

5000 Series

Pneumatic application



Danfoss Hansen 3000/4000/5000/6000 Series Industrial Interchange pin lock pneumatic quick disconnect couplings are designed for compressed air, gases, and liquids. This series sets the industry standard for pin lock style pneumatic couplings.

Product Features

- Easy, automatic, push-to-connect design provides instantaneous connection and disconnection of lines, plus automatic shut-off of socket/female end of line
- All sizes accept US industrial Interchange; 1/4" & 1/2" also accept ISO 6150 Series B and A-A-59439 plugs/males
- Optional sleeve lock option prevents accidental disconnection
- Standard body material: Brass
- Standard seal material: Buna-N
- Optional seal and valve materials: Silicone-138, FKM-143, EPDM-192

Physical Characteristics

Series	Body Size (in)	Max. Operating Pressure		Min. Burst Pressure		Rated Flow	
		(bar)	(psi)	(bar)	(psi)	(lpm)	scfm
3000	1/4	138	2,000	552	8,000	680	24
4000	3/8	69	1,000	276	4,000	1,274	45
5000	1/2	35	500	140	2,000	2,040	72
6000	3/4	15	220	60	880	3,540	125

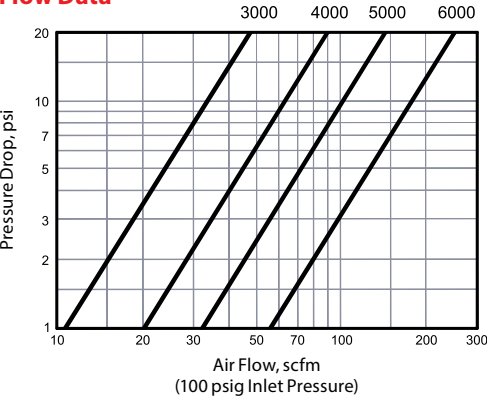
Applications & Markets

- Industrial Breathing Air
- General Pneumatics
- Maintenance & Repair
- Fluid Transfer

Interchangeability

All Sizes	1/4" & 1/2"
US Industrial Interchange	ISO 6150 Series B A-A-59439 (former MIL-C-4109)

Flow Data



5000 Series

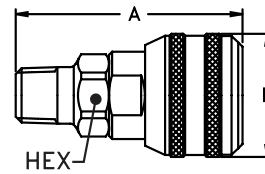


Figure 1

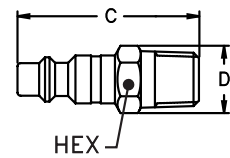


Figure 2

Male End Connections

Part Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions		Hex	A	B	Hex
								A	B				
								(in)	(in)	(in)	(mm)	(mm)	(mm)
50100	Socket/Female	1/2	1/4	1/4-18	NPTF	Brass	1	2.78	1.50	1.00	70.61	38.10	25.40
5100E	Socket/Female	1/2	3/8	3/8-18	NPTF	Brass	1	2.79	1.50	1.00	70.87	38.10	25.40
5300E	Socket/Female	1/2	1/2	1/2-14	NPTF	Brass	1	2.98	1.50	1.00	75.69	38.10	25.40
5500	Socket/Female	1/2	3/4	3/4-14	NPTF	Brass	1	2.98	1.50	1.06	75.69	38.10	26.92
Part Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions		Hex	C	D	Hex
								C	D				
								(in)	(in)	(in)	(mm)	(mm)	(mm)
50E	Plug/Male	1/2	1/4	1/4-18	NPTF	Steel	2	2.25	0.79	0.69	57.15	20.07	17.53
50G†	Plug/Male	1/2	1/4	1/4-18	NPTF	Steel	2	2.90	0.98	0.88	73.66	24.89	22.35
52	Plug/Male	1/2	3/8	3/8-18	NPTF	Steel	2	2.25	0.87	0.75	57.15	22.10	19.05
52G†	Plug/Male	1/2	3/8	3/8-18	NPTF	Steel	2	2.90	0.98	0.88	73.66	24.89	22.35
54E	Plug/Male	1/2	1/2	1/2-14	NPTF	Steel	2	2.44	1.01	0.88	61.98	25.65	22.35
54G†	Plug/Male	1/2	1/2	1/2-14	NPTF	Steel	2	3.09	0.98	0.88	78.49	24.89	22.35
56	Plug/Male	1/2	3/4	3/4-14	NPTF	Steel	2	2.50	1.23	1.06	63.50	31.24	26.92
56G†	Plug/Male	1/2	3/4	3/4-14	NPTF	Steel	2	3.14	1.19	1.06	79.76	30.23	26.92
B52	Plug/Male	1/2	3/8	3/8-18	NPTF	Brass	2	2.25	0.87	0.75	57.15	22.10	19.05
B54	Plug/Male	1/2	1/2	1/2-14	NPTF	Brass	2	2.44	1.01	0.88	61.98	25.65	22.35

†With Bleeder Ball Check—Reduces Hose Whip

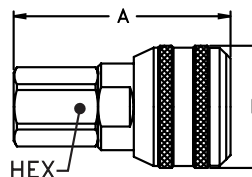


Figure 3

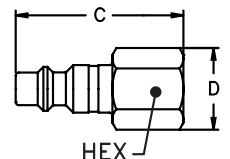


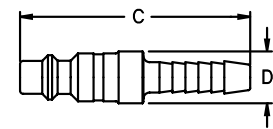
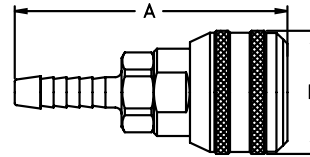
Figure 4

Female End Connections

Part Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions		Hex	A	B	Hex
								A	B				
								(in)	(in)	(in)	(mm)	(mm)	(mm)
5000A	Socket/Female	1/2	1/4	1/4-18	NPTF	Brass	3	2.72	1.50	1.00	69.09	38.10	25.40
5000	Socket/Female	1/2	3/8	3/8-18	NPTF	Brass	3	2.79	1.50	1.00	70.87	38.10	25.40
5200	Socket/Female	1/2	1/2	1/2-14	NPTF	Brass	3	3.07	1.50	1.00	77.98	38.10	25.40
5400E	Socket/Female	1/2	3/4	3/4-14	NPTF	Brass	3	3.10	1.50	1.19	78.74	38.10	30.23
Part Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions		Hex	C	D	Hex
								C	D				
								(in)	(in)	(in)	(mm)	(mm)	(mm)
53A	Plug/Male	1/2	1/4	1/4-18	NPTF	Steel	4	1.92	0.79	0.69	48.77	20.07	17.53
53	Plug/Male	1/2	3/8	3/8-18	NPTF	Steel	4	2.06	0.94	0.81	52.32	23.88	20.57
53G†	Plug/Male	1/2	3/8	3/8-18	NPTF	Steel	4	2.9	0.98	0.88	73.66	24.89	22.35
55	Plug/Male	1/2	1/2	1/2-14	NPTF	Steel	4	2.34	1.15	1	59.44	29.21	25.40
55G†	Plug/Male	1/2	1/2	1/2-14	NPTF	Steel	4	3.17	1.15	1.00	80.52	29.21	25.40
57	Plug/Male	1/2	3/4	3/4-14	NPTF	Steel	4	2.44	1.37	1.19	61.98	34.80	30.23

†With Bleeder Ball Check—Reduces Hose Whip

5000 Series



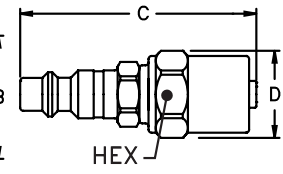
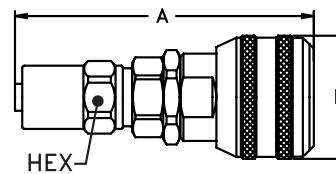
Hose Stem End Connections

Figure 5

Figure 6

Part Number	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions		A	B
						(in)	(in)	(mm)	(mm)
50400	Socket/Female	1/2	1/4	Brass	5	3.29	1.50	83.57	38.10
5700E	Socket/Female	1/2	3/8	Brass	5	3.33	1.50	84.58	38.10
5800E	Socket/Female	1/2	1/2	Brass	5	3.25	1.50	82.55	38.10
5900	Socket/Female	1/2	3/4	Brass	5	4.10	1.50	104.14	38.10
Part Number	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions		C	D
						(in)	(in)	(mm)	(mm)
585	Plug/Male	1/2	5/16	Steel	6	2.66	0.69	67.56	17.53
585G†	Plug/Male	1/2	5/16	Brass	6	3.37	0.98	85.60	24.89
59	Plug/Male	1/2	3/8	Steel	6	2.66	0.69	67.56	17.53
59G†	Plug/Male	1/2	3/8	Brass	6	3.37	0.98	85.60	24.89
60	Plug/Male	1/2	1/2	Steel	6	2.66	0.75	67.56	19.05
60G†	Plug/Male	1/2	1/2	Brass	6	3.37	0.98	85.60	24.89
61E	Plug/Male	1/2	3/4	Steel	6	3.50	1.00	88.90	25.40
61G†	Plug/Male	1/2	3/4	Brass	6	4.22	0.98	107.19	24.89
B60	Plug/Male	1/2	1/2	Brass	6	2.75	0.88	69.85	22.35

†With Bleeder Ball Check—Reduces Hose Whip



Hose Clamp End Connections

Figure 7

Figure 8

Part Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions			A	B	Hex
							(in)	(in)	(in)	(mm)	(mm)	(mm)
5SD5	Socket/Female	1/2	3/8	9/16	Brass	7	3.50	1.50	0.69	88.90	38.10	17.53
5SD7	Socket/Female	1/2	3/8	5/8	Brass	7	3.50	1.50	0.75	88.90	38.10	19.05
5SD9	Socket/Female	1/2	3/8	11/16	Brass	7	3.50	1.50	0.81	88.90	38.10	20.57
5SD11	Socket/Female	1/2	3/8	3/4	Brass	7	3.50	1.50	0.88	88.90	38.10	22.35
5SP13	Socket/Female	1/2	1/2	13/16	Brass	7	4.10	1.50	0.94	104.14	38.10	23.88
5SP15	Socket/Female	1/2	1/2	7/8	Brass	7	4.10	1.50	1.00	104.14	38.10	25.40
5SR23	Socket/Female	1/2	3/4	1 1/8	Brass	7	4.23	1.50	1.25	107.44	38.10	31.75
5SR25	Socket/Female	1/2	3/4	1 3/16	Brass	7	4.23	1.50	1.31	107.44	38.10	33.27
5SR27	Socket/Female	1/2	3/4	1 1/4	Brass	7	4.23	1.54	1.38	107.44	39.12	35.05
Part Number	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions			C	D	Hex
							(in)	(in)	(in)	(mm)	(mm)	(mm)
5PB3	Plug/Male	1/2	1/4	1/2	Steel	8	2.81	0.70	0.63	71.37	17.78	16.00
5PB5	Plug/Male	1/2	1/4	9/16	Steel	8	2.81	0.77	0.69	71.37	19.56	17.53
5PB7	Plug/Male	1/2	1/4	5/8	Steel	8	2.81	0.84	0.75	71.37	21.34	19.05
5PD5	Plug/Male	1/2	3/8	9/16	Steel	8	2.94	0.77	0.69	74.68	19.56	17.53
5PD7	Plug/Male	1/2	3/8	5/8	Steel	8	2.94	0.84	0.75	74.68	21.34	19.05
5PD9	Plug/Male	1/2	3/8	11/16	Steel	8	2.94	0.91	0.81	74.68	23.11	20.57
5PD11	Plug/Male	1/2	3/8	3/4	Steel	8	2.94	0.98	0.88	74.68	24.89	22.35
5PD13	Plug/Male	1/2	3/8	13/16	Steel	8	2.94	1.05	0.94	74.68	26.67	23.88
5PP13	Plug/Male	1/2	1/2	13/16	Steel	8	3.62	1.05	0.94	91.95	26.67	23.88
5PP15	Plug/Male	1/2	1/2	7/8	Steel	8	3.62	1.12	1.00	91.95	28.45	25.40
5PR23	Plug/Male	1/2	3/4	1 1/8	Steel	8	3.75	1.40	1.25	95.25	35.56	31.75
5PR25	Plug/Male	1/2	3/4	1 3/16	Steel	8	3.75	1.47	1.31	95.25	37.34	33.27
5PR27	Plug/Male	1/2	3/4	1 1/4	Steel	8	3.75	1.54	1.38	95.25	39.12	35.05



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