

Part Number: F314B1101B



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[https://configurator.manntek.se/DAC/HOSEUNIT\\_DAC/3/AL/THREAD/SS/F\\_3\\_BSP\\_B\\_DAC/VITON/NONE/DEFAULT/PU\\_DEFAULT/WITHOUT\\_F/Product13.html](https://configurator.manntek.se/DAC/HOSEUNIT_DAC/3/AL/THREAD/SS/F_3_BSP_B_DAC/VITON/NONE/DEFAULT/PU_DEFAULT/WITHOUT_F/Product13.html)

### Product Group

#### Dry Aviation Couplings

Quick and safe connection of hose assemblies and loading arms to mobile and stationary tanks, under pressure and with minimised liquid loss.

DAC couplings are suitable e.g. for bottom loading of aviation refuellers. They are not certified for underwing refuelling. All wetted parts of the coupling are free from yellow metal such as brass/bronze, safeguarding media purity.

Both coupling parts are equipped with a flat poppet valve. For the connection, the hose unit is pushed onto the tank unit and coupled / sealed by turning the coupler clockwise by 15 degrees. When the unit is turned by 100 degrees, the valves move into the tank unit so that the medium can flow. When a similar turn is made counter-clockwise, the flow is stopped and the coupler can be pulled off.

Certificates: DAC couplings fulfill the requirements of European Pressure Equipment Directive category 2.

They are suitable for the use in potentially explosive atmosphere (ATEX) zone 1, approved for the transport of dangerous goods on road (ADR) and by rail (RID).

TÜV TÜ.AGG 304-99, Lloyd's Register 0038/ATEX/HAM064017, TDT-UW-21/16, EAC TC No. RU Д-SE.MHO62.B.02151

### Type of Coupling

#### Female (Hose Unit, Coupler)

Self locking quick connect/disconnect coupling for aviation fuel, to ISO 45, MS24484 and STANAG 3105 - with 2½" bayonet connection.

Hose unit with swivel, typically mounted on hose assemblies and loading arms for temporary connection between storage tank and mobile transport unit for loading and unloading.

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Nominal Diameter	<b>2½" (Ø 105 mm)</b>
Material Coupling and Body	<b>Aluminium</b>
	Maximum Working Pressure 10 bar
	Test Pressure 15 bar
	Minimum Burst Pressure 50 bar

Connection	<b>Threaded Connection</b>
Connection Detail	<b>F 3" BSP</b> 3" BSP female to EN ISO 228




Connection Detail	<b>Technical Drawing</b>
O-Rings	<b>Viton® (FPM/FKM) Standard</b> FKM/FPM (Fluorocarbon Rubber): FKM is known especially for its non-flammability, low gas permeability and excellent resistance to ozone, weathering and aging. The operating temperatures of the Fluorocarbon Rubber range between -20° C and +200° C). FKM is often used with mineral based oils and greases at high temperatures, aliphatic, aromatic and chlorinated hydrocarbons and oxidizing acids.

Options: Special Types	<b>No Special Types required</b>
Options: Handle	<b>Standard</b>



Flat Seal	<b>Polyurethane (Default)</b>
Accessories	<b>Without</b>

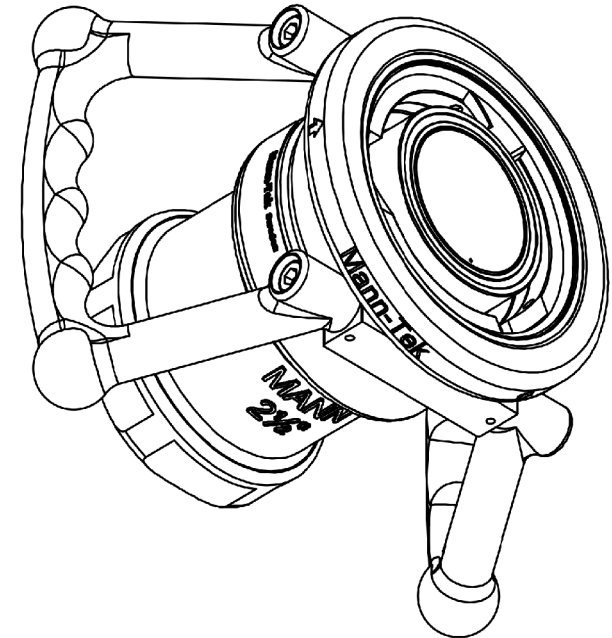
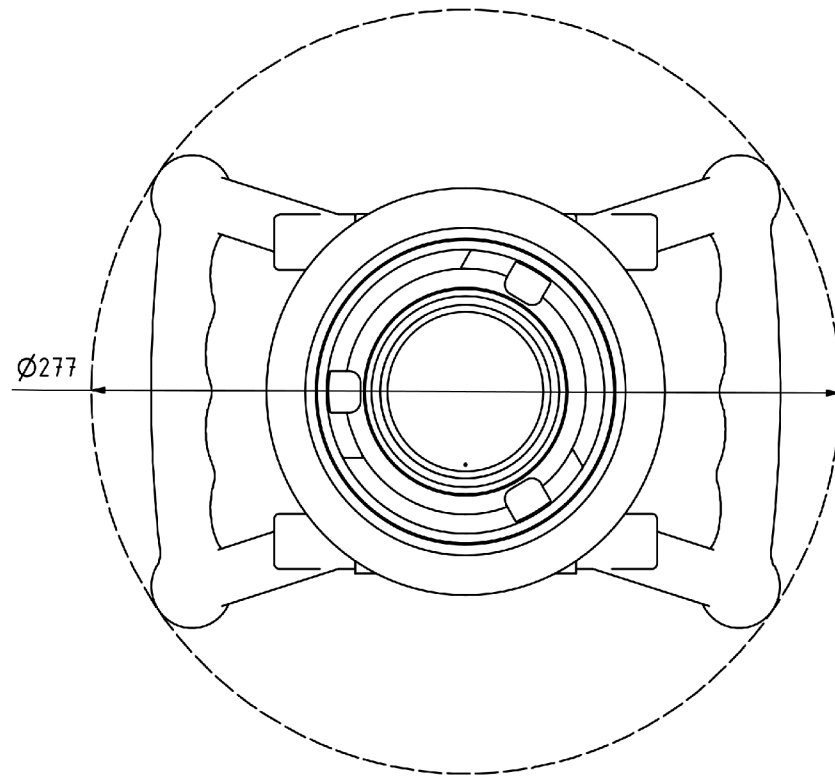
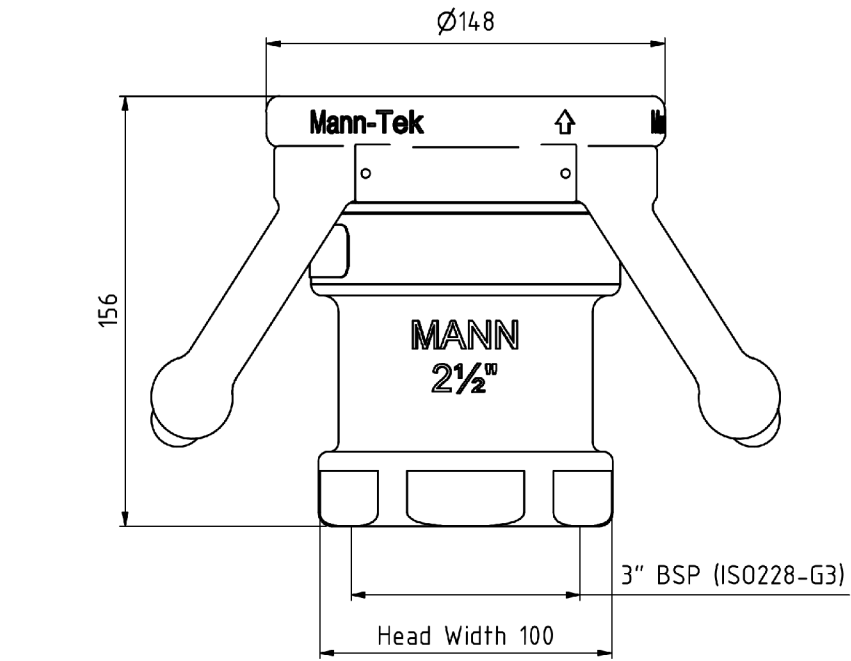
### PDF Documents

 [Homepage DAC-Couplings \(Dry Aviation Couplings\)](#)

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**MannTek**

F314B1101B-1  
Dry Aviation Couplings  
2 1/2" ( $\text{Ø} 105 \text{ mm}$ )  
F 3" BSP