



## Type F, Wellhead Outlets, Fiber

### Ensuring safe connections for wellhead interfaces with fiber optic feedthroughs

With increasing demands for more data and operating at higher temperatures, there has been a growth in use of fiber optic cables for permanent monitoring. These solutions are only as good as the connections at surface and the AnTech Type F Wellhead Outlet range has been designed specifically to meet this need whilst maintaining the highest safety standards.

The adoption of fiber optics by the petroleum industry has created new demands for equipment that can safely allow fiber optic connections to downhole gauges in high temperature and pressure environments.

With the advancement in sensor technology the connections at surface also needed to evolve as standard connectors are not sufficient. AnTech have developed their own feedthroughs for fiber outlets and can offer a number of connection types including fusion splicing and mechanical connectors, suitable for operating temperatures up to 150°C and 15,000 psi.

The Type F outlets incorporate systems for storing excess fiber so that multiple attempts can be made at connecting the fiber, whilst protecting the delicate fiber.

The units share the same high levels of quality that all AnTech's outlets are known for and are designed and tested to meet the specifications set out in API 6A. Additional options are available such as PR2 and PSL 3G ratings. AnTech's design allows for pressure testing upon installation to ensure seals are pressure testable.



AnTech's flexible approach means that it can deliver bespoke and standard fiber outlet solutions for most wellhead connections and downhole cables.

### Features & Benefits

- Bespoke and standard models available
- High pressure ratings available
- Designed for use in hazardous areas
- Simple and easy installation
- Ability to pressure test upon installation



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ranges please  
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## Technical Specifications for our Type F Wellhead Outlet Range

| Product                                    |          | Type FA   | Type FB   | Type FC  |
|--|----------|---|---|--|
| Connection Type                            |          | Flanged or threaded connections as per customer requirements                |   | 0.5" NPT (10kpsi), 1.0" NPT (5kpsi), 1.5" NPT (5kpsi), 1" Autoclave (10kpsi) |
| Working Pressure                           |          | Up to 15,000 psi / 103 MPa  |   |  |
| API6A/ISO10423 Rating                      |          | -20°C ≤ T ≤ 150°C FF-NL PSL 3<br>Other options available:<br>PR2 and PSL 3G | -20°C ≤ T ≤ 150°C FF-NL PSL 3<br>Other options available:<br>PR2 and PSL 3G | -20°C ≤ T ≤ 100°C FF-NL PSL 3<br>Other options available:<br>PR2 and PSL 3G  |
| API6FB                                     |          | N/A   | As standard. Tested To API 6FB Part 2 (Offshore, Non Bending).              | N/A  |
| ATEX/IECEX Rating                          |          | Safe to use in all hazardous areas as power use is below ATEX limitations.  |   |  |
| Ambient Temperature                        | °C       | -20 °C to +150 °C   | -20 °C to +150 °C   | -20 °C to +100 °C  |
|  | °F       | -4 °F to +302 °F  | -4 °F to +302 °F  | -4 °F to +212 °F   |
| Secondary barrier method                   |          | Metal to Epoxy  |   | Metal to Epoxy   |
| Compatible lines                           |          | Single-, Dual-, Triple-, Quad-Fibre   | Single-fibre or Dual-fibre  | Single-, Dual-, Triple-, Quad-Fibre  |
| Maximum power                              |          | 35 mW   | 35 mW   | 35 mW  |
| Number of barriers                         |          | 2   | 2   | 2  |
| Ingress protection                         |          | IP54 (min)  |   |  |
| Ability to pressure test upon installation |          | Yes   |   |  |
| Sour Service**                             |          | As standard   |   |  |
| CO2 Service                                |          | If requested  |   |  |
| Acid Service                               |          | If requested  |   |  |
| Approximate Dimensions                     | Length   | 428 mm / 18.942 in  | 428 mm / 18.942 in  | 580 mm / 22.84 in  |
|  | Diameter | 140 mm / 5.500 in   | 145 mm / 5.710 in   | 56.5 mm / 2.22 in  |

\*Customer line type dependent, \*\*In compliance with NACE MR 00175/ISO 15156