

Danfoss Hansen® Quick Disconnect Couplings **5100 Series**

Unleash the **value** of superior **flow performance**



- Greater efficiency and work output with less energy consumption and lower cost of ownership.
- Faster cycle times. Low pressure drop.
- Drive fuel savings with reduced power demands, weight savings with smaller couplings, and maintenance savings with less unnecessary wear and tear.



Markets/Applications

- End Dump Trailers
- Live Bed Trailers
- Lowboy Trailers
- Sand/Salt Spreaders
- Wet Line Kits
- Submersible Pumps
- Engine Test Stands
- Bulk Fluid Transfer
- Oil & Gas Equipment
- Industrial Equipment



Sells Against

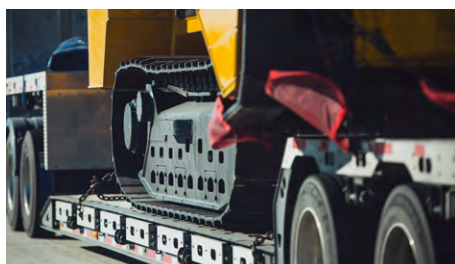
- Dixon W-Series
- Foster FWN Series
- Holmbury WSC Series
- Safeway S51 Series
- Parker 6100 Series

Features

- Industry-leading flow performance, up to **80%** higher than competing brands
- Interchangeable with most equivalent offerings on the market
- Connect under pressure on either side up to 500 psi
- Available in wing style or hex nut coupling configurations, sizes -4 through -24

Order Fulfillment

- 5100-S2 and 5100-S5 core configurations and dust caps and plugs stocked in Van Wert and Cleveland DC's



Physical Characteristics

Body Dash	Body Interface Size	Max. Operating Pressure Connected		Max. Operating Pressure Disconnected				Vacuum	Rated Flow		Air Inclusion	Fluid Size Loss
				Plug/Male Half S2		Socket/Female Half S5						
(in)	(in)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(in./Hg)	(lpm)	(gpm)	cc. max.	cc.max.
¼	¼	207	3,000	207	3,000	207	3,000	28	15	4	.03	.01
	½	207	3,000	207	3,000	207	3,000	28	26	7	.05	.06
½	½	207	3,000	207	3,000	207	3,000	28	26	7	.05	.10
	¾	207	3,000	207	3,000	207	3,000	28	68	18	.14	.10
¾	¾	207	3,000	207	3,000	207	3,000	28	68	18	.34	.26
1	1	207	3,000	207	3,000	207	3,000	28	151	40	.50	.35
1¼	1¼	190	2,750	172	2,500	190	2,750	28	284	75	.68	.70
1½	1½	172	2,500	172	2,500	138	2,000	28	379	100	.60	.94

Flow Data

Pressure Drop Versus Flow Graph

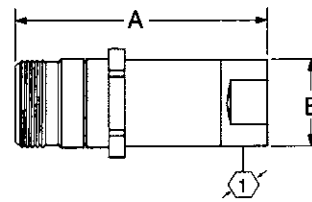
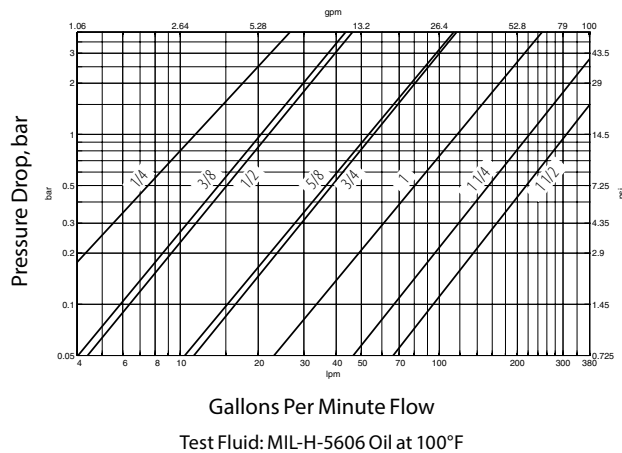


Figure 1

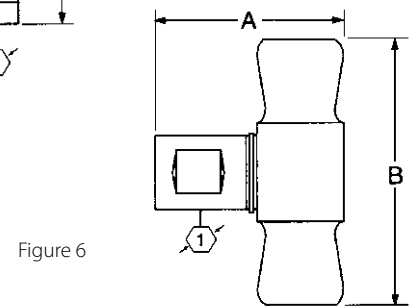


Figure 6

Dimensions (Female NPT, Valved without Flange)

Part Number (NBR)	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimension A		Dimension B		Hex 1		Hex 2	
							mm	(in)	mm	(in)	mm	(in)	mm	(in)
5100-S2-8B	Plug/Male	½		-18	Female NPT	1	65.5	(2.58)	26.7	(1.05)	23.9	(.94)	-	-
5100-S2-12B	Plug/Male	¾	¾	¾-14	Female NPT	1	79.0	(3.11)	35.1	(1.38)	30.2	(1.19)	-	-
5100-S2-16B	Plug/Male	1	1	1-11½	Female NPT	1	90.2	(3.55)	44.2	(1.74)	39.6	(1.56)	-	-
5100-S2-20B	Plug/Male	1¼	1¼	1¼ - 11½	Female NPT	1	94.2	(3.71)	52.8	(2.08)	47.8	(1.88)	-	-
5100-S2-24B	Plug/Male	1½	1½	1½ - 11½	Female NPT	1	104.6	(4.12)	62.5	(2.46)	55.6	(2.19)	55.6	(2.19)

Dimensions (Female NPT, Valved WITH Wing Nut Less Flange)

Part Number (NBR)	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimension A		Dimension B		Hex 1	
							mm	(in)	mm	(in)	mm	(in)
5100-S5-8B	Socket/Female	½		-18	Female NPT	6	61.0	(2.40)	87.4	(3.44)	19.3	(.76)
5100-S5-12B	Socket/Female	¾	¾	¾-14	Female NPT	6	78.0	(3.07)	104.9	(4.13)	29.5	(1.16)
5100-S5-16B	Socket/Female	1	1	1-11½	Female NPT	6	93.5	(3.68)	111.3	(4.38)	36.6	(1.44)
5100-S5-20B	Socket/Female	1¼	1¼	1¼-11½	Female Pipe	6	101.6	(4.00)	133.9	(5.27)	45.2	(1.78)
5100-S5-24B	Socket/Female	1½	1½	1½-11½	Female NPT	6	104.1	(4.10)	136.7	(5.38)	50.8	(2.00)

Danfoss Power Solutions

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