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

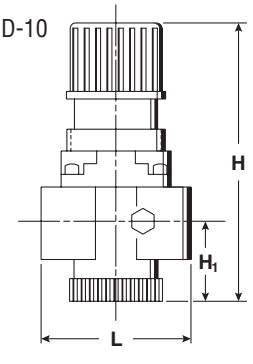
GD-10/GD-10F/AF-10 Specifications

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)		—	—	—

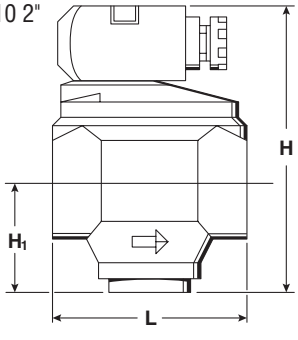
GD-10 Dimensions and Weights

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						2.6		5.8		43	

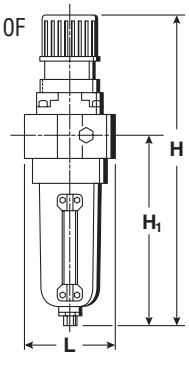
GD-10



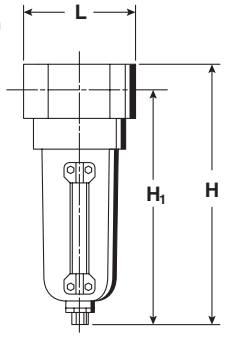
GD-10 2"



GD-10F



AF-10



Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit www.armstronginternational.com for up-to-date information.

GD-10/GD-10F Capacities—Air

scfm						m³/hr					
Inlet	Outlet	Connection Size in				Inlet	Outlet	Connection Size mm			
psig		1/4, 3/8, 1/2	3/4	1*, 1-1/4, 1-1/2	2**	bar		8, 10, 15	20	25*, 32, 40	50**
15	8	19	35	78	580	1.0	0.6	32	60	133	985
30	23	24	44	98	727	2.0	1.6	40	75	167	1,235
	15	33	61	136	1,011		1.0	56	104	232	1,718
	5 - 7	38	70	157	1,166		.34 - 48	64	120	267	1,981
40	33	26	49	109	810	2.8	2.3	45	83	186	1,377
	20	42	77	173	1,280		1.4	71	131	293	2,174
	5 - 12	46	86	192	1,427		.34 - .83	79	147	327	2,424
50	40	34	63	141	1,046	3.4	2.8	58	107	240	1,777
	30	46	86	191	1,416		2.1	78	145	324	2,405
	5 - 17	55	102	228	1,687		.34 - 1.17	93	173	387	2,867
75	60	49	91	203	1,503	5.2	4.1	83	154	344	2,553
	45	66	123	273	2,026		3.1	112	208	464	3,442
	7 - 30	76	141	316	2,339		.48 - 2.1	129	240	536	3,975
100	80	64	118	264	1,958	6.9	5.5	108	201	449	3,327
	60	86	159	355	2,634		4.1	146	271	604	4,475
	10 - 42	97	181	403	2,991		.69 - 2.9	165	307	686	5,082
125	100	79	146	326	2,413	8.6	6.9	134	248	553	4,101
	75	106	196	437	3,241		5.2	179	333	743	5,507
	13 - 55	119	220	491	3,643		.89 - 3.8	202	374	835	6,190
150	120	93	173	387	2,868	10.3	8.3	159	295	657	4,873
	85	129	240	535	3,967		5.9	219	408	909	6,741
	15 - 67	140	260	579	4,295		1.03 - 4.6	238	441	984	7,298
175	125	126	235	524	3,884	12.1	8.6	215	399	890	6,599
	100	149	276	617	4,573		6.9	253	470	1,048	7,769
	18 - 80	161	299	667	4,947		1.24 - 5.5	274	508	1,134	8,405
200	125	161	298	666	4,934	13.8	8.6	273	507	1,131	8,383
	20 - 92	182	339	755	5,599		1.38 - 6.3	310	575	1,283	9,513
250†	25 - 125	225	417	931	6,903	17.2†	1.7 - 8.6	382	709	1,582	11,729
300	30 - 125	267	496	1,107	8,207	20.0	2.1 - 8.6	454	843	1,881	13,944
350**	35 - 125	—	—	—	9,511	24.1**	2.4 - 8.6	—	—	—	16,159
425**	43 - 125	—	—	—	11,467	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)	



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