

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



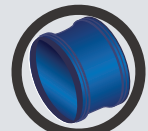
Flow Performance

Up to 40% better flow than previous versions!



Corrosion Protection

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

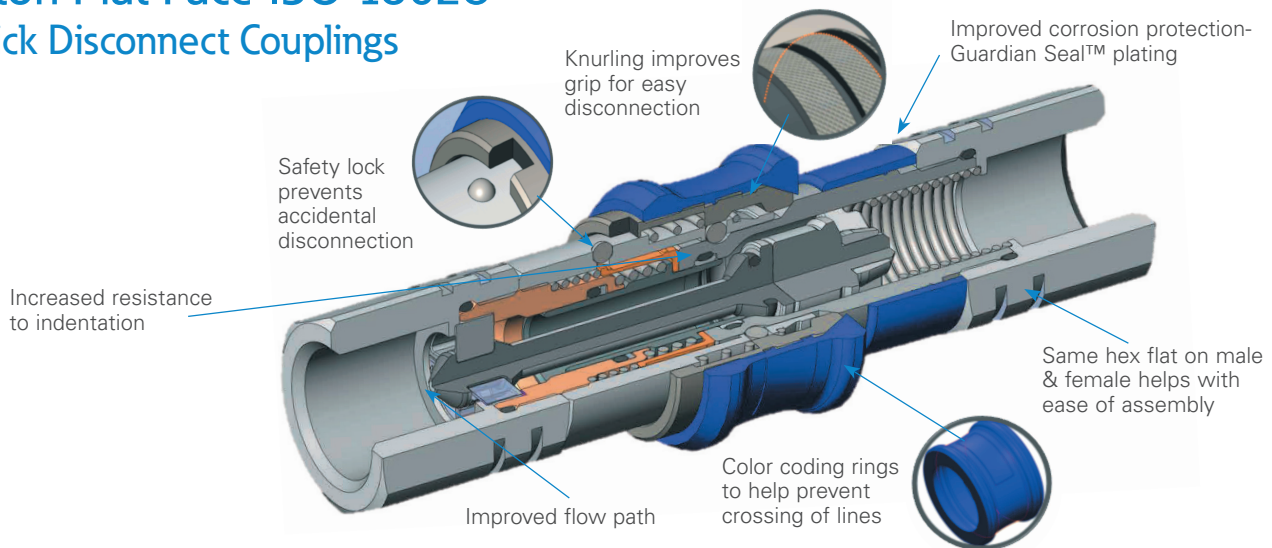


Color Coding

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 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 bar | 350 bar | 18 |
| 10FF | 10.0 | 3/8" | 10.4 | 400 bar | 350 bar | 40 |
| 12FF | 12.5 | 1/2" | 12.3 | 400 bar | 350 bar | 77 |
| 16FF | 16.0 | 5/8" | 12.6 | 400 bar | 350 bar | 82 |
| 19FF | 19.0 | 3/4" | 15.1 | 400 bar | 350 bar | 114 |
| 25FF | 25.0 | 1" | 19.4 | 400 bar | 350 bar | 184 |
| 32FF | - | 1 1/4" | 22.1 | 300 bar | 300 bar | 260 |
| 40FF | - | 1 1/2" | 30.1 | 300 bar | 300 bar | 450 |
| 50FF | - | 2" | 39.2 | 300 bar | 300 bar | 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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