

# Danfoss Hansen®

## FD83 Full-Flow Quick Disconnect Coupling

### Unique dual interlock safety feature. Full-flow characteristics.

**Characteristics:**

- Compact stainless-steel construction extends life for safer operations, easy maintenance and space optimization.
- No spillage of fluid when connecting and disconnecting
- Proprietary profile with patented locking pin design and lever handle.



Markets/Applications

- Data center source line
- Electrification cooling
- Industrial fluid transfer



Sells Against

- Stäubli TDU 24 Series
- Johnson TSZ Series
- CEJN OCP Large QC



Features

- **Identical coupling halves** with safe mechanism to **prevent accidental opening** of coupling when disconnected and **no spillage**
- **Full-flow** feature **reduces pressure drop** and **maximizes system efficiency**
- **303 Stainless steel** body material and **EPDM** standard seal material for **high corrosion resistance** and broad **fluid compatibility**
- **2 Sizes available** (1" and 2") with different **end-connection types**

Order Fulfillment

- Standard FD83 configurations stocked in **AMER, APAC** and **EMEA** distribution centers.



## Physical Characteristics

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

## Flow Data

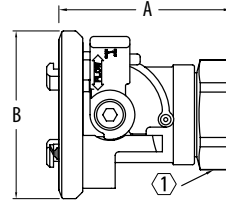
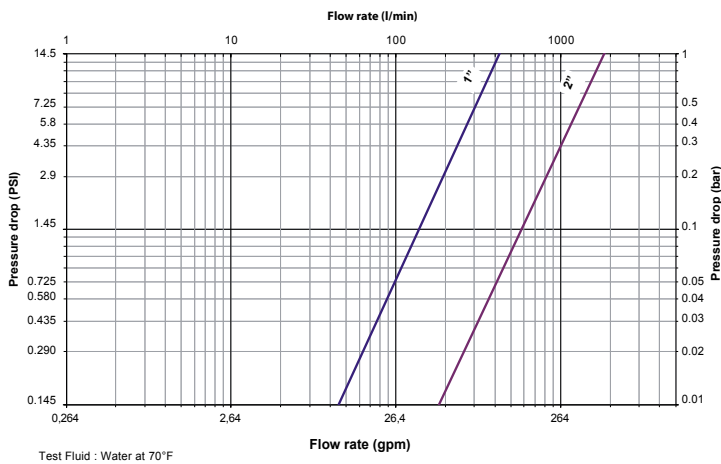


Figure 1

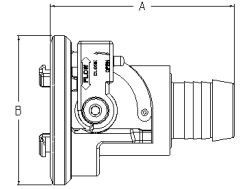


Figure 2

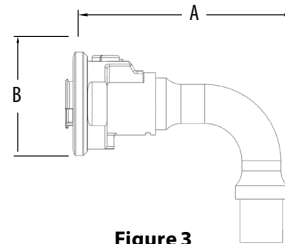


Figure 3

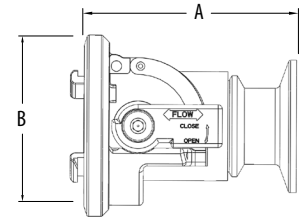


Figure 4

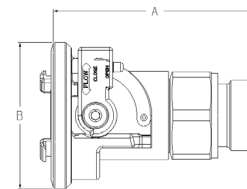


Figure 5

## Dimensions

Part Number	Body Size	Port Size	Thread	Type	Fig.	Dimensions		Hex mm	Hex (in)		
						A mm	A (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)
FD83-2128-32-32	2	2	NA	Sanitary Flange 2"	4	102.4	(4.03)	105.3	(4.15)	-	-
FD83-2052-32-32	2	2	2-11- 1/2	Female NPT	1	122.4	(4.82)	105.3	(4.15)	70	(2.76)

Other end connections available upon request.

## Danfoss Power Solutions

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