

FF Series (Steel)

ISO 16028 Interchange

Fluid transfer & Hydraulic application



Product Features

- Meets or exceeds the ISO 16028 standard
- Push-to-connect
- Standard sleeve lock prevents accidental disconnection
- Color identification rings available to help prevent crossing of lines

Danfoss' FF Series flat face is specifically designed for those applications where quick and easy connections and no-spill performance are essential. The FF Series is ideal for use when global interchangeability with other manufacturers is important and is available in sizes from 1/4" through 2" to best meet your specific size requirements.

- Standard Material: High-resistant carbon steel with Dura-Kote plating, a whole new level of corrosion resistance with minimum 720 hours RR protection
- Dura-Kote plating:
 - Nickel-free
 - Solvent-free
 - Meets Global RoHS, ELV and REACH requirements
- Standard Seal Material: NBR+AU
- Available seal options: NBR+AU, FKM, EPDM, HNBR (upon request)

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	⅜	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	⅝	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		
-	1 ¼	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		
-	1 ½	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)

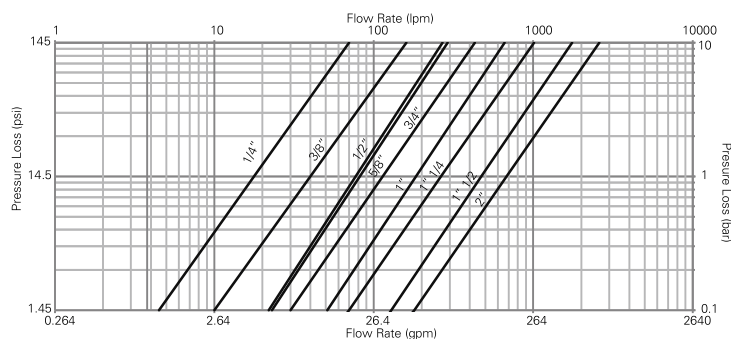
** Indicated values refer to a 1 bar/14.5 psi pressure drop

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

Applications & Markets

- Hydraulic and Fluid Transfer
- Construction Equipment
- Agricultural Equipment
- Utility Vehicles
- On-Highway Vehicles
- Stationary In-plant Hydraulics and Fluid Transfer
- Interchangeable with HTMA couplings in the 3/8" size

Flow Data



European Pressure Equipment Directive

All couplings are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive PED 2014/68/EU. Couplings with nominal diameters greater than 25 mm should not be used to convey gases in Group 1 (hazardous).

Seal Elastomer Data*

Seal Elastomer	P/N Code	ISO Size (6FF, 10FF, 12FF, 16FF, 19FF and 25FF) Maximum Operation Temperature Range	Non-ISO Size (32FF, 50FF and 50FF) Maximum Operation Temperature Range
NBR (Nitrile) + AU (Polyurethane)		-25°C +100°C/-13°F +212°F	-20°C +100°C/-4°F +212°F
FKM	-143	-20°C +200°C/-4°F +392°F	-15°C +180°C/+5°F +356°F
EPDM (Ethylene-Propylene)	-192	-40°C +150°C/-40°F +302°F	on request
HNBR	-507	-32°C +150°C/-25°F +302°F	on request
Kalrez® 6375	-242	-20°C +275°C/-4°F +527°F	on request
Generic FFKM (Perfluorocarbon)	-503	-15°C +275°C/+5°F +527°F	on request

* For reference only, based on Danfoss recommended temperatures.

Contact Danfoss technical support for further information on fluid compatibility

Maximum Operating Pressure

Coupling Size (in)	Nominal Flow Diameter	Non hazardous liquids Group 2				Non hazardous gases Group 2				Hazardous liquids Group 1			
		Plug & Connected		Socket		Plug & Connected		Socket		Plug & Connected		Socket	
		bar	(psi)	bar	(psi)	bar	(psi)	bar	(psi)	bar	(psi)	bar	(psi)
1 1/2	30.1	300	4350	270	3915	300	4350	270	3915	66	955	66	955
2	39.2	300	4350	225	3260	25	360	25	360	50	725	50	725

* Nominal diameters over 25mm should not be used to convey gases in group 1 (PED 2014/68/EU)

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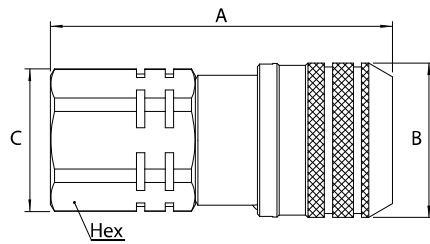
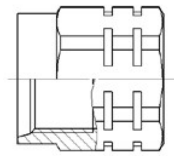


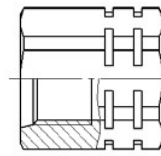
Figure 1

End-connection

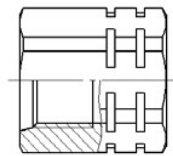
ISO 6149-1
15° + metric thread



SAE J1926-1
15° + UN/UNF thread



Danfoss S013A
15° + BSPP thread



Global region

Sockets (Female)

Part Number	Body Size	ISO Size	Nominal Flow Diameter	Thread Size* (Female)					Dimensions								Weight		
NBR+AU	(in)	(mm)	(mm)	NPT	BSPP	ISO 6149-1	SAE J 1926-1	Danfoss S013A	Fig.	A (in)	B (in)	C (in)	Hex (in)	A (mm)	B (mm)	C (mm)	Hex (mm)	lbs	grams
6FFS25	¼	6.3	6	¼ 18f	-	-	-	-	1	2.13	1.06	0.94	0.87	54	27	24	22	-	-
6FFS25BS	¼	6.3	6	-	¼-19	-	-	-	1	2.13	1.06	0.94	0.87	54	27	24	22	-	-
6FFS25FG	¼	6.3	6	-	-	-	-	G¼	1	2.13	1.06	0.94	0.87	54	27	24	22	0.32	143
6FFS6UN	¼	6.3	6	-	-	-	¾ 18UNF	-	1	2.17	1.06	0.94	0.87	55	27	24	22	-	-
10FFS16FMET	¾	10	8.6	-	-	M16x1.5	-	-	1	2.67	1.26	1.16	1.06	67.8	32	29.5	27	-	-
10FFS37	¾	10	8.6	¾ 18f	-	-	-	-	1	2.67	1.26	1.16	1.06	67.8	32	29.5	27	-	-
10FFS37BS	¾	10	8.6	-	¾-19	-	-	-	1	2.67	1.26	1.16	1.06	67.8	32	29.5	27	-	-
10FFS37FG	¾	10	8.6	-	-	-	-	G¾	1	2.67	1.26	1.16	1.06	67.8	32	29.5	27	0.56	255
10FFS50	¾	10	8.6	½ 14f	-	-	-	-	1	2.79	1.26	1.16	1.06	70.8	32	29.5	27	-	-
10FFS50BS	¾	10	8.6	-	½-14	-	-	-	1	2.79	1.26	1.16	1.06	70.8	32	29.5	27	-	-
10FFS50FG	¾	10	8.6	-	-	-	-	G½	1	2.79	1.26	1.16	1.06	70.8	32	29.5	27	0.55	251
10FFS6UN	¾	10	8.6	-	-	-	¾ 18UNF	-	1	2.79	1.26	1.16	1.06	70.8	32	29.5	27	-	-
10FFS75UN	¾	10	8.6	-	-	-	¾ 16UNF	-	1	2.79	1.26	1.16	1.06	70.8	32	29.5	27	-	-
10FFS87UN	¾	10	8.6	-	-	-	¾ 14UNF	-	1	2.91	1.26	1.30	1.18	73.8	32	33	30	-	-
12FFS106UN	½	12.5	11	-	-	-	1 ½ 12UN	-	1	3.26	1.50	1.56	1.42	83	38.2	39.5	36	-	-
12FFS50	½	12.5	11	½ 14f	-	-	-	-	1	3.03	1.50	1.56	1.42	77	38.2	39.5	36	-	-
12FFS50BS	½	12.5	11	-	½-14	-	-	-	1	3.03	1.50	1.56	1.42	77	38.2	39.5	36	-	-
12FFS50FG	½	12.5	11	-	-	-	-	G½	1	3.03	1.50	1.56	1.42	77	38.2	39.5	36	1.1	498
12FFS75	½	12.5	11	¾ 14f	-	-	-	-	1	3.14	1.50	1.56	1.42	80	38.2	39.5	36	-	-
12FFS75BS	½	12.5	11	-	¾-14	-	-	-	1	3.14	1.50	1.56	1.42	80	38.2	39.5	36	-	-
12FFS75FG	½	12.5	11	-	-	-	-	G¾	1	3.14	1.50	1.56	1.42	80	38.2	39.5	36	1.08	488
12FFS75UN	½	12.5	11	-	-	-	¾ 16UNF	-	1	3.03	1.50	1.56	1.42	77	38.2	39.5	36	-	-
12FFS87UN	½	12.5	11	-	-	-	¾ 14UNF	-	1	3.14	1.50	1.56	1.42	80	38.2	39.5	36	-	-
16FFS106UN	¾	16	13	-	-	-	1 ½ 12UN	-	1	3.50	1.66	1.56	1.42	89	42.2	39.5	36	-	-
16FFS50	¾	16	13	½ 14f	-	-	-	-	1	3.27	1.66	1.56	1.42	83	42.2	39.5	36	-	-
16FFS50BS	¾	16	13	-	½-14	-	-	-	1	3.27	1.66	1.56	1.42	83	42.2	39.5	36	-	-
16FFS75	¾	16	13	¾ 14f	-	-	-	-	1	3.39	1.66	1.56	1.42	86	42.2	39.5	36	-	-
16FFS75BS	¾	16	13	-	¾-14	-	-	-	1	3.39	1.66	1.56	1.42	86	42.2	39.5	36	-	-
16FFS75FG	¾	16	13	-	-	-	-	G¾	1	3.39	1.66	1.56	1.42	86	42.2	39.5	36	1.20	548
16FFS75UN	¾	16	13	-	-	-	¾ 16UNF	-	1	3.27	1.66	1.56	1.42	83	42.2	39.5	36	-	-
16FFS87UN	¾	16	13	-	-	-	¾ 14UNF	-	1	3.39	1.66	1.56	1.42	86	42.2	39.5	36	-	-
19FFS100	¾	19	15	1 11.5f	-	-	-	-	1	3.80	1.82	1.81	1.65	96.6	46.2	46	42	-	-
19FFS100BS	¾	19	15	-	1-11	-	-	-	1	3.80	1.82	1.81	1.65	96.6	46.2	46	42	-	-
19FFS100FG	¾	19	15	-	-	-	-	G1	1	3.80	1.82	1.81	1.65	96.6	46.2	46	42	1.62	737
19FFS106UN	¾	19	15	-	-	-	1 ½ 12UN	-	1	3.80	1.82	1.81	1.65	96.6	46.2	46	42	-	-
19FFS131UN	¾	19	15	-	-	-	1 ½ 12UN	-	1	3.80	1.82	1.81	1.65	96.6	46.2	46	42	-	-
19FFS75	¾	19	15	¾ 14f	-	-	-	-	1	3.80	1.82	1.81	1.65	96.6	46.2	46	42	-	-
19FFS75BS	¾	19	15	-	¾-14	-	-	-	1	3.80	1.82	1.81	1.65	96.6	46.2	46	42	-	-
25FFS100	1	25	18	1 11.5f	-	-	-	-	1	4.07	2.17	2.36	2.17	103.5	55.2	60	55	-	-
25FFS100BS	1	25	18	-	1-11	-	-	-	1	4.07	2.17	2.36	2.17	103.5	55.2	60	55	-	-
25FFS125	1	25	18	1 ¼ 11.5f	-	-	-	-	1	4.07	2.17	2.36	2.17	103.5	55.2	60	55	-	-
25FFS125BS	1	25	18	-	1 ¼-11	-	-	-	1	4.07	2.17	2.36	2.17	103.5	55.2	60	55	-	-
25FFS125FG	1	25	18	-	-	-	-	G1¼	1	4.07	2.17	2.36	2.17	103.5	55.2	60	55	2.74	1246
25FFS131UN	1	25	18	-	-	-	1 ½ 12UN	-	1	4.07	2.17	2.36	2.17	103.5	55.2	60	55	2.77	126
25FFS162UN	1	25	18	-	-	-	1 ½ 12UN	-	1	4.07	2.17	2.36	2.17	103.5	55.2	60	55	-	-
32FFS125	1 ¼	-	22.1	1 ¼ 11.5	-	-	-	-	1	4.93	2.55	2.36	2.17	125.2	64.8	60	55	4.22	1915
32FFS125BS	1 ¼	-	22.1	-	1 ¼-11	-	-	-	1	4.93	2.55	2.36	2.17	125.2	64.8	60	55	4.18	1897
32FFS162UN	1 ¼	-	22.1	-	-	-	1 ½ 12UN	-	1	4.93	2.55	2.36	2.17	125.2	64.8	60	55	4.16	1894
40FFS150	1 ½	-	30.1	1 ½ 11.5	-	-	-	-	1	5.01	3.13	2.76	2.56	127.4	79.5	70	65	6.16	2796
40FFS150BS	1 ½	-	30.1	-	1 ½-11	-	-	-	1	5.01	3.13	2.76	2.56	127.4	79.5	70	65	6.13	2781
40FFS150FG	1 ½	-	30.1	-	-	-	-	1 ½	1	5.01	3.13	2.76	2.56	127.4	79.5	70	65	6.12	2775
40FFS187UN	1 ½	-	30.1	-	-	-	1 ½ 12UN	-	1	5.01	3.13	2.76	2.56	127.4	79.5	70	65	6.10	2767
50FFS200	2	-	39.2	2-11.5	-	-	-	-	1	6.17	3.84	3.46	3.15	156.8	97.5	87.8	80	10.87	4931
50FFS200BS	2	-	39.2	-	2-11	-	-	-	1	6.17	3.84	3.46	3.15	156.8	97.5	87.8	80	10.82	4908
50FFS250UN	2	-	39.2	-	-	-	2 ½ 12UN	-	1	6.17	3.84	3.46	3.15	156.8	97.5	87.8	80	10.64	4825

*Alternative end connections available upon request.

To obtain connected length of coupling, add dimensions A (Fig. 1 or Fig. 2) and G (Fig. 3 or 4) together.

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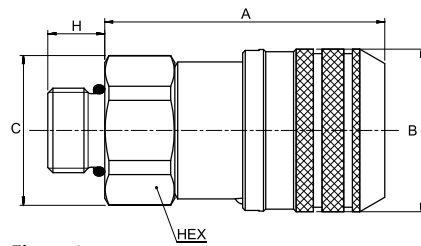
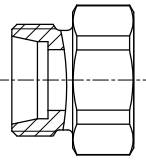


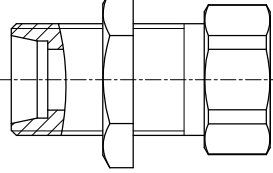
Figure 2

End-connection

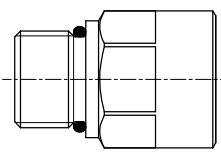
ISO 8434-1
Metric thread



ISO 8434-1 + Bulkhead
Metric thread



SAE J 1926-2
UN/UNF thread



Global region

Sockets (Female)

Part Number	Body Size (in)	ISO Size (mm)	Nominal Flow Diameter (mm)	Thread Size*(Male)			Dimensions										Weight	
				ISO 8434-1	SAE J 1926-2	Fig.	A (in)	B (in)	C (in)	H (in.)	Hex (in)	A (mm)	B (mm)	C (mm)	H (mm)	Hex (mm)	lbs	grams
6FFS10LBH	¼	6.3	6	10L - M16x1,5 + bulkhead	–	2	1.65	1.06	0.94	1.38	0.87	42	27	24	35	22	–	–
6FFS8L	1/4	6.3	6	8L - M14x1,5	–	2	1.65	1.06	0.94	0.39	0.87	42	27	24	10	22	–	–
10FFS8L	¾	10	6	8L - M14x1,5	–	2	2.33	1.26	1.16	0.39	1.06	59.3	32	29.5	10	27	0.52	236
10FFS10L	¾	10	8	10L - M16x1,5	–	2	2.33	1.26	1.16	0.43	1.06	59.3	32	29.5	11	27	0.52	234
10FFS10LBH	3/8	10	8	10L - M16x1,5	–	2	2.16	1.26	1.16	0.43	1.06	54.8	32	29.5	11	27	0.55	255
10FFS12L	¾	10	10	12L - M18x1,5	–	2	2.28	1.26	1.16	0.43	1.06	57.8	32	29.5	11	27	0.52	235
10FFS12LBH	3/8	10	10	12L - M18x1,5	–	2	2.12	1.26	1.16	1.42	1.06	53.8	32	29.5	36	27	0.55	250
10FFS15L	¾	10	8,6	15L - M22x1,5	–	2	2.24	1.26	1.16	0.47	1.06	56.8	32	29.5	12	27	0.52	238
10FFS15LBH	¾	10	8,6	15L - M22x1,5	–	2	3.24	1.26	1.16	1.50	1.06	82.3	32	29.5	38	27	0.62	282
10FFS16S	¾	10	8,6	16S - M24x1,5 + bulkhead	–	2	2.26	1.26	1.16	0.55	1.06	57.3	32	29.5	14	27	0.46	211
10FFS56ORM	¾	10	8,6	–	¾18F UNF	2	2.61	1.26	1.06	0.47	0.94	66.4	32	27	12	23.8	–	–
10FFS75ORM	¾	10	8,6	–	¾16F UNF	2	2.61	1.26	1.06	0.55	0.94	66.4	32	27	14	23.8	–	–
12FFS15LBH	½	12	11	15L - M22x1,5 + bulkhead	–	2	3.42	1.50	1.56	1.50	1.42	87	38.2	39.5	38	36	1.05	478
12FFS16S	½	12	11	16S - M24x1,5	–	2	2.51	1.50	1.56	0.55	1.42	64	38.2	39.5	14	36	1.01	460
12FFS12L	½	12	11	12L - M18x1,5	–	2	2.59	1.50	1.56	0.43	1.42	66	38.2	39.5	11	36	0.92	420
12FFS15L	1/2	12	11	15L - M22x1,5	–	2	2.51	1.50	1.56	0.47	1.42	64	38.2	39.5	12	36	0.92	420
12FFS18LBH	½	12	11	18L - M26x1,5 + bulkhead	–	2	3.50	1.50	1.56	1.57	1.42	89	38.2	39.5	40	36	1.17	534
16FFS15LBH	¾	16	12	15L - M22x1,5 + bulkhead	–	2	2.68	1.66	1.56	1.50	1.42	68	42.2	39.5	38	36	–	–
16FFS16S	¾	16	12	16S - M24x1,5	–	2	2.75	1.66	1.56	0.55	1.42	70	42.2	39.5	14	36	1.11	505
16FFS18LBH	¾	16	13	18L - M26x1,5 + bulkhead	–	2	2.68	1.66	1.56	1.57	1.42	68	42.2	39.5	40	36	–	–

* Alternative end connections available upon request.

To obtain connected length of coupling, add dimensions A (Fig. 1 or Fig. 2) and G (Fig. 3 or 4) together.

Note that ISO 8434-1 will restrict usage of coupling to 250 bar for end connection 8L, 10L, 12L and 15L, and to 160 bar for end connection 18L.

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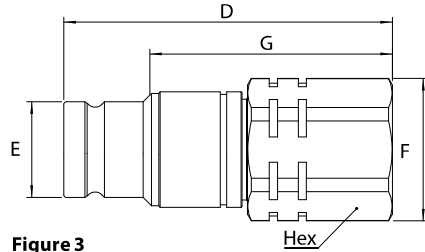
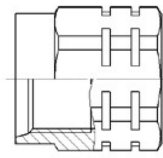


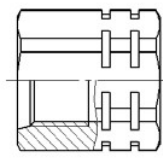
Figure 3

End-connection

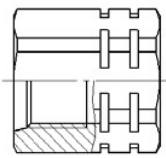
ISO 6149-1
15° + Metric thread



SAE J 1926-1
15° + UN/UNF thread



Danfoss S013A
15° + BSPP Thread



Global region

Plugs (Male)

Part Number	Body Size	ISO Size	Nominal Flow Diameter	Thread Size*(Female)				Dimensions												Weight	
				NPT	BSPP	ISO 6149-1	SAE J 1926-1	Danfoss S013A	Fig.	D (in)	E (in)	F (in)	G (in)	Hex (in)	D (mm)	E (mm)	F (mm)	G (mm)	Hex (mm)	lbs	grams
6FFP25	¼	6.3	6	¼ 18f	—	—	—	—	3	2.01	0.64	0.94	1.58	0.87	51	16.2	24	40.1	22	—	—
6FFP25BS	¼	6.3	6	—	¼-19	—	—	—	3	2.01	0.64	0.94	1.58	0.87	51	16.2	24	40.1	22	—	—
6FFP25FG	¼	6.3	6	—	—	—	—	G ¼	3	2.01	0.64	0.94	1.58	0.87	51	16.2	24	40.1	22	0.20	90
6FFP56UN	¼	6.3	6	—	—	—	¾ 18 UNF	—	3	2.05	0.64	0.94	1.62	0.87	52	16.2	24	41.1	22	—	—
10FFP16FMET	¾	10	8.6	—	—	M16x1.5	—	—	3	2.56	0.78	1.16	1.96	1.06	65	19.7	29.5	49.7	27	—	—
10FFP37	¾	10	8.6	¾ 18f	—	—	—	—	3	2.56	0.78	1.16	1.96	1.06	65	19.7	29.5	49.7	27	—	—
10FFP37BS	¾	10	8.6	—	¾-19	—	—	—	3	2.56	0.78	1.16	1.96	1.06	65	19.7	29.5	49.7	27	—	—
10FFP37FG	¾	10	8.6	—	—	—	—	G ¾	3	2.56	0.78	1.16	1.96	1.06	65	19.7	29.5	49.7	27	0.35	157
10FFP50	¾	10	8.6	½ 14f	—	—	—	—	3	2.68	0.78	1.16	2.08	1.06	68	19.7	29.5	52.7	27	—	—
10FFP50BS	¾	10	8.6	—	½-14	—	—	—	3	2.68	0.78	1.16	2.08	1.06	68	19.7	29.5	52.7	27	—	—
10FFP50FG	¾	10	8.6	—	—	—	—	G ½	3	2.68	0.78	1.16	2.08	1.06	68	19.7	29.5	52.7	27	0.33	150
10FFP56UN	¾	10	8.6	—	—	—	¾ 18 UNF	—	3	2.68	0.78	1.16	2.08	1.06	68	19.7	29.5	52.7	27	—	—
10FFP75UN	¾	10	8.6	—	—	—	¾ 16 UNF	—	3	2.68	0.78	1.16	2.08	1.06	68	19.7	29.5	52.7	27	—	—
10FFP87UN	¾	10	8.6	—	—	—	¾ 14 UNF	—	3	2.80	0.78	1.30	2.19	1.18	71	19.7	33	55.7	30	—	—
12FFP106UN	½	12.5	11	—	—	—	1 ½ 12 UN	—	3	2.95	0.96	1.56	2.28	1.42	75	24.5	39.5	58	36	—	—
12FFP50	½	12.5	11	½ 14f	—	—	—	—	3	2.71	0.96	1.56	2.05	1.42	69	24.5	39.5	52	36	—	—
12FFP50BS	½	12.5	11	—	½-14	—	—	—	3	2.71	0.96	1.56	2.05	1.42	69	24.5	39.5	52	36	—	—
12FFP50FG	½	12.5	11	—	—	—	—	G ½	3	2.71	0.96	1.56	2.05	1.42	69	24.5	39.5	52	36	0.67	305
12FFP75	½	12.5	11	¾ 14f	—	—	—	—	3	2.83	0.96	1.56	2.16	1.42	72	24.5	39.5	55	36	—	—
12FFP75BS	½	12.5	11	—	¾-14	—	—	—	3	2.83	0.96	1.56	2.16	1.42	72	24.5	39.5	55	36	—	—
12FFP75FG	½	12.5	11	—	—	—	—	G ¾	3	2.83	0.96	1.56	2.16	1.42	72	24.5	39.5	55	36	0.65	295
12FFP75UN	½	12.5	11	—	—	—	¾ 16 UNF	—	3	2.71	0.96	1.56	2.05	1.42	69	24.5	39.5	52	36	—	—
12FFP87UN	½	12.5	11	—	—	—	¾ 14 UNF	—	3	2.83	0.96	1.56	2.16	1.42	72	24.5	39.5	55	36	—	—
16FFP106UN	¾	16	13	—	—	—	1 ½ 12 UN	—	3	2.95	1.06	1.56	2.28	1.42	75	27	39.5	58	36	—	—
16FFP50	¾	16	13	½ 14f	—	—	—	—	3	2.71	1.06	1.56	2.05	1.42	69	27	39.5	52	36	—	—
16FFP50BS	¾	16	13	—	½-14	—	—	—	3	2.71	1.06	1.56	2.05	1.42	69	27	39.5	52	36	—	—
16FFP75	¾	16	13	¾ 14f	—	—	—	—	3	2.83	1.06	1.56	2.16	1.42	72	27	39.5	55	36	—	—
16FFP75BS	¾	16	13	—	¾-14	—	—	—	3	2.83	1.06	1.56	2.16	1.42	72	27	39.5	55	36	—	—
16FFP75FG	¾	16	13	—	—	—	—	G ¾	3	2.83	1.06	1.56	2.16	1.42	72	27	39.5	55	36	0.7	317
16FFP75UN	¾	16	13	—	—	—	¾ 16 UNF	—	3	2.71	1.06	1.56	2.05	1.42	69	27	39.5	52	36	—	—
16FFP87UN	¾	16	13	—	—	—	¾ 14 UNF	—	3	2.83	1.06	1.56	2.16	1.42	72	27	39.5	55	36	—	—
19FFP100	¾	19	15	1 11,5f	—	—	—	—	3	3.69	1.18	1.81	2.84	1.65	93.8	29.9	46	72	42	—	—
19FFP100BS	¾	19	15	—	1-11	—	—	—	3	3.69	1.18	1.81	2.84	1.65	93.8	29.9	46	72	42	—	—
19FFP100FG	¾	19	15	—	—	—	—	G 1	3	3.69	1.18	1.81	2.84	1.65	93.8	29.9	46	72	42	1.14	518
19FFP106UN	¾	19	15	—	—	—	1 ½ 12 UN	—	3	3.69	1.18	1.81	2.84	1.65	93.8	29.9	46	72	42	—	—
19FFP131UN	¾	19	15	—	—	—	1 ½ 12 UN	—	3	3.69	1.18	1.81	2.84	1.65	93.8	29.9	46	72	42	—	—
19FFP75	¾	19	15	¾ 14f	—	—	—	—	3	3.69	1.18	1.81	2.84	1.65	93.8	29.9	46	72	42	—	—
19FFP75BS	¾	19	15	—	¾-14	—	—	—	3	3.69	1.18	1.81	2.84	1.65	93.8	29.9	46	72	42	—	—
25FFP100	1	25	18	1 11,5f	—	—	—	—	3	4.12	1.42	2.36	3.22	2.17	104.6	36	60	81.7	55	—	—
25FFP100BS	1	25	18	—	1-11	—	—	—	3	4.12	1.42	2.36	3.22	2.17	104.6	36	60	81.7	55	—	—
25FFP125	1	25	18	1 ¾ 11,5f	—	—	—	—	3	4.12	1.42	2.36	3.22	2.17	104.6	36	60	81.7	55	—	—
25FFP125BS	1	25	18	—	1¼-11	—	—	—	3	4.12	1.42	2.36	3.22	2.17	104.6	36	60	81.7	55	—	—
25FFP125FG	1	25	18	—	—	—	—	G 1¼	3	4.12	1.42	2.36	3.22	2.17	104.6	36	60	81.7	55	2.08	948
25FFP131UN	1	25	18	—	—	—	1 ½ 12 UN	—	3	4.12	1.42	2.36	3.22	2.17	104.6	36	60	81.7	55	2.09	952
25FFP162UN	1	25	18	—	—	—	1 ½ 12 UN	—	3	4.12	1.42	2.36	3.22	2.17	104.6	36	60	81.7	55	—	—
32FFP125	1 ¼	—	22.1	1 ¾ 11.5	—	—	—	—	3	4.15	1.73	2.36	3.24	2.17	105.5	44	60	82.3	55	2.63	1193
32FFP125BS	1 ¼	—	22.1	—	1 ¾-11	—	—	—	3	4.15	1.73	2.36	3.24	2.17	105.5	44	60	82.3	55	2.60	1177
32FFP162UN	1 ¼	—	22.1	—	—	—	1 5/8 12 UN	—	3	4.15	1.73	2.36	3.24	2.17	105.5	44	60	82.3	55	2.59	1174
40FFP150	1 ½	—	30.1	1 ½ 11.5	—	—	—	—	3	4.13	2.24	2.61	3.01	2.36	105	57	66.3	76.5	60	3.15	1430
40FFP150BS	1 ½	—	30.1	—	1 ½-11	—	—	—	3	4.13	2.24	2.61	3.01	2.36	105	57	66.3	76.5	60	3.12	1417
40FFP150FG	1 ½	—	30.1	—	—	—	—	1 ½	3	4.13	2.24	2.61	3.01	2.36	105	57	66.3	76.5	60	3.11	1412
40FFP187UN	1 ½	—	30.1	—	—	—	1 ½ 12 UN	—	3	4.13	2.24	2.61	3.01	2.36	105	57	66.3	76.5	60	3.10	1406
50FFP200	2	—	39.2	2 11,5	—	—	—	—	3	5.31	2.87	3.29	3.80	2.95	135	73	83.5	96.6	75	6.01	2725
50FFP200BS	2	—	39.2	—	2-11	—	—	—	3	5.31	2.87	3.29	3.80	2.95	135	73	83.5	96.6	75	5.97	2706
50FFP250UN	2	—	39.2	—	—	—	2 ½ 12 UN	—	3	5.31	2.87	3.29	3.80	2.95	135	73	83.5	96.6	75	5.78	2623

*Alternative end connections available upon request.

To obtain connected length of coupling, add dimensions A (Fig. 1 or Fig. 2) and G (Fig. 3 or 4) together.

FF Series (Steel)

ISO 16028 Interchange

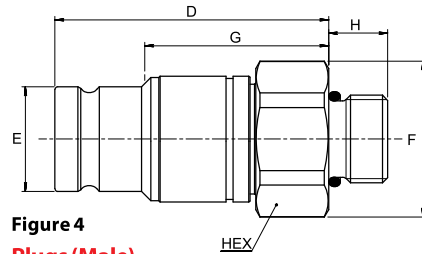
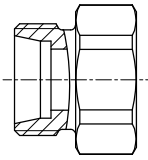


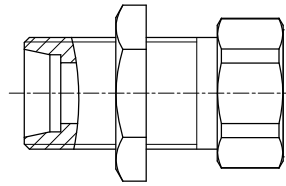
Figure 4
Plugs (Male)

End-connection

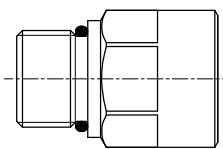
ISO 8434-1
Metric thread



ISO 8434-1 + Bulkhead
Metric thread



SAE J 1926-2
UN/UNF thread



Global region

Part Number	Body Size	ISO Size	Nominal Flow Diameter	Thread Size*(Male)			Dimensions											Weight		
NBR+AU	(in)	(mm)	(mm)	ISO 8434-1	SAE J 1926-2	Fig.	D (in)	E (in)	F (in)	G (in)	H (in)	Hex (in)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	Hex (mm)	lbs	grams
6FFP8LBH	1/4	6.3	6	8L-M14x1.5		4	1.54	0.64	0.64	1.11	1.33	0.87	39	16.2	24	28.1	34	22	0.22	103
6FFP10L	1/4	6.3	6	10L-M16x1.5		4	1.54	0.64	0.94	1.11	0.43	0.87	39	16.2	24	28.1	11	22	0.15	71.5
6FFP10LBH	¼	6.3	6	M10L 16x1.5 + bulkhead		4	1.54	0.64	0.94	1.11	1.38	0.87	39	16.2	24	28.1	35	22	0.27	123
10FFP8L	¾	10	6	8L-M14x1.5		4	2.20	0.78	1.16	1.84	0.39	1.06	56	19.7	29.5	46.7	10	27	0.3	137
10FFP10L	¾	10	8	10L-M16x1.5		4	2.17	0.78	1.16	1.84	0.43	1.06	55	19.7	29.5	46.7	11	27	0.3	135
10FFP10LBH	3/8	10	8	10L-M16x1.5		4	2.05	0.78	1.16	1.45	1.38	1.06	52	19.7	29.5	36.7	35	27	0.35	160
10FFP12L	¾	10	10	12L-M18x1.5		4	2.17	0.78	1.16	1.41	0.43	1.06	55	19.7	29.5	35.7	11	27	0.3	136
10FFP15L	¾	10	8.6	5L-M22x1.5		4	2.13	0.78	1.16	1.84	0.47	1.06	54	19.7	29.5	46.7	12	27	0.31	139
10FFP15LBH	¾	10	8.6	15L-M22x1.5 + bulkhead		4	2.01	0.78	1.16	2.9	1.50	1.06	51	19.7	29.5	73.7	38	27	0.4	183
10FFP12S	3/8	10	8.6	M20x1.5		4	2.01	0.78	1.16	1.41	0.50	1.06	51	19.7	29.5	35.7	15	27	0.26	122
10FFP12LBH	3/8	10	8.6	12L-M18x1.5		4	2.01	0.78	1.16	1.41	1.42	1.06	52	19.7	29.5	35.7	36	27	0.34	158
10FFP16S	¾	10	8.6	16S-M24x1.5		4	2.52	0.78	1.16	1.92	0.55	1.06	64	19.7	29.5	48.7	14	27	0.27	123
10FFP56ORM	¾	10	8.6	-	¾ 18UNF	4	2.5	0.78	1.06	1.9	0.47	0.94	63.6	19.7	27	48.3	12	23.8	0.33	150
10FFP75ORM	¾	10	8.6	-	¾ 16UNF	4	2.	0.78	1.06	1.	0.55	0.94	63.6	19.7	27	48.3	14	23.8	0.34	156
12FFP12L	½	12	11	12L-M18x1.5		4	2.28	0.96	1.56	1.61	0.66	1.42	58	24.5	39.5	41	17	36	0.65	295
12FFP15L	1/2	12	11	15L-M22x1.5		4	2.12	0.96	1.56	3.07	0.47	1.42	54	24.5	39.5	78	12	36	0.51	234
12FFP15LBH	½	12	11	15L-M22x1.5 + bulkhead		4	2.12	0.96	1.56	2.95	1	1.42	54	24.5	39.5	75	38	36	0.65	297
12FFP16S	½	12	11	16S-M24x1.5		4	2.71	0.96	1.56	2.05	0.55	1.42	69	24.5	39.5	52	14	36	0.61	279
12FFP18LBH	½	12	11	18L-M26x1.5 + bulkhead		4	2.12	0.96	1.56	3.03	1.57	1.42	54	24.5	39.5	77	40	36	0.78	353
16FFP15LBH	¾	16	12	15L-M22x1.5 + bulkhead		4	2.12	1.06	1.56	1.45	1.5	1.42	54	27	39.5	37	38	36	0.65	298
16FFP16S	¾	16	12	16S-M24x1.5		4	2.71	1.06	1.56	2.05	0.55	1.42	69	27	39.5	52	14	36	0.62	280
16FFP18LBH	¾	16	13	18L-M26x1.5 + bulkhead		4	2.12	1.06	1.56	1.45	1.57	1.42	54	27	39.5	37	40	36	0.78	353

* Alternative end connections available upon request.

To obtain connected length of coupling, add dimensions A (Fig. 1 or Fig. 2) and G (Fig. 3 or 4) together.

Note that ISO 8434-1 will restrict usage of coupling to 250 bar for end connection 8L, 10L, 12L and 15L, and to 160 bar for end connection 18L.

Socket (Female) Dust Plug

Body Size (in)	Body Size (in) with color ring	Part Number	Coupling Type	Dust Plug Material
1/4	3/8	SDC6FF	Socket/Female	PVC
3/8	-	SDC10FF	Socket/Female	PVC
1/2	-	SDC12FF	Socket/Female	PVC
3/4	-	SDC16FF	Socket/Female	PVC
1	1/2	SDC19FF	Socket/Female	PVC
1	3/4	SDC25FF	Socket/Female	PVC

* Dust caps and dust plugs are offered in black.

If a color coded ring is used on the socket, the dust plug needs to be one size bigger.



Plug (Male) Dust Cap

Body Size (in)	Part Number	Coupling Type	Dust Plug Material
1/4	XPDC6FF	Plug/Male	PVC
3/8	XPDC10FF	Plug/Male	PVC
1/2	XPDC12FF	Plug/Male	PVC
3/4	XPDC16FF	Plug/Male	PVC
1	XPDC19FF	Plug/Male	PVC
1	XPDC25FF	Plug/Male	PVC

* Dust caps and dust plugs are offered in black.

If a color coded ring is used on the socket, the dust plug needs to be one size bigger.



Color Coding Ring Option*

Body Size (in)	ISO Size (mm)	Size	Socket/Female Ring Part Number**				Plug/Male Ring Part Number**				Tool Part Number	Tool & Rings Kit Part Number***
			Blue	Red	Yellow	Green	Blue	Red	Yellow	Green		
1/4	6	6FF	CR6FFSLB	CR6FFSRD	CR6FFSYL	CR6FFSDG	CR6FFPLB	CR6FFPRD	CR6FFPYL	CR6FFPDG	CR6FFSP93	CRKIT6FF
3/8	10	10FF	CR10FFSLB	CR10FFSRD	CR10FFSYL	CR10FFSDG	CR10FFPLB	CR10FFPRD	CR10FFPYL	CR10FFPDG	CR10FFSP93	CRKIT10FF
1/2	12.5	12FF	CR12FFSLB	CR12FFSRD	CR12FFSYL	CR12FFSDG	CR12FFPLB	CR12FFPRD	CR12FFPYL	CR12FFPDG	CR12FFSP93	CRKIT12FF
3/4	16	16FF	CR16FFSLB	CR16FFSRD	CR16FFSYL	CR16FFSDG	CR16FFPLB	CR16FFPRD	CR16FFPYL	CR16FFPDG	CR16FFSP93	CRKIT16FF
1	19	19FF	CR19FFSLB	CR19FFSRD	CR19FFSYL	CR19FFSDG	CR19FFPLB	CR19FFPRD	CR19FFPYL	CR19FFPDG	CR19FFSP93	CRKIT19FF

For color coded rings TPE material is used that offers excellent flexibility which allows a very good shock resistance in demanding applications.

Good thermal, chemical and weather resistance provides a great fit on the coupling and a extended life time in toughest conditions.

The color coded rings are easy to install by using the referenced tools. Please refer to the user guide on "Danfoss.com"

* For requests on alternative colors or installation instructions, please contact your Danfoss sales representative.

** Orders must be in multiples of 10 pcs.

*** The kit consists of a tool plus 10 socket rings and 10 plug rings of each color.

