

Auto-Flo 23/24 Series

Pneumatic application



Danfoss' Auto-Flo 23/24 Series of pneumatic couplings were designed with high flow and easy automatic connection for compressed air in mind. The universal design makes the Auto-Flo an extremely flexible coupling series.

Product Features

- Auto-Flo 23 is the first automatic universal quick disconnect coupling designed to operate with Industrial, ARO 210 and Tru-Flate Interchange plugs/males
- Auto-Flo 24 operates with CEJN 320 and Rectus 25 Interchange plugs/males
- Easy, automatic, push-to-connect design provides instantaneous connection and disconnection of lines, plus automatic shut-off of socket/female end of line
- Sleeve guard protects against accidental disconnection
- Standard body material: Brass
- Standard seal material: Buna-N

Physical Characteristics

Series	Max. Operating Pressure		Min. Burst Pressure		Rated Flow	
	(bar)	(psi)	(bar)	(psi)	(lpm)	scfm
Auto-Flo 23	10	150	40	600	792	28
Auto-Flo 24	10	150	40	600	1,274	45

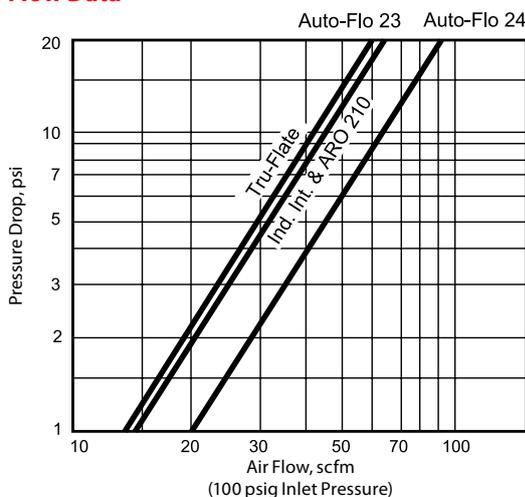
Applications & Markets

- General Pneumatics
- Air Tools
- Construction

Interchangeability

Auto-Flo 23	Auto-Flo 24
US Industrial Interchange	(Euro Interchange)
ISO 6150 Series B	
A-A-59439 (former MIL-C-4109)	CEJN 320
Tru-Flate Interchange	
ARO 210 Interchange	RECTUS 25

Flow Data



Auto-Flo 23 Series

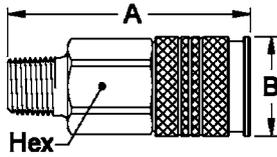


Figure 1

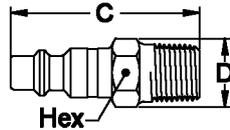


Figure 2

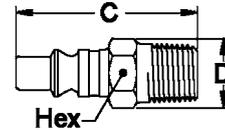


Figure 3 (ARO 210)

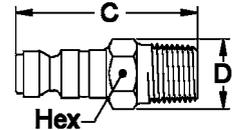


Figure 4 (Tru-Flate)

Male End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions			A	B	Hex
								A	B	Hex			
								(in)	(in)	(in)	(mm)	(mm)	(mm)
B23AS25M	Socket/Female	1/4	1/4	1/4-18	NPTF	Brass	1	2.23	0.96	0.81	56.64	24.38	20.57
B23AS25MBST	Socket/Female	1/4	1/4	1/4-19	BSPT	Brass	1	2.23	0.96	0.81	56.64	24.38	20.57
B23AS37M	Socket/Female	1/4	3/8	3/8-18	NPTF	Brass	1	2.23	0.96	0.81	56.64	24.38	20.57
B23AS37MBST	Socket/Female	1/4	3/8	3/8-19	BSPT	Brass	1	2.23	0.96	0.81	56.64	24.38	20.57
B23AS50MBST	Socket/Female	1/4	1/2	1/2-14	BSPT	Brass	1	2.23	0.96	0.88	56.64	24.38	22.35
Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions			C	D	Hex
								C	D	Hex			
								(in)	(in)	(in)	(mm)	(mm)	(mm)
10	Plug/Male	1/4	1/4	1/4-18	NPTF	Steel	2	1.75	0.62	0.56	44.45	15.75	14.22
10CS	Plug/Male	1/4	1/4	1/4-18	NPTF	Steel	2	1.75	0.65	0.56	44.45	16.51	14.22
10G†	Plug/Male	1/4	1/4	1/4-18	NPTF	Steel	2	1.75	0.65	0.56	44.45	16.51	14.22
12E	Plug/Male	1/4	1/8	1/8-27	NPTF	Steel	2	1.59	0.58	0.5	40.39	14.73	12.70
12G†	Plug/Male	1/4	1/8	1/8-27	NPTF	Steel	2	2.38	0.77	0.69	60.45	19.56	17.53
14	Plug/Male	1/4	3/8	3/8-18	NPTF	Steel	2	1.75	0.79	0.69	44.45	20.07	17.53
14G†	Plug/Male	1/4	3/8	3/8-18	NPTF	Steel	2	2.53	0.77	0.69	64.26	19.56	17.53
B10	Plug/Male	1/4	1/4	1/4-18	NPTF	Brass	2	1.75	0.62	0.56	44.45	15.75	14.22
LL10	Plug/Male	1/4	1/4	1/4-18	NPTF	Stainless	2	1.75	0.62	0.56	44.45	15.75	14.22
2607	Plug/Male	1/4	1/8	1/8-27	NPTF	Steel	3	1.42	0.58	0.5	36.07	14.73	12.70
2608	Plug/Male	1/4	1/4	1/4-18	NPTF	Steel	3	1.68	0.65	0.56	42.67	16.51	14.22
2608B	Plug/Male	1/4	1/4	1/4-19	BSPT	Steel	3	1.68	0.65	0.56	42.67	16.51	14.22
20AP37M	Plug/Male	1/4	3/8	3/8-18	NPTF	Steel	3	1.68	0.79	0.69	42.67	20.07	17.53
21AP25M	Plug/Male	1/4	1/4	1/4-18	NPTF	Steel	4	1.65	0.65	0.56	41.91	16.51	14.22
10NK*	Plug/Male	1/4	1/4	1/4-18	NPTF	Steel	2	1.75	0.62	0.56	44.45	15.75	14.22

S With Ball Check † With Bleeder Ball Check—Reduces Hose Whip *Nickel plated

Auto-Flo 23 Series

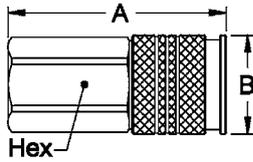


Figure 1

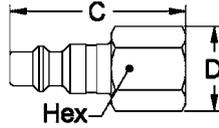


Figure 2

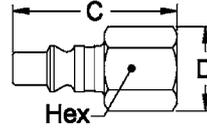


Figure 3 (ARO 210)

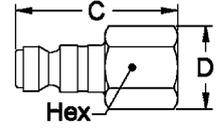


Figure 4 (Tru-Flate)

Female End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions			A	B	Hex
								A	B	Hex			
								(in)	(in)	(in)	(mm)	(mm)	(mm)
B23AS25F	Socket/Female	1/4	1/4	1/4-18	NPTF	Brass	1	2.02	0.96	0.81	51.31	24.38	20.57
B23AS25FBS	Socket/Female	1/4	1/4	1/4-19	BSPP	Brass	1	2.02	0.96	0.81	51.31	24.38	20.57
B23AS37F	Socket/Female	1/4	3/8	3/8-18	NPTF	Brass	1	2.02	0.96	0.81	51.31	24.38	20.57
B23AS37FBS	Socket/Female	1/4	3/8	3/8-19	BSPP	Brass	1	2.02	0.96	0.81	51.31	24.38	20.57
Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions			C	D	Hex
								C	D	Hex			
								(in)	(in)	(in)	(mm)	(mm)	(mm)
11	Plug/Male	1/4	1/4	1/4-18	NPTF	Steel	2	1.63	0.79	0.69	41.40	20.07	17.53
11G†	Plug/Male	1/4	1/4	1/4-18	NPTF	Steel	2	2.44	0.77	0.69	61.98	19.56	17.53
13	Plug/Male	1/4	1/8	1/8-27	NPTF	Steel	2	1.47	0.65	0.56	37.34	16.51	14.22
15E	Plug/Male	1/4	3/8	3/8-18	NPTF	Steel	2	1.69	0.94	0.81	42.93	23.88	20.57
11B	Plug/Male	1/4	1/4	1/4-18	NPTF	Brass	2	1.63	0.79	0.69	41.40	20.07	17.53
LL11	Plug/Male	1/4	1/4	1/4-18	NPTF	Stainless	2	1.63	0.79	0.69	41.40	20.07	17.53
2609	Plug/Male	1/4	1/4	1/4-18	NPTF	Steel	3	1.55	0.79	0.69	39.37	20.07	17.53
2609B	Plug/Male	1/4	1/4	1/4-19	BSPP	Steel	3	1.52	0.79	0.69	38.61	20.07	17.53
20AP37F	Plug/Male	1/4	3/8	3/8-18	NPTF	Steel	3	1.61	0.94	0.81	40.89	23.88	20.57
21AP25F	Plug/Male	1/4	1/4	1/4-18	NPTF	Steel	4	1.53	0.79	0.69	38.86	20.07	17.53
11NK*	Plug/Male	1/4	1/4	1/4-18	NPTF	Steel	2	1.63	0.79	0.69	41.40	20.07	17.53

†With Bleeder Ball Check—Reduces Hose Whip *Nickel plated

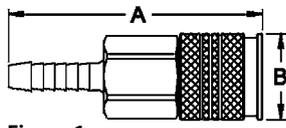


Figure 1

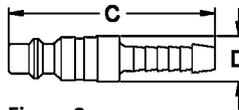


Figure 2

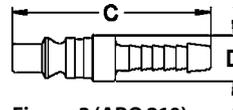


Figure 3 (ARO 210)

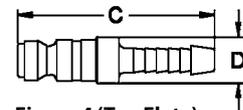


Figure 4 (Tru-Flate)

Hose Stem End Connections

Part/Order Number	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions		A	B
						A	B		
						(in)	(in)	(mm)	(mm)
B23AS25H	Socket/Female	1/4	1/4	Brass	1	2.76	0.96	70.10	24.38
B23AS31H	Socket/Female	1/4	5/16	Brass	1	2.73	0.96	69.34	24.38
B23AS37H	Socket/Female	1/4	3/8	Brass	1	2.73	0.96	69.34	24.38
B23AS50H	Socket/Female	1/4	1/2	Brass	1	2.7	0.96	68.58	24.38
Part/Order Number	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions		C	D
						C	D		
						(in)	(in)	(mm)	(mm)
16	Plug/Male	1/4	1/4	Steel	2	2.22	0.5	56.39	12.70
16G†	Plug/Male	1/4	1/4	Steel	2	2.97	0.77	75.44	19.56
16P‡	Plug/Male	1/4	1/4	Steel	2	2.00	0.58	50.80	14.73
17	Plug/Male	1/4	3/8	Steel	2	2.22	0.5	56.39	12.70
17G†	Plug/Male	1/4	3/8	Steel	2	2.96	0.77	75.18	19.56
17P‡	Plug/Male	1/4	3/8	Steel	2	2.06	0.5	52.32	12.70
18E	Plug/Male	1/4	5/16	Steel	2	2.22	0.5	56.39	12.70
B17	Plug/Male	1/4	3/8	Brass	2	2.22	0.5	56.39	12.70
3946	Plug/Male	1/4	1/4	Steel	3	2.14	0.5	54.36	12.70
3947	Plug/Male	1/4	5/16	Steel	3	2.14	0.5	54.36	12.70
22238E	Plug/Male	1/4	3/8	Steel	3	2.14	0.5	54.36	12.70
21AP25H	Plug/Male	1/4	1/4	Steel	4	2.12	0.5	53.85	12.70
16NK*	Plug/Male	1/4	1/4	Steel	2	2.22	0.5	56.39	12.70
17NK*	Plug/Male	1/4	3/8	Steel	2	2.22	0.5	56.39	12.70

†With Bleeder Ball Check—Reduces Hose Whip ‡For use with push-on style hose *Nickel plated

Auto-Flo 24 Series

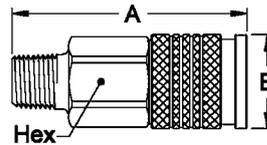


Figure 1

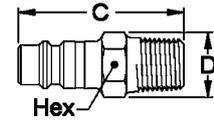


Figure 2

Male End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions			Hex	A	B	Hex	
								A	B	Hex					
								(in)	(in)	(in)	(mm)	(mm)	(mm)		
B24AS25M	Socket/Female	1/4	1/4	1/4-18	NPTF	Brass	1	2.27	0.96	0.81	57.66	24.38	20.57		
Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions			Hex	C	D	Hex	
								C	D	Hex					
								(in)	(in)	(in)	(mm)	(mm)	(mm)		
24AP25MBST	Plug/Male	1/4	1/4	1/4-19	BSPT	Steel	2	1.62	0.65	0.56	41.15	16.51	14.22		
24AP50MBST	Plug/Male	1/4	1/2	1/2-14	BSPT	Steel	2	1.88	1.01	0.88	47.75	25.65	22.35		

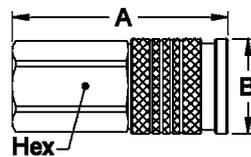


Figure 1

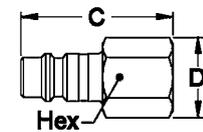


Figure 2

Female End Connections

Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions			Hex	A	B	Hex	
								A	B	Hex					
								(in)	(in)	(in)	(mm)	(mm)	(mm)		
B24AS25F	Socket/Female	1/4	1/4	1/4-18	NPTF	Brass	1	2.06	0.96	0.81	52.32	24.38	20.57		
B24AS25FBS	Socket/Female	1/4	1/4	1/4-19	BSPP	Brass	1	2.06	0.96	0.81	52.32	24.38	20.57		
B24AS37FBS	Socket/Female	1/4	3/8	3/8-19	BSPP	Brass	1	2.06	0.96	0.81	52.32	24.38	20.57		
B24AS50FBS	Socket/Female	1/4	1/2	1/2-14	BSPP	Brass	1	2.38	0.96	1.06	60.45	24.38	26.92		
Part/Order Number	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions			Hex	C	D	Hex	
								C	D	Hex					
								(in)	(in)	(in)	(mm)	(mm)	(mm)		
24AP25FG	Plug/Male	1/4	1/4	1/4-18	NPTF	Steel	2	1.49	0.79	0.69	37.85	20.07	17.53		
24AP25FBS	Plug/Male	1/4	1/4	1/4-19	BSPP	Steel	2	1.46	0.79	0.69	37.08	20.07	17.53		