTIONS

- Rising or non-rising spindle
- Spindle extensions for remote operation
- Floor stands to the installation
- Wall fixing connectors and anchor bolts
- Duplex and superduplex for seawater service
- Special materials and treatments on request
- Higher working head on request

Duties outside this envelope: Arnett engineers custom builds. Consult Arnett.



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TECHNICAL DATA

FX SERIES



ARNETT ENGINEERED SOLUTIONS

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