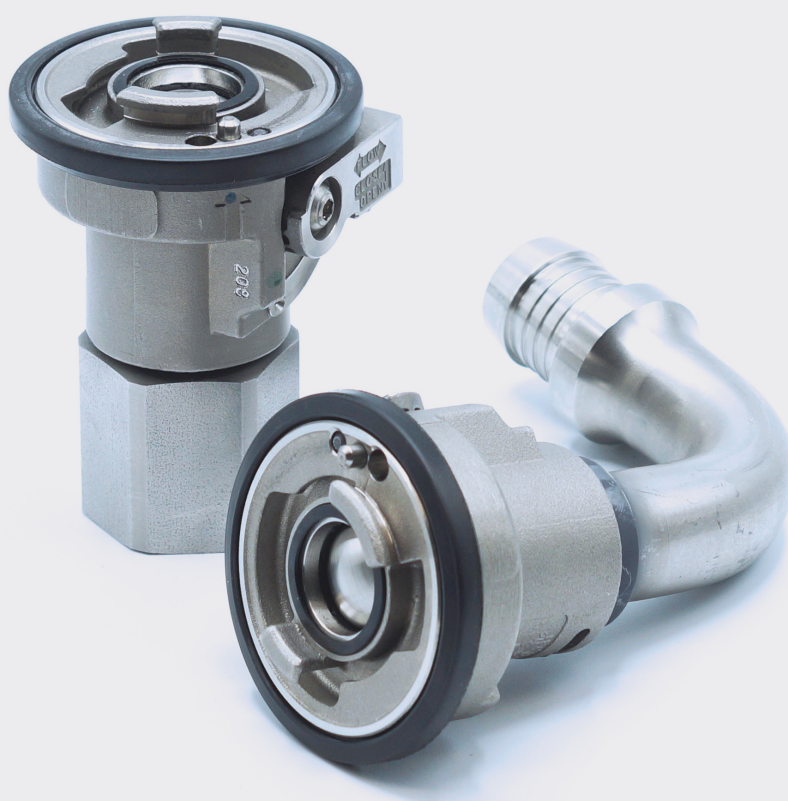




Fact sheet

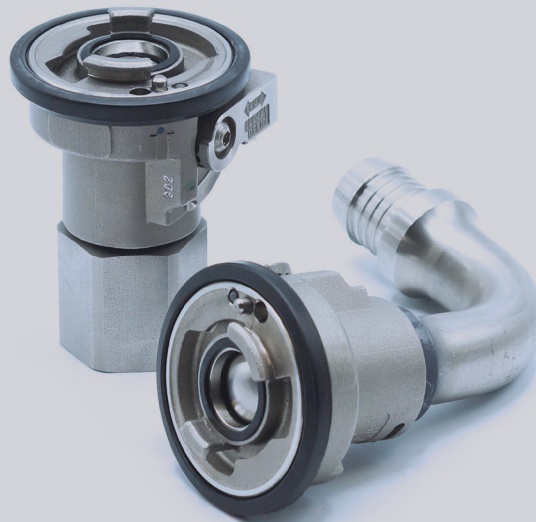


Danfoss Hansen® FD83 Series Coupling

Danfoss Hansen® FD83 Series Coupling

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.



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-P (Peroxide cured)
- Standard body material: 303 stainless steel
- Full flow coupling
- Identical coupling halves
- Maintenance and service friendly
- Passivated 303 stainless steel material provides broad fluid compatibility
- Wide range of terminal end options
- Temperature range: 4°C (39°F) to 60°C (140°F)
- All EPDM peroxide-cured seals and O-rings used in our products are certified in accordance with IEC 62368-1 G.15.2.3 under file MH67791, Volume 1.

Physical characteristics

Couplin Size	Max operating pressure						Min burst pressure						Rated Flow		Fluid Loss	Cv Value
	Connected		Disconnected Half				Connected		Disconnected Half							
(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	30
2	10	150	10	150	10	150	20	300	20	300	20	300	800	211	12	127

Applications & Markets

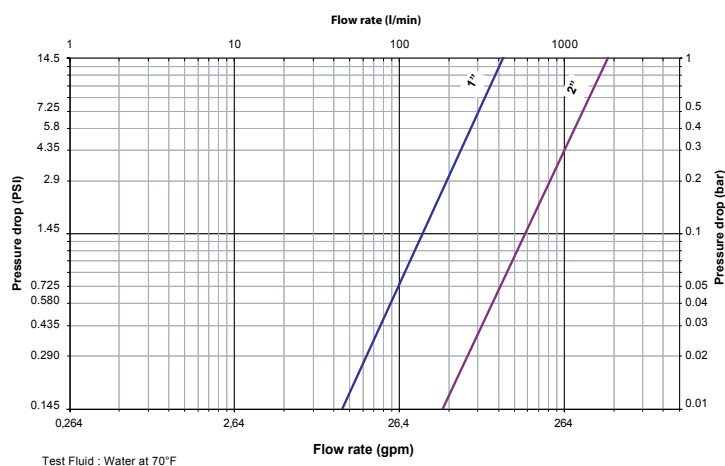
- Data Centers
- Thermal Management Systems
- Industrial Fluid Transfer
- Not intended for two-phase cooling

Seal Elastomer Data*

Seal Elastomer	Operation Temperature Range	
	C°	F°
EPDM-P (Peroxide Cured)	-40C° to 150C°	-40F° to 302F°

*For reference only, based on Danfoss recommended temperatures.
Contact Danfoss technical support for further information on fluid compatibility.

Flow Data



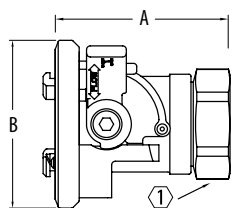


Figure 1

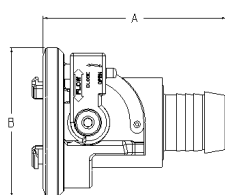


Figure 2

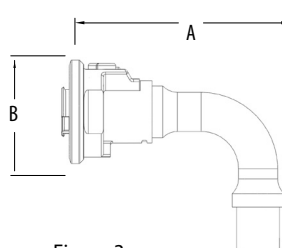


Figure 3

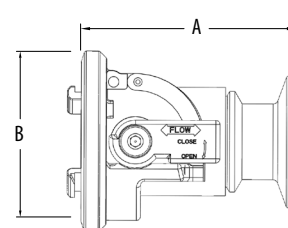


Figure 4

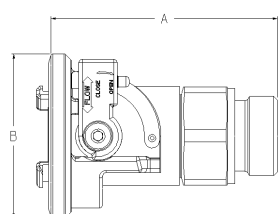


Figure 5

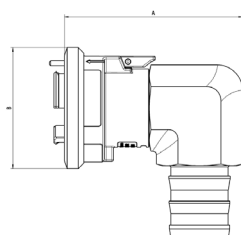


Figure 6

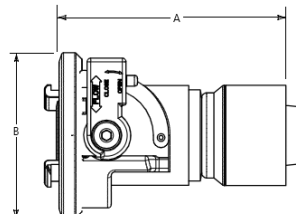


Figure 7

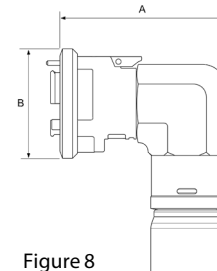


Figure 8

Dimensions

Part number	Order number	Body Size	Port Size	Thread	Type	Fig. n°	Dimensions					
							A		B		Hex	
							(mm)	(in)	(mm)	(in)	(mm)	(in)
FD83-2052-16-16	FD83-2052-16-16	1	1	1-11-½	Female NPTF	1	95.5	3.76	71.6	2.82	41	1.63
FD83-2052-12-16	FD83-2052-12-16	1	¾	¾-14	Female NPTF	1	70.1	2.76	71.6	2.82	41	1.63
FD83-2046-16-16	FD83-2046-16-16	1	1	NA	1" Hose Barb EHW194 hose	2	84.2	3.31	71.6	2.82	-	-
FD83-2092-16-16	FD83-2092-16-16	1	1	NA	1" Hose Barb 90° EHW194 hose	3	142.3	5.60	71.6	2.82	-	-
FD83-2096-16-16	FD83-2096-16-16	1	1	1 ½-12	Male ORB ISO 11926-3	5	95.5	3.76	71.6	2.82	41	1.63
FD83-2140-16-16	FD83-2140-16-16	1	1	G1-11	Male BSPP ISO 1179-2	5	95.5	3.76	71.6	2.82	41	1.63
FD83-2126-16-16	FD83-2126-16-16	1	1	G1-11	Female BSPP ISO 1179-1	1	84.3	3.32	71.6	2.82	41	1.63
FD83-2128-16-16	FD83-2128-16-16	1	1	NA	Sanitary Flange 1" ISO 2852	4	79.6	3.13	71.6	2.82	-	-
FD83-2168-16-16	11367128	1	1	N/A	1" 1G Crimp 90°	8	102.8	4.05	71.6	2.82	-	-
FD83-2170-16-16	11367142	1	1	N/A	1" 1G Crimp	7	106.1	4.2	71.6	2.82	-	-
FD83-2126-32-32	FD83-2126-32-32	2	2	G2-11	Female BSPP ISO 1179-1	1	112.0	4.43	105.3	4.15	70	2.76
FD83-2046-32-32	11349026	2	2	NA	2" Hose barb EHW194 hose	2	156.8	6.17	105.3	4.15	-	-
FD83-2046-24-32	11349477	2	1 ½	NA	1 1/2" Hose Barb EHW194 hose	2	149.8	5.90	105.3	4.15	-	-
FD83-2046-20-32	11349492	2	1 ¼	NA	1 1/4" Hose Barb EHW194 hose	2	141.6	5.57	105.3	4.15	-	-
FD83-2128-32-32	FD83-2128-32-32	2	2	NA	Sanitary Flange 2" ISO 2852	4	102.4	4.03	105.3	4.15	-	-
FD83-2052-32-32	FD83-2052-32-32	2	2	2-11-½	Female NPT	1	112.6	4.43	105.3	4.15	70	2.76
FD83-2092-32-32	11358296	2	2	NA	2" Hose barb 90° EHW194 Hose	6	155.2	6.11	105.3	4.15	-	-
FD83-2175-32-32	11369532	2	2	G2-11	Male BSPP ISO 1179-3	5	134.3	5.29	105.3	4.15	75	2.95
FD83-2170-32-32	11367130	2	2	N/A	2" 1G Crimp	7	148.3	5.84	105.3	4.15	-	-
FD83-2168-32-32	11367129	2	2	N/A	2" 1G Crimp 90°	8	153.2	6.03	105.3	4.15	-	-

Other end connections available upon request.



Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity or any other technical data in product manuals, catalogues descriptions, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative, and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogues, brochures, videos and other material. Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to form, fit or function of the product. All trademarks in this material are property of Danfoss A/S or Danfoss group companies. Danfoss and the Danfoss logo are trademarks of Danfoss A/S. All rights reserved.



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