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## Section 10

### *Instrument Data Sheets*

# P627 High Flow Gas Regulator

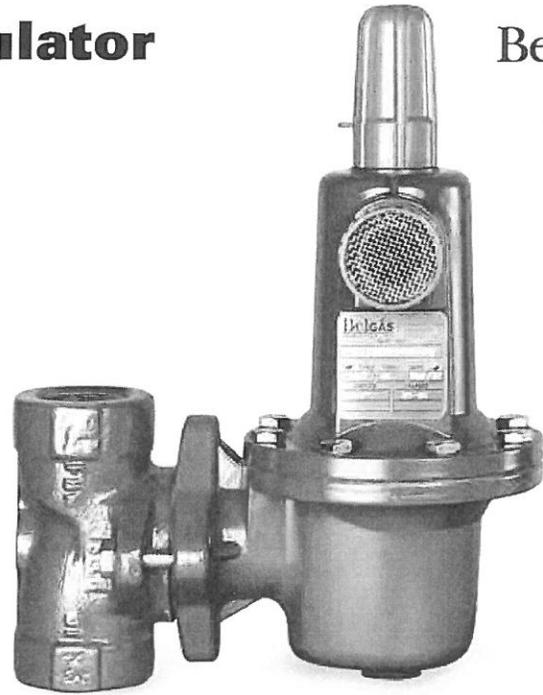


- Wide Range of Flow Capacities
- Durable Powder Coated Exterior
- Installation Versatility
- NACE Construction Available

The P627 is a spring loaded, direct-operated regulator for both low and high pressure applications in the oil and gas industries. These regulators provide durability, from the powder-coated epoxy exterior finish, as well as installation versatility, from the multi-position body and spring case configurations. These regulators are also available in an external pressure registration model (P627M), and NACE construction.

## Applications

- Farm Tap Regulation
- Monitoring Regulators
- Gate Regulators
- Fuel Gas
- Gas Gathering
- Pressure Reduction



## Materials of Construction

Body, Bonnet, Diaphragm Case	
Options	Steel Body, Bonnet & Diaphragm Case
	Cast Ductile Iron Body / Aluminum Bonnet & Diaphragm Case
	Steel Body / Aluminum Bonnet & Diaphragm Case (NACE only)
	Steel Casing / LCC Body
	Aluminum Casing / LCC Body
	CF8M SS Body, Bonnet & Diaphragm Case
Diaphragm	
Option	Nitrile (low pressure) or Neoprene (high pressure)
Seat	
Options	Nitrile
	Nylon
	Fluorocarbon
Orifice	
Options	Aluminum
	Stainless Steel (NACE only)

## Specifications

Maximum Inlet Body Pressure		
Nylon Seat	2000 PSIG	Steel / SS
	1000 PSIG	Ductile Iron
	1485 PSIG	Flanged Steel
Nitrile Seat	1000 PSIG	All Units
Fluorocarbon Seat	300 PSIG	All Units
Outlet		
		5-500 PSIG
Body Sizes		
		3/4 NPT
		1 NPT
		2 NPT
Orifice Sizes		
		3/32"
		1/8"
		3/16"
		1/4"
		3/8"
		1/2"
Output		
	Outlet Range	Flow Range*
	5-20 PSIG	300-43,000
	15-40 PSIG	1,000-71,000
	35-80 PSIG	1,200-142,000
	10-95 PSIG	1,000-150,000
	70-150 PSIG	2,500-172,000
	140-250 PSIG	3,200-95,000
	240-500 PSIG	4,500-140,000
* (SCFH of 0.6 S.G. Natural Gas)		
Temperature Range		
Steel, Iron Body	-20° to 180°F	(-29° to 82°C)
CF8M Body	-40° to 180°F	(-40° to 82°C)
Weight Approximate		
1"	5.3 lbs	2.39 kg
2"	8.8 lbs	3.96 kg

Maximum Bonnet and Diaphragm Casing Pressure	Spring & Diaphragm Casing Style	P627		P627M		P627H & P627HM	
		PSIG	BAR	PSIG	BAR	PSIG	BAR
Maximum pressure to spring and diaphragm casing to prevent leak to atmosphere (internal parts damage may occur).	Die Cast Aluminum	250	17.2	250	250	N/A	N/A
	Steel / SS	250	17.2	250	17.2	800	55.2
Maximum pressure to spring and diaphragm casings to prevent burst of casings during abnormal operation (leak to atmosphere and internal parts may occur).	Die Cast Aluminum	375	25.9	375	375	N/A	N/A
	Steel / SS	1200	82.7	1200	82.7	1200	82.7
Maximum diaphragm casing overpressure to prevent damage to internal parts.	All	60	4.1	60	4.1	120	8.3

## P627 Regulator Rebuild Kits

	Kit Includes	Part Number
P627 Low Pressure	Nitrile diaphragms (2), Nitrile valve disk, O-rings, back-up rings, and retaining pin	971-627-000
	Nitrile diaphragms (2), Nylon valve disk, O-rings, back-up rings, and retaining pin.	971-627-001
P627 High Pressure	Neoprene diaphragm, Nitrile valve disk, O-rings, back-up rings, and retaining pin	971-627-002
	Neoprene diaphragm, Nylon valve disk, O-rings, back-up rings, and retaining pin	971-627-003

	Kit Includes	Part Number
P627 Low Pressure NACE	Nitrile diaphragms (2), SS Nitrile valve disk, O-rings, back-up rings, and retaining pin	971-627-N00
	Nitrile diaphragms (2), SS Nylon valve disk, O-rings, back-up rings, and retaining pin	971-627-N01
P627 High Pressure NACE	Neoprene diaphragm, SS Nitrile valve disk, O-rings, back-up rings, and retaining pin	971-627-N02
	Neoprene diaphragm, SS Nylon valve disk, O-rings, back-up rings, and retaining pin	971-627-N03

## P627 Part Matrix

P627						1	
	▲	▲	▲	▲	▲	▲	Port Size
06							3/4"
08							1"
16							2"
							Spring Range
							PSIG      BAR
020							5 - 20      0.34 - 1.4
040							15 - 40      1 - 2.8
080							35 - 80      2.4 - 5.5
095							10 - 95      0.7 - 6.6
150							70 - 150      4.8 - 10.3
250							140 - 250      9.7 - 17.2
500							240 - 500      16.5 - 34.5
							Special Adders
0							None
2							Monitor
A							150 #RF*
B							300 #RF*
C							600 #RF*
D							Socket Weld*
E							900 #RTJ*
W							150 #RF & Monitor*
X							300 #RF & Monitor*
Y							600 #RF & Monitor*
Z							Socket Weld & Monitor*
							Versions
0							Standard
N							NACE
F							NACE & Fluorocarbon Elastomers
T							Stainless Trim
							Orifice
0							3/32"
2							1/8"
3							3/16"
4							1/4"
6							3/8"
8							1/2"
							Seat Material
0							Nitrile
1							Nylon
2							Fluorocarbon
						1	Case / Body
0							Aluminum / Iron
1							Steel / Steel
2							Aluminum / Steel
6							Aluminum / LCC Steel
7							Steel / LCC Steel
8							Steel / Iron
9							Stainless / Stainless

NOTE: Nitrile or FKM is recommended for 5-20, 15-40 and 10-95 PSIG. Nylon is recommended for pressures above 150 PSIG or low pressure 3/32" & 1/8" orifice.

\*Steel, LCC Steel or Stainless Steel Bodies Only

NOTE: Nitrile or FKM is recommended for 5-20, 15-40 and 10-95 PSIG. Nylon is recommended for pressures above 150 PSIG or low pressure 3/32" & 1/8" orifice.

**P627 Flow Capacities of Natural Gas** (0.6 S.G.) in SCFH<sup>1</sup>



Outlet Pressure Range	Outlet Pressure Setting		Inlet Pressure		3/4" Body Size Port Diameter, inches						1" Body Size Port Diameter, inches					
	PSIG	BAR	PSIG	BAR	3/32	1/8	3/16	1/4	3/8	1/2	3/32	1/8	3/16	1/4	3/8	1/2
	5 to 20 PSIG <sup>2</sup> (0.34 to 1.4 BAR)															
	5 <sup>3</sup>	0.34	10	0.69	170	320	700	1060	1540	1900	170	330	710	1100	1900	2500
			15	1.0	240	330	810	1300	2150	3350	240	390	890	1600	2500	3350
			20	1.4	290	460	1140	1800	3050	4350	290	500	1160	2060	3400	4450
			30	2.1	380	610	1530	2490	3880	6850	380	670	1560	2800	4750	6900
			60	4.1	640	1170	2550	4240	6270	7370	640	1170	2600	4710	8140	13,700
			75	5.2	770	1410	3020	5100	6620	7700	770	1410	3150	5710	9790	14,500
	100	6.9	990	1800	3800	5980	7440	7900	990	1800	4070	7310	12,500	16,000		
	10	0.69	15	1.03	210	320	800	1290	2100	3300	210	375	880	1590	2480	3300
			20	1.4	280	455	1130	1790	3000	4300	280	490	1150	2050	3380	4410
			30	2.1	380	610	1530	2480	3860	6830	380	670	1560	2800	4720	6840
			60	4.1	640	1170	2550	4240	6270	7370	640	1170	2600	4710	8140	13,700
			75	5.2	770	1410	3020	5100	6620	7700	770	1410	3150	5710	9790	14,500
			100	6.9	990	1800	3800	5980	7440	7900	990	1800	4070	7310	12,500	16,000
			150	10.3	1420	2580	5700	7130	8180	8200	1420	2580	5850	10,500	17,000	18,000
			200	13.8	1850	3370	6970	7250	8200	8300	1850	3370	7630	13,700	18,000	18,500
			300	20.7	2700	4910	8000	8050	8250		2700	4910	11,200	19,800	20,000	
			500	34.5	4010	8090	8060	8100			4400	8090	15,700	20,000		
			750	51.7	4400	8930	8950				5400	12,000	18,000			
			1000	69.0	4450	10,300					5800	14,000				
			1250	86.2	4540						6300					
1500			103	4880						6600						
1750	121	5230						6800								
2000	138	5900						7600								
20	1.4	30	2.1	350	620	1400	2490	4360	6290	350	620	1450	2580	4360	6290	
		50	3.4	550	1000	2280	4010	7870	8500	550	1000	2280	4090	7870	14,100	
		60	4.1	640	1170	2640	4680	8340	8940	640	1170	2640	4750	9690	14,500	
		100	6.9	990	1800	3980	7220	11,500	12,600	990	1800	4070	7310	13,900	23,300	
		150	10.3	1420	2580	5850	10,400	12,100	13,100	1420	2580	5850	10,500	17,700	34,200	
		200	13.8	1850	3370	7340	12,000	13,200	13,700	1850	3370	7630	13,700	26,600	39,100	
		300	20.7	2700	4910	11,200	13,000	15,600		2700	4910	11,200	20,100	37,000		
		500	34.5	4400	8090	18,300	15,100			4400	8090	18,300	32,900			
		750	51.7	6600	12,000	14,200				6600	12,000	23,600				
		1000	69.0	7300	14,600					8900	16,000					
		1250	86.2	7500						10,000						
		1500	103	7800						10,400						
		1750	121	8400						12,000						
		2000	138	8600						14,000						
15 to 40 PSIG (1.0 to 2.8 BAR)	40	2.8	60	4.1	610	1090	2530	4350	8140	9420	610	1090	2530	4510	9290	9420
			75	5.2	760	1370	3080	5510	10,300	13,600	760	1370	3080	5640	10,800	16,500
			100	6.9	990	1790	4070	7220	13,200	15,300	990	1790	4070	7310	14,700	21,900
			150	10.3	1420	2580	5850	10,400	17,400	18,200	1420	2580	5850	10,500	20,500	34,500
			200	13.8	1850	3370	7630	13,500	18,000	18,500	1850	3370	7630	13,700	27,100	46,400
			300	20.7	2700	4910	11,200	18,500	20,000	20,700	2700	4910	11,200	20,100	40,100	67,100
			500	34.5	4400	8090	18,300	24,000	27,000		4400	8090	18,300	32,900	63,900	
			750	51.7	6600	12,000	23,000	24,200			6600	12,000	27,200	39,400		
			1000	69.0	8700	16,000	24,400				8700	16,000	36,100			
			1250	86.2	11,000	18,000					11,000	19,000				
			1500	103	12,000	21,000					13,000	22,000				
			1750	121	13,000						15,000					
			2000	138	14,000						17,000					
			35 to 80 PSIG (2.4 to 5.5 BAR)	60	4.1	75	5.2	700	1230	2760	4750	8620	15,200	700	1230	2760
100	6.9	970				1740	4010	6990	12,800	17,300	970	1740	4010	7000	13,000	19,300
150	10.3	1420				2580	5850	10,300	18,600	23,000	1420	2580	5850	10,500	18,900	32,800
200	13.8	1850				3370	7630	13,500	21,600	27,400	1850	3370	7630	13,700	24,000	42,200
300	20.7	2700				4910	11,200	19,800	26,100	30,100	2700	4910	11,200	20,100	32,500	69,100
500	34.5	4400				8090	18,300	28,100	28,900	33,400	4400	8090	18,300	32,900	64,000	94,300
750	51.8	6600				12,000	26,300	30,000	37,000	45,000	6600	12,000	27,200	43,380	66,000	130,000
1000	69.0	8700		16,000	30,000	31,200	37,400		8700	16,000	36,100	50,300	67,700			
1250	86.2	11,000		19,000	31,600	34,000			11,000	19,000	45,000	57,000				
1500	103	13,000		22,000	30,400	36,000			13,000	22,000	54,000	63,000				
1750	121	15,000		25,000	34,000				15,000	25,000	63,000					
2000	138	17,000		28,000					17,000	28,000						
80	5.5	100		5.2	900	1600	3750	6490	12,200	17,300	900	1600	3750	6650	12,200	18,600
		150		10.3	1410	2580	5850	10,200	19,600	25,700	1410	2580	5850	10,500	21,100	33,600
		200	13.8	1850	3370	7630	13,500	25,400	29,300	1850	3370	7630	13,700	28,400	44,100	
		300	20.7	2700	4910	11,200	19,800	32,700	33,500	2700	4910	11,200	20,100	43,300	75,400	
		500	34.5	4400	8090	18,300	31,900	36,000	36,700	4400	8090	18,300	32,900	71,600	110,000	
		750	51.8	6600	12,000	27,200	35,000	44,000	46,000	6600	12,000	27,200	48,900	105,500	135,000	
		1000	69.0	8700	16,000	36,100	38,000	56,200		8700	16,000	36,100	64,900	118,000		
1250	86.2	11,000	19,000	37,000	40,000			11,000	19,000	45,000	80,000					
1500	103	13,000	22,000	38,000	44,000			13,000	22,000	54,000	96,000					
1750	121	15,000	25,000	42,000				15,000	25,000	63,000						
2000	138	17,000	28,000					17,000	28,000							

1. Capacity is based on 20 percent droop unless otherwise noted below.  
 2. For pressure setting under 10 PSIG (0.69 BAR) limit the input pressure to 100 PSIG (6.9 BAR) to obtain the setpoint.  
 3. For 5 PSIG (0.34 BAR) pressure set point, the droop is 2 PSIG (0.14 BAR)

**P627 Flow Capacities of Natural Gas** (0.6 S.G.) in SCFH<sup>1</sup>

Outlet Pressure Range	Outlet Pressure Setting		Inlet Pressure		3/4" Body Size						1" Body Size					
	PSIG	BAR	PSIG	BAR	Port Diameter, inches						Port Diameter, inches					
					3/32	1/8	3/16	1/4	3/8	1/2	3/32	1/8	3/16	1/4	3/8	1/2
70 to 150 PSIG (4.8 to 10.3 BAR)	100	6.9	150	10.3	1170	2510	5540	8710	16,000	20,300	1170	2510	5540	8710	16,000	24,000
			200	13.8	1850	3370	7630	12,000	21,300	25,700	1850	3370	7630	12,000	21,300	34,100
			300	20.7	2700	4910	11,200	19,400	30,000	31,700	2700	4910	11,200	19,400	30,100	53,200
			500	34.5	4400	8090	18,300	31,800	39,000	39,200	4400	8090	18,300	31,800	66,500	83,900
			750	51.8	6600	12,000	27,200	39,000	39,200	45,900	6600	12,000	27,200	47,300	95,300	117,000
			1000	69.0	8700	16,000	36,100	40,000	40,500	47,000	8700	16,000	36,100	59,700	100,000	120,000
			1250	86.2	11,000	19,000	39,000	40,500	41,000		11,000	19,000	45,000	72,000	114,000	
			1500	103	13,000	22,000	43,000	44,000			13,000	22,000	54,000	86,000		
			1750	121	15,000	25,000	45,000	47,000			15,000	25,000	63,000	95,000		
	2000	138	17,000	28,000	46,000				17,000	28,000	71,000					
	125	8.6	150	10.3	1250	2340	5340	9130	15,700	20,800	1250	2340	5340	9470	15,700	20,800
			200	13.8	1830	3320	7550	13,160	22,500	28,600	1830	3320	7550	13,400	28,100	32,800
			300	20.7	2700	4910	11,200	19,800	32,700	38,000	2700	4910	11,200	20,100	36,300	52,600
			500	34.5	4400	8090	18,300	32,500	43,800	51,700	4400	8090	18,300	32,900	70,800	109,000
			750	51.8	6600	12,000	27,200	48,300	49,900	71,400	6600	12,000	27,200	48,900	104,000	158,000
			1000	69.0	8700	16,000	36,100	50,000	52,900	72,000	8700	16,000	36,100	64,800	138,000	160,000
			1250	86.2	11,000	19,000	45,000	53,000	58,000		11,000	19,000	45,000	80,000	145,000	
			1500	103	13,000	22,000	51,000	56,000			13,000	22,000	54,000	96,000		
			1750	121	15,000	25,000	52,000	60,000			15,000	25,000	63,000	112,000		
	2000	138	17,000	28,000	53,000				17,000	28,000	71,000					
	150	10.3	200	13.8	1760	3200	7290	12,500	21,400	30,600	1760	3200	7290	12,900	21,400	33,600
			300	20.7	2700	4910	11,200	17,200	34,700	46,000	2700	4910	11,200	17,200	40,100	55,900
			500	34.5	4400	8090	18,300	32,500	48,900	59,700	4400	8090	18,300	32,900	70,300	111,000
			750	51.8	6600	12,000	27,200	48,300	59,000	72,000	6600	12,000	27,200	48,900	104,000	160,000
1000			69.0	8700	16,000	36,100	64,100	81,100	85,000	8700	16,000	36,100	64,800	138,000	162,000	
1250			86.2	11,000	19,000	45,000	68,000	90,000		11,000	19,000	45,000	80,000	150,000		
1500			103	13,000	22,000	54,000	72,000			13,000	22,000	54,000	96,000			
1750			121	15,000	25,000	63,000	77,000			15,000	25,000	63,000	112,000			
2000			138	17,000	28,000	71,000				17,000	28,000	71,000				

Outlet Pressure Range	Outlet Pressure Setting		Inlet Pressure		627 - 2" Body Size						627M - 2" Body Size					
	PSIG	BAR	PSIG	BAR	Port Diameter, inches						Port Diameter, inches					
					3/32	1/8	3/16	1/4	3/8	1/2	3/32	1/8	3/16	1/4	3/8	1/2
5 to 20 psig <sup>2</sup> (0.34 to 1.4 BAR)	5 <sup>3</sup>	0.34	10	0.69	170	330	710	1080	1700	2400	170	330	710	1080	1700	2400
			15	1.0	240	390	890	1250	1900	2700	240	390	890	1250	1900	2700
			20	1.4	290	500	1160	1900	2650	3900	290	500	1160	1900	2650	3900
			30	2.1	380	670	1560	2800	3680	6500	380	670	1560	2800	3680	6500
			60	4.1	640	1170	2600	4750	7250	17,800	640	1170	2600	4750	7250	15,000
			75	5.2	770	1410	3150	5700	8060	22,400	770	1410	3150	5700	8060	17,900
	10	0.69	100	6.9	990	1790	4070	7310	16,200	28,700	990	1790	4070	7310	14,600	23,000
			15	1.03	210	375	880	1220	1860	2670	210	375	880	1220	1860	2670
			20	1.4	280	490	1150	1880	2610	3830	280	490	1150	1880	2610	3830
			30	2.1	380	670	1560	2760	3640	6460	380	670	1560	2760	3640	6460
			60	4.1	640	1170	2600	4750	7250	17,800	640	1170	2600	4750	7250	15,000
			75	5.2	770	1410	3150	5700	8060	22,400	770	1410	3150	5700	8060	17,900
			100	6.9	990	1790	4070	7310	16,200	28,700	990	1790	4070	7310	14,600	23,000
			150	10.3	1420	2580	5850	10,500	23,300	25,900 <sup>5</sup>	1420	2580	5850	10,500	21,000	33,000
			200	13.8	1850	3370	7630	13,700	22,700 <sup>5</sup>	24,000 <sup>5</sup>	1850	3370	7630	13,700	27,300	43,000
			300	20.7	2700	4910	11,200	10,300 <sup>5</sup>	12,800 <sup>5</sup>		2700	4910	11,200	20,100	40,100	
			500	34.5	4400	8090	18,300	21,000 <sup>5</sup>			4400	8090	18,300	32,900		
			750	51.7	6600	12,000	27,200				6600	12,000	27,200			
	1000	69.0	8700	16,000					8700	16,000						
	1250	86.2	11,000						11,000							
	1500	103	13,000						13,000							
	1750	121	15,000						15,000							
	2000	138	17,000						17,000							
	20	1.4	30	2.1	350	620	1450	2350	4300	6110	350	620	1450	2480	4300	6110
50			3.4	550	1000	2280	4040	7100	12,800	550	1000	2280	4040	7100	12,800	
60			4.1	640	1170	2640	4750	8400	15,700	640	1170	2640	4750	8400	15,000	
100			6.9	990	1800	4070	7310	16,200	28,700	990	1800	4070	7310	14,600	23,000	
150			10.3	1420	2580	5850	10,500	23,300	29,000 <sup>5</sup>	1420	2580	5850	10,500	21,000	33,000	
200			13.8	1850	3370	7630	13,700	24,000 <sup>5</sup>	33,000 <sup>5</sup>	1850	3370	7630	13,700	27,300	43,000	
300			20.7	2700	4910	11,200	20,100	19,600 <sup>5</sup>		2700	4910	11,200	20,100	40,100		
500			34.5	4400	8090	18,300	32,900			4400	8090	18,300	32,900			
750			51.7	6600	12,000	27,200				6600	12,000	27,200				
1000			69.0	8700	16,000					8700	16,000					
1250			86.2	11,000						11,000						
1500			103	13,000						13,000						
1750	121	15,000						15,000								
2000	138	17,000						17,000								

- Capacity is based on 20 percent drop unless otherwise noted below.
- For pressure setting under 10 PSIG (0.69 BAR) limit the input pressure to 100 PSIG (6.9 BAR) to obtain the setpoint.
- For 5 PSIG (0.34 BAR) pressure set point, the drop is 2 PSIG (0.14 BAR)
- For 10 PSIG (0.69 BAR) pressure set point, the drop is 5 PSIG (0.34 BAR)
- Capacities are based on 25 percent boost if setting is less than 12 PSIG (0.8 BAR), 3 PSIG (0.2 BAR) boost if setting is from 12 to 60 PSIG (0.2 to 4 BAR), and 5 percent boost if setting is greater than 60 PSIG (4 BAR).

**P627 Flow Capacities of Natural Gas (0.6 S.G.) in SCFH<sup>1</sup>**



Outlet Pressure Range	Outlet Pressure Setting		Inlet Pressure		627 – 2" Body Size						627M – 2" Body Size							
					Port Diameter, inches						Port Diameter, inches							
	PSIG	BAR	PSIG	BAR	3/32	1/8	3/16	1/4	3/8	1/2	3/32	1/8	3/16	1/4	3/8	1/2		
15 to 40 PSIG (1.0 to 2.8 BAR)	40	2.8	60	4.1	610	1090	2530	4370	8680	13,300	610	1090	2530	4370	8680	13,300		
			75	5.2	760	1370	3080	5540	11,900	19,300	760	1370	3080	5540	10,700	19,300		
			100	6.9	990	1800	4070	7310	16,200	25,400	990	1800	4070	7310	14,600	25,400		
			150	10.3	1420	2580	5850	10,500	23,300	41,300	1420	2580	5850	10,500	21,000	37,000		
			200	13.8	1850	3370	7630	13,700	30,400	53,900	1850	3370	7630	13,700	27,300	48,000		
			300	20.7	2700	4910	11,200	20,100	44,600	46,000 <sup>5</sup>	2700	4910	11,200	20,100	40,100	71,000		
			500	34.5	4400	8090	18,300	32,900	22,000 <sup>5</sup>		4400	8090	18,300	32,900	65,000			
			750	51.7	6600	12,000	27,200	28,000 <sup>5</sup>			6600	12,000	27,200	48,900				
			1000	69.0	8700	16,000	36,100				8700	16,000	36,100					
			1250	86.2	11,000	19,000					11,000	19,000						
			1500	103	13,000	22,000					13,000	22,000						
			1750		15,000						15,000							
2000		17,000						17,000										
35 to 80 PSIG (2.4 to 5.5 BAR)	60	4.1	75	5.2	700	1260	2760	4900	9000	12,300	700	1230	2760	4900	9000	12,300		
			100	6.9	970	1740	4010	7000	15,000	20,400	970	1740	4010	7000	15,000	20,400		
			150	10.3	1420	2580	5850	10,500	23,300	35,200	1420	2580	5850	10,500	23,300	35,200		
			200	13.8	1850	3370	7630	13,700	30,400	53,900	1850	3370	7630	13,700	30,400	48,500		
			300	20.7	2700	4910	11,200	20,100	44,600	79,000 <sup>5</sup>	2700	4910	11,200	20,100	44,600	71,000		
			500	34.5	4400	8090	18,300	32,900	73,000 <sup>5</sup>	38,800 <sup>5</sup>	4400	8090	18,300	32,900	73,000	116,000		
			750	51.8	6600	12,000	27,200	48,900 <sup>5</sup>	53,000 <sup>5</sup>	32,000	6600	12,000	27,200	48,900	108,000	172,000		
			1000	69.0	8700	16,000	36,100	43,000 <sup>5</sup>	52,000		8700	16,000	36,100	65,000	144,000			
			1250	86.2	11,000	19,000	45,000	70,000 <sup>5</sup>			11,000	19,000	45,000	81,000				
			1500	103	13,000	22,000	54,000 <sup>5</sup>	43,000			13,000	22,000	54,000	97,000				
			1750	121	15,000	25,000	26,000				15,000	25,000	63,000					
			2000	138	17,000	28,000					17,000	28,000						
	80	5.5	100	5.2	900	1630	3750	6400	12,000	20,400	900	1630	3750	6400	12,800	20,400		
			150	10.3	1410	2580	5850	10,500	23,300	41,300	1410	2580	5850	10,500	23,300	37,200		
			200	13.8	1850	3370	7630	13,700	30,400	53,900	1850	3370	7630	13,700	30,400	48,500		
			300	20.7	2700	4910	11,200	20,100	44,600	79,000 <sup>5</sup>	2700	4910	11,200	20,100	44,600	71,000		
			500	34.5	4400	8090	18,300	32,900	73,000 <sup>5</sup>	48,000 <sup>5</sup>	4400	8090	18,300	32,900	73,000	116,000		
			750	51.8	6600	12,000	27,200	48,900	87,000 <sup>5</sup>	44,000	6600	12,000	27,200	48,900	108,000	172,000		
			1000	69.0	8700	16,000	36,100	65,000 <sup>5</sup>	63,000		8700	16,000	36,100	65,000	144,000			
			1250	86.2	11,000	19,000	45,000	63,000 <sup>5</sup>			11,000	19,000	45,000	81,000				
			1500	103	13,000	22,000	54,000	86,000			13,000	22,000	54,000	97,000				
			1750	121	15,000	25,000	63,000				15,000	25,000	63,000					
			2000	138	17,000	28,000					17,000	28,000						
			70 to 150 PSIG (4.8 to 10.3 BAR)	100	6.9	150	10.3	1170	2510	5540	8600	16,000	22,000	1170	2510	5540	8600	16,000
200	13.8	1850				3370	7630	13,700	22,000	33,000	1850	3370	7630	13,700	22,000	33,000		
300	20.7	2700				4910	11,200	20,100	35,000	65,300	2700	4910	11,200	20,100	35,000	59,000		
500	34.5	4400				8090	18,300	32,900	73,000	129,000	4400	8090	18,300	32,900	73,000	116,000		
750	51.8	6600				12,000	27,200	48,900	108,000	54,000 <sup>5</sup>	6600	12,000	27,200	48,900	108,000	172,000		
1000	69.0	8700				16,000	36,100	64,800	82,000 <sup>5</sup>		8700	16,000	36,100	64,800	144,000			
1250	86.2	11,000				19,000	45,000	80,000	110,000 <sup>5</sup>		11,000	19,000	45,000	80,000	179,000			
1500	103	13,000				22,000	54,000	96,000			13,000	22,000	54,000	96,000				
1750	121	15,000				25,000	63,000	112,000			15,000	25,000	63,000	112,000				
2000	138	17,000				28,000	71,000				17,000	28,000	71,000					
125	8.6	200				13.8	1250	2340	5340	8600	16,000	24,000	1250	2340	5340	8600	16,000	24,000
		300				20.7	1830	3320	7550	13,000	24,000	36,000	1830	3320	7550	13,000	24,000	36,000
		500		34.5	2700	4910	11,200	20,100	39,000	65,300	2700	4910	11,200	20,100	39,000	59,000		
		750		51.8	4400	8090	18,300	32,900	73,000	129,000	4400	8090	18,300	32,900	73,000	116,000		
		1000		69.0	6600	12,000	27,200	48,900	108,000	59,000 <sup>5</sup>	6600	12,000	27,200	48,900	108,000	172,000		
		1250		86.2	8700	16,000	36,100	64,800	58,000 <sup>5</sup>		8700	16,000	36,100	64,800	144,000			
		1500		103	11,000	19,000	45,000	80,000	75,000 <sup>5</sup>		11,000	19,000	45,000	80,000	179,000			
		1750		121	13,000	22,000	54,000	96,000			13,000	22,000	54,000	96,000				
		2000		138	15,000	25,000	63,000	112,000			15,000	25,000	63,000	112,000				
		2000		138	17,000	28,000	71,000				17,000	28,000	71,000					
		150		10.3	200	13.8	1760	3200	7290	13,000	24,000	38,000	1760	3200	7290	13,000	24,000	38,000
					300	20.7	2700	4910	11,200	20,100	44,600	64,200	2700	4910	11,200	20,100	44,600	58,000
500	34.5				4400	8090	18,300	32,900	73,000	129,000	4400	8090	18,300	32,900	73,000	116,000		
750	51.8				6600	12,000	27,200	48,900	108,000	62,000 <sup>5</sup>	6600	12,000	27,200	48,900	108,000	172,000		
1000	69.0		8700		16,000	36,100	64,800	144,000		8700	16,000	36,100	64,800	144,000				
1250	86.2		11,000		19,000	45,000	80,000	81,000 <sup>5</sup>		11,000	19,000	45,000	80,000	179,000				
1500	103		13,000		22,000	54,000	96,000			13,000	22,000	54,000	96,000					
1750	121		15,000		25,000	63,000	112,000			15,000	25,000	63,000	112,000					
2000	138	17,000	28,000	71,000				17,000	28,000	71,000								

1. Capacity is based on 20 percent droop unless otherwise noted below.  
 5. Capacities are based on 25 percent boost if setting is less than 12 PSIG (0.8 BAR), 3 PSIG (0.2 BAR) boost if setting is from 12 to 60 PSIG (0.2 to 4 BAR), and 5 percent boost if setting is greater than 60 PSIG (4 BAR).

**P627 Flow Capacities of Natural Gas** (0.6 S.G.) in SCFH<sup>1</sup>

Outlet Pressure Range	Outlet Pressure Setting		Inlet Pressure		627H or HM – 3/4" Body Size						627H or HM – 1" Body Size						
	PSIG	BAR	PSIG	BAR	Port Diameter, inches						Port Diameter, inches						
					3/32	1/8	3/16	1/4	3/8	1/2	3/32	1/8	3/16	1/4	3/8	1/2	
140 to 250 PSIG (9.7 to 17.2 BAR)	150	10.3	200	13.8	1760 <sup>6</sup>	3200 <sup>4</sup>	7290	11,500	21,600	31,000	1760 <sup>6</sup>	3200 <sup>4</sup>	7290	11,500	21,600	31,000	
			250	17.2	2260 <sup>6</sup>	4100 <sup>4</sup>	9200	15,400	28,600	40,000	2260 <sup>6</sup>	4100 <sup>4</sup>	9200	15,400	28,600	40,000	
			300	20.7	2700	4910	11,200	19,300	31,000	46,000	2700	4910	11,200	19,300	31,000	46,000	
			400	27.6	3600	6500	14,800	24,700	40,000	50,000	3600	6500	14,800	25,000	40,000	50,000	
			500	34.5	4400	8090	18,300	29,700	51,000		4400	8090	18,300	32,000	51,000		
			750	51.7	6600	12,000	27,200	43,000			6600	12,000	27,200	46,000			
			1000	69.0	8700	16,000	36,100	57,000			8700	16,000	36,100	60,000			
			1250	86.2	11,000	19,000	45,000				11,000	19,000	45,000				
			1500	103	13,000	22,000	54,000				13,000	22,000	54,000				
			1750	121	15,000	25,000	63,000				15,000	25,000	63,000				
	2000	138	17,000	28,000					17,000	28,000							
	200	13.8	250	17.2	2160 <sup>6</sup>	3850 <sup>4</sup>	8400	15,000	31,000	41,000	2160 <sup>6</sup>	3850 <sup>4</sup>	8400	15,000	31,000	41,000	
			300	20.7	2700 <sup>6</sup>	4910 <sup>4</sup>	11,200	19,500	36,000	52,000	2700 <sup>6</sup>	4910 <sup>4</sup>	11,200	19,500	36,000	52,000	
			400	27.6	3600	6500	14,800	25,500	52,000	68,000	3600	6500	14,800	26,500	52,000	68,000	
			500	34.5	4400	8090	18,300	31,000	61,000		4400	8090	18,300	33,000	61,000		
			750	51.7	6600	12,000	27,200	45,500			6600	12,000	27,200	49,000			
			1000	69.0	8700	16,000	36,100	60,000			8700	16,000	36,100	65,000			
			1250	86.2	11,000	19,000	45,000				11,000	19,000	45,000				
			1500	103	13,000	22,000	54,000				13,000	22,000	54,000				
			1750	121	15,000	25,000	63,000				15,000	25,000	63,000				
			2000	138	17,000	28,000					17,000	28,000					
	250	17.2	300	20.7	2500 <sup>6</sup>	4500 <sup>4</sup>	9900	18,500	37,000	52,000	2500 <sup>6</sup>	4500 <sup>4</sup>	9900	18,500	37,000	52,000	
			400	27.6	3600 <sup>6</sup>	6400 <sup>4</sup>	14,300	26,000	55,000	74,000	3600 <sup>6</sup>	6400 <sup>4</sup>	14,300	26,000	55,000	81,000	
			500	34.5	4400	8090	18,300	33,000	64,000	87,000	4400	8090	18,300	33,000	64,000	95,000	
			750	21.7	6600	12,000	27,200	49,000	93,000		6600	12,000	27,200	49,000	102,000		
			1000	69.0	8700	16,000	36,100	65,000			8700	16,000	36,100	65,000			
			1250	86.2	11,000	19,000	45,000	81,000			11,000	19,000	45,000	81,000			
			1500	103	13,000	22,000	54,000				13,000	22,000	54,000				
1750			121	15,000	25,000	63,000				15,000	25,000	63,000					
2000			138	17,000	28,000	71,000				17,000	28,000	71,000					
240 to 500 PSIG (16.5 to 34.5 BAR)			250	17.2	300	20.7	2500 <sup>6</sup>	4500 <sup>4</sup>	9300	14,000	25,000	37,000	2500 <sup>6</sup>	4500 <sup>4</sup>	9300	14,000	25,000
	400	27.6			3600 <sup>6</sup>	6400 <sup>4</sup>	14,300	21,400	36,000	49,000	3600 <sup>6</sup>	6400 <sup>4</sup>	14,300	21,400	36,000	49,000	
	500	34.6			4400	8090	18,300	26,300	42,000	62,000	4400	8090	18,300	26,300	42,000	62,000	
	750	51.7			6600	12,000	27,200	37,100	57,000		6600	12,000	27,200	37,100	57,000		
	1000	69.0			8700	16,000	36,100	47,400			8700	16,000	36,100	47,400			
	1250	86.2			11,000	19,000	45,000	57,000			11,000	19,000	45,000	57,000			
	1500	103			13,000	22,000	54,000				13,000	22,000	54,000				
	1750	121			15,000	25,000	63,000				15,000	25,000	63,000				
	2000	138			17,000	28,000	71,000				17,000	28,000	71,000				
	300	20.7			350	24.1	2900 <sup>6</sup>	5150 <sup>4</sup>	11,300	18,400	31,000	45,000	2900 <sup>6</sup>	5150 <sup>4</sup>	11,300	18,400	31,000
			400	27.6	3500 <sup>6</sup>	6200 <sup>4</sup>	13,700	23,400	40,000	52,000	3500 <sup>6</sup>	6200 <sup>4</sup>	13,700	23,400	40,000	52,000	
			500	34.5	4400	8090	18,300	32,000	53,000	67,000	4400	8090	18,300	32,000	53,000	67,000	
			750	51.7	6600	12,000	27,200	48,000	80,000		6600	12,000	27,200	48,000	80,000		
			1000	69.0	8700	16,000	36,100	62,000			8700	16,000	36,100	62,000			
			1250	86.2	11,000	19,000	45,000	79,000			11,000	19,000	45,000	79,000			
			1500	103	13,000	22,000	54,000				13,000	22,000	54,000				
			1750	121	15,000	25,000	63,000				15,000	25,000	63,000				
	2000	138	17,000	28,000	71,000				17,000	28,000	71,000						
400	27.6	450	31.0	3600 <sup>6</sup>	6400 <sup>4</sup>	14,000	25,000	47,000	67,000	3600 <sup>6</sup>	6400 <sup>4</sup>	14,000	25,000	47,000	67,000		
		500	34.6	4400 <sup>6</sup>	8090 <sup>4</sup>	18,300	32,000	54,000	77,000	4400 <sup>6</sup>	8090 <sup>4</sup>	18,300	32,000	54,000	77,000		
		750	51.7	6600	12,000	27,200	49,000	91,000		6600	12,000	27,200	49,000	91,000			
		1000	69.0	8700	16,000	36,100	65,000			8700	16,000	36,100	65,000				
		1250	86.2	11,000	19,000	45,000	81,000			11,000	19,000	45,000	81,000				
		1500	103	13,000	22,000	54,000				13,000	22,000	54,000					
		1750	121	15,000	25,000	63,000				15,000	25,000	63,000					
		2000	138	17,000	28,000	71,000				17,000	28,000	71,000					
		500	34.5	550	37.9	4300 <sup>6</sup>	7700 <sup>4</sup>	16,800	33,000	62,000	90,000	4300 <sup>6</sup>	7700 <sup>4</sup>	16,800	33,000	62,000	90,000
				600	47.4	4900 <sup>6</sup>	8800 <sup>4</sup>	19,400	37,000	70,000	104,000	4900 <sup>6</sup>	8800 <sup>4</sup>	19,400	37,000	70,000	104,000
750	51.7			6600	12,000	27,200	49,000	88,000	137,000	6600	12,000	27,200	49,000	88,000	140,000		
1000	69.0			8700	16,000	36,100	65,000	130,000		8700	16,000	36,100	65,000	130,000			
1250	86.2			11,000	19,000	45,000	81,000			11,000	19,000	45,000	81,000				
1500	103			13,000	22,000	54,000	97,000			13,000	22,000	54,000	97,000				
1750	121			15,000	25,000	63,000				15,000	25,000	63,000					
2000	138			17,000	28,000	71,000				17,000	28,000	71,000					

1. Capacity is based on 20 percent droop unless otherwise noted below.  
 4. Outlet pressure setting may shift ± 15 PSIG.  
 6. Small orifices and low pressure drops may cause the set point to shift + 15 PSIG (1.3 BAR).

**P627 Flow Capacities of Natural Gas** (0.6 S.G.) in SCFH<sup>1</sup>



Outlet Pressure Range	Outlet Pressure Setting		Inlet Pressure		627H or HM – 2" Body Size								
	PSIG	BAR	PSIG	BAR	Port Diameter, inches								
					3/32	1/8	3/16	1/4	3/8	1/2			
140 to 250 PSIG (9.7 to 17.2 BAR)	150	10.3	200	13.8	1760 <sup>6</sup>	3200 <sup>4</sup>	7290	13,700	24,100	31,000			
			250	17.2	2260 <sup>6</sup>	4100 <sup>4</sup>	9200	16,100	28,600	40,000			
			300	20.7	2700	4910	11,200	19,300	31,000	46,000			
			400	27.6	3600	6500	14,800	25,000	40,000	50,000			
			500	34.5	4400	8090	18,300	32,000					
			750	51.7	6600	12,000	27,200	48,000					
			1000	69.0	8700	16,000	36,100	65,000					
			1250	86.2	11,000	19,000	45,000						
			1500	103	13,000	22,000	54,000						
			1750	121	15,000	25,000	63,000						
			2000	138	17,000	28,000							
			200	13.8	250	17.2	2160 <sup>6</sup>	3850 <sup>4</sup>	8400	16,100	33,000	41,000	
	300	20.7	2700 <sup>6</sup>		4910 <sup>4</sup>	11,200	20,100	36,000	52,000				
	400	27.6	3600		6500	14,800	26,500	52,000	68,000				
	500	34.5	4400		8090	18,300	33,000	61,000					
	750	51.7	6600		12,000	27,200	49,000						
	1000	69.0	8700		16,000	36,100	65,000						
	1250	86.2	11,000		19,000	45,000							
	1500	103	13,000		22,000	54,000							
	1750	121	15,000		25,000	63,000							
	2000	138	17,000		28,000								
	250	17.2	300		20.7	2500 <sup>6</sup>	4500 <sup>4</sup>	9900	18,500	37,000	75,000		
	400		27.6		3600 <sup>6</sup>	6400 <sup>4</sup>	14,300	26,000	55,000	81,000			
	500		34.5	4400	8090	18,300	33,000	64,000	95,000				
750	51.7		6600	12,000	27,200	49,000	102,000						
1000	69.0		8700	16,000	36,100	65,000							
1250	86.2		11,000	19,000	45,000	81,000							
1500	103		13,000	22,000	54,000								
1750	121		15,000	25,000	63,000								
2000	138		17,000	28,000	71,000								
240 to 500 PSIG (16.5 to 34.5 BAR)	250		17.2	300	20.7	2500 <sup>6</sup>	4500 <sup>4</sup>	9300	14,000	25,000	37,000		
				400	27.6	3600 <sup>6</sup>	6400 <sup>4</sup>	14,300	21,400	36,000	49,000		
				500	34.6	4400	8090	18,300	26,300	42,000	62,000		
		750		51.7	6600	12,000	27,200	37,100	57,000				
		1000		69.0	8700	16,000	36,100	47,400					
		1250		86.2	11,000	19,000	45,000	57,000					
		1500		103	13,000	22,000	54,000						
		1750		121	15,000	25,000	63,000						
		2000		138	17,000	28,000	71,000						
		300		20.7	350	24.1	2900 <sup>6</sup>	5150 <sup>4</sup>	11,300	18,400	31,000	45,000	
		400			27.6	3500 <sup>6</sup>	6200 <sup>4</sup>	13,700	23,400	40,000	52,000		
		500			34.5	4400	8090	18,300	32,000	53,000	67,000		
	750	51.7	6600		12,000	27,200	48,000	80,000					
	1000	69.0	8700		16,000	36,100	62,000						
	1250	86.2	11,000		19,000	45,000	79,000						
	1500	103	13,000		22,000	54,000							
	1750	121	15,000		25,000	63,000							
	2000	138	17,000		28,000	71,000							
	240 to 500 PSIG (16.5 to 34.5 BAR)	400	27.6		450	31.0	3600 <sup>6</sup>	6400 <sup>4</sup>	14,000	25,000	47,000	67,000	
					500	34.6	4400 <sup>6</sup>	8090 <sup>4</sup>	18,300	32,000	54,000	77,000	
					750	51.7	6600	12,000	27,200	49,000	91,000		
				1000	69.0	8700	16,000	36,100	65,000				
				1250	86.2	11,000	19,000	45,000	81,000				
				1500	103	13,000	22,000	54,000					
1750				121	15,000	25,000	63,000						
2000				138	17,000	28,000	71,000						
500				34.5	550	37.9	4300 <sup>6</sup>	7700 <sup>4</sup>	16,800	33,000	62,000	90,000	
600					47.4	4900 <sup>6</sup>	8800 <sup>4</sup>	19,400	37,000	70,000	104,000		
750					51.7	6600	12,000	27,200	49,000	88,000	140,000		
1000					69.0	8700	16,000	36,100	65,000	130,000			
1250	86.2	11,000	19,000		45,000	81,000							
1500	103	13,000	22,000		54,000	97,000							
1750	121	15,000	25,000	63,000									
2000	138	17,000	28,000	71,000									

1. Capacity is based on 20 percent droop unless otherwise noted below.  
 4. Outlet pressure setting may shift ± 15 PSIG.  
 6. Small orifices and low pressure drops may cause the set point to shift + 15 PSIG (1.3 BAR).

**P627 Flow Coefficients**

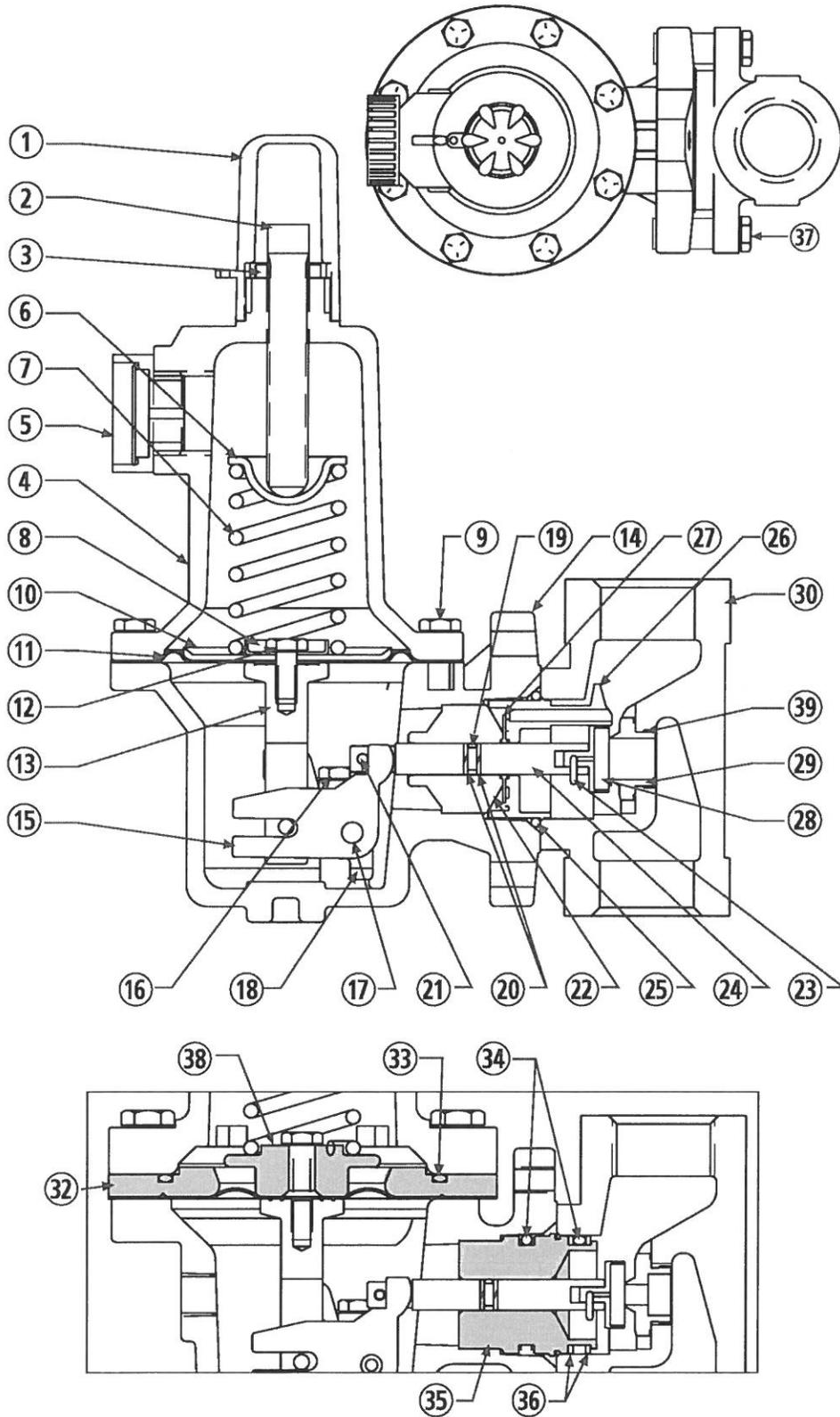
Orifice Size		3/4 Inch Body			1 Inch (DIN 25) Body			2 Inch (DIN 50) Body			K
Inches	mm	Wide-Open C <sub>v</sub> for External Relief Sizing	Wide-Open C <sub>v</sub> for External Relief Sizing	C <sub>1</sub>	Wide-Open C <sub>v</sub> for External Relief Sizing	Wide-Open C <sub>v</sub> for External Relief Sizing	C <sub>1</sub>	Wide-Open C <sub>v</sub> for External Relief Sizing	Wide-Open C <sub>v</sub> for External Relief Sizing	C <sub>1</sub>	
3/32	2.4	6.9	0.24	29.2	6.9	0.24	28.5	6.9	0.23	29.7	0.72
1/8	3.2	12.5	0.43	29.1	12.5	0.43	29.4	12.5	0.42	29.5	0.62
3/16	4.8	29	1.01	28.6	29	0.93	31.2	29	1.02	28.5	0.72
1/4	6.4	50	1.63	30.5	50	1.71	29.3	52	1.66	31.3	0.76
3/8	9.5	108	2.99	36.1	108	3.42	31.6	115	3.39	33.9	0.79
1/2	12.7	190	4.87	39.0	190	5.29	35.9	200	5.01	39.9	.074

## P627 Parts

Item	Description	Qty.	Part Number
1	Cover Adj. Screw, Plastic	1	610-053-000
2	Adjustment Screw	1	648-465-000
3	Locknut	1	634-154-000
4	Bonnet, P627 - Aluminum	1	604-210-000
	Bonnet, P627M, P627H & P627HM - Steel		604-211-000
	Bonnet, P627 - Stainless		604-266-000
5	Vent Screw Assembly	1	836-005-000
6	Spring Guide, Upper	1	626-079-000
7	Range Spring	1	5-20 PSIG - Yellow
	15-40 PSIG - Green		655-661-001
	35-80 PSIG & 10-95 - PSIG Blue		655-661-002
	70-150 PSIG - Red		655-661-003
	140-250 PSIG - Blue		655-661-002
	240-500 PSIG - Red		655-661-003
8	Spring Guide, Lower (P627 or P627M only)	1	643-191-000
9	Al Spring Case Screws - P627	8	648-466-000
	Steel Spring Case Screws - P627 or P627M		648-467-003
	Steel Spring Case Screws - P627H or P627HM		648-467-002
	SS Spring Case Screws - P627 or P627M		648-550-000
	SS Spring Case Screws - P627H or P627HM		648-550-001
10	Diaphragm Piston (P627 or P627M only)	1	637-306-000
11	Diaphragm P627 & P627M Al / Iron (Nitrile)	1	618-069-000
	Diaphragm P627 & P627M Steel / SS (Nitrile)		618-070-000
	Diaphragm P627H & P627HM Steel / SS (Neoprene)		618-070-001
	Diaphragm P627 & P627M Al / Iron (Fluoro)		618-069-001
	Diaphragm P627 & P627M Steel / SS (Fluoro)		618-096-000
	Diaphragm P627H & P627HM Steel / SS (Fluoro)		618-096-001
12	Screw, Diaphragm P627 & P627M	1	648-466-002
	Screw, Diaphragm P627H & P627HM	1	648-467-000
13	Post, Pusher P627 & P627M Assy	1	827-005-000
	Post, Pusher P627H & P627HM Assy		827-005-001
	Post, Pusher P627 & P627M, NACE		827-008-000
	Post, Pusher P627H & P627HM, NACE		827-008-001
14	Diaphragm Case P627 - Aluminum	1	629-202-000
	Diaphragm Case P627 & P627H - Steel		629-203-000
	Diaphragm Case P627M & P627HM - Steel		629-204-000
	Diaphragm Case, Aluminum (for Steel Body)		629-215-000
	Diaphragm Case P627 - Stainless		629-242-000
	Diaphragm Case P627H - Stainless		629-243-000
15	Lever, Stainless	1	703-011-000
	Lever		703-004-000
	Lever, NACE		703-005-000
16	Lever Screw	2	648-466-002
	Lever Screw, NACE		648-474-000
17	Pin, Lever	1	635-053-000
	Pin, Lever, NACE		635-057-000
18	Lever Retainer, Stainless	1	643-210-000
	Lever Retainer		643-192-000
19	Lever Retainer, NACE	1	643-194-000
	Stem O-ring, Nitrile		649-000-003
	Stem O-ring, Fluorocarbon	1	649-000-343
20	Stem Backup Ring, TFE	2	644-047-000
21	Pin, Groove, Stainless	1	635-076-000
	Pin, Groove		635-054-000
	Pin, Groove, NACE		635-058-000
22	Stem Guide	1	626-083-000
23	Pin Clip	1	635-055-000
	Pin Clip NACE		635-056-000

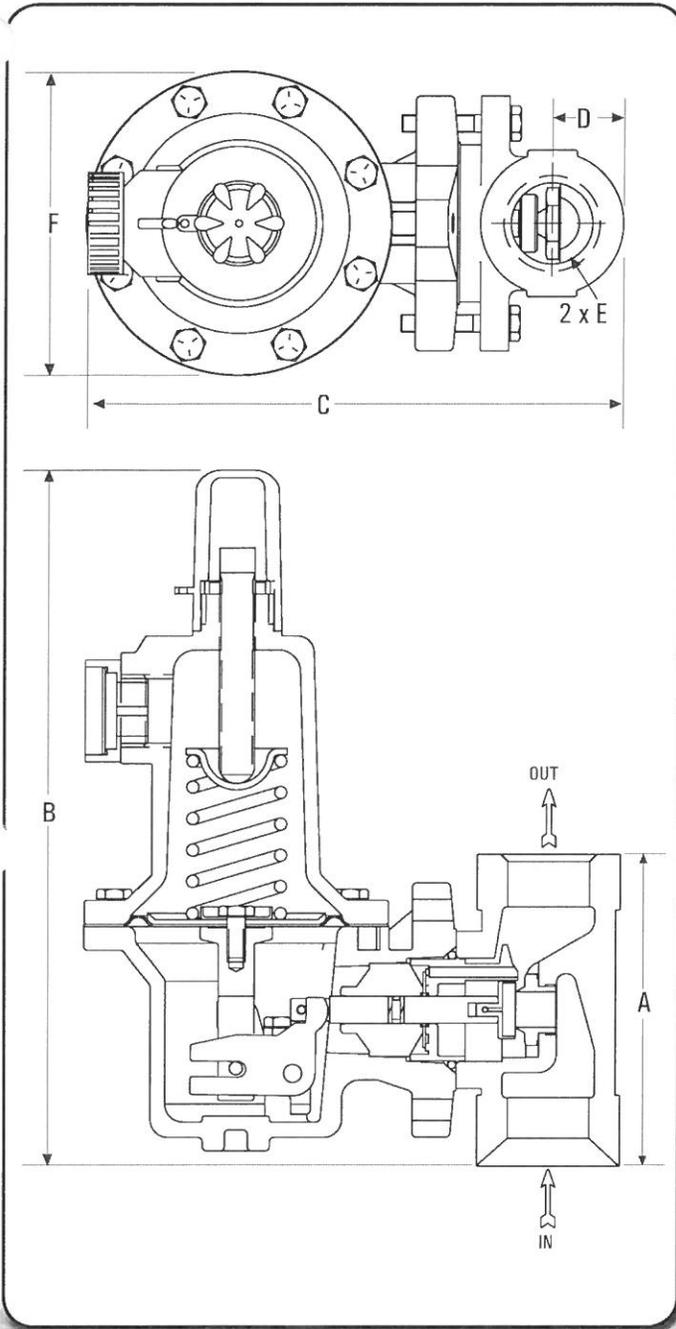
Item	Description	Qty.	Part Number
24	Stem, 316SS	1	689-005-000
25	Diaphragm Case O-ring, Nitrile (P627 & P627H)	1	649-280-000
	Diaphragm Case O-ring, Fluorocarbon (P627 & P627H)		649-280-001
26	Boost Body P627 or P627H	1	686-003-000
27	Stabilizer, Nitrile (P627 & P627H)	1	649-278-000
	Stabilizer, Fluorocarbon (P627 & P627H)		649-278-001
28	Seat assembly - Aluminum holder/nitrile disk	1	822-019-000
	Seat assembly - Aluminum / Nylon		822-019-001
	Seat assembly - Aluminum / Fluorocarbon		822-040-000
	Seat assembly - 316SS Holder / Nitrile		822-020-000
	Seat assembly - 316SS / Nylon		822-020-001
	Seat assembly - 316SS / Fluorocarbon	822-040-001	
29	Orifice - Aluminum - 3/32"	1	688-013-005
	Orifice - Aluminum - 1/8"		688-013-004
	Orifice - Aluminum - 3/16"		688-013-003
	Orifice - Aluminum - 1/4"		688-013-002
	Orifice - Aluminum - 3/8"		688-013-001
	Orifice - Aluminum - 1/2"		688-013-000
	Orifice - 316SS - 3/32"		688-014-005
	Orifice - 316SS - 1/8"		688-014-004
	Orifice - 316SS - 3/16"		688-014-003
	Orifice - 316SS - 1/4"		688-014-002
	Orifice - 316SS - 3/8"	688-014-001	
	Orifice - 316SS - 1/2"	688-014-000	
30	Iron Body - 3/4 NPT	1	664-280-000
	Iron Body - 1 NPT		664-280-001
	Iron Body - 2 NPT		664-282-000
	Steel Body - 3/4 NPT		664-281-000
	Steel Body - 1 NPT		664-281-001
	Steel Body - 2 NPT		664-283-000
	LCC Body - 3/4 NPT		664-325-000
	LCC Body - 1 NPT LCC		664-325-001
	LCC Body - 2 NPT LCC		664-326-000
	Stainless Body - 3/4 NPT		664-394-000
	Stainless Body - 1 NPT		664-394-001
	Stainless Body - 2 NPT		664-395-000
	Steel - 3/4 NPT Socket Weld		664-356-000
Steel - 1 NPT Socket Weld	664-358-000		
Steel - 2 NPT Socket Weld	664-359-000		
Stainless - 3/4" Socket Weld	664-422-000		
Stainless - 1" Socket Weld	664-423-000		
Stainless - 2" Socket Weld	664-424-000		
32	Diaphragm Spacer (P627H or P627HM only)	1	654-167-000
33	O-ring, Spacer, Nitrile (P627H or P627HM only)	1	649-279-000
	O-ring, Spacer, Fluorocarbon (P627H or P627HM only)		649-279-001
34	O-ring, Throat Block, Nitrile	2	649-281-000
	O-ring, Throat Block, Fluorocarbon		649-281-001
35	Throat Block (P627M or P627HM only)	1	626-081-000
36	Backup Ring, Throat Block	2	644-048-000
37	Steel Build Bolt / 1" Aluminum Housing	2	648-466-001
	Steel Build Bolt / 2" Aluminum Housing		648-466-003
	Steel Build Bolt / Steel Housing		648-467-001
	Stainless Build Bolt / 1" Aluminum Housing		648-548-001
	Stainless Build Bolt / 2" Aluminum Housing		648-548-003
	Stainless Build Bolt / Steel or SS Housing	648-549-000	
38	Spring Guide, Lower (P627H & P627HM only)	1	637-307-000
40	Name Plate Drive Screw (not shown)	2	648-464-000
41	NACE Tag (not shown)	1	632-503-000

P627 Parts



## P627 / R627 Dimensions

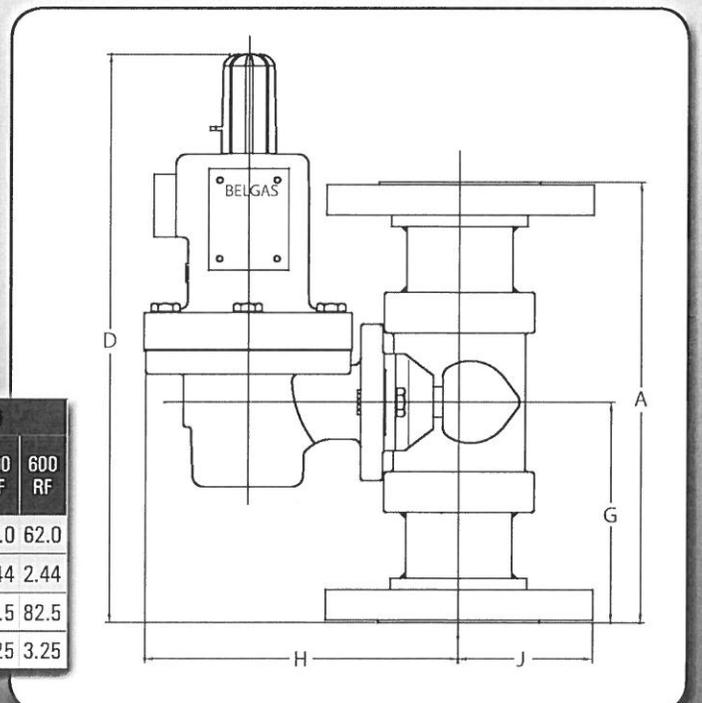
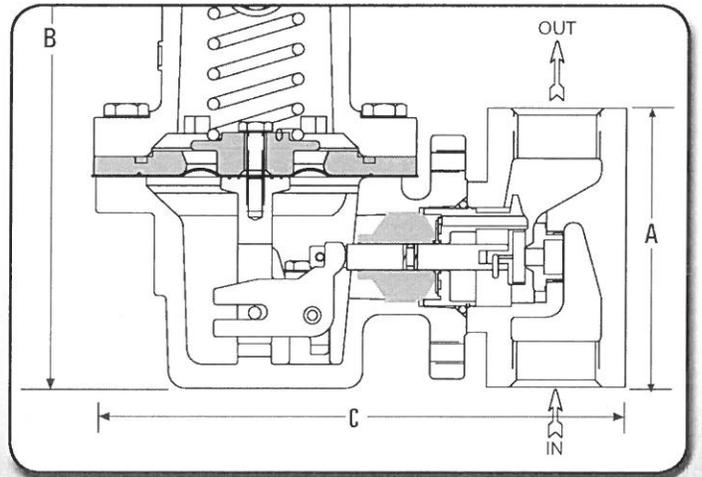
Aluminum/Cast Ductile Iron Units



Type	Body Size		A	B	C	D	E	F*
627 & 627M	3/4"	mm	104	243	190	26	3/4"	108
		inches	4.08	9.54	7.46	1.0		4.25
	1"	mm	104	243	190	26	1"	108
		inches	4.08	9.54	7.46	1.0		4.25
	2"	mm	127	256	218	43	2"	108
		inches	5.0	10.06	8.56	1.69		4.25
627H & 627HM	3/4"	mm	104	250	194	26	3/4"	120
		inches	4.08	9.82	7.62	1.0		4.70
	1"	mm	104	250	194	26	1"	120
		inches	4.08	9.82	7.62	1.0		4.70
	2"	mm	127	265	224	43	2"	120
		inches	5.0	10.44	8.80	1.69		4.70

\*F Dimensions for steel P627 and P627M - 120 mm/4.7 inches

## P627H



## P627 / R627 Dimensions

Flange Units

Type	Body Size	A			D			G			H	J			
		150 RF	300 RF	600 RF	150 RF	300 RF	600 RF	150 RF	300 RF	600 RF		Steel	150 RF	300 RF	600 RF
P627 & R627 Flanged Units	1"	mm	184	197	210	286	292	298	91.9	98.6	105	172	53.8	62.0	62.0
		in.	7.25	7.75	8.25	11.24	11.5	11.75	3.62	3.88	4.12	6.75	2.12	2.44	2.44
	2"	mm	254	267	286	321	327	337	127	133	143	181	76.2	82.5	82.5
		in.	10	10.5	11.25	12.63	12.88	13.25	5	5.25	5.62	7.12	3	3.25	3.25

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# Section 11

## *Miscellaneous*