

MLFF Series (Stainless Steel) ISO 16028 Flat Face/Dry Break



MLFF Series stainless steel coupling is a flat face dry break coupling used for hydraulic applications. The MLFF Series interchanges with all ISO 16028 profiles. Due to its stainless steel design, it is corrosion resistant and can handle aggressive environments.

Product Features

- Designed and manufactured under Article 3.3 of the European Pressure Equipment Directive (PED) 97/23 EC
- Safety sleeve lock prevents accidental disconnections
- Push to connect with double shut-off valving
- Shock resistant color coding ring option available in sizes 10FF, 12FF, 16FF and 19FF to prevent accidental crossing of lines
- Resistant to aggressive environments and corrosion
- Utilize FF Series dust caps
- Standard body material: 316L Stainless steel corrosion resistant
- Alternative end connections available upon request
- Standard seal material: FKM, EPDM, NBR+AU, HNBR (upon request)

Physical Characteristics

| ISO Size* (mm) | Coupling Size (in) | Maximum Operating Pressure | | | | Minimum Burst Pressure | | | | Rated Flow** (lpm) (gpm) | Fluid Loss ml-cc. | Air Inclusion ml-cc. | Force to Connect | | | | | | | | |
|-------------------|-----------------------|----------------------------|-----------------------------------|---------------------------------------|---------------------------------------|--------------------------|-----------------------------------|---------------------------------------|---------------------------------------|-----------------------------|----------------------|-------------------------|------------------|-------|--------|-----|-------|-------|-------|-----|------|
| | | Connected (bar) (psi) | Plug/ Male Half (bar) (psi) | Socket/ Female Half (bar) (psi) | Socket/ Female Half (bar) (psi) | Connected (bar) (psi) | Plug/ Male Half (bar) (psi) | Socket/ Female Half (bar) (psi) | Socket/ Female Half (bar) (psi) | | | | N | Lbs | | | | | | | |
| 6.3 | ¼ | 250 | 3,625 | 250 | 3,625 | 250 | 3,625 | 250 | 3,625 | 2,335 | 33,858 | 1,640 | 23,780 | 1,330 | 19,285 | 17 | 4.49 | 0.004 | 0.007 | 80 | 18.0 |
| 10 | ¾ | 250 | 3,625 | 250 | 3,625 | 250 | 3,625 | 250 | 3,625 | 1,672 | 24,244 | 1,664 | 24,128 | 845 | 12,253 | 29 | 7.66 | 0.006 | 0.010 | 140 | 31.5 |
| 12 | ½ | 250 | 3,625 | 250 | 3,625 | 250 | 3,625 | 250 | 3,625 | 1,679 | 24,346 | 997 | 14,457 | 993 | 14,399 | 55 | 14.53 | 0.012 | 0.013 | 195 | 43.8 |
| 16 | ¾ | 250 | 3,625 | 250 | 3,625 | 250 | 3,625 | 250 | 3,625 | 1,190 | 17,255 | 950 | 13,775 | 880 | 12,760 | 67 | 17.70 | 0.016 | 0.030 | 205 | 46.1 |
| 19 | ¾ | 250 | 3,625 | 250 | 3,625 | 250 | 3,625 | 250 | 3,625 | 1,370 | 19,865 | 882 | 12,789 | 845 | 12,253 | 105 | 27.74 | 0.034 | 0.015 | 215 | 48.3 |
| 25 | 1 | 250 | 3,625 | 250 | 3,625 | 250 | 3,625 | 250 | 3,625 | 1,690 | 24,505 | 1,000 | 14,500 | 850 | 12,325 | 177 | 46.76 | 0.032 | 0.033 | 260 | 58.5 |
| 25 | 1 | 250 | 3,625 | 250 | 3,625 | 250 | 3,625 | 250 | 3,625 | 1,690 | 24,505 | 1,000 | 14,500 | 850 | 12,325 | 177 | 46.76 | 0.032 | 0.033 | 260 | 58.5 |
| - | 1½ | 250 | 3,625 | 250 | 3,625 | 250 | 3,625 | 250 | 3,625 | 750 | 10,875 | 750 | 10,875 | 750 | 10,875 | 450 | 118.9 | 0.265 | 0.445 | 385 | 86.6 |
| - | 2" | 175 | 2,535 | 175 | 2,535 | 175 | 2,535 | 175 | 2,535 | 525 | 7,610 | 525 | 7,610 | 525 | 7,610 | 700 | 184.9 | 0.390 | 0.260 | 375 | 84.3 |

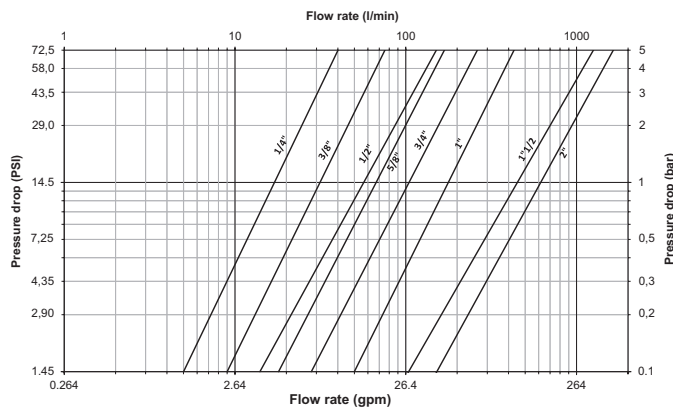
* The ISO size corresponds to the internal diameter of the hose or the external diameter of the rigid tube (as defined in ISO 4397 Standard)

** Indicated values refer to a 1 bar/14.5 psi pressure drop

Applications & Markets

- Construction
- Agriculture
- Iron and Steel Industry
- Railway
- Oil and Gas
- Marine
- Material Handling
- General Hydraulic applications

Flow Data



Seal Elastomer Data*

| Seal Elastomer | P/N Code | ISO Size (6FF to 25FF) Maximum Operation Temperature Range | Non-ISO Size (40FF and 50FF) Maximum Operation Temperature Range |
|-----------------------------------|----------|--|--|
| NBR (Nitrile) + AU (Polyurethane) | - | -25°C +100°C/-13°F +212°F | on request |
| FKM | -143 | -20°C +200°C/-4°F +392°F | -20°C +200°C/-4°F +392°F |
| EPDM (Ethylene-Propylene) | -192 | -40°C +150°C/-40°F +302°F | on request |

*For reference only, based on Eaton recommended temperatures.

Contact Eaton technical support for further information on fluid compatibility.

Retrouvez toutes nos références sur notre catalogue en ligne et toutes les fiches techniques sur www.bmsfrance.eu

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