

For Steam Back Pressure Regulation

The GP-2000R is a high performance externally piloted throttling back pressure valve for large capacity applications. Typical applications would include those systems utilizing flash steam for low pressure heating or processes. The GP-2000R valves will function to maintain a constant upstream pressure. This valve is not a safety valve and should not be used for that purpose.

For a fully detailed certified drawing, refer to:

GP-2000R Threaded

CDY #1018

GP-2000R Flanged

CDY #1019

GP-2000R Specifications

Application	Inlet Pressure psig (bar)	Relieving Pressure psig (bar)	Spring Color	Maximum Temperature °F (°C)	Minimum Differential psig (bar)	Materials				
						Body	Main Valve/Seat	Pilot Valve/ Seat	Diaphragm	Color
Steam	NPT 3 - 200 (.21 - 13.8)	3 - 21 (.21 - 1.4)	Yellow	450 (232)	3 (.21)*	Ductile Iron ASTM A536	Stainless Steel AISI 420		Stainless Steel AISI 301	Dark Gray
	150 lb Flanged 3 - 185 (.21 - 13)	14 - 157 (1.0 - 11.0)	Green							
	300 lb Flanged 3 - 200 (.21 - 13.8)	143 - 200 (10 - 13.8)	Brown							

*If used for a 3-15 psig set point, outlet pressure must be 0 psig.

GP-2000R Dimensions

Size		Face-to-Face “L”						A		F		H Integral		H Remote		H ₁	
		NPT		150#		300#											
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
1/2	15	5-15/16	150	5-9/16	141	5-3/4	147	7-15/16	200	6-7/8	176	15-3/4	398	14-1/4	362	6-3/4	170
3/4	20	5-15/16	150	5-1/2	140	5-3/4	147	7-15/16	200	6-7/8	176	15-3/4	398	14-1/4	362	6-3/4	170
1	25	6-5/16	160	5-3/4	147	6-1/4	159	8-15/16	226	7-1/16	179	15-15/16	404	14-7/16	367	6-15/16	175
1-1/4	32	7-1/8	180	6-1/2	166	7-1/16	179	8-15/16	226	7-7/16	188	17-1/8	434	15-1/8	384	7-5/8	192
1-1/2	40	7-1/8	180	7-7/16	189	7-15/16	202	8-15/16	226	7-7/16	188	17-1/8	434	15-1/8	384	7-5/8	192
2	50	9-1/8	230	8-9/16	217	9-1/8	232	10-15/16	276	7-11/16	195	19-5/8	498	16	406	8-1/2	216
2-1/2	65	—	—	10-15/16	278	11-1/2	292	13-13/16	352	8-5/16	211	21-3/4	552	17-5/16	440	9-13/16	251
3	80	—	—	11-3/4	298	12-7/16	316	13-13/16	352	8-3/4	222	22-5/8	575	17-15/16	456	10-7/16	264
4	100	—	—	13-1/2	343	14-1/8	359	15-13/16	401	9-7/16	239	25-15/16	658	20-1/8	511	12-5/8	321
6	150	—	—	18-1/8	460	19	483	19-3/4	502	—	—	31-3/4	806	—	—	26-1/2	673

GP-2000R Weights

Size		Weight						C _v *
		NPT		150#		300#		
in	mm	lb	kg	lb	kg	lb	kg	
1/2	15	34	14	36	15	42	19	5
3/4	20	34	14	36	15	42	19	7.2
1	25	44	19	48	20	54	23	10.9
1-1/4	32	51	22	53	22	59	25	14.3
1-1/2	40	51	22	55	23	61	26	18.8
2	50	75	33	81	36	84	38	32
2-1/2	65	—	—	142	65	150	68	60
3	80	—	—	155	69	166	75	78
4	100	—	—	247	112	264	120	120
6	150	—	—	509	231	555	253	250

*50% reduced port available for sizes 1/2" - 4".

The C_v value should be divided by 2 to get reduced port C_v.

For capacities see page 305.

