

## FD83 Series

### Full Flow Dual Interlock

Thermal Management Application



Danfoss Hansen's FD83 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.

#### 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 Connected				Min. Burst Pressure Connected				Rated Flow	Fluid Loss	CV Value					
	Socket/Female Half		Socket/Female Half		Socket/Female Half		Socket/Female Half									
(in)	(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	30
2 <b>New!</b>	10	150	10	150	10	150	20	300	20	300	20	300	800	211	12	127

Note: Not for use with dangerous gazes classified in Group 1

# FD83 Series

## Full Flow Dual Interlock

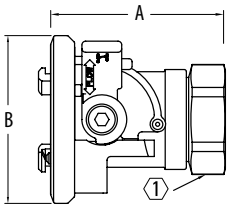


Figure 1

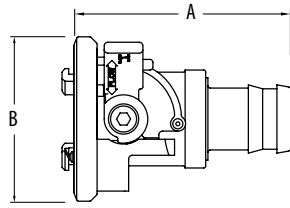


Figure 2

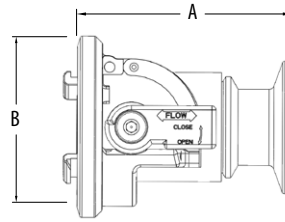


Figure 3

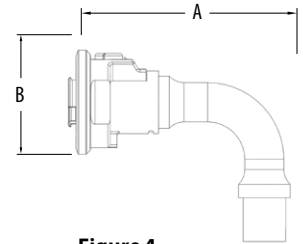


Figure 4

### Dimensions

Part Number	Body Size	Port Size	Thread	Type	Fig.	Dimensions		Hex	①		
						A	B				
						(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.

### Applications & Markets

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

### Flow Data

