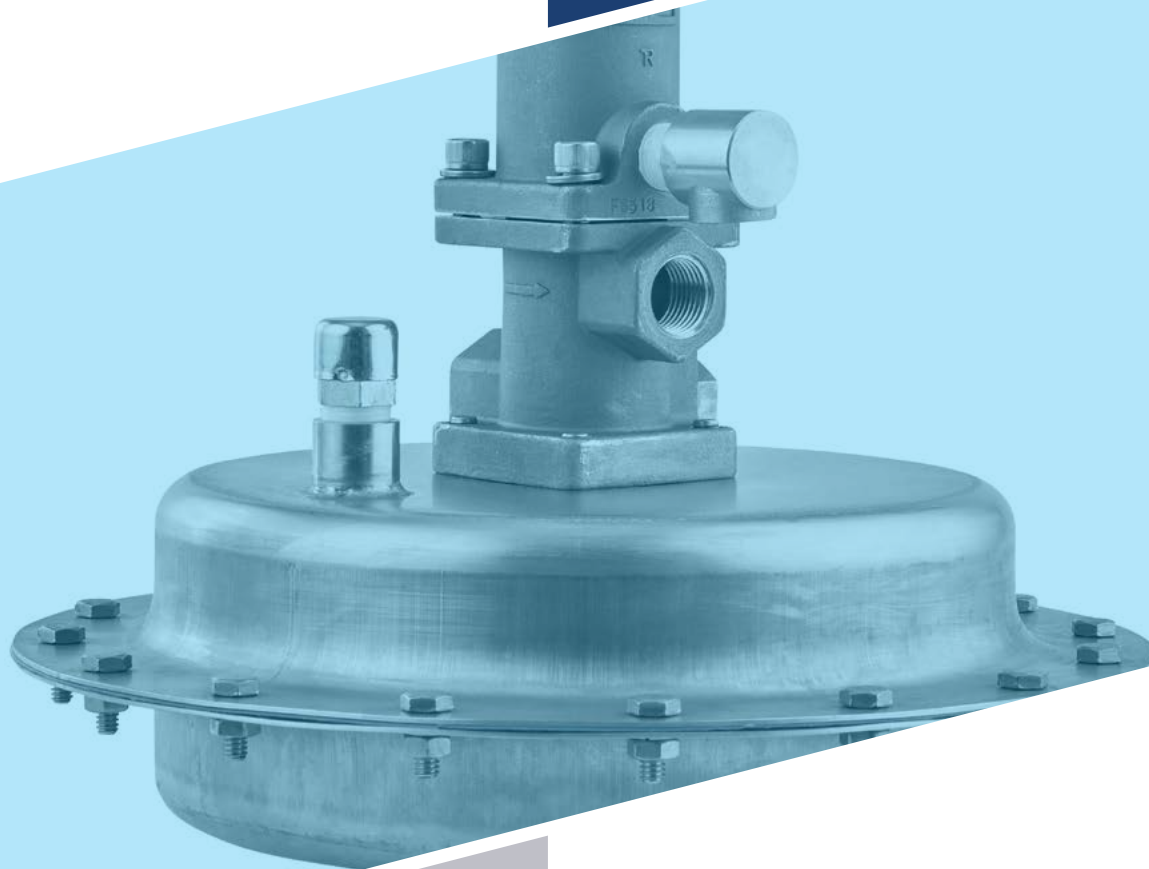




# BLANKET GAS REGULATOR

## 3000 SERIES



# 3000 SERIES

The Groth Blanket Gas Regulators ensure that a constant gas pressure is maintained in the vapor space of a storage tank. A blanket gas regulator supplies an inert gas to prevent a vacuum from developing when liquid is removed from a tank, to maintain the desired blanket pressure when the temperature drops and to prevent outside air from contaminating the tank or creating a flammable or explosive environment. Product conservation and a significant reduction in tank emissions are the final result.

## Technical Details

- Materials: 316 Stainless Steel
- Setting ranges from 0.5 InWC to 15 psig
- 1/2" Adjustable Orifice Selector 25% to 100%
- 1" Adjustable Orifice Selector 5% to 100%
- API 2000
- ISO 28300
- EPA Publication AP-42
- NFPA 69 – Standard on Explosion Prevention Systems
- OSHA Part 1910.110
- ATEX Certified (3011L, 3011H, 3011HP, 3020A, 3041L, 3041H, 3041HP)

## Features

- Variable orifice, field-adjustable flow capacity
- Bubble-tight shut off
- Single stage regulator
- Modulating opening
- Minimal lock up and droop

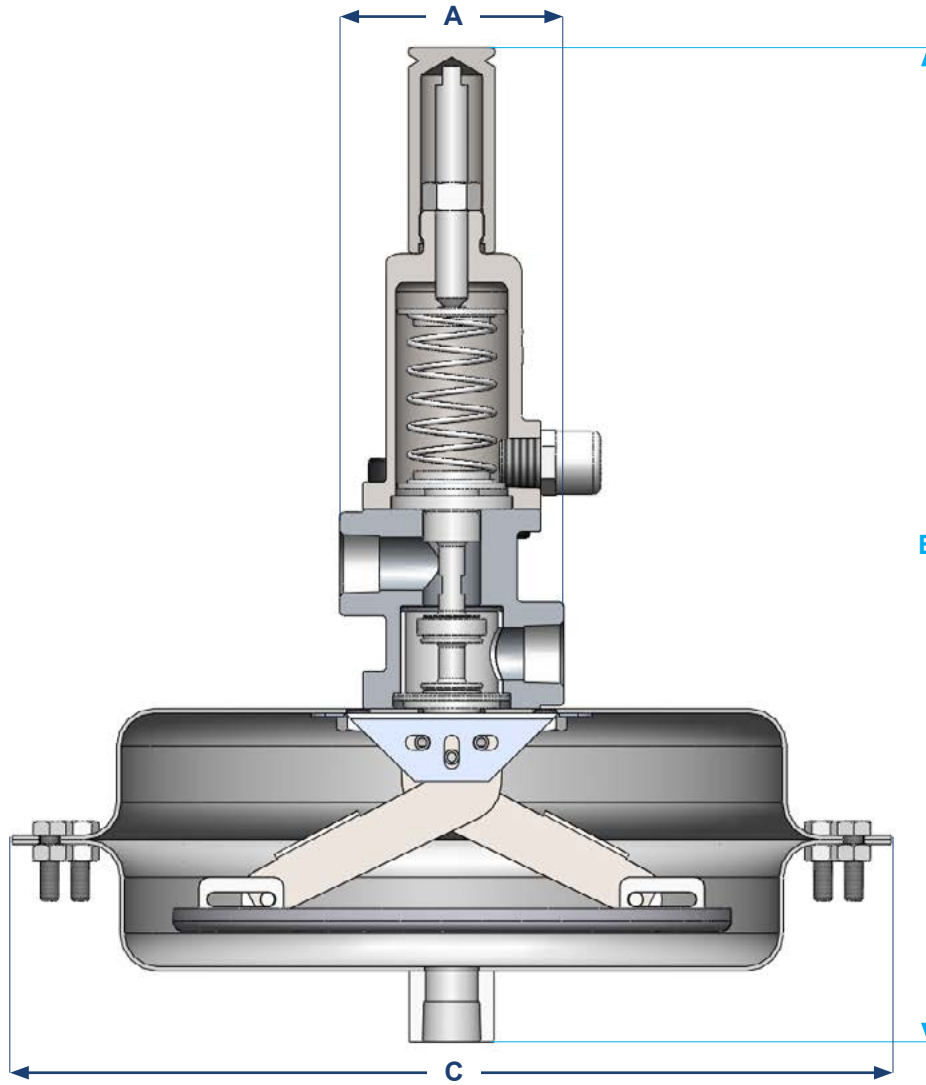
## Options

- Soft Goods - Buna-N, FFKM, EPDM, FKM



# SPECIFICATIONS

Model Number	Size	A Inches (mm)	B Inches (mm)	C Inches (mm)	Actuator MAWP psig (barg)	Shipping Weight Lbs (kg)
3011L	1/2"	3.00 (76.2)	14.46 (367.3)	14.00 (355.6)	2 (.13)	13 (5.9)
3011L	1"	3.75 (95.3)	19.13 (485.9)	19.50 (495.3)	2 (.13)	33 (15)
3011H	1/2"	3.00 (76.2)	13.26 (336.8)	11.75 (298.5)	8 (0.55)	10 (4.5)
3011H	1"	3.75 (95.3)	17.88 (438.1)	14.00 (355.6)	8 (0.55)	24 (11)
3011HP	1"	3.75 (95.3)	17.25 (438.1)	14.00 (355.6)	25 (1.7)	24 (11)
3020A	1"	3.75 (95.3)	14.50 (368.3)	9.00 (229.6)	75 (5.1)	15 (7)



# MODEL SELECTION

## 1/2" Blanket Gas Regulator

Pressure Setting InWC (mbarg)	Supply Pressure psig (barg)			
	5 to 50 (0.34 to 3.4)	>50 to 100 (3.4 to 6.9)	>100 to 150 (6.9 to 10.3)	>150 to 200 (10.3 to 13.8)
0.5 to <1.0 (1.2 to 2.5)				3011L
1.0 to <1.5 (2.5 to 3.7)				
1.5 to <2.0 (3.7 to 5.0)	3011H			
2.0 to 6.5 (5.0 to 16)				

## 1" Blanket Gas Regulator

Pressure Setting InWC (mbarg)	Supply Pressure psig (barg)			
	5 to 50 (0.34 to 3.4)	>50 to 100 (3.4 to 6.9)	>100 to 150 (6.9 to 10.3)	>150 to 200 (10.3 to 13.8)
0.5 to <1.0 (1.2 to 2.5)		3011L		
1.0 to <1.5 (2.5 to 3.7)			3011L	
1.5 to <2.0 (3.7 to 5.0)	3011H			
2.0 to 6.5 (5.0 to 16)				
6.5 InWC to <2.0 psig (16 to 140)	3011HP			
2.0 psig to 15 psig (0.14 to 1.0 barg)	3020A			

Required flow capacity for a given application should be determined by using API 2000 | ISO 28300 or the relevant sizing standard. Consult the factory to determine the Blanket Gas Regulator size based on the required flow rate, supply pressure, and supply gas.

# SPRING RANGES

## 1/2" Blanket Gas Regulator

Model Number	Max Supply psig (barg)	Min Setting InWC (mbarg)	Max Setting InWC (mbarg)	Spring Range
3011L	200 (13.8)	0.5 (1.2)	0.8 (2.0)	2
	200 (13.8)	0.8 (2.0)	1.0 (2.5)	3
3011H	150 (10.3)	0.5 (1.2)	0.7 (1.7)	1
	200 (13.8)	0.7 (1.7)	1.7 (4.2)	2
	200 (13.8)	1.7 (4.2)	3.0 (7.5)	3
	200 (13.8)	3.0 (7.5)	4.5 (11.2)	4
	200 (13.8)	4.5 (11.2)	6.5 (16.0)	5

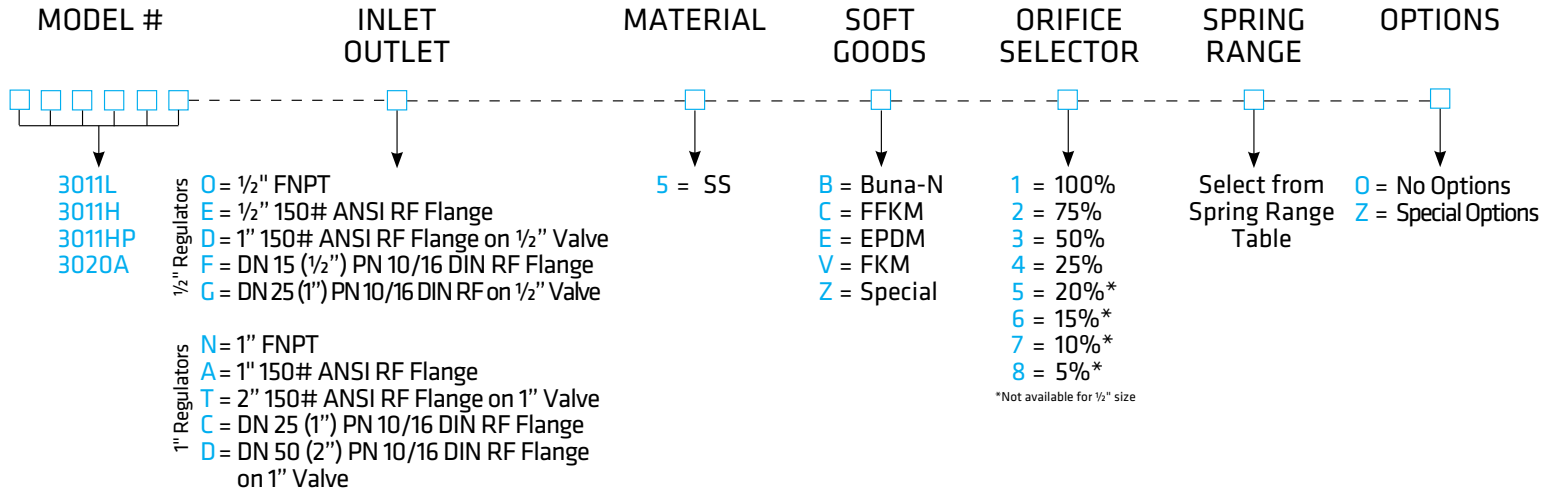
## 1" Blanket Gas Regulator

Model Number	Max Supply psig (barg)	Min Setting InWC (mbarg)	Max Setting InWC (mbarg)	Spring Range
3011L	200 (13.8)	0.5 (1.2)	0.8 (2.0)	3
	200 (13.8)	0.8 (2.0)	1.0 (2.5)	4
	200 (13.8)	1.0 (2.5)	2.0 (5.0)	5
3011H	50 (3.4)	0.5 (1.2)	1.0 (2.5)	1
	100 (6.9)	1.0 (2.5)	1.5 (3.7)	2
	150 (10.3)	1.5 (3.7)	2.0 (5.0)	3
	200 (13.8)	2.0 (5.0)	3.5 (8.7)	4
	200 (13.8)	3.5 (8.7)	6.5 (16.0)	5
3011HP	200 (13.8)	6.5 (16)	11.1 (28)	2
	200 (13.8)	11.1 (28)	18.6 (46)	3
	200 (13.8)	18.6 (46)	1.0 psig (69)	4
	200 (13.8)	1.0 psig (69)	1.38 psig (95)	5
	200 (13.8)	1.38 psig (95)	2.0 psig (140)	6
3020A	200 (13.8)	2.0 psig (140)	3.3 psig (230)	4
	200 (13.8)	3.3 psig (230)	5.1 psig (350)	5
	200 (13.8)	5.1 psig (350)	7.3 psig (500)	6
	200 (13.8)	7.3 psig (500)	15.0 psig (1000)	7

When spring ranges overlap, select the lighter spring. Consult the factory for vacuum regulator with setting greater than 2 psig.

# HOW TO ORDER

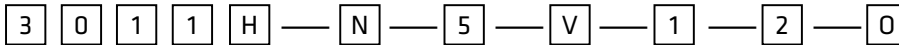
For easy ordering, select proper model numbers



## NOTES

- Include model number and setting when ordering
- For special options, consult factory
- Actuator diaphragm is only available in PFA

## EXAMPLE



Indicates a Model 3011H Regulator with 1" FNPT body connections, 316 SS construction, FKM elastomers, full capacity orifice, set pressure range from 1.0 InWC to 1.5 InWC and no special requirements.

The logo consists of a large, stylized 'L' on the left and a large, stylized 'G' on the right. The word 'GROTH' is written in a bold, white, sans-serif font across the top of the 'G'. The entire logo is contained within a white rectangular border.

**GROTH**

**CORPORATION**





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