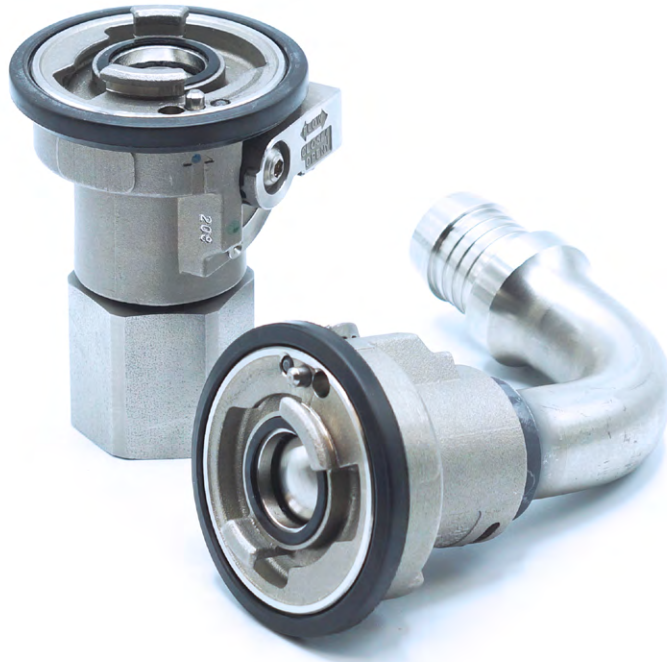


Fact sheet

Danfoss Hansen FD83 Series Coupling Thermal Management



Danfoss Hansen's FD83 coupling is designed for fluid transfer and electronics cooling applications where full flow, fluid compatibility and safety are essential. The FD83 identical halves include two interlock features to eliminate spills and ensure maximum safety. Valves cannot be opened until the coupling halves are mated and coupling halves cannot be disconnected until both halves are closed.

NEW! The FD83 coupling is now available in size 2"

Product features

- Dual interlock safety feature eliminates accidental opening of coupling when disconnected with the use of a patented locking pin design and lever handle
- Design provides reliable performance and no spillage during maintenance or service
- Standard seal material: EPDM, additional material available on request
- Standard body material: 303 stainless steel
- Full flow coupling
- Color coded bumper seals are available
- Identical coupling halves
- Maintenance and service friendly
- 303 stainless steel material provides broad fluid compatibility
- Wide range of terminal end options

Physical Characteristics

| Coupling Size | Max. Operating Pressure | | | | | | Min. Burst Pressure | | | | | | | | |
|------------------|-------------------------|-------|-----------------------|-------|-----------------------|-------|---------------------|-------|-----------------------|-------|-----------------------|-------|---------------|---------------|---------|
| | Connected | | Socket/Female Half | | Socket/Female Half | | Connected | | Socket/Female Half | | Socket/Female Half | | Rated Flow | Fluid Loss | |
| (in) | (bar) | (psi) | (bar) | (psi) | (bar) | (psi) | (bar) | (psi) | (bar) | (psi) | (bar) | (psi) | (lpm) | (gpm) | cc. max |
| 1 | 10 | 150 | 10 | 150 | 10 | 150 | 20 | 300 | 20 | 300 | 20 | 300 | 189 | 50 | 5.0 |
| 2 New! | 10 | 150 | 10 | 150 | 10 | 150 | 20 | 300 | 20 | 300 | 20 | 300 | 189 | 50 | 12 |

Dimensions

| Part Number | Body Size | Port Size | Thread | Type | Fig. | Dimensions | | B | | Hex | ① |
|-----------------|-----------|-----------|-----------|------------------|------|------------|--------|-------|--------|-----|--------|
| | | | | | | A | | | | | |
| | | | | | | mm | (in) | mm | (in) | mm | (in) |
| FD83-2052-16-16 | 1 | 1 | 1-11- 1/2 | Female NPTF | 1 | 95.5 | (3.76) | 71.6 | (2.82) | 41 | (1.63) |
| FD83-2052-12-16 | 1 | 3/4 | 3/4-14 | Female NPTF | 1 | 70.1 | (2.76) | 71.6 | (2.82) | 41 | (1.63) |
| FD83-2046-16-16 | 1 | 1 | NA | 1" Hose Barb | 2 | 84.2 | (3.31) | 71.6 | (2.82) | - | - |
| FD83-2092-16-16 | 1 | 1 | NA | 1" Hose Barb 90° | 4 | 125 | (4.92) | 71.6 | (2.82) | - | - |
| FD83-2096-16-16 | 1 | 1 | 1 5/16-12 | Male ORB | 1 | 95.5 | (3.76) | 71.6 | (2.82) | 41 | (1.63) |
| FD83-2098-16-16 | 1 | 1 | G1-11 | Male BSPP | 1 | 95.5 | (3.76) | 71.6 | (2.82) | 41 | (1.63) |
| FD83-2127-32-32 | 2 | 2 | 2 | Female BSPP | 1 | 122.4 | (4.82) | 105.3 | (4.15) | 70 | (2.76) |
| FD83-2128-32-32 | 2 | 2 | NA | Sanitary Flange | 3 | 102.4 | (4.03) | 105.3 | (4.15) | - | - |

Other end connections available upon request.

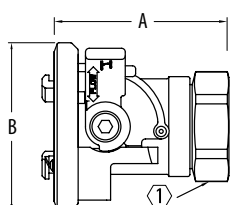


Figure 1

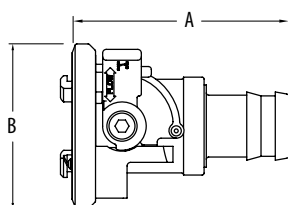


Figure 2

Applications & Markets

- Data Centers
- Mobile Battery Cooling
- Thermal Management Systems
- Industrial Fluid Transfer

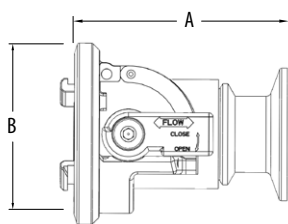


Figure 3

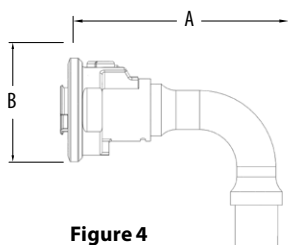
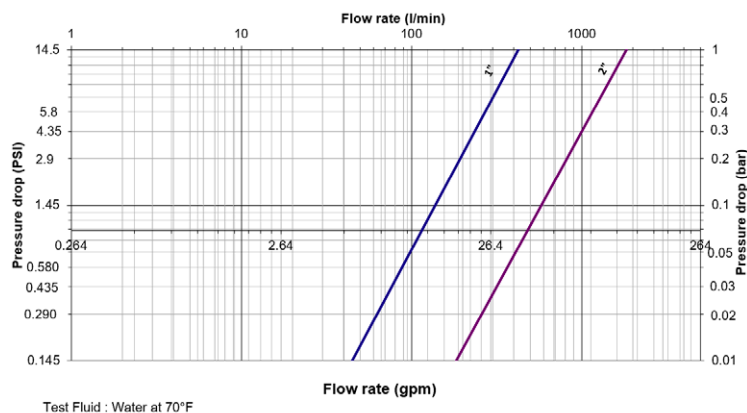


Figure 4

Flow Data



签约经销商: 信德迈科技 (北京)有限公司
 北京朝阳区望京 SOHO-T1-C 座 2115 室
 手机: 139 1096 2635 电子邮件: sales@cnmec.biz

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