

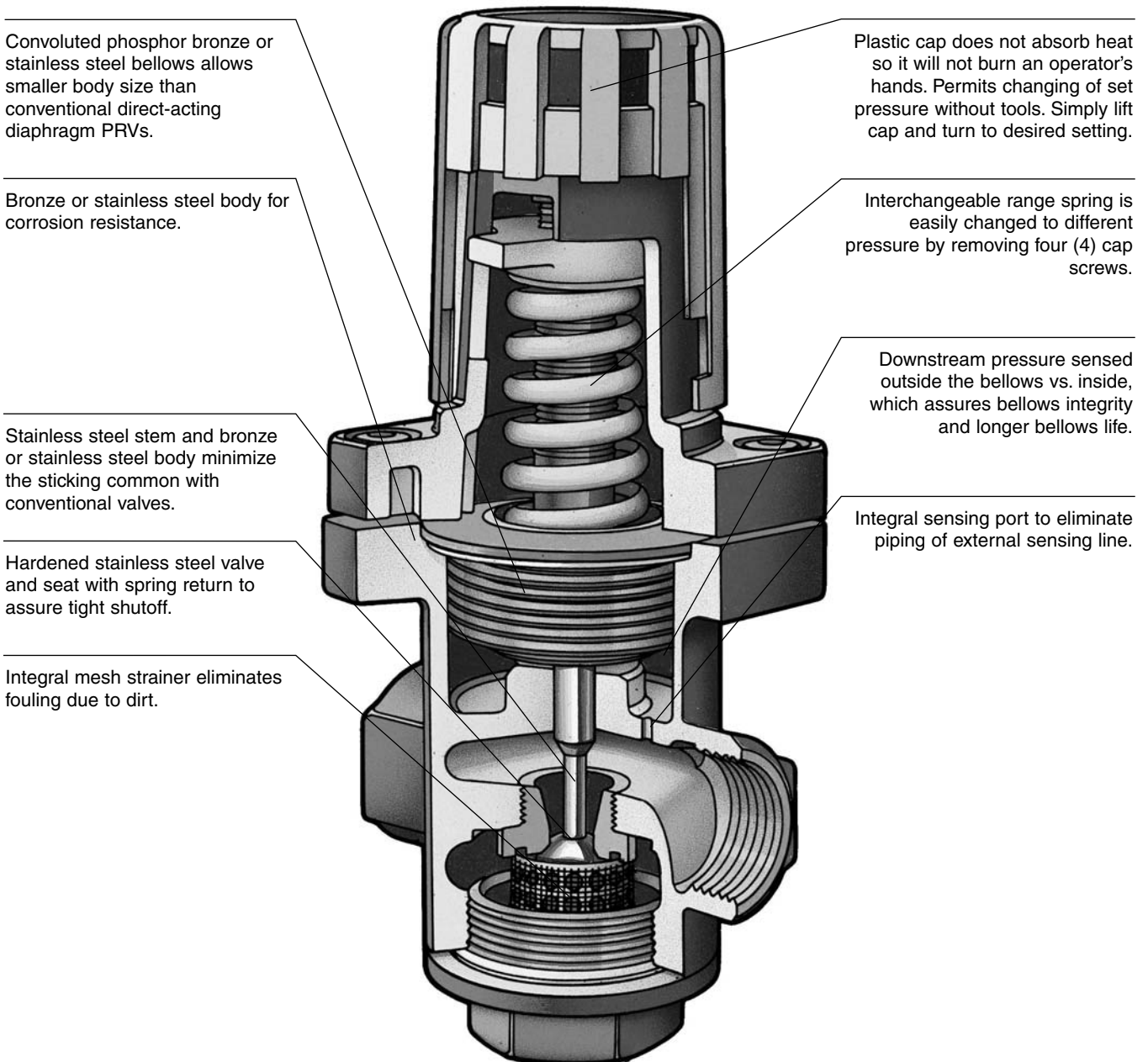
Direct Acting



For Steam, Air and Non-Corrosive Gas Service

The simplest of all pressure reducing valves, the direct acting type operates with convoluted bellows. Since it is self-contained, it does not need an external sensing line

downstream to operate. It is the smallest and most economical of the two types and is designed for low to moderate flows. Accuracy of direct acting PRVs is typically $\pm 10\%$.



Pressure and Temperature Controls

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 $\pm 10\%$ 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.

Table PTC-258-1. GD-30 Specifications

Application	Inlet Pressure (barg)	Reduced Pressure (barg)	Spring color	Minimum Differential (barg)	Maximum Temperature (°C)	Materials		
						Body	Valve/Seat	Bellows
Steam Air Non-corrosive gases	1 - 17	0,2 - 1,0	Yellow	0,5	210	Cast Bronze ASTM B584	Stainless Steel AISI 440/304	Phosphor Bronze*
		0,5 - 4,0	Blue					
		3,5 - 10,0	Green					

* Stainless steel optional.

Table PTC-258-2. GD-30/30S Dimensions and Weights

Connection Size	1/2" - 15	3/4" - 20	1" - 25	1 1/2" - 40	2" - 50
L	80	85	95	140	150
L ₁	150	150	160	272	288
H ₁	47	47	47	77	77
H	190	190	190	307	307
Weight BSPT (kg)	1,9	1,9	2,0	8,1	8,5
Weight Flanged (kg)	3,5	4,0	4,5	12,8	15,1
Cv	1,3	1,5	2,5	5,6	8,5

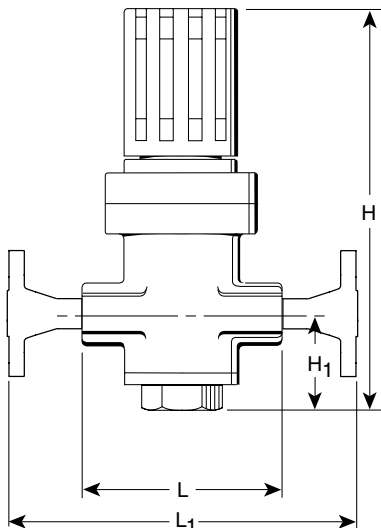
Note: GD-30 capacities cannot be determined with a formula - consult capacity tables. Reference note inside of table PTC-272-1.

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

All sizes comply with the article 3.3 of the PED (97/23/EC).

Table PTC-258-3. GD-30S Specifications

Application	Inlet Pressure (barg)	Reduced Pressure (barg)	Spring color	Minimum Differential (barg)	Maximum Temperature (°C)	Materials		
						Body	Valve/Seat	Bellows
Steam	1 - 21	0,2 - 1,0	Yellow	0,5	220	Stainless Steel AISI 304 (316 Optional)	Stainless Steel AISI 440/304	Stainless Steel AISI 316L
		0,5 - 4,0	Blue					
		3,6 - 10,0	Green					



All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.

Table PTC-259-1. GD-30/30S Capacities - Steam

Inlet Pressure	Outlet Pressure	Steam load (kg/h)									
		Connection Size									
bar		1/2"	DN15	3/4"	DN20	1"	DN25	1 1/2"	DN40	2"	DN50
1	0,5	22	22	25	25	42	42	90	90	135	135
1,5	0,9	24	24	28	28	48	48	98	98	150	150
	0,5	19	19	25	25	35	35	82	82	120	120
2	1,6	28	28	32	32	51	51	110	110	185	185
	1,4	24	24	27	27	46	46	95	95	140	140
	0,2	15	15	18	18	27	27	63	63	98	98
3	2,2	45	45	55	55	85	85	185	185	280	280
	1,4	36	36	44	44	72	72	150	150	235	235
	0,3	18	18	25	25	35	35	72	72	120	120
3,5	2,8	59	59	65	65	110	110	245	245	380	380
	1,4	45	45	52	52	85	85	185	185	285	285
	0,3	22	22	28	28	40	40	88	88	135	135
4	3,3	62	62	70	70	120	120	265	265	408	408
	2,8	68	68	75	75	131	131	280	280	440	440
	1,2	41	41	47	47	77	77	170	170	265	265
	0,4	25	25	33	33	45	45	100	100	150	150
5,5	4,4	80	80	93	93	155	155	335	335	530	530
	3,7	85	85	102	102	160	160	355	355	545	545
	1,6	55	55	62	62	100	100	222	222	340	340
	0,5	27	27	35	35	49	49	105	105	165	165
7	5,5	92	92	110	110	180	180	392	392	615	615
	4,5	102	102	119	119	198	198	435	435	665	665
	2,8	90	90	105	105	170	170	380	380	580	580
	0,7	31	31	36	36	60	60	135	135	215	215
8,5	6,6	105	105	125	125	205	205	450	450	690	690
	4,8	125	125	141	141	235	235	530	530	825	825
	3,1	109	109	121	121	204	204	445	445	685	685
	0,8	50	50	55	55	90	90	210	210	320	320
10,5	8,3	130	130	151	151	250	250	550	550	845	845
	5,9	165	165	191	191	320	320	695	695	1 075	1 075
	3,8	135	135	160	160	270	270	580	580	910	910
	1,0	60	60	75	75	115	115	255	255	385	385
12,5	9,7	185	185	220	220	360	360	780	780	1 215	1 215
	8,0	195	195	230	230	390	390	830	830	1 285	1 285
	4,8	175	175	195	195	335	335	735	735	1 135	1 135
	1,2	75	75	85	85	140	140	310	310	470	470
14	9,7	209	209	235	235	395	395	900	900	1 390	1 390
	8,0	215	215	245	245	410	410	910	910	1 400	1 400
	5,9	195	195	225	225	375	375	825	825	1 275	1 275
	1,6	95	95	110	110	175	175	385	385	590	590
15,5	9,7	220	220	260	260	430	430	935	935	1 450	1 450
	8,0	225	225	265	265	436	436	940	940	1 455	1 455
	5,9	210	210	245	245	410	410	900	900	1 390	1 390
	1,6	115	115	135	135	225	225	490	490	760	760
17	9,7	238	238	275	275	460	460	1 010	1 010	1 560	1 560
	8,3	250	250	265	265	471	471	1 020	1 020	1 575	1 575
	4,8	210	210	240	240	405	405	880	880	1 360	1 360
	1,7	125	125	145	145	240	240	520	520	815	815
GD-30S Only 19	9,7	240	240	278	278	464	464				
	8,3	240	240	278	278	464	464				
	4,8	213	213	246	246	409	409				
	1,9	134	134	156	156	255	255				
GD-30S Only 21	9,7	240	240	278	278	464	464				
	6,9	240	240	278	278	464	464				
	4,8	217	217	250	250	420	420				
	2,7	140	140	163	163	270	270				

Note : For air capacities in Nm³/h, multiply steam capacities by 1,2.
 Maximum pressure reduction ratio 10:1.
 Shade indicates capacities available with bronze GD-30 only.

Pressure and Temperature Controls