

Danfoss Hansen®

Flat Face Quick Disconnect Couplings

Exceptional **working pressure**.
High-level flow rate.

Exceeds ISO 16028 standards:

- 60% higher working pressures up to 400 bar
- Up to 74% higher flow rates, reducing energy loss.
- Allows for an increase in design versatility, one series can be used in a variety of different applications



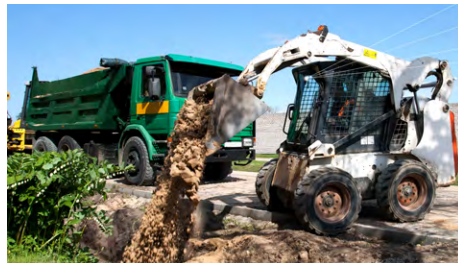
Markets/Applications

- Hydraulic and fluid transfer
- Construction equipment
- Agricultural equipment
- Utility vehicles
- On-Highway vehicles
- Stationary in-plant hydraulics



Sells Against

- Faster FFH Series
- Stucchi A Premier Series
- Parker FEM Series
- Dixon HT Series
- Hombury HQ Series
- Foster FF Plus Series



Features

- **Lowest pressure drop** reduces energy consumption of overall hydraulic circuit
- **Exceptional corrosion resistance** of up to **1000 hours** due to an eco-friendly and nickel-free coating
- Can connect under (residual) pressure up to **5,076 psi with CUP** plug option

Order Fulfillment

- Standard Flat Face configurations and dust caps stocked in Van Wert and Cleveland distribution centers

Physical Characteristics

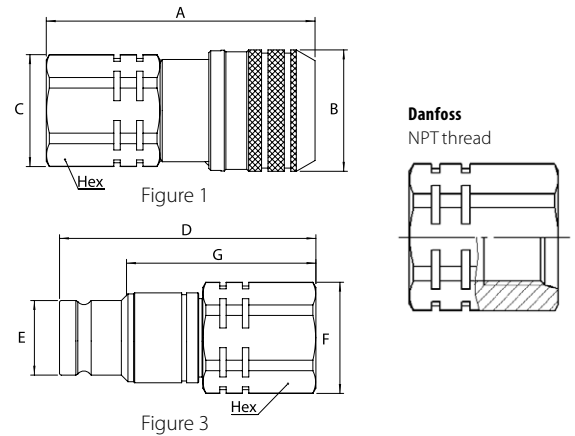
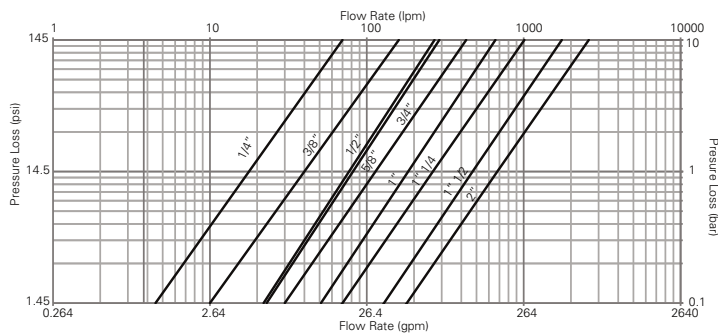
ISO Size*	Coupling Size	Maximum Operating Pressure						Minimum Burst Pressure						Rated Flow**		Fluid Loss	Air Inclusion	Force to Connect	
		Connected***		Plug/ Male Half		Socket/ Female Half		Connected		Plug/ Male Half		Socket/ Female Half							
(mm)	(in)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)	ml-cc.	ml-cc.	N	Lbs
6.3	¼	400	5,800	400	5,800	400	5,800	1,400	20,300	1,400	20,300	1,400	20,300	18	4.8	0.004	0.007	80	18.0
10.0	⅝	400	5,800	400	5,800	400	5,800	1,400	20,300	1,400	20,300	1,400	20,300	40	10.6	0.006	0.010	140	31.5
12.5	½	400	5,800	400	5,800	400	5,800	1,400	20,300	1,400	20,300	1,400	20,300	77	20.3	0.012	0.013	195	43.8
16.0	⅞	400	5,800	400	5,800	400	5,800	1,400	20,300	1,400	20,300	1,400	20,300	82	21.7	0.016	0.030	205	46.1
19.0	¾	400	5,800	400	5,800	400	5,800	1,300	18,850	1,300	18,850	1,400	20,300	114	30.1	0.034	0.015	215	48.3
25.0	1	400	5,800	400	5,800	400	5,800	1,260	18,270	1,260	18,270	1,260	18,270	184	48.6	0.032	0.033	260	58.5
-	1¼	300	4,350	300	4,350	300	4,350	900	13,050	900	13,050	900	13,050	260	68.7	0.170	0.053	200	45.0
-	1½	300	4,350	300	4,350	270	3,915	900	13,050	900	13,050	810	11,745	450	118.9	0.265	0.445	385	86.6
-	2"	300	4,350	300	4,350	225	3,260	900	13,050	900	13,050	675	9,790	700	184.9	0.390	0.260	375	84.3

* The ISO size corresponds to the internal diameter of the hose or the external diameter of the rigid tube (as defined in ISO 4397 Standard)

** Indicated values refer to a 1 bar/14.5 psi pressure drop

*** 400 bar for static, steady or non-pulsed applications, 350 bar for ISO pressure rating for dynamic applications with moderate hydraulic shock

Flow Data



Dimensions (Socket/Female)

Part Number	Body Size	ISO Size	Nominal Flow Diameter	Thread size	Fig.	Dimensions				Weight	
NBR+AU	(in)	mm	mm	NPT		A (in)	B (in)	C (in)	Hex (in)	lbs	grams
6FFS25	1/4"	6.3	6	1/4 18f	1	2.13	1.06	0.94	0.87	-	-
10FFS37	3/8"	10	8.6	3/8 18f	1	2.67	1.26	1.16	1.06	-	-
10FFS50	3/8"	10	8.6	1/2 14f	1	2.79	1.26	1.16	1.06	-	-
12FFS50	1/2"	12.5	11	1/2 14f	1	3.27	1.50	1.56	1.42	-	-
12FFS75	1/2"	12.5	11	3/4 14f	1	3.39	1.50	1.56	1.42	-	-
16FFS50	5/8"	16	13	1/2 14f	1	3.27	1.66	1.56	1.42	-	-
16FFS75	5/8"	16	13	3/4 14f	1	3.39	1.66	1.56	1.42	-	-
19FFS100	3/4"	19	15	1 11,5f	1	3.80	1.82	1.81	1.65	-	-
19FFS75	3/4"	19	15	3/4 14f	1	3.80	1.82	1.81	1.65	-	-
25FFS100	1"	25	18	1 11,5f	1	4.07	2.17	2.36	2.17	-	-
25FFS125	1"	25	18	1 1/4 11,5f	1	4.07	2.17	2.36	2.17	-	-
32FFS125	1 1/4"	-	22.1	1 1/4 11,5	1	4.93	2.55	2.36	2.17	4.22	1915
40FFS150	1 1/2"	-	30.1	1 1/2 11,5	1	5.01	3.13	2.76	2.56	6.16	2796
50FFS200	2"	-	39.2	2 11,5	1	6.17	3.84	3.46	3.15	10.87	4931

Dimensions (Plugs/Male)

Part Number	Body Size	ISO Size	Nominal Flow Diameter	Thread size	Fig.	Dimensions				Weight	
NBR+AU	(in)	mm	mm	NPT		D (in)	E (in)	F (in)	G (in)	lbs	grams
6FFP25	1/4"	6.3	6	1/4 18f	3	2.01	0.64	0.94	1.58	-	-
10FFP37	3/8"	10	8.6	3/8 18f	3	2.56	0.78	1.16	1.96	-	-
10FFP50	3/8"	10	8.6	1/2 14f	3	2.68	0.78	1.16	2.08	-	-
12FFP50	1/2"	12.5	11	1/2 14f	3	2.71	0.96	1.56	2.05	-	-
12FFP75	1/2"	12.5	11	3/4 14f	3	2.83	0.96	1.56	2.16	-	-
16FFP50	5/8"	16	13	1/2 14f	3	2.71	1.06	1.56	2.05	-	-
16FFP75	5/8"	16	13	3/4 14f	3	2.83	1.06	1.56	2.16	-	-
19FFP100	3/4"	19	15	1 11,5f	3	3.69	1.18	1.81	2.84	-	-
19FFP75	3/4"	19	15	3/4 14f	3	3.69	1.18	1.81	2.84	-	-
25FFP100	1"	25	18	1 11,5f	3	4.12	1.42	2.36	3.22	-	-
25FFP125	1"	25	18	1 1/4 11,5f	3	4.12	1.42	2.36	3.22	-	-
32FFP125	1 1/4"	-	22.1	1 1/4 11,5	3	4.15	1.73	2.36	3.24	2.63	1193
40FFP150	1 1/2"	-	30.1	1 1/2 11,5	3	4.13	2.24	2.61	3.01	3.15	1430
50FFP200	2"	-	39.2	2 11,5	3	5.31	2.87	3.29	3.80	6.01	2725

Danfoss Power Solutions

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