

P39 Standard Gas Regulators



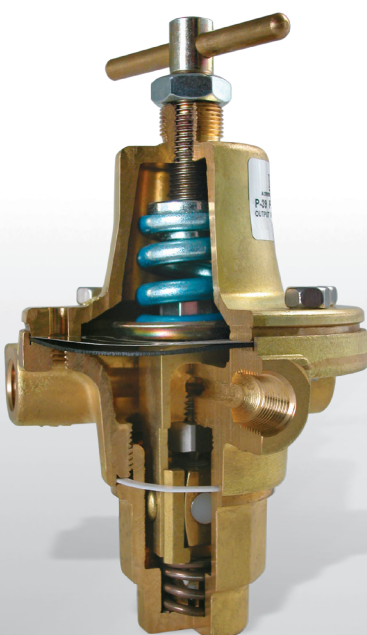
- Each unit comes with a 4 seat valve disk block. This block can be easily rotated 90° to provide a fresh valve disk sealing surface.
- Easily changed from tamper-resistant to T-handle adjustment or vice versa.
- Both adjustment assemblies are supplied with every unit.
- Brass casing material

The BelGAS P39 gas pressure regulator has the industry's largest selection of outlet pressures. We offer this regulator in three different materials, one of which will ideally suit your application AND your budget. ALL of the P39s are offered with six different spring ranges. Our broad selection of outlet pressure spring ranges allows more precise regulation of downstream pressure, hence better process control. Piping designs can be simplified using any one (or all) of the 3 outlet ports that come standard on the regulator. The BelGAS P39 is the ONLY regulator of this type, with 3 outlet ports. To enhance the versatility of this regulator further, a choice of three seat materials is provided to allow the user to meet unique application requirements.



Applications

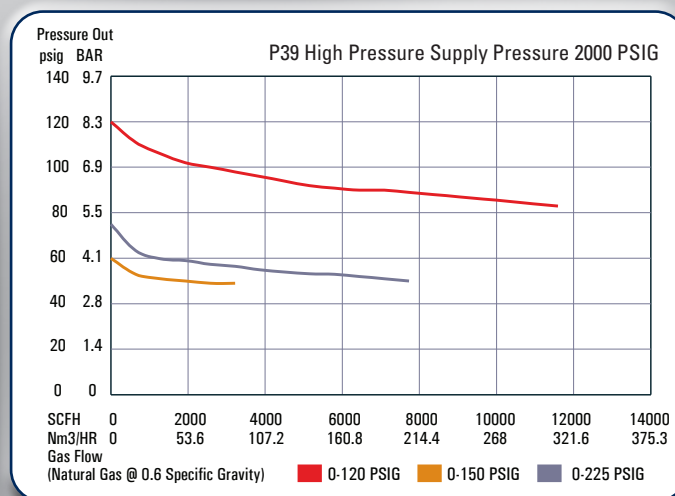
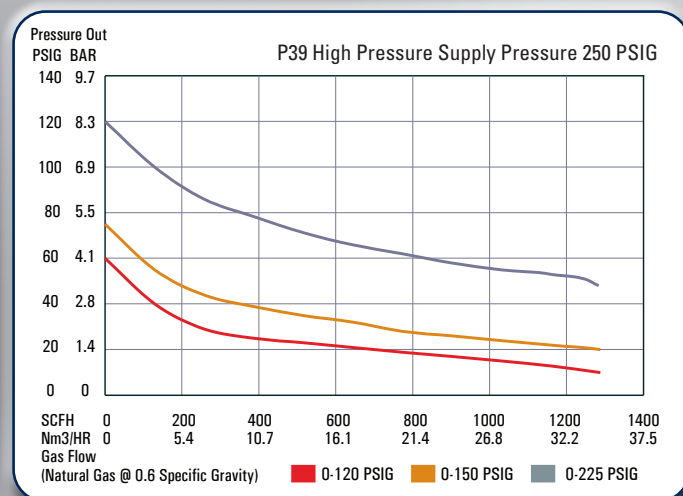
- First cut of high-pressure natural gas to control valve supply
- Natural gas instrumentation columns
- First cuts to any downstream, low flow application, such as catalytic heaters, valve actuators, pressure controllers and chemical injection pumps



Specifications

Inlet	1/4 NPT	
Outlet	1/4 NPT (3 Ports)	
Vent	4 holes (5/32" each) (STD)	
	1/4 NPT (Tapped Vent Option)	
Max Inlet	6000 PSIG, 414 BAR	
Orifice Size	5/64"	
	Cv=0.10	
Outlet Ranges		
	0 – 30 PSIG	2.1 BAR
	0 – 60 PSIG	4.1 BAR
	0 – 120 PSIG	8.3 BAR
	0 – 150 PSIG	10.3 BAR
	0 – 225 PSIG	15.5 BAR
Temp. Range	–40°F to 225°F	–46°C to 106°C
Weight Approximate		
Standard	3-1/4 lbs	1.46 kg

Flow Charts



P39 Standard Part Matrix

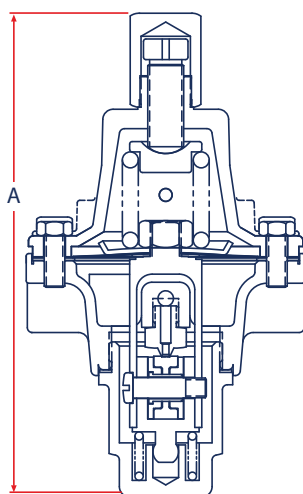
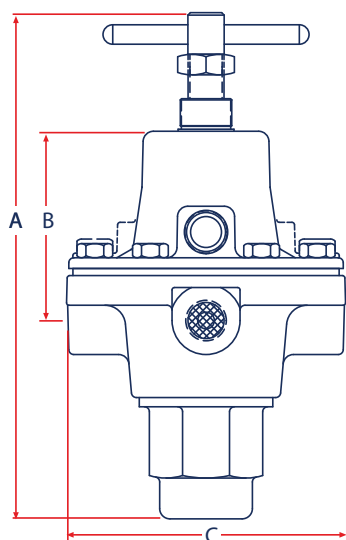
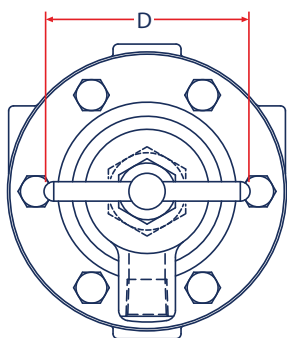
P03902	0	X	0	0	0	0
↑	↑	↑	↑	↑	↑	↑
030						Spring Range
060						0-30 PSIG 0-2.1 BAR
120						0-60 PSIG 0-4.1 BAR
150						0-120 PSIG 0-8.3 BAR
225						0-150 PSIG 0-10.3 BAR
						0-225 PSIG 0-15.5 BAR
	0					Version
						Standard
		X				Adjustment Method
						T-Bar and Adjustment Screw (Allen Head) with Tamper Resistant Cover
						Vent
			0			Standard Untapped Bonnet Vent
						Seat Material
				1		Nylon
				3		Teflon
						Port Configuration
					0	Standard
						Casing Material
					0	Brass

Materials of Construction

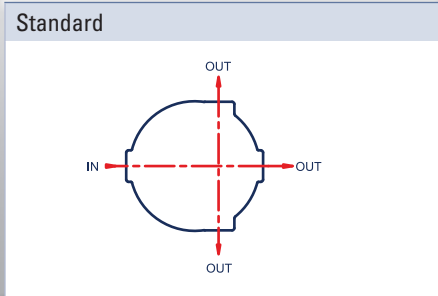
Brass Unit	
Body, Bonnet, Bottom Plug	Brass
Tamper Resistant Cover	Brass
Diaphragm	302 Stainless
Seals	TFE, Nitrile
Valve Spring	17-7 ^{PH} Stainless Steel
Range Spring	Spring Steel, Chrome Silicon
Seat Material	Nylon or TFE

P39 Standard Dimensions

Dimensions Table		A	B	C	D
P39 w/T-Handle 0-30, 0-60, 0-120, 0-150, 0-225 PSIG range	mm	156	58	85	64
	inches	6.14	2.3	3.33	2.50
P39 w/Allen Head 0-30, 0-60, 0-120, 0-150, 0-225 PSIG range	mm	150	58	85	19
	inches	5.90	2.30	3.33	0.75



Ports



P39 Special Build Gas Regulators



Specials include these models:

- 500 PSI Outlet
- Dual Inlet Ports
- Nickel Plated and Stainless Steel
- Tapped Vent Models
(Standard on all Stainless Steel units)
- Stainless Steel Version complies with NACE MR0175



Applications

- First cut of high-pressure natural gas to control valve supply
- Natural gas instrumentation columns
- First cuts to any downstream, low flow application, such as catalytic heaters, valve actuators, pressure controllers and chemical injection pumps

P39 Special Build Part Matrix

P03902								
	↑	↑	↑	↑	↑	↑	↑	Spring Range
030								0-30 PSIG 0-2.1 BAR
060								0-60 PSIG 0-4.1 BAR
120								0-120 PSIG 0-8.3 BAR
150								0-150 PSIG 0-10.3 BAR
225								0-225 PSIG 0-15.5 BAR
500								0-500 PSIG 0-34.5 BAR
								Versions
0								Standard
3								PED (for EU)
4								ENVIRO-Cap* (Water Jacket)
								Adjustment Method
0								T-Bar
1								Adjustment Screw (Allen Head) with Tamper Resistant Cover
								Vent Options
0								Standard Bonnet
1								Tapped Vent Bonnet*
								Seat Material
1								Nylon
3								Teflon (Brass units only)
4								PTFE*
								Port Configuration
0								Standard
1								Dual Inlet**
								Casing Material
0								Brass
1								Electroless Nickel
2								Stainless Steel

Materials of Construction

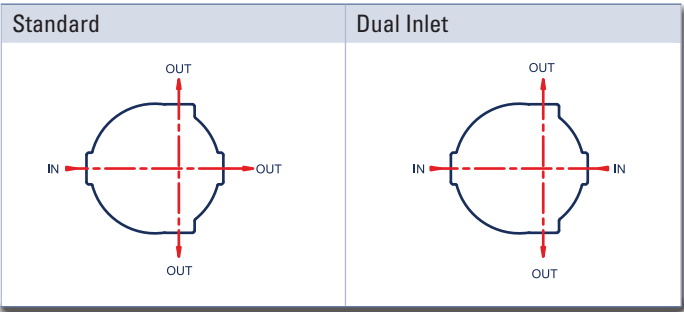
Brass Unit	
Body, Bonnet, Bottom Plug	Brass
Tamper Resistant Cover	Brass
Diaphragm	302 Stainless
Seals	TFE, Nitrile
Valve Spring	17-7 ^{PH} Stainless Steel
Range Spring	Spring Steel, Chrome Silicon
Seat Material	Nylon or TFE
Nickel Plated Unit	
Body, Bonnet, Bottom Plug	Nickel Plated Brass
Tamper Resistant Cover	Nickel Plated Brass
Diaphragm	302 Stainless Steel
Seals	TFE, Nitrile
Valve Spring	17-7 ^{PH} Stainless Steel (Nickel Plated)
Range Spring	Spring Steel or Chrome Silicon
Seat Material	Nylon or PTFE (316 SS Block)
Stainless Steel Unit	
Body, Bonnet, Bottom Plug	316 Stainless Steel
Tamper Resistant Cover	316 Stainless Steel
Diaphragm	Monel 400
Seals	TFE, Neoprene
Valve Spring	MP35N (UNS30035)
Range Spring	Spring Steel
Seat Material	Nylon or PTFE (316 SS block)
Only the P39SS Conforms to NACE MR0175	



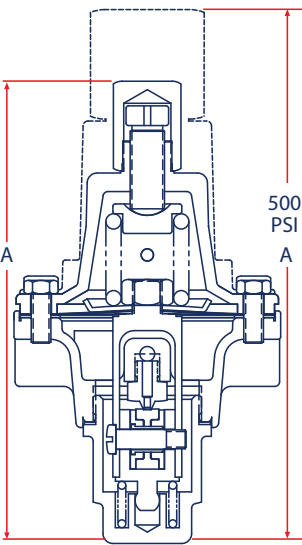
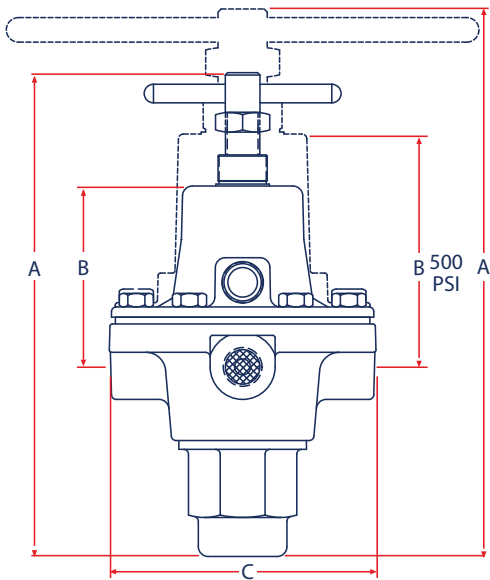
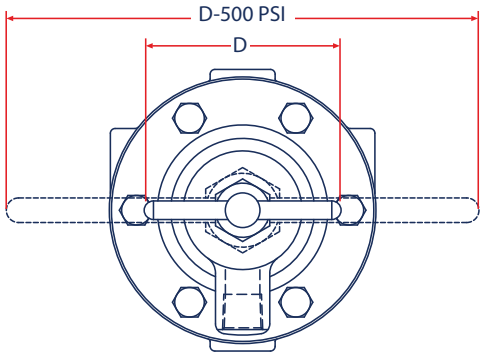
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Temp. Range	–40°F to 225°F	–46°C to 106°C
Weight Approximate		
Standard	3-1/4 lbs	1.46 kg
500 PSIG	3-3/4 lbs	1.69 kg
	Cv=0.10	

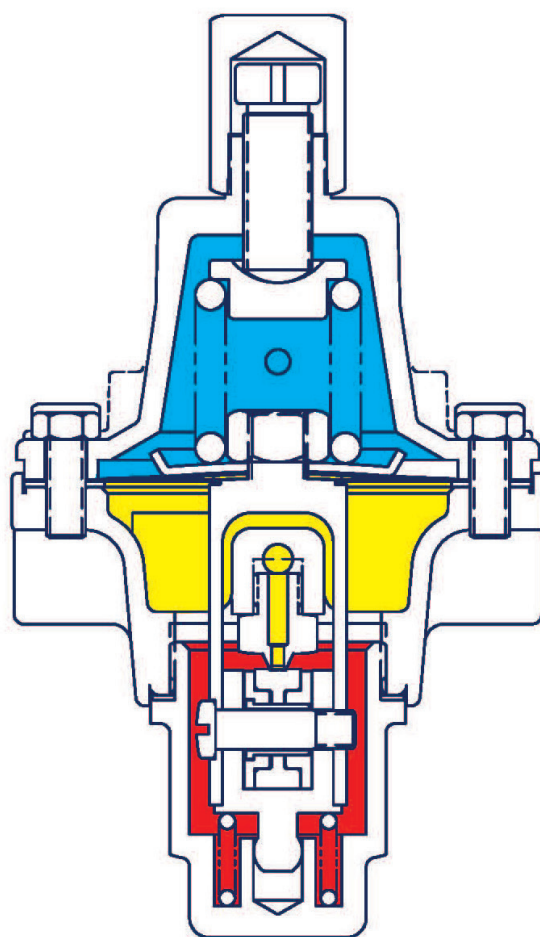
Ports



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Dimensions Table		A	B	C	D
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	inches	6.14	2.3	3.33	2.50
P39 w/Allen Head 0-30, 0-60, 0-120, 0-150, 0-225 PSIG range	mm	150	58	85	19
	inches	5.90	2.30	3.33	0.75
P39 w/T-Handle 0-500 PSIG range	mm	177	75	85	152
	inches	6.98	2.96	3.33	6.0
P39 w/Allen Head 0-500 PSIG range	mm	172	75	85	32
	inches	6.78	2.96	3.33	1.25



- Inlet Pressure
- Outlet Pressure
- Atmospheric Pressure

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BelGAS

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