

## Introducing the Eaton® Global Flat Face Advanced coupling re-Design

Connect to Eaton FF couplings – a top performing coupling for better productivity, fuel efficiency and reliability.

Eaton Flat Face couplings redesign offer several competitive advantages

### Higher working pressure!

Exceeds ISO 16028 with higher operating pressure up to 400 bar

### Higher flow rates!

Higher flow rates - up to +74% flow rate than ISO 16028 standards

### A whole new level of corrosion resistance

Up to 1000 hours corrosion resistance with environment friendly coating (nickel free)

### Connect under pressure up to 350 bars

Connect under residual pressure up to 350 bar



Eaton's FF couplings new design has a top performing pressure rating of 400 bar

400 bar for static, steady or non-pulsed applications and 350 bar for ISO pressure rating / Dynamic application with moderate hydraulic shocks

This provide a unique solution on the market with such high working pressure and high safety factor.

New advanced Flat Face coupling offers top performing flow rates in the market.

With up to +74% higher flow rates when compared to previous versions, this newly design FF coupling reduces fuel / energy consumption significantly.

Up to 3x more protection compared to previous generations of zinc plating

Is proven to protect against red corrosion to a minimum of 720 hours.

An environmentally friendly "Greener" plating solution:

Nickel-free  
Solvent-free

Meets Global RoHS, ELV and REACH requirements

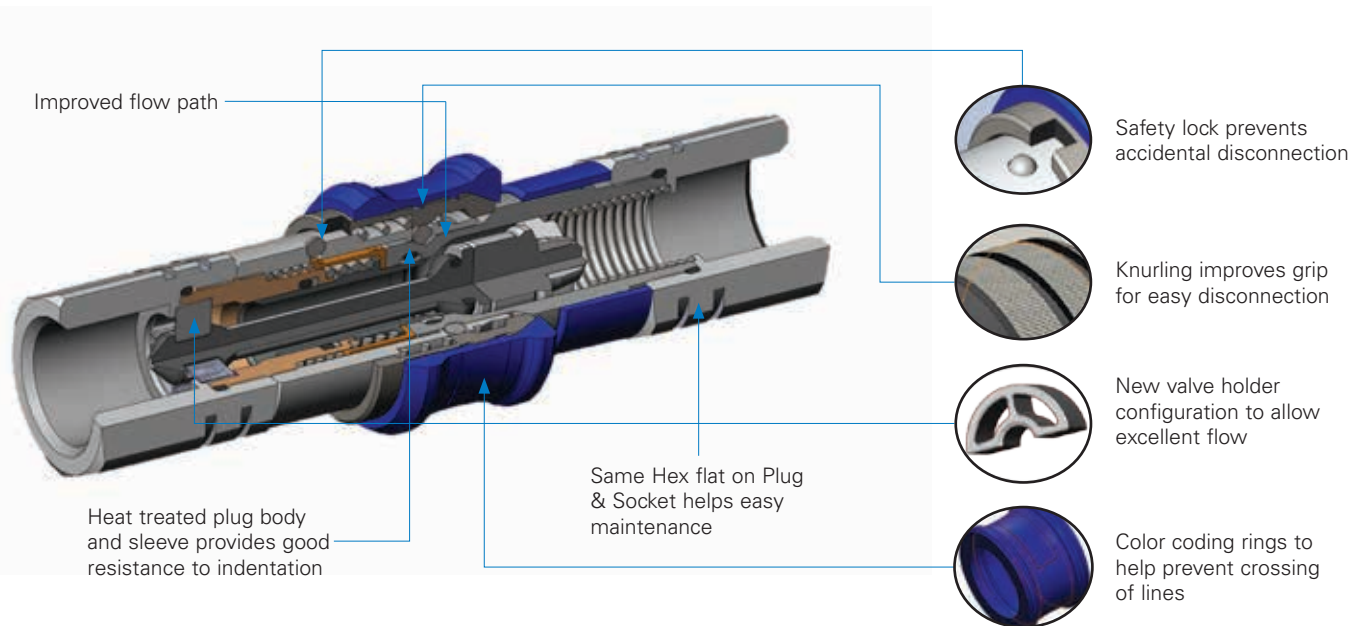
Eaton's Flat Face alternative design plug coupling connects under pressure (CUP) till 350 Bar

No de-pressuring is needed with tools, Eaton's patented relief valve releases residual pressure

Low residual application? Connect under pressure up to 50 bar with standard FF coupling!



Powering Business Worldwide



- Exceeds ISO 16028 with higher operating pressure up to 400 bar
- Exhibits higher flow rates
- Very high corrosion resistance
- Design versatility
- Connect under residual pressure

- The FF series offer a simple and very effective color coding system to **avoid line crossing**. The optional rings are now very **robust and easy to install** with dedicated insert tools.
- The FF series is **standard equipped** with a **sleeve lock** feature, the operator need to match the notch with the ball to be able to disconnect.

FF Family Part Number	ISO Size (mm)	Body Size (in)	Nominal Flow Diameter (mm)	Max operating pressure (Connected)		Rated Flow for 1 bar pressure drop (lpm)
				Static *	Dynamic **	
6FF	6.3	1/4"	7.5	400	350	18
10FF	10	3/8"	10.4	400	350	40
12FF	12.5	1/2"	12.3	400	350	77
16FF	16	5/8"	12.6	400	350	82
19FF	19	3/4"	15.1	400	350	114
25FF	25	1"	19.4	400	350	184
32FF	-	1 1/4"	22.1	300	300	260
40FF	-	1 1/2"	30.1	300	300	450
50FF	-	2"	39.2	300	300	700

\*steady or non-pulsed applications

\*\*ISO pressure rating / Dynamic application with moderate hydraulic shocks

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