

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

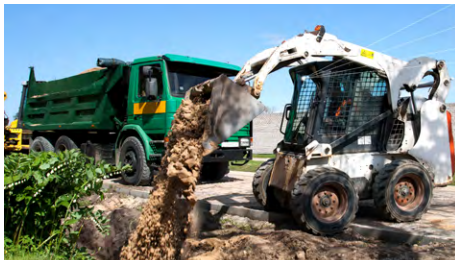
- Faster FFH Series
- Stucchi A Premier Series
- Stauff FF/FH Series
- DNP PLT4 Series
- Parker FEM Series
- CEJN X Series

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 **350 bar with CUP** plug option

Order Fulfillment

- Standard Flat Face configurations and dust caps stocked in EMEA distribution center



Physical Characteristics

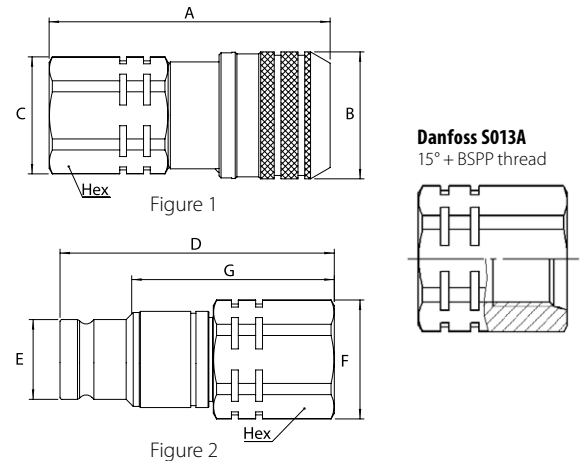
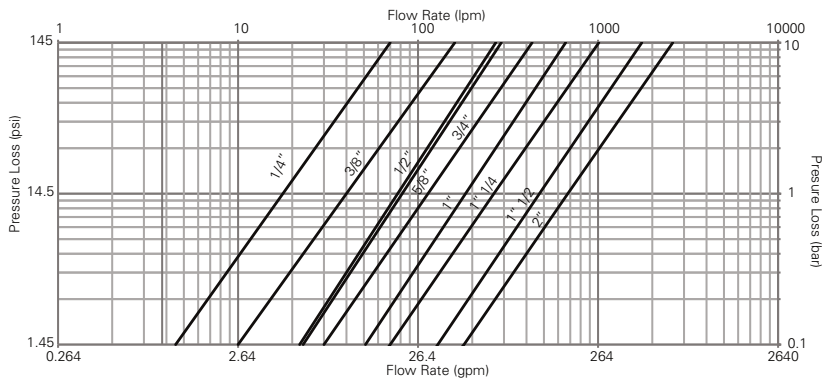
ISO Size*	Coupling Size	Maximum Operating Pressure						Minimum Burst Pressure						Rated Flow**		Fluid Loss	Air Inclusion	Force to Connect	
		Connected***		Plug/ Male Half		Socket/ Female Half		Connected		Plug/ Male Half		Socket/ Female Half							
(mm)	(in)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(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	½	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	¾	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 - BSPP)

Part Number (NBR)	Coupling Type	Body Size	Thread	Type	Fig.	Dimension A		Dimension B		Dimension C		Hex 1
						mm	(in)	mm	(in)	mm	(in)	mm
6FFS25BS	Socket/Female	1/4"	1/4-19	BSPP (Female)	2	54	(2,13)	27	(1,06)	24	(0,94)	22
10FFS37BS	Socket/Female	3/8"	3/8-19	BSPP (Female)	2	67,8	(2,67)	32	(1,26)	29,5	(1,16)	27
12FFS50BS	Socket/Female	1/2"	1/2-14	BSPP (Female)	2	77	(3,27)	38,2	(1,5)	39,5	(1,56)	36
16FFS75BS	Socket/Female	5/8"	3/4-14	BSPP (Female)	2	86	(3,39)	42,2	(1,66)	39,5	(1,56)	36
19FFS75BS	Socket/Female	3/4"	3/4-14	BSPP (Female)	2	96,6	(3,8)	46,2	(1,82)	46	(1,81)	42
25FFS100BS	Socket/Female	1"	1-11	BSPP (Female)	2	103,5	(4,07)	55,2	(2,17)	60	(2,37)	55

Dimensions (Plug/Male - BSPP)

Part Number (NBR)	Coupling Type	Body Size	Thread	Type	Fig.	Dimension D		Dimension E		Dimension F		Dimension G		Hex 2
						mm	(in)	mm	(in)	mm	(in)	mm	(in)	mm
6FFP25BS	Plug/Male	1/4"	1/4-19	BSPP (Female)	1	51	(2,01)	16,2	(0,64)	24	(0,94)	40,1	(1,58)	22
10FFP37BS	Plug/Male	3/8"	3/8-19	BSPP (Female)	1	65	(2,56)	19,7	(0,78)	29,5	(1,16)	49,7	(1,96)	27
12FFP50BS	Plug/Male	1/2"	1/2-14	BSPP (Female)	1	69	(2,71)	24,5	(0,96)	39,5	(1,56)	52	(2,05)	36
16FFP75BS	Plug/Male	5/8"	3/4-14	BSPP (Female)	1	72	(2,83)	24,5	(0,96)	39,5	(1,56)	55	(2,16)	36
19FFP75BS	Plug/Male	3/4"	3/4-14	BSPP (Female)	1	93,8	(3,69)	29,9	(1,18)	46	(1,81)	46	(2,84)	42
25FFP100BS	Plug/Male	1"	1-11	BSPP (Female)	1	104,6	(4,12)	36	(1,42)	60	(2,36)	81,7	(3,22)	55

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