



API Dry Break Refuelling Couplings

Dry Break Refuelling Couplings

API couplings provide dry break connection between the loading rack and the petroleum road tanker, enabling it to be safely loaded. They are used in most petroleum road and tanker bottom loading applications.

We are distributors for API couplings made by Fort Vale and Dixon Bayco, both companies have several decades worth of experience. Our API couplings are used by all the major oil companies and offer reliability, durability, and are easy to maintain



Technical Data

Variations

IFC offers both manual and semi-automatic API couplings. The Fort Vale manual API coupling is typically used on smaller oil distribution depots, while the semi-auto couplings suit both small depots and larger high volume terminals and refineries.

All of our couplings have safety features built-in to prevent accidental disconnection while the main valve poppet is open and prevent loading unless properly connected. A tapered head design ensures accurate alignment on connection. All API couplings comply with API RP1004 and ATEX Group II, Cat 2. The couplings are available with a variety of seal materials to ensure product compatibility.

Description	Dixon Bayco Semi-Auto Coupling	Fort Vale Semi-Auto Coupling	Fort Vale Manual Coupling
Dry weight kg	9.1	11.5	10.8
Design pressure bar / psi	10/150	6 / 87	6 / 87
Maximum surge pressure bar / psi	23/350	15 / 217	15 / 217
Pressure drop at 2200 l/min psi	3-4 psi	2-3	2-3
Operating temperature °C	-29 / 204	-13/50	-13/50
Automatic snap on connection feature	Yes	Yes	No
Standard seal material	Viton B	Viton B	Viton B
Optional seal materials	Viton GFLT	Viton GFLT-S	Viton GFLT-S
Seal Product Compatibility			
Petrol / Gasoline	*	*	*
Diesel fuel / gas oil	*	*	*
Heating fuel kerosene	*	*	*
Jet fuel / avgas	*	*	*
100% ethanol	*	*	*
Methanol	*	Viton GF	Viton GF
Biodiesel	*	GFLT-S	GFLT-S
MTBE / ETOH / MEOH		GFLT-S	GFLT-S



Dixon Bayco
Semi-Automatic



Fort Vale
Semi-Automatic



Fort Vale
Manual

IFC Inflow

Liquid Loading & Safe Tanker Access



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