

GD-10, GD-10F, AF-10

For Air and Non-Corrosive Gases

The GD-10/10F is a lightweight direct acting diaphragm valve used primarily for pneumatic tool air supply and non-hazardous gas regulation. Screwed connections make it easy to support in position without external sensing lines or other parts. Zinc or aluminum bodies eliminate rust and scale. Plug, seat and diaphragm are renewable in-line, and you can make quick adjustments externally with locking handle. Quarter-inch pressure gauge connection is standard, and all units are capable of tight shutoff for dead-end service.

GD-10 available in sizes 1/4" - 2." Highly efficient Model AF-10 air filters with zinc or aluminum bodies are used to remove liquids and solid particles from compressed air. The AF-10 is available in sizes 1/4" - 1"

For a fully detailed certified drawing, refer to list below.

GD-10 CDY #1003

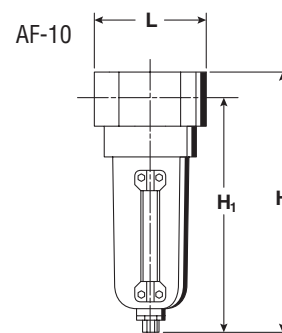
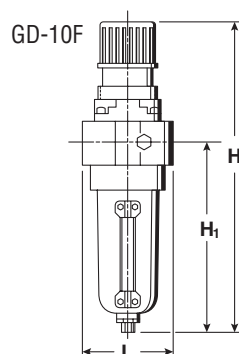
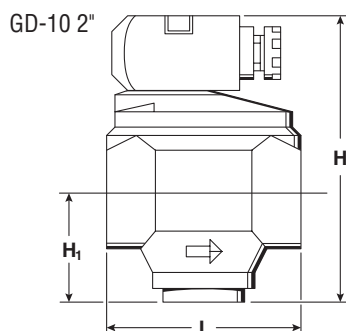
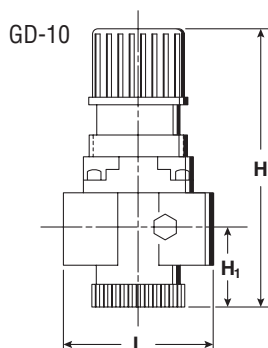
GD-10F CDY #1002

AF-10 CDY #1004

GD-10/GD-10F/AF-10 Specifications										
Model	Application	Inlet Pres. psig (bar)	Reduced Pressure psig (bar)	Min. Differ. psig (bar)	Max. Temp. °F (°C)	Materials				
						Body in (mm)	Bowl	Main Valve in (mm)	Valve Plug in (mm)	Diaphragm
GD-10	Air and Other Non-Corrosive Gases	15 - 300 (1 - 20)	5 - 125 (.34 - 8.6)	7 (.48)	175 (79)	Zinc 1/4, 3/8, 1/2, 3/4 (6, 9, 15, 20) Aluminum 1 - 2 (25 - 50)	—	Zinc 1/4, 3/8, 1/2, 3/4 (6, 9, 15, 20) Aluminum 1 - 2 (25 - 50)	Brass 1/4, 3/8, 1/2, 3/4 (6, 9, 15, 20) Nylon 1 - 2 (25 - 50)	Nitrile
GD-10F		15 - 250 (1 - 17)	5 - 125 (.34 - 8.6)	7 (.48)		Zinc			Brass	Nitrile
AF-10		0 - 250 (0 - 17)	—	—		Zinc 1/4, 3/8, 1/2, 3/4 (6, 9, 15, 20) Aluminum 1 (25)	—	—	—	—

Pressure and
Temperature Controls

GD-10 Dimensions and Weights												
Symbol	Connection Size											
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
	1/4	8	3/8	10	1/2	15	3/4	20	1, 1-1/4, 1-1/2	25, 32, 40	2	50
L	2-5/8	67	2-5/8	67	2-5/8	67	3-1/2	98	4-1/4	108	6	152
H	5-3/8	136	5-3/8	136	5-3/8	136	5-7/8	149	7-1/8	181	9-3/4	248
H ₁	1-1/2	38	1-1/2	38	1-1/2	38	1-1/2	38	2-3/8	60	3-9/16	90
Wt, lb (kg)	1-1/2 (.7)		1-1/2 (.7)		1-1/2 (.7)		2 (.9)		3 (1.4)		10 (4.5)	
C _v	1.4		1.4		1.4		2.6		5.8		43	



GD-10/GD-10F Capacities—Air

scfm					
Inlet	Outlet	Connection Size			
		in			
psig		1/4, 3/8, 1/2	3/4	1*, 1-1/4, 1-1/2	2**
15	8	19	35	78	580
30	23	24	44	98	727
	15	33	61	136	1,011
40	5 - 7	38	70	157	1,166
	33	26	49	109	810
50	20	42	77	173	1,280
	5 - 12	46	86	192	1,427
75	40	34	63	141	1,046
	30	46	86	191	1,416
100	5 - 17	55	102	228	1,687
	60	49	91	203	1,503
125	45	66	123	273	2,026
	7 - 30	76	141	316	2,339
150	80	64	118	264	1,958
	60	86	159	355	2,634
175	10 - 42	97	181	403	2,991
	100	79	146	326	2,413
200	75	106	196	437	3,241
	13 - 55	119	220	491	3,643
250†	120	93	173	387	2,868
	85	129	240	535	3,967
300	15 - 67	140	260	579	4,295
	125	126	235	524	3,884
350**	100	149	276	617	4,573
	18 - 80	161	299	667	4,947
425**	125	161	298	666	4,934
	20 - 92	182	339	755	5,599
250†	25 - 125	225	417	931	6,903
300	30 - 125	267	496	1,107	8,207
350**	35 - 125	—	—	—	9,511
425**	43 - 125	—	—	—	11,467

m³/hr					
Inlet	Outlet	Connection Size			
		mm			
bar		8, 10, 15	20	25*, 32, 40	50**
1.0	0.6	32	60	133	985
2.0	1.6	40	75	167	1,235
	1.0	56	104	232	1,718
2.8	.34 - 48	64	120	267	1,981
	2.3	45	83	186	1,377
3.4	1.4	71	131	293	2,174
	.34 - .83	79	147	327	2,424
5.2	2.8	58	107	240	1,777
	2.1	78	145	324	2,405
6.9	.34 - 1.17	93	173	387	2,867
	4.1	83	154	344	2,553
8.6	3.1	112	208	464	3,442
	.48 - 2.1	129	240	536	3,975
10.3	5.5	108	201	449	3,327
	4.1	146	271	604	4,475
12.1	.69 - 2.9	165	307	686	5,082
	6.9	134	248	553	4,101
13.8	5.2	179	333	743	5,507
	.89 - 3.8	202	374	835	6,190
17.2†	8.3	159	295	657	4,873
	5.9	219	408	909	6,741
20.0	1.03 - 4.6	238	441	984	7,298
	8.6	215	399	890	6,599
24.1**	6.9	253	470	1,048	7,769
	1.24 - 5.5	274	508	1,134	8,405
29.3**	8.6	273	507	1,131	8,383
	1.38 - 6.3	310	575	1,283	9,513
17.2†	1.7 - 8.6	382	709	1,582	11,729
20.0	2.1 - 8.6	454	843	1,881	13,944
24.1**	2.4 - 8.6	—	—	—	16,159
29.3**	3.0 - 8.6	—	—	—	19,482

* GD-10F not available above 3/4" (20 mm).

** 2" (50 mm) GD-10 valve maximum inlet pressure is 425 psi (30 bar).

† GD-10F has a maximum inlet pressure of 250 psi (17 bar).

GD-10F Dimensions and Weights

Symbol	Connection Size							
	in	mm	in	mm	in	mm	in	mm
	1/4	8	3/8	10	1/2	15	3/4	20
L	2-3/4	70	2-3/4	70	2-3/4	70	3-7/8	98
H	9-3/8	238	9-3/8	238	9-3/8	238	10-7/8	276
H ₁	5-3/4	146	5-3/4	146	5-3/4	146	6-3/8	162
Wt, lb (kg)	2-1/2 (1.2)	2-1/2 (1.2)	4-1/2 (2.0)	4-1/2 (2.0)				
C _v	1.4				2.6			

AF-10 Dimensions and Weights

Symbol	Connection Size									
	in	mm	in	mm	in	mm	in	mm	in	mm
	1/4	8	3/8	10	1/2	15	3/4	20	1	25
L	2-3/4	70	2-3/4	70	2-3/4	70	3-7/8	98	4-3/4	121
H	6-3/8	162	6-3/8	162	6-3/8	162	7	178	11-3/8	289
H ₁	5-3/4	146	5-3/4	146	5-3/4	146	6-3/8	162	10	254
Wt, lb (kg)	2 (.9)					3 (1.4)				

