

P51 STAINLESS STEEL

- Ideal for sour gas and corrosive applications or environments
- Excellent stability and repeatability
- Built-in filter assemblies and dripwells
- Filter only assemblies available
- Soft relief seat for low gas consumption
- Low droop
- Tapped vent for exhaust gas capture
- Manual or automatic drain options
- Panel, bracket or pipe mounting

The P51SS regulator product line is designed for service with a wide variety of corrosive gases and environments. Special construction features include 316 stainless steel for the housing and filter assemblies, with fluorocarbon elastomers used for the control diaphragm and the supply valve.

This ruggedly built regulator operates in pressure ranges up to 150 PSIG (10.3 BAR). The P51SSFR and P51SSAR Regulators and the P51SSF and P51SSAF filter assemblies have built-in dripwells which trap water, oil and other contaminant's. The contaminant's are easily flushed out of the dripwell via a convenient manual or automatic drain valve. The 40-48 Micron Filter is constructed of sintered 316 stainless steel, and is easily removed.

The P51SS products can be through-panel mounted with the mounting nut supplied (regulators only), bracket-mounted using the optional bracket (regulators only), or pipe mounted by its ports (regulators and filters).

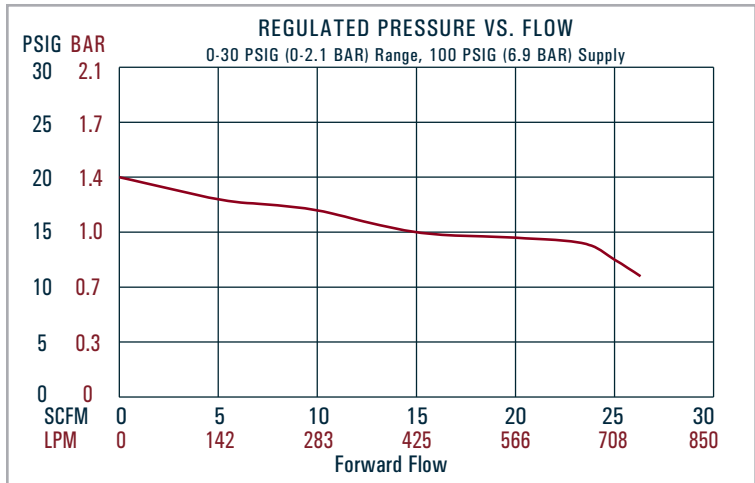
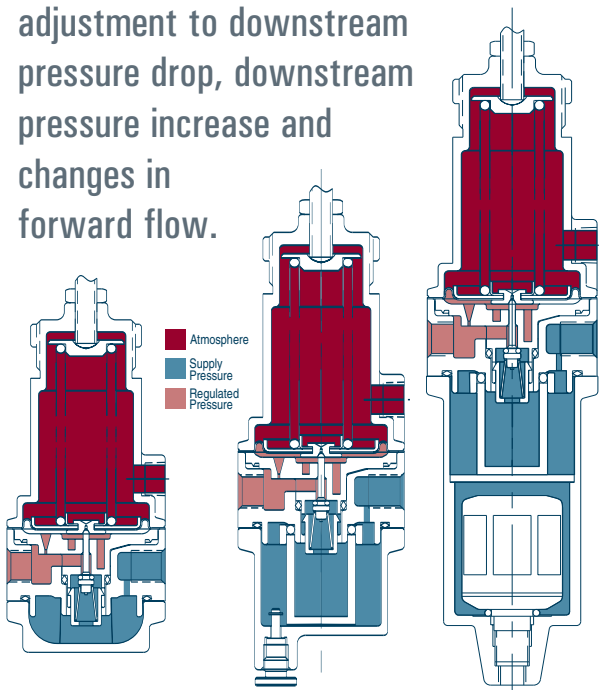
The regulators and filter assemblies comply with NACE Standard MR0175 (Metals for Sulfide Stress Cracking and Stress Corrosion Cracking Resistance in Sour Oilfield Environments.)

APPLICATIONS

These corrosion resistant materials are compatible with sour gas and for use in off-shore environments. Typical applications include petrochemical processing, chemical plants, food processing and paper/pulp mills.



Once set to a desired pressure, the BelGAS P51SS Stainless Steel Regulators maintain their settings permanently. The integral convoluted diaphragm provides constant adjustment to downstream pressure drop, downstream pressure increase and changes in forward flow.



P51SS PART MATRIX

P 0 5 1 S S											
STYLE		Regulator	RX								
		Filter Regulator	FR								
		Filter	FX								
		Filter Reg w/Autodrain	AR								
		Filter w/Autodrain	AF								
BODY SIZE		1/4 NPT	02								
		3/8 NPT	03								
RANGES *		0-30 PSIG	030								
		0-60 PSIG	060								
		0-100 PSIG	100								
		2-150 PSIG	150								
		* For filters only (FX & AF) use 000 for range									
OPTIONS		Standard	00								
		Non-relieving	0B								
		5 Micron Filter	0F								
		Non-relieving & 5 Micron Filter	BF								
NON-RELIEVING: Used in applications where it is desirable to relieve pressure downstream and not at the regulator. Non-relieving regulators should not be used for low or no flow applications.											
MOUNTING BRACKET P/N 607-000-128											
5 MICRON FILTER: Replaces the 40 micron filter for more complete air filtration. (Except Type P51SSR)											

P51 STAINLESS STEEL REGULATORS SPECIFICATIONS

	P51SSR Regulator	P51SSFR Filter Regulator	P51SSAR Auto Filter Regulator	P51SSF	P51SSAF
Filter	n/a	built in 40 micron filter with manual drain	built in 40 micron filter with automatic drain	40 micron filter with manual drain	40 micron filter with automatic drain
Maximum Supply Pressure	250 PSIG (17.3 BAR)	250 PSIG (17.3 BAR)	250 PSIG (17.3 BAR)	250 PSIG (17.3 BAR)	250 PSIG (17.3 BAR)
Output Pressure Range	0-30 PSIG (0-2.1 BAR) 0-60 PSIG (0-4.1 BAR) 0-100 PSIG (0-6.9 BAR) 2-150 PSIG (0.1-10.3 BAR)	0-30 PSIG (0-2.1 BAR) 0-60 PSIG (0-4.1 BAR) 0-100 PSIG (0-6.9 BAR) 2-150 PSIG (0.1-10.3 BAR)	0-30 PSIG (0-2.1 BAR) 0-60 PSIG (0-4.1 BAR) 0-100 PSIG (0-6.9 BAR) 2-150 PSIG (0.1-10.3 BAR)	n/a	n/a
Supply Pressure Sensitivity @ 25 PSIG / 1.7 BAR change in supply	0.45 PSIG (0.03 BAR) output change	0.45 PSIG (0.03 BAR) output change	0.45 PSIG (0.03 BAR) output change	n/a	n/a
Sensitivity	1" water column	1" water column	1" water column	n/a	n/a
Repeatability	0.1 PSIG (0.01 BAR)	0.1 PSIG (0.01 BAR)	0.1 PSIG (0.01 BAR)	n/a	n/a
Flow @ 100 PSIG (6.9 BAR) Supply & 20 PSIG (1.4 BAR) outlet	20 SCFM (566 LPM)	20 SCFM (566 LPM)	20 SCFM (566 LPM)	n/a	n/a
Exhaust Capacity @ 5 PSIG (0.3 BAR) above setpoint	0.1 SCFM (2.8 LPM)	0.1 SCFM (2.8 LPM)	0.1 SCFM (2.8 LPM)	n/a	n/a
Temperature Limits	-20° to 180°F (-29° to 82°C)	-20° to 180°F (-29° to 82°C)	-20° to 180°F (-29° to 82°C)	-20° to 180°F (-29° to 82°C)	-20° to 180°F (-29° to 82°C)
Air Consumption	0.1 SCFH (0.05 LPM) Maximum	0.1 SCFH (0.05 LPM) Maximum	0.1 SCFH (0.05 LPM) Maximum	n/a	n/a
Port Size	¼" NPT or ⅜" NPT	¼" NPT or ⅜" NPT	¼" NPT or ⅜" NPT	¼" NPT or ⅜" NPT	¼" NPT or ⅜" NPT
Materials of Construction	316 Stainless Steel housing & filter assemblies fluorocarbon elastomers	316 Stainless Steel housing & filter assemblies fluorocarbon elastomers	316 Stainless Steel housing & filter assemblies fluorocarbon elastomers	316 Stainless Steel housing & filter assemblies fluorocarbon elastomers	316 Stainless Steel housing & filter assemblies fluorocarbon elastomers
Approximate Weight	5.0 lbs, 2.25 kg	5.0 lbs, 2.25 kg	5.0 lbs, 2.25 kg	5.0 lbs, 2.25 kg	5.0 lbs, 2.25 kg

P51 DIMENSIONS

MOUNTING BRACKET 607-000-128

