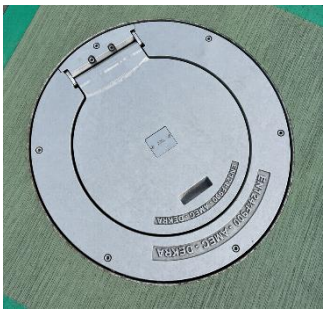
Aviation Ground Fuelling Solutions

Fuelling products

Hydrant Pit Box

HPB36xx, HPB43xx, HPB46xx, HPB52xx



PL-20 & SR-20



HPB52xx



HPB36xx



Engineered for Maximum Flexibility

Designed for demanding aviation fuelling applications, our Hydrant Pit Box range combines heavy-duty construction, easy maintenance and maximum configuration flexibility.

Available as a robust Single-Box Design or as an Environmentally Sealed Two-Piece Design, the HPB range can be adapted to customer-specific installation requirements.

Key Benefits

MAXIMUM FLEXIBILITY. BUILT IN.

Heavy-Duty • Service-Friendly • Customisable • Future Proof

- F900 Heavy-Duty Performance
- 600 mm Unrestricted Maintenance Access
- Single-Box or Sealed Two-Piece Design
- **Customer-Specific Solutions**
- **Interchangeable Lid Concept**
- ATEX Certified
- Future Proof
- **SMART ready**

Adapt today. Retrofit tomorrow.

Key Features

Technical Data

- EN124 (2015)
- Load Class F900
- EI 1540, EI 1541, EI 1584
- BP Mech 30
- Resistant
  - Anti-icing,
  - salt, water,
  - hydrocarbons
- ATEX certified

Design

- Steel construction
- Approx. weight: 190 kg
- HPB 36xx: Single-Box
- HPB 4xxx, 5xxx: Sealed Two-Piece
- 600 mm unrestricted opening for easy maintenance access
- Customer-Specific Solution
- Maximum flexibility, allowing easy conversion to alternative lid configurations at any time, even after installation.

Accessories

- Flat Seals
- Screw Plug
- SMART

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Technical details

	HPB36xx	HPB43xx	HPB46xx	HPB52xx
Unrestricted Maintenance Access, mm [in]	600 [24]	600 [24]	600 [24]	600 [24]
Removable Frames for Maintenance	Yes			
Pit Lid, lay flat [in]	Lift of Lid [18] Hinge Lid [20]	Lift of Lid [18] Hinge Lid [20]	Lift of Lid [18] Hinge Lid [20]	Lift of Lid [18] Hinge Lid [20]
Style	Single	Two-piece [Enviromental]		
Load Class	EN124-3:2015 Load Class F900			
ATEX	Yes			
SMART ready	Yes			
Materials				
Pit Lid	High-strength cast aluminium			
Pit Box Body (Steel)	Carbon steel conforming to BS 4360:43A			
Riser Pipe	ASTM API 5L Grade B Sch 40 or ASTM A106 Grade B Sch 40 Customized upon customer request			
Riser Flange	Customized upon customer request		6" ANSI B16.6 300lbs, A105 12xM20 thread for stud bolts	
Seals	Aviation fuel resistant Nitrile to BS 2751			
Protective coatings				
Inner surfaces of pit box (steel)	EA4 2217 AF AVIATION FUEL EPOXY COATING - White acc. EI 1541			
Outer surfaces of pit box and riser pipe (steel)	Macropoxy® 950 F acc. EI 1541			
Riser pipe bore (4" and above)	EA4 2217 AF AVIATION FUEL EPOXY COATING - White acc. EI 1541			
Fabrication and testing				
Riser pipe section	ASME B31.3 Customized to meet local standards and customer requirements.			
Testing	100% radiography of all but welds 100% NDT of all fillet welds			
Quality assurance				
Quality Management System complying with ISO 9001-2026				

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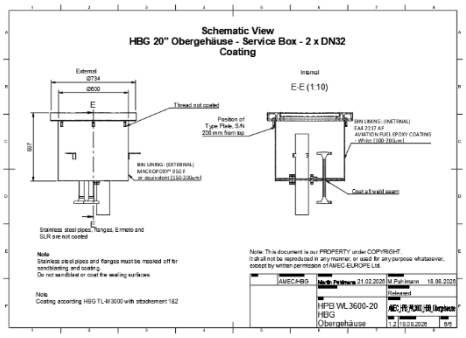
Dimensions & Schematic view

Designed around your requirements. Our modular Hydrant Pit Box family offers maximum flexibility for individual configurations. All models are SMART-ready and can be easily converted between PL-18 and PL-20, even after installation.

HPB36xx - Series

Non-Environmental Hydrant Pit Box, typically used as a service box for wall chambers, floor pits, and aircraft manufacturer applications.

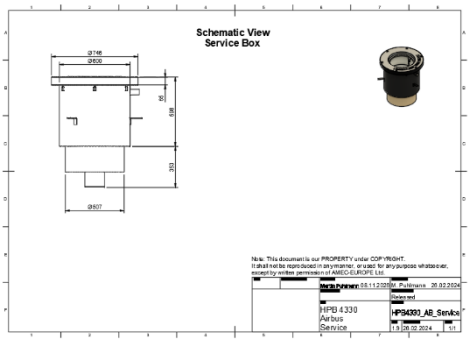




HPB43xx - Series

Environmental Hydrant Pit Box, typically use at airside for service equipment, electrically switches, pull box, etc.

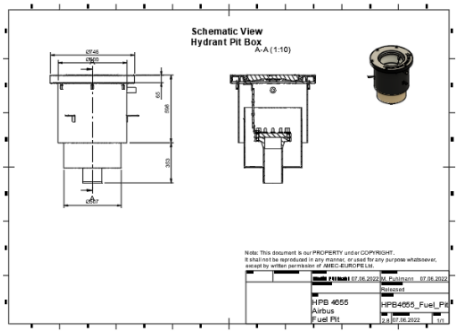




HPB46xx - Series

Environmental Hydrant Pit Box with **bottom entry** and 6” ANSI B16.5 Class 300 A105 riber flange, featuring 12 × M20 threaded holes for easy installation.
Typical applications include fuelling pits and high/low-point assemblies.

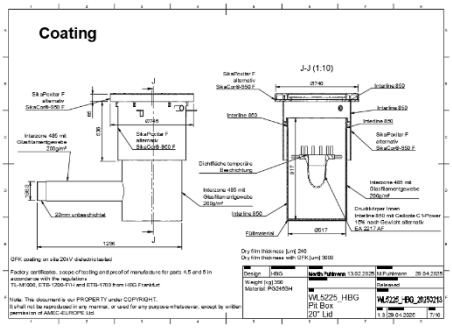




HPB52xx - Series

Environmental Hydrant Pit Box with **lateral entry** and 6” ANSI B16.5 Class 300 A105 riber flange, featuring 12 × M20 threaded holes for easy installation.
Typical applications include hydrant fuelling pits.





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Accessories

- Retaining rope – Tether
- Hinge Kit
- Flat Seals
- Bolts and Nuts

Other hydrant pit products

- **Pit Lid [DIA]**
  - PL-18 [18“]
  - PL-20 [20“]
- **Pit Lid [Clear Opening]**
  - PL-18 [16”]
  - PL-20 [18”]
  - Rolling cover assembly
- **Shoulder Ring [Clear Opening]**
  - SR-18 [16”]
  - SR-20 [18”]
- **Accessory**
  - Flange Spacer Ring
  - HPB Elevation Ring
  - Integrated Pit Box Drainage
    - 1" Bottom Drain Connection for Central Drainage
- **High Low Point assembly**
  - HPL WL4231
  - HPL Pressure relief / bleed valve
  - HPL Dip pipe
- **Hydrant Pit Valves**
  - Hydrant Pit Valve
  - Hydrant Isolation Valve
- **SMART – ATEX certified**
  - 5G Network Connectivity
  - BLE Access Point
  - Real-Time Monitoring
    - Open/Closed Status Detection
    - Temperature Monitoring
    - Liquid Containment Detection
  - Direct from Riser Flange
    - Pressure Monitoring
    - Volume Monitoring

Selected Installations & References

AMEC-EUROPE LTD. Aviation Ground Fuelling Solutions, including Hydrant Pit Boxes, installed at major international airports and customer sites worldwide.

Client/Intl. Airport	Country
Airbus	Global
Arlanda	Sweden
Berlin	Germany
Frankfurt Rhein/Main	Germany
Gardermoen	Norway
Johannesburg	South Africa
Madrid	Spain
Munich	Germany
NATO	Global
Vienna	Austria