

Full-Bore Series

Pneumatic application

Danfoss' Full-Bore Series is a premium automatic one-way shutoff quick disconnect coupling. Two sleeves must be actuated in sequence to bleed off back pressure and release the connector, preventing accidental uncoupling.



Product Features

- Pressure relieving feature fully vents downstream air, making connection/disconnection fast and easy, and eliminating hose whip
- Unique straight through design
- eliminates restrictive springs and poppet valves, allowing unimpeded air flow
- Two sleeve activation prevents accidental disconnect
- Standard body material: Zinc trivalent plated carbon steel
- Standard seal material: Buna-N

Physical Characteristics

Body Size (in)	Max. Operating Pressure		Min. Burst Pressure Rated Flow			
	(bar)	(psi)	(bar)	(psi)	(lpm)	(scfm)
3/8	15	250	60	1,000	1,784	63
1/2	15	250	60	1,000	2,860	101

Applications & Markets

- Construction
- Maintenance and Repair
- In-Plant/Industrial
- Railyards
- General Pneumatics

Flow Data

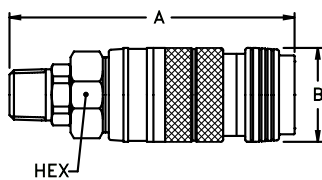
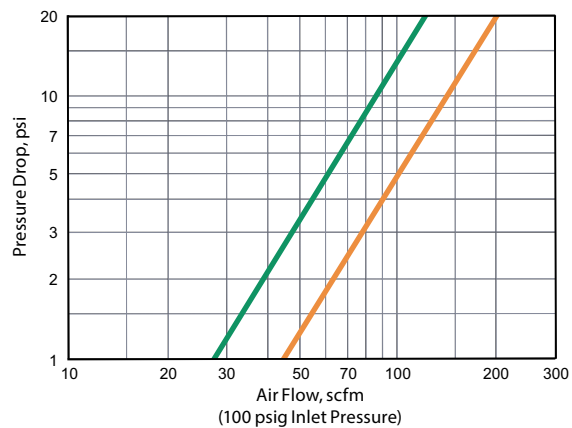


Figure 1

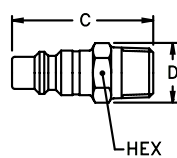
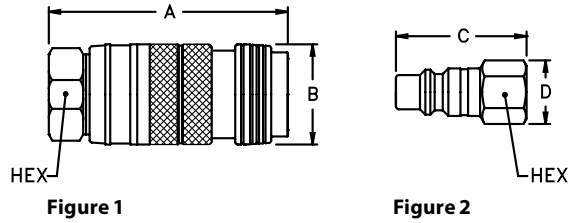


Figure 2

Male End Connections

Part Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions			A	B	Hex
							A	B	Hex			
							(in)	(in)	(in)	(mm)	(mm)	(mm)
23203013	Socket/Female	3/8	3/8	3/8-18	NPTF	1	3.80	1.25	1.00	96.5	31.8	25.4
23203014	Socket/Female	3/8	1/2	1/2-14	NPTF	1	4.10	1.25	1.00	71.1	31.8	25.4
23204014	Socket/Female	1/2	1/2	1/2-14	NPTF	1	4.43	1.38	1.13	112.5	35.1	28.7
23204015	Socket/Female	1/2	3/4	3/4-14	NPTF	1	4.67	1.38	1.13	118.6	35.1	28.7
Part Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions			C	D	Hex
							C	D	Hex			
							(in)	(in)	(in)	(mm)	(mm)	(mm)
40	Plug/Male	3/8	1/4	1/4-18	NPTF	2	1.88	0.72	0.63	47.8	18.3	16.0
42	Plug/Male	3/8	3/8	3/8-18	NPTF	2	1.88	0.79	0.69	47.8	20.1	17.5
44	Plug/Male	3/8	1/2	1/2-14	NPTF	2	2.09	1.01	0.88	53.1	25.7	22.4
52	Plug/Male	1/2	3/8	3/8-18	NPTF	2	2.25	0.87	0.75	57.2	22.1	19.1
54E	Plug/Male	1/2	1/2	1/2-14	NPTF	2	2.44	1.01	0.88	62.0	25.7	22.4
56	Plug/Male	1/2	3/4	3/4-14	NPTF	2	2.50	1.23	1.06	63.5	31.2	26.9

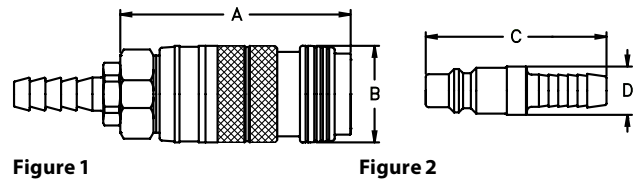
Full-Bore Series



Female End Connections

Part Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions			A	B	Hex
							A	B	Hex			
							(in)	(in)	(in)	(mm)	(mm)	(mm)
23203300	Socket/Female	3/8	3/8	3/8-18	NPTF	1	3.17	1.25	1.00	80.5	31.8	25.4
23203004	Socket/Female	3/8	1/2	1/2-14	NPTF	1	3.92	1.25	1.00	99.6	31.8	25.4
23204400	Socket/Female	1/2	1/2	1/2-14	NPTF	1	3.31	1.38	1.13	84.1	35.1	28.7
23204005	Socket/Female	1/2	3/4	3/4-14	NPTF	1	4.30	1.38	1.13	109.2	35.1	28.7

Part Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions			C	D	Hex
							C	D	Hex			
							(in)	(in)	(in)	(mm)	(mm)	(mm)
41	Plug/Male	3/8	1/4	1/4-18	NPTF	2	1.63	0.79	0.69	41.4	20.1	17.5
43	Plug/Male	3/8	3/8	3/8-18	NPTF	2	1.81	0.94	0.81	46.0	23.9	20.6
45E	Plug/Male	3/8	1/2	1/2-14	NPTF	2	2.06	1.15	1.00	52.3	29.2	25.4
53	Plug/Male	1/2	3/8	3/8-18	NPTF	2	2.06	0.94	0.81	52.3	23.9	20.6
55	Plug/Male	1/2	1/2	1/2-14	NPTF	2	2.34	1.15	1.00	59.4	29.2	25.4
57	Plug/Male	1/2	3/4	3/4-14	NPTF	2	2.44	1.37	1.19	62.0	34.8	30.2



Hose Stem End Connections

Part Number	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions		A	B
					A	B		
					(in)	(in)	(mm)	(mm)
23203024	Socket/Female	3/8	1/4	1	4.36	1.25	110.7	31.8
23203025	Socket/Female	3/8	3/8	1	4.48	1.25	113.8	31.8
23204025	Socket/Female	1/2	1/2	1	4.80	1.38	121.9	35.1
23204026	Socket/Female	1/2	3/4	1	4.80	1.38	121.9	35.1

Part Number	Coupling Type	Body Size	Hose I.D.	Fig.	Dimensions		C	D
					C	D		
					(in)	(in)	(mm)	(mm)
404	Plug/Male	3/8	1/4	2	2.34	0.63	59.4	16.0
406	Plug/Male	3/8	3/8	2	2.34	0.63	59.4	16.0
408	Plug/Male	3/8	1/2	2	2.34	0.81	59.4	20.6
59	Plug/Male	1/2	3/8	2	2.66	0.69	67.6	17.5
60	Plug/Male	1/2	1/2	2	2.66	0.75	67.6	19.1
61E	Plug/Male	1/2	3/4	2	3.50	1.00	88.9	25.4