



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.

 ${\sf NEW!}$ 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

Applications & Markets

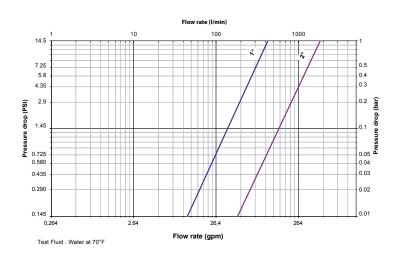
- Data Centers
- Mobile Battery Cooling
- Thermal Management Systems
- Industrial Fluid Transfer
- Not intended for two-phase cooling

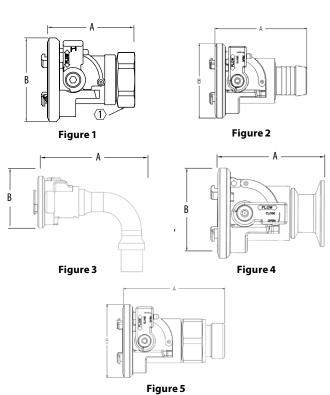


Physical Characteristics

	Max. Operating Pressure						Min. Burst Pressure									
Coupling Size	Connected		Socket/Female Half		Socket/Female Half		Connected		Socket/Female Half		Socket/Female Half		Rated Flow		Fluid Loss	CV value
(in)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)	cc. max	ſ
1	10	150	10	150	10	150	20	300	20	300	20	300	189	50	5.0	30
2 New!	10	150	10	150	10	150	20	300	20	300	20	300	800	211	12	127

Flow Data





Dimensions

Part	Body	Port				Dimen	sions				
Number	Size	Size	Thread	Туре	Fig.	Α		В		Hex	①
						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°	3	125	(4.92)	71.6	(2.82)	-	-
FD83-2096-16-16	1	1	1 5/16-12	Male ORB	5	95.5	(3.76)	71.6	(2.82)	41	(1.63)
FD83-2140-16-16	1	1	G1-11	Male BSPP	5	95.5	(3.76)	71.6	(2.82)	41	(1.63)
FD83-2126-16-16	1	1	G1-11	Female BSPP	1	84.3	(3.32)	71.6	(2.82)	41	(1.63)
FD83-2128-16-16	1	1	NA	Sanitary Flange 1	″ 4	79.6	(3.13)	71.6	(2.82)	-	-
FD83-2126-32-32	2	2	G2-11	Female BSPP	1	122.4	(4.82)	105.3	(4.15)	70	(2.76)
FD83-2127-32-32	2	2	NA	2" Hose barb	2	166.9	(6.57)	105.3	(4.15)	-	-
FD83-2128-32-32	2	2	NA	Sanitary Flange 2	′ 4	102.4	(4.03)	105.3	(4.15)	-	-
FD83-2052-32-32	2	2	2-11- ½	Female NPT	1	122.4	(4.82)	105.3	(4.15)	70	(2.76)

Other end connections available upon request.

Danfoss can accept no responsibility for possible errors in catalogs, brochures, and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequent changes being necessary in specifications already agreed. All trademarks in this material are the property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.