

The evolution of the Flat Face Quick Disconnect Couplings puts the pressure on competition



Eaton's enhanced FF Series provides a distinct competitive advantage:



Pressure

Exceeds ISO 16028 operating pressures!*

400 bar constant pressure- No impulse

350 bar dynamic applications with moderate impulse



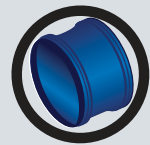
Flow Performance

Up to 40% better flow than previous versions!



Corrosion Protection

Now with Guardian Seal™ plating - up to 1,000 hours of corrosion resistance

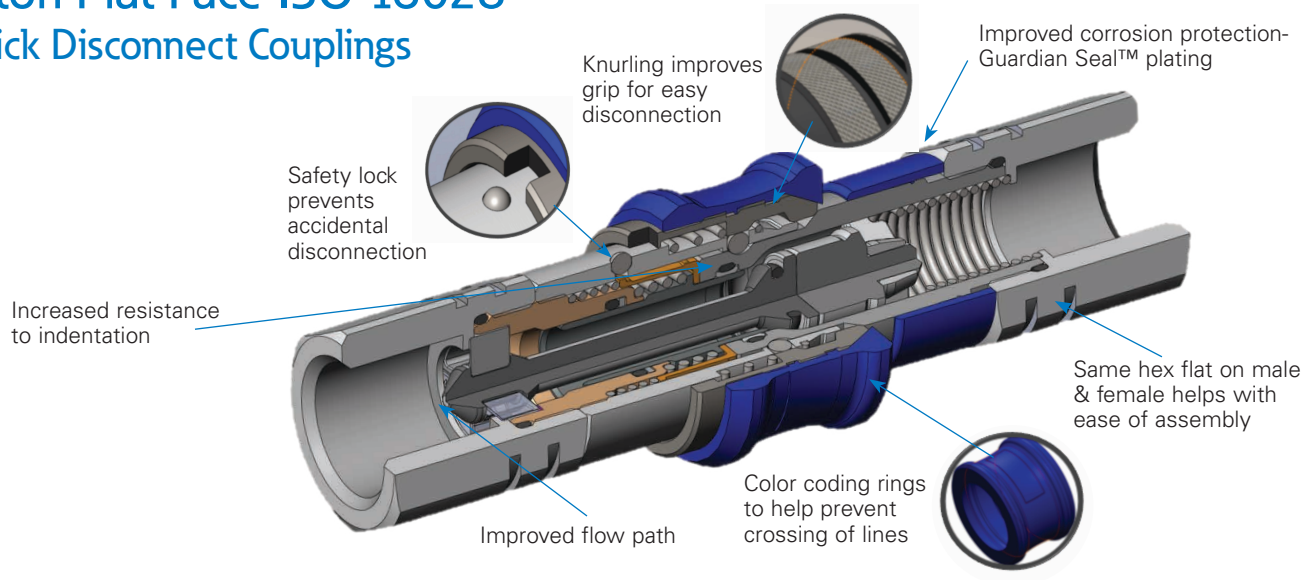


Color Coding

Easy identification that saves time and prevents misapplication of connections

* ISO 16028 pressure rating is 250 bar.

Eaton Flat Face ISO 16028 Quick Disconnect Couplings



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

FF Family Part Number	ISO Size	Body Size	Nominal Flow Diameter	Max operating pressure (Connected)		Rated Flow for 1 bar pressure drop
				Static *	Dynamic **	
	mm	in	mm	bar	bar	lpm
6FF	6.3	1/4"	7.5	400	350	18
10FF	10.0	3/8"	10.4	400	350	40
12FF	12.5	1/2"	12.3	400	350	77
16FF	16.0	5/8"	12.6	400	350	82
19FF	19.0	3/4"	15.1	400	350	114
25FF	25.0	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

Additional Features and Benefits

- **Venting through lines** allow connection under residual pressure capability (FFCUP series up to 350 bar/ FF series up to 50 bar)
- **Sleeve lock safety mechanism** comes standard on all FF couplings preventing accidental disconnection
- **Knurling on sleeve** improves grip for easy disconnection
- **Resistance to indentation** under heavy impulse and pressure applications
- **Identical hex flats** on both male and female halves for easy assembly
- **Options** for additional seal material and thread configurations

Eaton vs Competition

ISO 10 mm Size (3/8")	Eaton FF Series	Competitor S	Competitor F	Competitor D
Operating Pressure (bar)*	400	350	350	345
Flow (lpm)**	40	29	35	50
Burst Pressure (bar)	1,400	1,000	1,700	1,379
Corrosion Protection (in hours)	<1,000	400	720	240

* 1 bar is equivalent to 14.5 psi. For dynamic applications operating pressures are 350 bar

** Rated flow for 1 bar pressure drop

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