

For Steam, Air and Non-Corrosive Gases

The GD-30 is a compact, high performance direct acting valve. Economical to buy and use, it's ideal for those low to moderate flow applications where accuracy of +/-10% is acceptable. The GD-30 is well suited for laundry and dry cleaning equipment, hospital equipment, tire molds, humidifiers, small heaters and applications in food processing. It provides tight shutoff for dead-end service on steam. Turndown ratio is 10:1 and ANSI Class IV Shutoff.

For a fully detailed certified drawing, refer to:

GD-30 (bronze only) CDY #1038

GD-30S (stainless steel) CDY #1089

GD-30/30S Specifications

Model Number	Inlet Pressure psig (barg)	Reduced Pressure psig (barg)	Spring Color	Minimum Differential psig (barg)	Application	Maximum Temp. °F (°C)	Materials		
							Body	Valve/Seat	Bellows
GD-30	15 - 250 (1 - 17)	3 - 15 (.21 - 1.0) 7 - 60 (0.5 - 4.0)	Yellow Blue Green	7 (.48)	Steam, Air, Non-Corrosive Gases	410 (210)	Cast Bronze ASTM B584	Stainless Steel AISI 440/304	Phosphor Bronze ASTM B103*
GD-30S	15 - 300 (1 - 20)	50 - 140 (3.4 - 9.6)			Steam, Air, Non-Corrosive Gases	430 (220)	Stainless Steel AISI 316		Stainless Steel AISI 316L

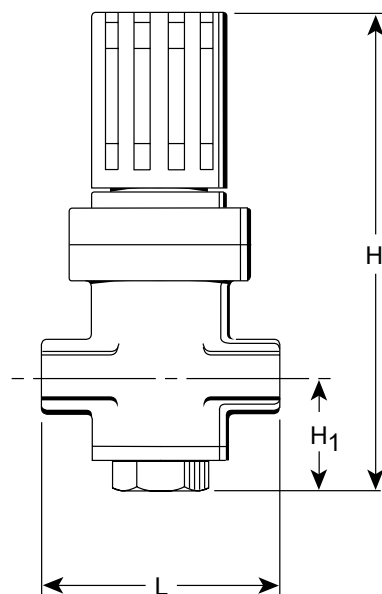
*Stainless steel optional

GD-30/30S Dimensions and Weights

Symbol	Connection Size									
	in	mm	in	mm	in	mm	in	mm	in	mm
	1/2	15	3/4	20	1	25	1-1/2*	40	2*	50
L	3-1/8	80	3-3/8	85	3-3/4	95	5-1/2	140	5-7/8	150
H ₁	2	47	2	47	2	47	3	77	3	77
H	7-1/2	191	7-1/2	191	7-1/2	191	12-1/8	307 1	2-1/8	307
Weight lb (kg)	4-1/4 (1.9)		4-1/4 (1.9)		4-1/2 (2.0)		21-3/8 (9.7)		22 (10)	
C _v	1.3		1.5		2.5		5.6		8.5	

NOTE: GD-30 capacities cannot be determined with a formula—consult capacity tables. Reference note under formula key on page 275.

*GD-30S available in 1/2", 3/4", and 1" only.



GD-30 Capacities—Steam

	lb/hr							kg/hr							
	Inlet	Outlet	Connection Size					Inlet	Outlet	Connection Size					
			in							mm					
	psig		1/2	3/4	1	1-1/2		2	barg		15	20	25	40	50
	C _v Factor		1.3	1.5	2.5	5.6		8.5	C _v Factor		1.3	1.5	2.5	5.6	8.5
GD-30S Only	15	7	49	56	92	198	297	1.0	.5	22	25	42	90	135	
	20	13	53	61	105	216	331	1.4	.9	24	28	48	98	150	
		7	42	55	63	180	264		.5	19	25	35	82	120	
	30	23	62	71	112	242	408	2.0	1.6	28	32	51	110	185	
		15	53	60	101	209	309		1.0	24	27	46	95	140	
		3	33	40	60	139	216		.2	15	18	27	63	98	
	40	32	99	121	187	407	617	2.8	2.2	45	55	85	185	280	
		20	79	97	159	330	517		1.4	36	44	72	150	235	
		4	40	55	77	159	264		.3	18	25	35	72	120	
	50	40	130	143	242	539	837	3.4	2.8	59	65	110	245	380	
		20	99	115	187	407	628		1.4	45	52	85	185	285	
		5	48	62	88	193	297		.3	22	28	40	88	135	
	60	48	137	154	265	584	899	4.0	3.3	62	70	120	265	408	
		40	150	165	289	617	969		2.8	68	75	131	280	440	
		18	90	104	170	374	584		1.2	41	47	77	170	265	
		6	55	73	99	220	331		.4	25	33	45	100	150	
	80	64	176	205	342	738	1168	5.5	4.4	80	93	155	335	530	
		54	187	225	353	782	1201		3.7	85	102	160	355	545	
		23	121	137	220	489	749		1.6	55	62	100	222	340	
		8	60	77	108	231	363		.5	27	35	49	105	165	
100	80	203	242	397	863	1355	6.9	5.5	92	110	180	392	615		
	66	225	262	437	958	1465		4.5	102	119	198	435	665		
	40	198	231	375	837	1278		2.8	90	105	170	380	580		
	10	68	79	132	297	473		.7	31	36	60	135	215		
120	96	231	276	452	991	1520	8.3	6.6	105	125	205	450	690		
	70	276	311	518	1168	1818		4.8	125	141	235	530	825		
	45	240	267	450	980	1509		3.1	109	121	204	445	685		
	12	110	121	198	462	705		.8	50	55	90	210	320		
150	120	287	333	551	1212	1862	10.3	8.3	130	151	250	550	845		
	85	364	421	705	1531	2369		5.9	165	191	320	695	1075		
	55	298	353	595	1278	2005		3.8	135	160	270	580	910		
	15	132	165	254	562	848		1.0	60	75	115	255	385		
180	140	408	485	794	1719	2677	12.4	9.7	185	220	360	780	1215		
	115	430	507	860	1829	2832		8.0	195	230	390	830	1285		
	70	386	430	739	1619	2501		4.8	175	195	335	735	1135		
	18	165	187	309	683	1035		1.2	75	85	140	310	470		
200	140	461	518	871	1983	3063	13.8	9.7	209	235	395	900	1390		
	115	474	540	904	2005	3085		8.0	215	245	410	910	1400		
	80	430	496	827	1818	2810		5.5	195	225	375	825	1275		
	20	209	242	386	848	1300		1.4	95	110	175	385	590		
225	140	485	573	948	2060	3195	15.5	9.7	220	260	430	935	1450		
	115	496	584	961	2071	3207		8.0	225	265	436	940	1455		
	85	463	540	904	1983	3063		5.9	210	245	410	900	1390		
	23	254	298	496	1079	1675		1.6	115	135	225	490	760		
250	140	525	606	1014	2226	3438	17.2	9.7	238	275	460	1010	1560		
	120	551	584	1038	2248	3471		8.3	250	265	471	1020	1575		
	70	463	529	893	1939	2997		4.8	210	240	405	880	1360		
	25	276	320	529	1146	1796		1.7	125	145	240	520	815		
275	140	529	613	1023	—	—	18.9	9.7	240	278	464	—	—		
	120	529	613	1023	—	—		8.3	240	278	464	—	—		
	70	470	542	902	—	—		4.8	213	246	409	—	—		
	28	295	344	562	—	—		1.9	134	156	255	—	—		
300	140	529	613	1023	—	—	20.0	9.7	240	278	464	—	—		
	100	529	613	1023	—	—		6.9	240	278	464	—	—		
	70	478	551	926	—	—		4.8	217	250	420	—	—		
	30	309	359	595	—	—		2.7	140	163	270	—	—		

NOTE: For air capacities scfm, multiply steam capacities (lb/hr) by 0.36. For air capacities m3/hr, multiply steam capacities (kg/hr) by 1.35. Maximum pressure reduction ratio 10:1.

Pressure and
Temperature Controls