

Product Specification Sheet



Fabweld Steel Products Ltd
Going Beyond Expectations

1. Product Overview

Product Name: FAB-LIFT ADOPTABLE

Model Number: AC-FLS30

Application: Wastewater industry
Adoptable pumping stations

Manufacturer: FSP

Release Date: October 2025



2. Description

Built for the rigorous demands of adoptable pumping stations and chambers in the water industry, our heavy-duty access covers ensure safe and efficient operation. The integrated torsion spring system minimises manual handling, boosts operator safety, and helps prevent unauthorised access. Available in single, twin and multiple configurations suitable for person access, pump removal or valve chambers in a range of sizes. FSP offers fully customisable solutions to accommodate various situations that could be encountered.

3. Technical Specifications

FEATURE	SPECIFICATION
Clear Opening	Typical sizes listed below but bespoke sizes are also available 1000x750mm Person access 1500x900mm Wet well 2400x1800mm Valve chamber
Frame depth	Minimum 75mm. Bespoke frame depths available upon request
Frame rebate	180mm wide x 100mm deep on all 4 sides
Material	Mild Steel
Finish	Galvanized
Load Rating	Up to FACTA Class D BS EN 124 D400 up to 1000mm opening
Opening Mechanism	Torsion spring-assisted lift providing less than 25kg lifting force.
Security Features	Recessed padlock facility to suit Abloy and KABA padlocks Keyless locking mechanism Hidden hinges

Safety Features	Self-locating stay mechanism Ladder grid hinged fall protection Chequer plate upper surface
Optional extras	Anti slip coating (medium and heavy-duty) Fully stainless steel (304/316) Powder coating Odour seal either EPDM or Nitrile Cut outs in grids to suit Bauer couplings and suction hoses Walk on safety grids Demountable barriers
Installation Type	Primarily recessed but can be surface mounted

4. Performance

Our torsion spring access covers are engineered to provide operators with maximum safety and ergonomic support during chamber access. Each cover is designed for ease of use, requiring only a standard flat-headed screwdriver to open the cover once the utility padlock has been removed. All covers and frames in the FSP adoptable range require only one utility padlock to secure, offering a straightforward and cost-effective solution for the end user. The padlock housings sit outside of the optional frame seal hidden below the surface of the cover and are accessed through a hinged secure flap.

Every cover is equipped with integrated lift assistance, delivering a smooth and controlled operation with a maximum lift force of 25kg. Heavy-duty torsion springs are carefully selected for their durability and feature a 500-hour salt spray rating, ensuring long-lasting performance even in harsh environments. Once the cover reaches a 90-degree angle, a self-locating stay mechanism engages automatically, securely holding the cover in place and preventing accidental closure, ensuring operator safety during maintenance.

Our standard safety grid features a durable ladder-type design, which can be hinged either with the cover or independently. For wet well applications we use a split grid system designed to ensure a safe and controlled pump lift for operators. Once the pump is removed, the grids automatically return to their original position. They are aligned with the pump's centre line and spaced adequately to allow the lifting chain to pass through without obstruction. Furthermore, we also offer a 225mm diameter cutout in the grid to suit Type 1, 2, 3 pump stations not situated in a compound.

When needed, a cable flap can be opened allowing the cover to be securely closed with the pump still connected. For added safety, the cable flap is only accessible when the main cover is open, helping to protect operators during maintenance.

Where larger Bauer couplings are present in valve chambers, we also offer custom cut-outs within the grid to ensure seamless access and functionality.

For added flexibility, we also offer walk-on mesh grid options—tailored to meet specific site requirements and enhance operational versatility.

Where necessary, FSP can provide an odour seal affixed to the underside of the cover. This seal is engineered to resist crushing or damage during operation. Depending on site requirements, we offer options in either EPDM or Nitrile materials.

For added protection, we offer an optional fully demountable barrier system, expertly designed to withstand impact forces up to 125kg, providing an extra layer of safety and peace of mind for operators.

Our covers come standard with a durable hot dip galvanized finish, fully compliant with BS EN 1461. For enhanced aesthetics or environmental resilience, we also offer decorative powder coating or full stainless steel options, which would be ideal for coastal or high-corrosion areas.

5. Compliance & Standards

As standard our covers are designed to the latest Fabrication Access Covers Trade Association (FACTA) specification. All our designs are tested through the latest Finite Element Analysis (FEA) software with our fully qualified in-house engineer. We can also offer BS EN 124 load classifications up to D400. We use an experienced 3rd party for our galvanized coating. All our products are manufactured to the following standards

FACTA

Sewerage Sector Guidance Version 2.3 section D7.7

BS EN ISO 9001

BS EN ISO 14000

BS EN 45000

BS EN 1090-1

6. Packaging & Accessories

Installation guidelines

Optional accessories: Installation fixing bolts

7. Warranty & Support

12 months structural warranty

Technical support contact info: sales@fsp.co.uk