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

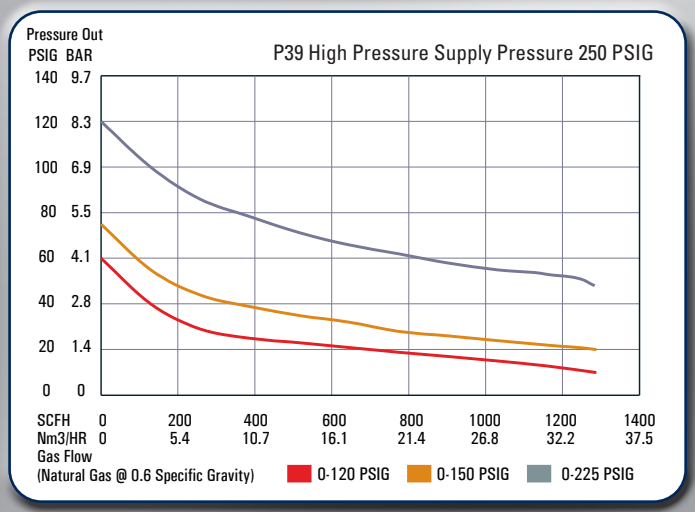
- First cut of high-pressure natural gas to control valve supply
- Natural gas instrumentation columns
- First cuts to any downstream, low flow application, such as catalytic heaters, valve actuators, pressure controllers and chemical injection pumps

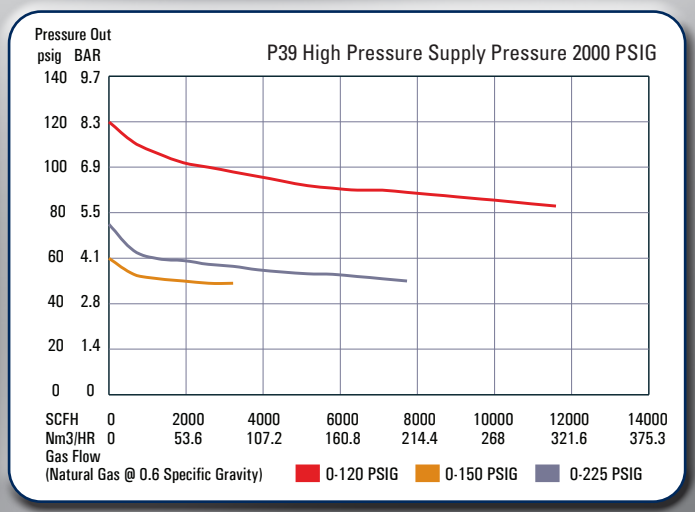


Specifications

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



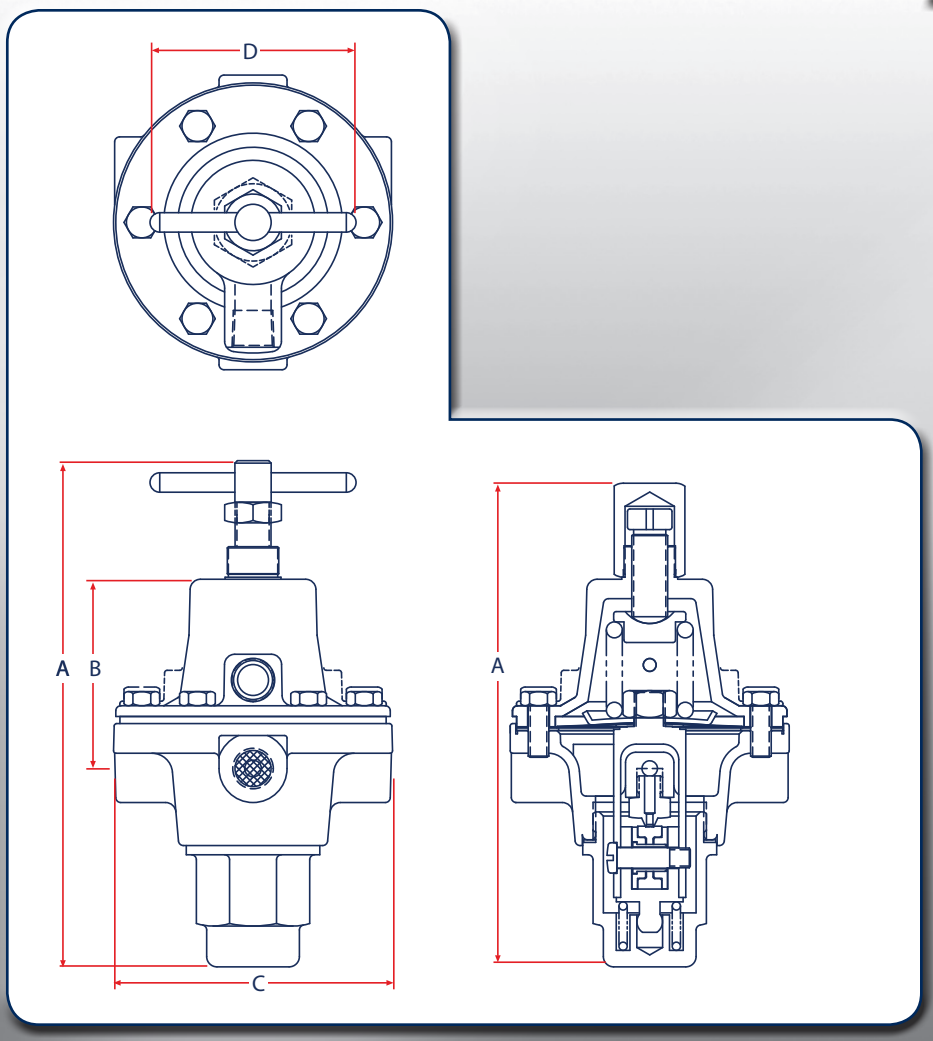


P39 Standard Part Matrix

P039			0	X	0			0	
									Port Size
	02								1/4" NPT
									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
									Version
			0						Standard
									Adjustment Method
				X					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	17-7PH Stainless Steel
Range Spring	Spring Steel, Chrome Silicon
Seat Material	Nylon or TFE

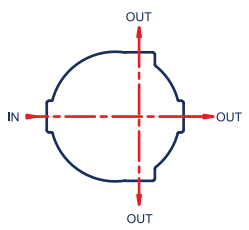


P39 Standard Dimensions

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

Standard



P39 Special Build Gas Regulators

BelGAS

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

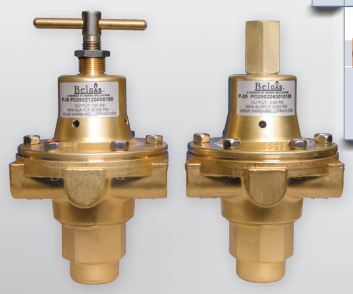


Applications

- 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

P039									
									Port Size
	02								1/4" NPT
	04								1/2" NPT
									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)
									Adjustment Method
				0					T-Bar
				1					Adjustment Screw (Allen Head) with Tamper Resistant Cover
									Vent Options
					0				Standard Bonnet
					1				Tapped Vent Bonnet* — *Tapped vent is standard on all Stainless Steel units.
									Seat Material
						1			Nylon
						3			Teflon (Brass units only)
						4			PTFE — Nylon recommended for springs ≥ 225.
									Port Configuration
							0		Standard
							1		Dual Inlet** — **Not available in Stainless Steel or 1/2" NPT
									Casing Material
								0	Brass
								1	Electroless Nickel
								2	Stainless Steel — 1/4" NPT Only



Materials of Construction

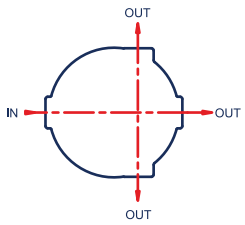
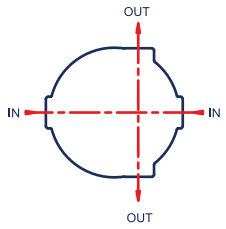
Brass Unit	
Body, Bonnet, Bottom Plug	Brass
Tamper Resistant Cover	Brass
Diaphragm	302 Stainless Steel
Seals	TFE, Nitrile
Valve Spring	17-7PH Stainless Steel
Range Spring	Spring Steel, Chrome Silicon
Seat Material	Nylon or TFE
Nickel Plated Unit	
Body, Bonnet, Bottom Plug	Nickel Plated Brass
Tamper Resistant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



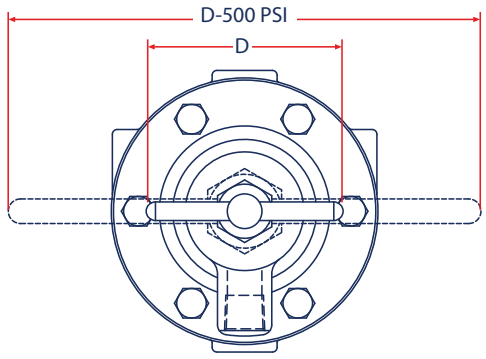
Specifications

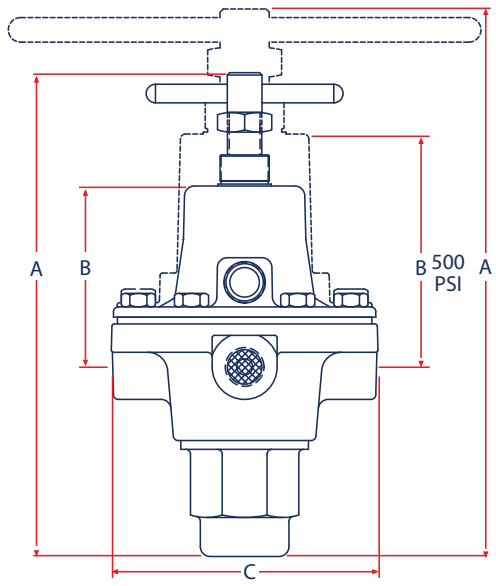
Inlet	1/4 NPT, 1/2 NPT	
Outlet	1/4 NPT, 1/2 NPT (3 Ports)	
Vent	4 holes (5/32" each) (STD)	
	1/4 NPT (Tapped Vent Option)	
Max Inlet	6000 PSIG, 414 BAR	
Orifice Size	5/64"	
Outlet Ranges		
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	0 – 225 PSIG	15.5 BAR
	0 – 500 PSIG	34.5 BAR
Temp. Range	–40˚F 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	

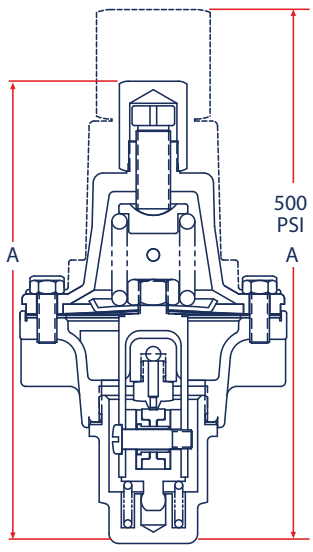
Ports

Standard	Dual Inlet
	

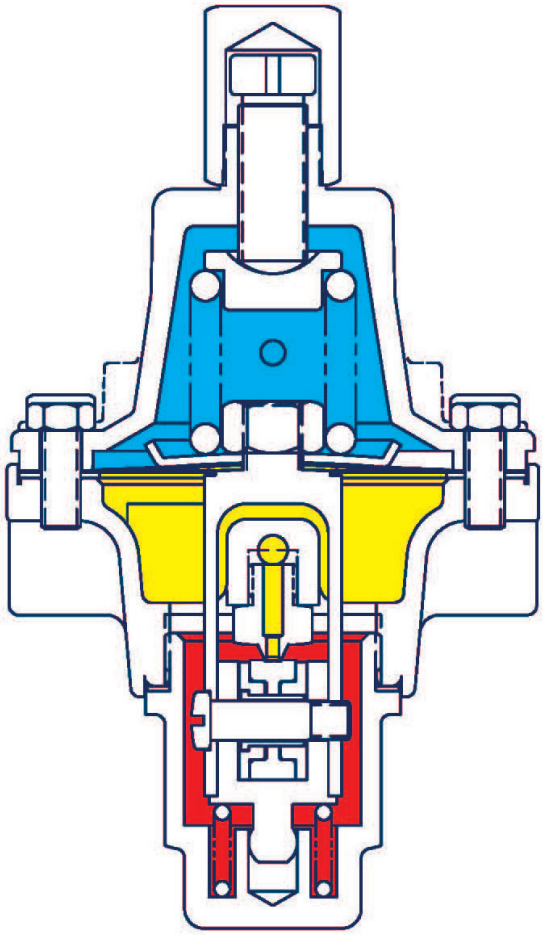
P39 Special Build Gas Dimensions







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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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