



Eaton Quick Disconnect Couplings Quick Disconnect Couplings FF Series ISO 16028

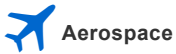
Overview & Features

In the hydraulic product line, Eaton offers the ISO 16028 Standard Flat Face (FF) Series line of Quick Disconnect Couplings. The newly redesigned Flat face couplings offer several competitive advantages. Connect to Eaton FF couplings – a top performing coupling for better productivity, fuel efficiency and reliability.

Features

- Higher working pressure: Exceeds ISO 16028 with higher operating pressure up to 400 bar
- Higher flow rates! Exhibits 17-30% higher flow rates than previous versions
- A whole new level of corrosion resistance: Up to 1000 hours corrosion resistance with environment friendly coating (nickel free)
- Connect under residual pressure up to 350 bar with optional FFCUP plug. Standard version to connect under lower residual pressure

Where Used



Aerospace

Applications:

- Medium Pressure Air Transfer



Buildings

Applications:

- Medium Pressure Air Transfer



Food and beverage

Platforms:

- In-Plant Processing

Applications:

- Medium Pressure Air Transfer



Government

Applications:

- Medium Pressure Air Transfer



Machine building

Platforms:

- CNC Machining
- Metal /Hydro Forming
- Metal Stamping and Shearing

Applications:

- Hydraulic Circuits and General Fluid Conveyance



Marine

Applications:

- Medium Pressure Air Transfer



Material Handling

Platforms:

- Plastics

Applications:

- Hydraulic Circuits and General Fluid Conveyance



Mining, metals and minerals

Platforms:

- Ball Mill
- Coal Mill
- Continuous Miner
- Conveyors
- Excavator
- Exploration Drill Rig
- Foundry Casting
- Highway Vocational Truck
- Longwall Mining System
- Mobile Crusher
- Off-Highway Dump Truck
- Reclaimer



Mobile machinery and equipment

Platforms:

- 0-40 hp
- 100+ hp
- 40-100 hp
- Aerial Work Platforms (Scissor & Boom)
- All hp
- Backhoe Loader
- Biomass Processing
- Combines
- Compactor
- Concrete Pump
- Crane

- Rope Shovel
- Semi-Continuous Mining System
- Shuttle Car
- Stacker
- Stationary Crusher
- Steel Mill Furnaces
- Surface Drill Rig
- Wheel Loader


Applications:

- Hydraulic Circuits and General Fluid Conveyance
- Medium Pressure Air Transfer

- Crawler Dozer
- Defoliating Equipment
- Delimers
- Excavator
- Feller Bunchers
- Forwarders
- Irrigation Systems
- Lift Trucks
- Loaders
- Paver
- Row Crop Planters
- Self-Propelled Forage Harvesters
- Self-Propelled Sprayers
- Self-Propelled Windrowers
- Skid Steer Loader
- Skidders
- Specialty Harvesting
- Stump Grinders and Wood Chippers
- Telehandler
- Tractors - 2WD:
- Tractors - 4WD:
- Tree Harvesters
- Trimming Equipment
- Wheel Loader
- Yarders

Applications:

- Hydraulic Circuits and General Fluid Conveyance

 **Oil and gas**

Platforms:

- Balers
- Downstream: Petrochemical
- Downstream: Refining (Ethanol/Biodiesel)
- Midstream: Terminal Operations (unrefined gas and liquids)
- Upstream: Offshore (fixed or floater) Equipment Handling
- Upstream: Onshore Drilling Operations

Applications:

- Hydraulic Circuits and General Fluid Conveyance
- Medium Pressure Air Transfer

 **Pharmaceuticals**

Applications:

- liquid Cooling

 **Utilities**

Applications:

- Medium Pressure Air Transfer

 **Rail**

Applications:

- Medium Pressure Air Transfer

 **Vehicles**

Platforms:

- Dump
- Heavy Duty On-Highway
- Medium Duty On-Highway
- Pick-Up and Delivery (LTL)
- Refuse Truck
- Trailers
- Transit Mixer
- Wrecker/Recovery

Applications:

- Hydraulic Circuits and General Fluid Conveyance

 **Renewables**

Platforms:

- Combined Heat & Power (CHP)
- Pumped Storage

Applications:

- Medium Pressure Air Transfer

Value Propositions

★ = Denotes point of differentiation

Value Proposition Statement	Audiences		
	OEM	Distributor	End User
★ New advanced Flat Face coupling offers top performing flow rates in the market. With up to 30% higher flow rates when compared to previous versions, this newly design FF coupling reduces fuel / energy consumption significantly.			
Eaton's FF Series offers higher operating pressures compared to some other manufacturers			

Eaton's FF Series offers higher operating pressures compared to some other manufacturers			
Allows for an increase in design versatility			
One product can be used in a variety of different applications			
The FF Series is laser marked with a part number and date code.			
Allows for lot traceability			
The FF Series is available on a global basis			
Manufacturers with a global footprint can purchase the product locally			
Eaton offers a one stop shop for your complete flush face series coupling requirements			
Decreases the # of PO's that need to be issued			
Decreases your freight costs			
The series features multiple seal options			
Both carbon steel and stainless steel options are available			
Eaton provides local support and engineering capabilities to aid our distributors in their efforts to resell the FF Series			
Prototyping and specials available around the world			
Product inventoried locally around the world			
Knowledgeable support before and after the sale			
The FF Series is laser marked with a part number.			
This enables part identification in the field that can lead to aftermarket sales.			
Eaton offers a longer warranty period than some competitors for the FF Series (three years)(NAM)			
This reduces the cost of ownership			
The FF Series is also available in stainless steel			
This reduces the cost of ownership due to its resistance when exposed to harsh environmental conditions.			
The FF Series color coding feature for the male and female halves reduces the chance of line crossing and contamination			
The FF Series sleeve lock feature comes standard and decreases the chance of accidental disconnection			
Eaton's Distribution Network makes the FF Series available globally to decrease equipment downtime			

Tools & Collateral

Brochure

- [Quick Disconnect Coupling Overview Brochure \(North America\)](#)
- [Quick Disconnect Coupling Oil and Gas Brochure E-MEQD-BB007-E](#)
- [Eaton Excavator Solutions E-VLOV-MC002-E3](#)
- [Flat face couplings redesign E-MEQD-TT003-E](#)

Catalog

- [Quick Disconnect Coupling Master Catalog E-MEQD-CC001-E6 \(North America\)](#)
- [Quick Disconnect Coupling Master Catalog E-MEQD-CC002-E2 \(EMEA\)](#)
- [Quick Disconnect Coupling Master Catalog E-MEQD-CC001-S2 \(in Spanish\)](#)

Poster

- [Quick Disconnect Coupling Poster E-MEQD-MG002-E \(North America\)](#)

Press Releases

- [FF Series Press Release](#)

Product Images

[Quick Disconnect Coupling Product Images](#)

Video

[Quick Disconnect Coupling Video](#)

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