Pietro Fiorentini

6-2020

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

GOVERNOR 10 PSIG

OVER PRESSURE DEVICE (DC) MODEL

Gas Pressure Regulators

Sizes ½" – 2" NPT and 2 1/2" - 4" ANSI 150 Flg.

The GOVERNOR family of regulators are ideal for a wide range of residential through large industrial applications. The materials and soft parts used in the construction of the GOVERNOR regulators make them suitable for use with natural gas, LPG, Propane air and other non-corrosive gases. **NOTE:Do not use the standard Governor 1/2" -1" NPT on High efficiency equipment!**

All GOVERNOR regulators are equipped with balanced valve design for improved high outlet pressure accuracy regardless of Inlet pressure variation. The double diaphragm with integral vent limiter provides added security. The external vent limiter reduces piping costs and the need for costly vent piping for indoor installations and complies with CSA guidelines.* The number of high capacities and regulator options sometimes eliminates the need for separate units and significantly reduces installation costs.

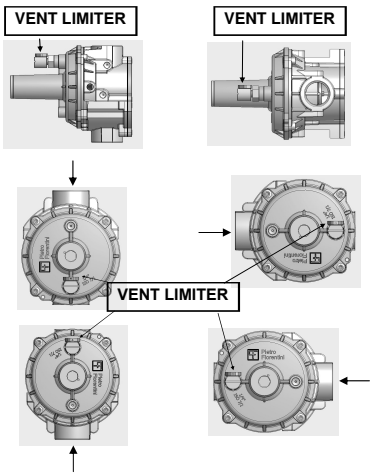
The following Features and Specifications give you Safe, Reliable and High Performance

SPECIFICATIONS

- Internal vent limiter: non removable, for indoor and outdoor installations in any position.
- The DC Governor is a 2 stage design where the first regulator cuts to 1.7 PSIG and the worker regulator cuts to the final set pressure.
- The Governor is CSA Certified external vent limiter option for indoor installations.* Can be installed in any position.
- The Governor incorporates a double molded diaphragm for added safety and greater reliability of service.
- The Governor incorporates a balanced valve design gives you for increase capacity, high 500 to 1 turndown and stable regulation from low to high flows.
- The Governor incorporates a Nitrile valve and a machined orifice that provides complete lockup in absence of gas low, 100% bubble tight shutoff.
- Approved ANSI Z21.80A-2012 / CSA 6.22A-2012 (R2016) Class II for outlet pressures from 2" W.C. to 1 PSIG certified.
- Approved ANSI Z21.18B-2012 / CSA 6.3B-2012 (R2017) for outlet pressure up to 5 PSIG certified
- The Governor incorporates an inlet filter included in all models.
- Temperature Range: -40°F to 150°F
- Inlet Pressure Range: 3 to 10 PSIG
- Max. inlet Pressure: CSA rated and For Non CSA - 10 PSIG
- Maximum Emergency Inlet Exposure Pressure: 80 PSIG
- Suitable for Indoor or Outdoor Installation***
- Connections: 1/2"-1" NPT and 11/4" to 2" NPT 2 1/2" to 4" Flanged
- Suitable for use with Natural Gas, LPG, and other non-corrosive, clean gas.
- Vent connections 1/4 NPT for 1/2 - 1" and 1/2" NPT and 1 1/4" - 4" ANSI Flanged

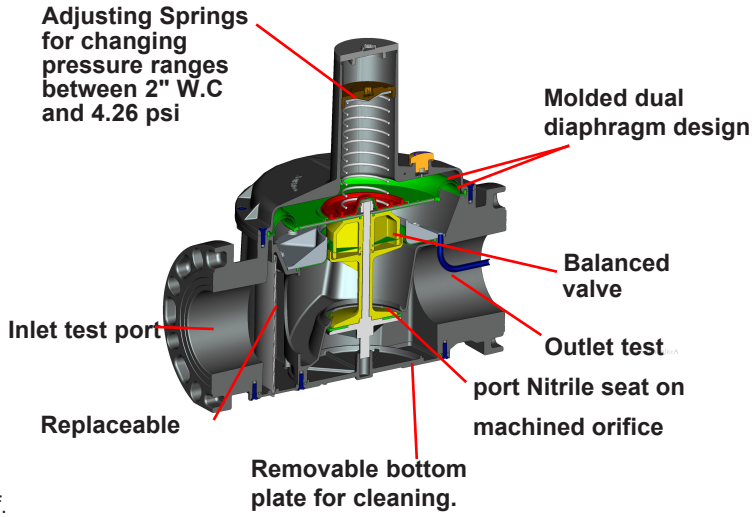


1st cut Worker



Note: Multi vent limiter position approved but flat top must face up.

Basic Design Feature



MATERIALS

- Body & Cover: Aluminum Alloy
- External Coatings: Polyurethane paint upon request
- Diaphragm, O Rings & Valve: Nitrile Rubber
- Diaphragm Pan: Aluminized Steel

**As Approved by Local Codes and Standards

***Brass vent limiter must be removed for outdoor installation

4" ANSI Flanged

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OVER PRESSURE DEVICE (DC) MODEL

CAPACITY IN CFH FOR .60 SPECIFIC GRAVITY GAS WITH FILTER (CAPACITY WITHOUT FILTER IN BRACKETS)

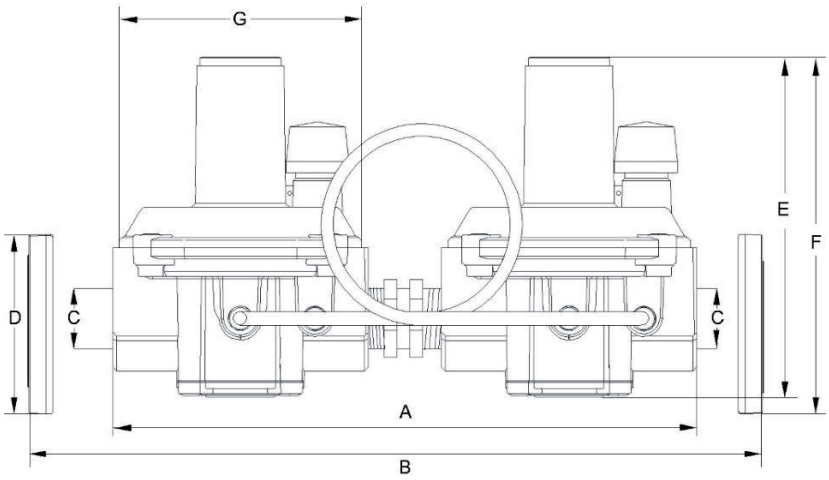
Outlet Pressure Set Point		Operating Inlet Pressure		
		3 PSIG	5 PSIG	10 PSIG
31051 DC ½"	8" W.C.	785 (923)	785 (923)	785 (923)
	11" W.C.	788 (927)	788 (927)	788 (927)
	14" W.C.	790 (930)	790 (930)	790 (930)
31052 DC ¾"	8" W.C.	946 (1,154)	946 (1,154)	946 (1,154)
	11" W.C.	950 (1,158)	950 (1,158)	950 (1,158)
	14" W.C.	953 (1,163)	953 (1,163)	953 (1,163)
31053 DC 1"	8" W.C.	1,270 (1,500)	1,270 (1,500)	1,270 (1,500)
	11" W.C.	1,274 (1,506)	1,274 (1,506)	1,274 (1,506)
	14" W.C.	1,279 (1,512)	1,279 (1,512)	1,279 (1,512)
31150 DC ½" High Capacity	8" W.C.	1,731 (2,193)	1,731 (2,193)	1,731 (2,193)
	11" W.C.	1,738 (2,201)	1,738 (2,201)	1,738 (2,201)
	14" W.C.	1,744 (2,209)	1,744 (2,209)	1,744 (2,209)
31151 DC ¾" High Capacity	8" W.C.	2,020 (2,771)	2,020 (2,771)	2,020 (2,771)
	11" W.C.	2,028 (2,781)	2,028 (2,781)	2,028 (2,781)
	14" W.C.	2,035 (2,791)	2,035 (2,791)	2,035 (2,791)
31152 DC 1" High Capacity	8" W.C.	2,540 (3,290)	2,540 (3,290)	2,540 (3,290)
	11" W.C.	2,549 (3,302)	2,549 (3,302)	2,549 (3,302)
	14" W.C.	2,558 (3,314)	2,558 (3,314)	2,558 (3,314)
31153 DC 1¼"	8" W.C.	5,311 (7,851)	5,311 (7,851)	5,311 (7,851)
	11" W.C.	5,330 (7,880)	5,330 (7,880)	5,330 (7,880)
	14" W.C.	5,350 (7,909)	5,350 (7,909)	5,350 (7,909)
31154 DC 1 ½"	8" W.C.	6,581 (8,197)	6,581 (8,197)	6,581 (8,197)
	11" W.C.	6,605 (8,228)	6,605 (8,228)	6,605 (8,228)
	14" W.C.	6,629 (8,258)	6,629 (8,258)	6,629 (8,258)
31155 DC 2"	8" W.C.	13,278 (15,009)	13,278 (15,009)	13,278 (15,009)
	11" W.C.	13,327 (15,065)	13,327 (15,065)	13,327 (15,065)
	14" W.C.	13,375 (15,120)	13,375 (15,120)	13,375 (15,120)
31156/F DC 2 ½"	8" W.C.	16,741 (19,051)	16,741 (19,051)	16,741 (19,051)
	11" W.C.	16,803 (19,121)	16,803 (19,121)	16,803 (19,121)
	14" W.C.	16,865 (19,191)	16,865 (19,191)	16,865 (19,191)
31157/F DC 3"	8" W.C.	18,473 (23,092)	18,473 (23,092)	18,473 (23,092)
	11" W.C.	18,542 (23,177)	18,542 (23,177)	18,542 (23,177)
	14" W.C.	18,610 (23,262)	18,610 (23,262)	18,610 (23,262)
31158/F DC 4"	8" W.C.	32,906 (40,411)	32,906 (40,411)	32,906 (40,411)
	11" W.C.	32,027 (40,560)	32,027 (40,560)	32,027 (40,560)
	14" W.C.	33,149 (40,709)	33,149 (40,709)	33,149 (40,709)

OUTLET SPRING RANGE

- Green 2" W .C. to 5.1" W.C.*
- Red 2.75" W .C. to 7.87" W.C.*
- Black 6" W.C. to 14" W.C.*
- Yellow 9.8" W.C. to 27.5" W.C.
- Violet 23.6" W.C. to 59" W.C.
- Orange 55" W.C. to 118" W.C.

*Spring is CSA outlet pressure certified
**As Approved by Local Codes and Standards
***Brass vent limiter must be removed for outdoor installation

OVER PRESSURE DEVICE DC MODEL DIMENSIONS



Model	Size	A	B	C	D	E	F	G*	Weight (Lbs)
PF400D	3/8 NPT	8.40	-	3/8	-	3.42	-	3.10	1.18
PF400D	1/2” NPT	8.50	-	1/2	-	3.42	-	3.10	1.20
31051	1/2” NPT	8.46	-	1/2	-	5.59	-	3.78	3.25
31052	3/4” NPT	8.46	-	3/4	-	5.59	-	3.78	3.25
31053	1” NPT	8.46	-	1	-	5.59	-	3.78	3.25
31150	1/2” NPT	10.10	-	1/2	-	6.89	-	4.49	5.75
31151	3/4” NPT	10.10	-	3/4	-	6.89	-	4.49	5.75
31152	1” NPT	10.10	-	1	-	6.89	-	4.49	5.75
31153	1 1/4” NPT	16.69	-	1 1/4	-	10	-	7.56	15.5
31154	1 1/2” NPT	16.69	-	1 1/2	-	10	-	7.56	15.5
31155	2” NPT	19.88	-	2	-	12.44	13.74	7.56	25
31156/F	2 1/2” FLANGED	-	33.93	3	ANSI 150	-	17.09	12.52	56
31157/F	3” FLANGED	-	33.93	3	ANSI 150	-	17.09	12.52	56
31158/F	4” FLANGED	-	33.93	4	ANSI 150	-	19.76	12.52	56

* (**G**) Dimensions is the width of the regulator

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