

For Air, Water, Non-Corrosive and Non-Viscous Liquids

The GD-200/200H offers high capacity and highly accurate control with a large, cupped diaphragm for a long stroke. Compact and rugged, the GD-200's composition valve and stainless steel seat mean high performance over a long service life. Well suited to non-viscous liquid pressure reduction, the valve is widely applied in domestic water

applications, construction equipment, irrigation, tank car loading and industrial or commercial air conditioning. Upstream variations do not affect balanced pressure valve, and composition disc assures tight shutoff. Turndown ratio is 10:1, and sizes range from 2" through 6". ANSI Class IV Shutoff.

GD-200/200H Specifications

Model Number	Pressure			Spring Color	Application	Max. Temp. °F (°C)	Min. Diff. psig (bar)	Materials				
	Inlet psig (bar)	Reduced psig (bar)						Body	Main Valve	Valve Seat	Diaphragm	Connection
		2" - 3" (50 - 80 mm)	4" - 6" (100 - 150 mm)									
GD-200	150 (10)	7 - 36 (.48 - 2.5) 37 - 100 (2.5 - 6.9)	7 - 36 (.48 - 2.5) 37 - 72 (2.5 - 5.0)	Yellow	Liquid Gas	175 (79)**	7 (.48)	Ductile Iron ASTM A536	NBR	Stainless Steel AISI 304	NBR***	ANSI 150 lb. Flg.
GD-200H	300 (20)	*72 - 130 (4.9 - 8.8)	*72 - 108 (4.9 - 7.3)	Black								ANSI 300 lb. Flg.

*This spring range for GD-200H only.

**With Viton® diaphragm maximum temperature is 210°F (99°C).

***Viton optional.

GD-200/200H Capacities—Air

scfm								m3/hr							
Inlet	Outlet	Connection Size						Inlet	Outlet	Connection Size					
		in								mm					
psig		2	2-1/2	3	4	5	6	bar		50	65	80	100	125	150
15	8	216	377	485	917	1,011	1,456	1.03	0.55	366	641	824	1,557	1,718	2,473
20	13	235	412	530	1,000	1,103	1,589	1.38	0.90	400	700	900	1,699	1,874	2,699
	7	305	534	686	1,296	1,429	2,058		0.48	518	907	1,166	2,202	2,428	3,497
25	18	254	444	570	1,077	1,188	1,711	1.72	1.24	431	754	969	1,831	2,019	2,907
	7	374	655	842	1,591	1,755	2,527		0.48	636	1,113	1,431	2,703	2,981	4,293
30	23	270	473	609	1,149	1,268	1,826	2.07	1.59	459	804	1,034	1,953	2,154	3,102
	7	440	770	990	1,870	2,063	2,970		0.48	748	1,308	1,682	3,178	3,505	5,047
40	32	321	561	722	1,363	1,503	2,165	2.76	2.21	545	954	1,226	2,316	2,554	3,678
	20	476	833	1,071	2,024	2,232	3,214		1.38	459	804	1,034	1,953	2,154	3,102
	7 - 12	531	929	1,194	2,256	2,488	3,583		.48 - .83	902	1,578	2,029	3,833	4,227	6,087
50	40	389	681	875	1,654	1,824	2,626	3.45	2.76	661	1,157	1,487	2,810	3,099	4,462
	30	527	922	1,185	2,239	2,469	3,555		2.07	809	1,416	1,820	3,438	3,792	5,461
	7 - 17	628	1,099	1,413	2,668	2,943	4,238		.48 - 1.17	1,067	1,867	2,400	4,534	5,000	7,200
60	48	457	800	1,029	1,943	2,143	3,086	4.14	3.31	777	1,360	1,748	3,302	3,642	5,244
	35	628	1,099	1,413	2,669	2,944	4,239		2.41	895	1,566	2,014	3,803	4,195	6,041
	7 - 22	725	1,269	1,631	3,081	3,398	4,893		.48 - 1.5	1,232	2,155	2,771	5,234	5,773	8,313
75	60	559	979	1,258	2,377	2,621	3,775	5.17	4.14	950	1,663	2,138	4,038	4,453	6,413
	45	754	1,319	1,696	3,204	3,534	5,089		3.10	1,067	1,867	2,401	4,535	5,001	7,202
	7 - 30	870	1,523	1,959	3,699	4,080	5,876		.48 - 2.1	1,479	2,588	3,328	6,285	6,932	9,983
100	80	729	1,275	1,640	—	—	—	6.89	5.52	1,238	2,167	2,786	—	—	—
	60	980	1,715	2,205	4,166	4,594	6,616		4.14	1,281	2,241	2,882	5,444	6,004	8,646
	10 - 42	1,113	1,948	2,504	4,730	5,217	7,513		.69 - 2.9	1,891	3,309	4,255	8,037	8,864	12,765
125	100	898	1,572	2,021	—	—	—	8.62	6.89	1,526	2,670	3,433	—	—	—
	70	1,206	2,111	2,714	5,317	5,864	8,444		5.17	1,665	2,914	3,747	7,077	7,806	11,241
	13 - 55	1,356	2,372	3,050	5,762	6,355	9,151		.89 - 3.8	2,303	4,031	5,182	9,789	10,796	15,547
150	100	1,331	2,329	2,995	—	—	—	10.34	6.89	2,261	3,957	5,088	—	—	—
	80	1,517	2,655	3,414	—	—	—		5.52	2,049	3,586	4,610	—	—	—
	15 - 67	1,598	2,797	3,596	6,793	7,492	10,788		1.03 - 4.6	2,715	4,752	6,110	11,541	12,729	18,329
180	100	1,772	3,100	3,986	—	—	—	12.41	6.89	3,010	5,268	6,773	—	—	—
	90	1,848	3,235	4,159	—	—	—		6.21	2,578	4,512	5,801	—	—	—
	18 - 80	1,889	3,306	4,251	8,030	8,856	12,753		1.24 - 5.5	3,210	5,618	7,223	13,643	15,047	21,668
200	100	2,044	3,577	4,598	—	—	—	13.79	6.89	3,472	6,077	7,813	—	—	—
	20 - 92	2,083	3,646	4,688	8,855	9,766	14,063		1.38 - 6.3	3,540	6,195	7,965	15,044	16,593	23,894
250	25 - 100	2,569	4,495	5,779	10,917	12,041	17,338	17.24	1.72 - 6.9	4,364	7,637	9,819	18,548	20,457	29,458
300	25 - 100	3,054	5,344	6,871	12,979	14,315	20,613	20.00	1.72 - 6.9	5,188	9,080	11,674	22,051	24,321	35,022

NOTE: Maximum pressure reduction ratio 10:1.

NOTES: Available in sizes below 2" upon request. Differential valve (GD-21) available upon request.

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

GD-200/200H

GD-200/200H Capacities—Water

gpm								l/min						
ΔP	Connection Size							ΔP	Connection Size					
	in								mm					
DP (psig)	2	2-1/2	3	4	5	6		DP (bar)	50	65	80	100	125	150
7	42	74	95	180	198	286	0.5	160	280	361	681	751	1,082	
10	51	89	114	215	237	342	0.7	192	335	431	814	898	1,293	
15	62	108	139	263	290	418	1.0	235	411	528	997	1,100	1,583	
20	72	125	161	304	335	483	1.4	271	474	609	1,151	1,270	1,828	
25	80	140*	180	340	375	540	1.7	303	530*	681	1,287	1,420	2,044	
35	95*	166	213*	402*	444	639	2.4	360*	627	806*	1520*	1,680	2,419	
50	113	198	255	481	530*	764	3.4	428	749	964	1,820	2,006*	2,891	
75	139	242	312	589	650	900*	5.2	525	918	1,180	2,229	2,459	3,407*	
100	160	280	360	680	750	1,080	6.9	606	1,060	1,363	2,574	2,839	4,088	
125	179	313	402	760	839	1,207	8.6	677	1,185	1,524	2,878	3,174	4,571	
150	196	343	441	833	919	1,323	10.0	742	1,298	1,669	3,153	3,477	5,007	

*At flows greater than this, velocities will exceed 10 ft/sec and pipe erosion could occur.

NOTE: Minimum flow is 1.3 gpm (4.9 l/min).

GD-200/200H Dimensions and Weights

Size		GD-200 Face-to-Face		GD-200H Face-to-Face		A		H		H ₁		C _v	Weight	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		lb	kg
2	50	7-5/8	195	7-7/8	200	6	152	16-1/4	415	3-1/8	81	16	43	19.2
2-1/2	65	10-5/8	270	10-7/8	277	7	178	21-1/2	550	4-1/16	105	28	88	40.0
3	80	10-5/8	270	11-1/8	283	7-1/2	191	22-9/16	577	4-9/16	120	36	97	43.7
4	100	12-1/8	308	12-3/4	342	9	229	25-1/6	637	5-1/4	135	68	154	70.0
5	125	15	380	15-7/8	403	10	254	33	839	6-1/2	169	75	317	144.0
6	150	15-3/4	400	16-5/8	422	11	280	35-9/16	908	7-1/2	194	108	381	173.0

For a fully detailed certified drawing, refer to:

GD-200 CD #2106

GD-200H CD #2107

