

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 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
	Cast Ductile Iron Body / Bonnet / Diaphragm Case
	Steel Body / Aluminum Bonnet & Diaphragm Case (NACE only)
	Steel Casing / LCC Steel Body
	Aluminum Casing / LCC Steel Body
	CF8M SS Body, Bonnet & Diaphragm Case
Diaphragm	
Options	Nitrile, Fluorocarbon (FKM) (low pressure) or Neoprene (high pressure)
Seat	
Options	Nitrile
	Nylon
	Fluorocarbon (FKM)
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		
Aluminum Case	6 lbs	2.7 kg
Steel Case	10 lbs	4.5 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	17.2	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	25.9	N/A	N/A
	Ductile Iron	465	32	465	32	N/A	N/A
	Steel / SS	1500	82.7	1500	82.7	1500	82.7
Maximum diaphragm casing overpressure (above setpoint) to prevent damage to internal parts.	All	60	4.1	60	4.1	120	8.3

P627 Regulator Rebuild Kits

	Kit Includes	Part Number		Kit Includes	Part Number
P627 Low Pressure (150 PSIG Spring or Lighter)	Nitrile diaphragms (2), Nitrile valve disk, O-rings, back-up rings, and retaining pin	971-627-000	P627 Low Pressure NACE (150 PSIG Spring or Lighter)	Nitrile diaphragms (2), SS Nitrile valve disk, O-rings, back-up rings, and retaining pin	971-627-N00
	Nitrile diaphragms (2), Nylon valve disk, O-rings, back-up rings, and retaining pin.	971-627-001		Nitrile diaphragms (2), SS Nylon valve disk, O-rings, back-up rings, and retaining pin	971-627-N01
P627 High Pressure (250 or 500 PSIG Spring)	Neoprene diaphragm, Nitrile valve disk, O-rings, back-up rings, and retaining pin	971-627-002	P627 High Pressure NACE (250 or 500 PSIG Spring)	Neoprene diaphragm, SS Nitrile valve disk, O-rings, back-up rings, and retaining pin	971-627-N02
	Neoprene diaphragm, Nylon valve disk, O-rings, back-up rings, and retaining pin	971-627-003		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
								NOTE: Must use Steel or Stainless Steel Case. Nylon Seat recommended.
								Special Adders
0								None
2								Monitor
A								150 #RF*
B								300 #RF*
C								600 #RF*
D								Socket Weld*
E								900 #RTJ*
F								900 #RTJ & Monitor*
G								1500 #RTJ*
H								1500 #RTJ & Monitor*
W								150 #RF & Monitor*
X								300 #RF & Monitor*
Y								600 #RF & Monitor*
Z								Socket Weld & Monitor*
								Versions
0								Standard
N								NACE
F								NACE & Fluorocarbon (FKM) 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 (FKM)
								Case / Body
D								Iron / Iron
0								Aluminum / Iron
1								Steel / Steel
2								Aluminum / Steel
3								Iron / Steel
4								Aluminum / Stainless Steel
6								Aluminum / LCC Steel
7								Steel / LCC Steel
8								Steel / Iron
9								Stainless / Stainless

SEAT SELECTION

Nitrile or **FKM** are recommended when outlet pressure is ≤15 PSIG. For special applications requiring Nylon, please consult factory.

Nylon is recommended if:

- Inlet Pressure is ≥500 PSIG
- Outlet Pressure is >150 PSIG
- Pressure Differential is >150 PSIG

Nitrile or **FKM** are recommended for all other applications.

P627 Flow Capacities of Natural Gas (0.6 S.G.) in SCFH¹

Outlet Pressure Range	Outlet Pressure Setting		Inlet Pressure		3/4" Body Size						1" 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
5 to 20 PSIG ² (0.34 to 1.4 BAR)	5 ³	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
	10	0.69	100	6.9	990	1800	3800	5980	7440	7900	990	1800	4070	7310	12,500	16,000
			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					
	60	4.1	75	5.2	700	1230	2760	4750	8620	15,200	700	1230	2760	4880	8630	16,100
			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 SCFH¹

Outlet Pressure Range	Outlet Pressure Setting		Inlet Pressure		3/4" Body Size						1" 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
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					
					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
5 to 20 psig ² (0.34 to 1.4 BAR)	5 ³	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	1420	2580	5850	10,500	21,000	33,000
			200	13.8	1850	3370	7630	13,700	22,700	24,000	1850	3370	7630	13,700	27,300	43,000
			300	20.7	2700	4910	11,200	10,300	12,800		2700	4910	11,200	20,100	40,100	
			500	34.5	4400	8090	18,300	21,000			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	1420	2580	5850	10,500	21,000	33,000
			200	13.8	1850	3370	7630	13,700	24,000	33,000	1850	3370	7630	13,700	27,300	43,000
			300	20.7	2700	4910	11,200	20,100	19,600		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 droop 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 droop is 2 PSIG (0.14 BAR)

P627 Flow Capacities of Natural Gas (0.6 S.G.) in SCFH¹

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	2700	4910	11,200	20,100	40,100	71,000
			500	34.5	4400	8090	18,300	32,900	22,000		4400	8090	18,300	32,900	65,000	
			750	51.7	6600	12,000	27,200	28,000			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	2700	4910	11,200	20,100	44,600	71,000
			500	34.5	4400	8090	18,300	32,900	73,000	38,800	4400	8090	18,300	32,900	73,000	116,000
			750	51.8	6600	12,000	27,200	48,900	53,000	32,000	6600	12,000	27,200	48,900	108,000	172,000
			1000	69.0	8700	16,000	36,100	43,000	52,000		8700	16,000	36,100	65,000	144,000	
			1250	86.2	11,000	19,000	45,000	70,000			11,000	19,000	45,000	81,000		
			1500	103	13,000	22,000	54,000	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	2700	4910	11,200	20,100	44,600	71,000
			500	34.5	4400	8090	18,300	32,900	73,000	48,000	4400	8090	18,300	32,900	73,000	116,000
			750	51.8	6600	12,000	27,200	48,900	87,000	44,000	6600	12,000	27,200	48,900	108,000	172,000
			1000	69.0	8700	16,000	36,100	65,000	63,000		8700	16,000	36,100	65,000	144,000	
			1250	86.2	11,000	19,000	45,000	63,000			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	22,000
			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	6600	12,000	27,200	48,900	108,000	172,000
			1000	69.0	8700	16,000	36,100	64,800	82,000		8700	16,000	36,100	64,800	144,000	
			1250	86.2	11,000	19,000	45,000	80,000	110,000		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	150	10.3	1250	2340	5340	8600	16,000	24,000	1250	2340	5340	8600	16,000	24,000
			200	13.8	1830	3320	7550	13,000	24,000	36,000	1830	3320	7550	13,000	24,000	36,000
			300	20.7	2700	4910	11,200	20,100	39,000	65,300	2700	4910	11,200	20,100	39,000	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	59,000	6600	12,000	27,200	48,900	108,000	172,000
			1000	69.0	8700	16,000	36,100	64,800	58,000		8700	16,000	36,100	64,800	144,000	
			1250	86.2	11,000	19,000	45,000	80,000	75,000		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			
	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	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		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.

P627 Flow Capacities of Natural Gas (0.6 S.G.) in SCFH¹

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 ⁶	3200 ⁴	7290	11,500	21,600	31,000	1760 ⁶	3200 ⁴	7290	11,500	21,600	31,000
			250	17.2	2260 ⁶	4100 ⁴	9200	15,400	28,600	40,000	2260 ⁶	4100 ⁴	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 ⁶	3850 ⁴	8400	15,000	31,000	41,000	2160 ⁶	3850 ⁴	8400	15,000	31,000	41,000
			300	20.7	2700 ⁶	4910 ⁴	11,200	19,500	36,000	52,000	2700 ⁶	4910 ⁴	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 ⁶	4500 ⁴	9900	18,500	37,000	52,000	2500 ⁶	4500 ⁴	9900	18,500	37,000	75,000
			400	27.6	3600 ⁶	6400 ⁴	14,300	26,000	55,000	74,000	3600 ⁶	6400 ⁴	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 ⁶	4500 ⁴	9300	14,000	25,000	37,000	2500 ⁶	4500 ⁴	9300	14,000	25,000	37,000
			400	27.6	3600 ⁶	6400 ⁴	14,300	21,400	36,000	49,000	3600 ⁶	6400 ⁴	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 ⁶	5150 ⁴	11,300	18,400	31,000	45,000	2900 ⁶	5150 ⁴	11,300	18,400	31,000	45,000
			400	27.6	3500 ⁶	6200 ⁴	13,700	23,400	40,000	52,000	3500 ⁶	6200 ⁴	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			
240 to 500 PSIG (16.5 to 34.5 BAR)	400	27.6	450	31.0	3600 ⁶	6400 ⁴	14,000	25,000	47,000	67,000	3600 ⁶	6400 ⁴	14,000	25,000	47,000	67,000
			500	34.6	4400 ⁶	8090 ⁴	18,300	32,000	54,000	77,000	4400 ⁶	8090 ⁴	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 ⁶	7700 ⁴	16,800	33,000	62,000	90,000	4300 ⁶	7700 ⁴	16,800	33,000	62,000	90,000
			600	47.4	4900 ⁶	8800 ⁴	19,400	37,000	70,000	104,000	4900 ⁶	8800 ⁴	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 SCFH¹



Outlet Pressure Range	Outlet Pressure Setting		Inlet Pressure		627H or HM – 2" Body Size					
	PSIG	BAR	PSIG	BAR	Port Diameter, inches					
140 to 250 PSIG (9.7 to 17.2 BAR)	150	10.3	200	13.8	1760 ⁶	3200 ⁴	7290	13,700	24,100	31,000
			250	17.2	2260 ⁶	4100 ⁴	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 ⁶	3850 ⁴	8400	16,100	33,000	41,000
			300	20.7	2700 ⁶	4910 ⁴	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 ⁶	4500 ⁴	9900	18,500	37,000	75,000
			400	27.6	3600 ⁶	6400 ⁴	14,300	26,000	55,000	81,000
			500	34.5	4400	8090	18,300	33,000	64,000	95,000
			750	21.7	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 ⁶	4500 ⁴	9300	14,000	25,000	37,000
			400	27.6	3600 ⁶	6400 ⁴	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 ⁶	5150 ⁴	11,300	18,400	31,000	45,000
			400	27.6	3500 ⁶	6200 ⁴	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 ⁶	6400 ⁴	14,000	25,000	47,000	67,000
			500	34.6	4400 ⁶	8090 ⁴	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 ⁶	7700 ⁴	16,800	33,000	62,000	90,000
			600	47.4	4900 ⁶	8800 ⁴	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.

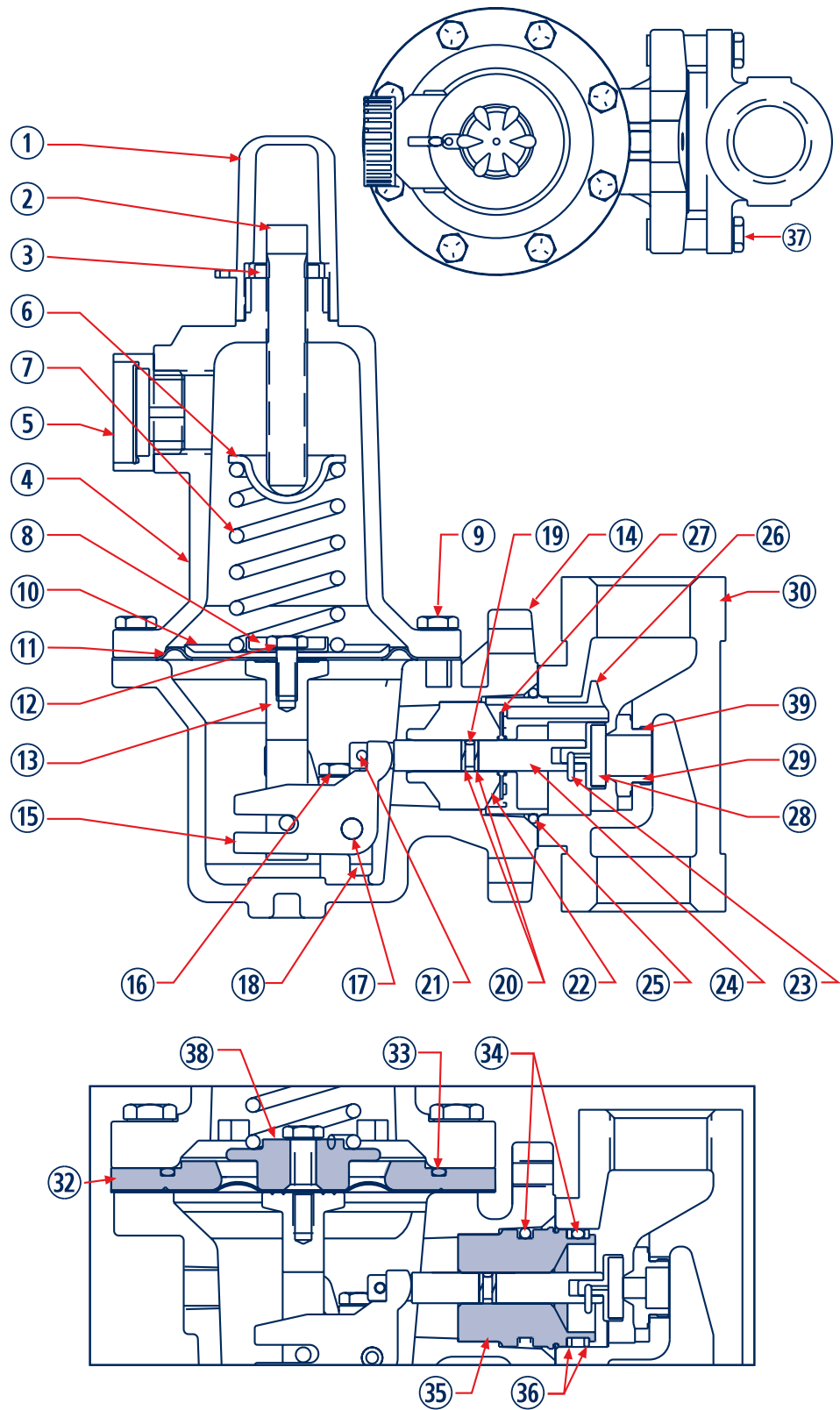
6. Small orifices and low pressure drops may cause the set point to shift +15 PSIG (1.3 BAR).

Orifice Size		3/4 Inch Body			1 Inch (DIN 25) Body			2 Inch (DIN 50) Body			K
Inches	mm	Wide-Open C _v for External Relief Sizing	Wide-Open C _v for External Relief Sizing	C ₁	Wide-Open C _v for External Relief Sizing	Wide-Open C _v for External Relief Sizing	C ₁	Wide-Open C _v for External Relief Sizing	Wide-Open C _v for External Relief Sizing	C ₁	
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

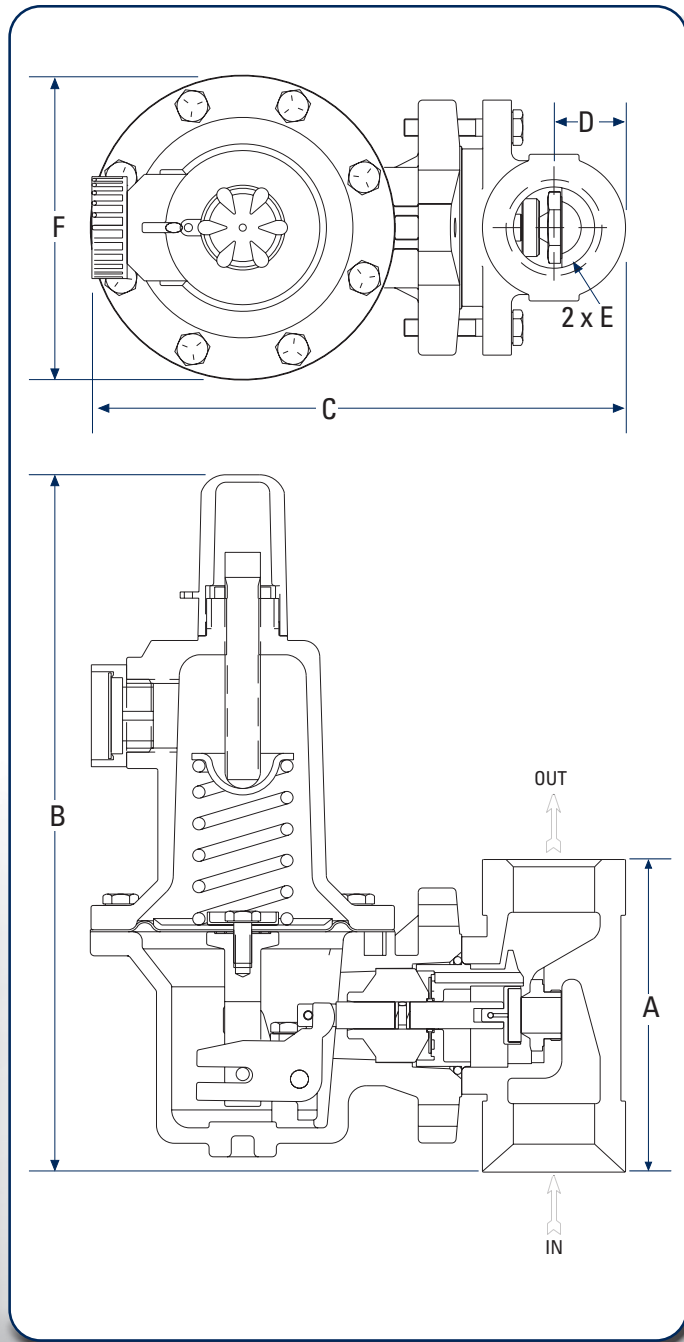
Item	Description	Qty.	Part Number	Item	Description	Qty.	Part Number
1	Cover Adj. Screw, Plastic	1	610-053-000	22	Stem Guide	1	626-083-000
2	Adjustment Screw	1	648-465-000	23	Pin Clip	1	635-055-000
3	Locknut	1	634-154-000		Pin Clip NACE		635-056-000
4	Bonnet P627 - Aluminum	1	604-210-000	24	Stem, 316SS	1	689-005-000
	Bonnet P627M, P627H & P627HM - Steel		604-211-000	25	Diaphragm Case O-ring, Nitrile (P627 & P627H)	1	649-280-000
	Bonnet P627 - Ductile Iron		604-265-000		Diaphragm Case O-ring, Fluorocarbon (P627 & P627H)		649-280-001
	Bonnet P627 - Stainless		604-266-000	26	Boost Body P627 or P627H	1	686-003-000
5	Vent Screw Assembly	1	836-005-000	27	Stabilizer, Nitrile (P627 & P627H)	1	649-278-000
6	Spring Guide, Upper	1	626-079-000		Stabilizer, Fluorocarbon (P627 & P627H)		649-278-001
7	Range Spring	1		28	Seat assembly - Aluminum holder/nitrile disk	1	822-019-000
	5-20 PSIG - Yellow		655-661-000		Seat assembly - Aluminum / Nylon		822-019-001
	15-40 PSIG - Green		655-661-001		Seat assembly - Aluminum / Fluorocarbon		822-040-000
	35-80 PSIG & 10-95 PSIG - Blue		655-661-002		Seat assembly - 316SS Holder / Nitrile		822-020-000
	70-150 PSIG - Red		655-661-003		Seat assembly - 316SS / Nylon		822-020-001
	140-250 PSIG - Blue		655-661-002		Seat assembly - 316SS / Fluorocarbon		822-040-001
	240-500 PSIG - Red		655-661-003	29	Orifice - Aluminum - 3/32"	1	688-013-005
8	Spring Guide, Lower (P627 or P627M only)	1	643-191-000		Orifice - Aluminum - 1/8"		688-013-004
9	Al Spring Case Screws - P627	8	648-466-000		Orifice - Aluminum - 3/16"		688-013-003
	Steel Spring Case Screws - P627 or P627M		648-467-003		Orifice - Aluminum - 1/4"		688-013-002
	Steel Spring Case Screws - P627H or P627HM		648-467-002		Orifice - Aluminum - 3/8"		688-013-001
	SS Spring Case Screws - P627 or P627M		648-550-000		Orifice - Aluminum - 1/2"		688-013-000
	SS Spring Case Screws - P627H or P627HM		648-550-001		Orifice - 316SS - 3/32"		688-014-005
10	Diaphragm Piston (P627 or P627M only)	1	637-306-000		Orifice - 316SS - 1/8"		688-014-004
11	Diaphragm P627 & P627M Al / Iron (Nitrile)	1	618-069-000		Orifice - 316SS - 3/16"		688-014-003
	Diaphragm P627 & P627M Steel / SS (Nitrile)		618-070-000		Orifice - 316SS - 1/4"		688-014-002
	Diaphragm P627H & P627HM Steel / SS (Neoprene)		618-070-001		Orifice - 316SS - 3/8"		688-014-001
	Diaphragm P627 & P627M Al / Iron (Fluoro)		618-069-001		Orifice - 316SS - 1/2"		688-014-000
	Diaphragm P627 & P627M Steel / SS (Fluoro)		618-096-000	30	Iron Body - 3/4 NPT	1	664-280-000
	Diaphragm P627 & P627M Steel / SS (Fluoro)		618-096-001		Iron Body - 1 NPT		664-280-001
12	Screw, Diaphragm P627 & P627M	1	648-466-002		Iron Body - 2 NPT		664-282-000
	Screw, Diaphragm P627H & P627HM	1	648-467-000		Steel Body - 3/4 NPT		664-281-000
13	Post, Pusher P627 & P627M Assy	1	827-005-000		Steel Body - 1 NPT		664-281-001
	Post, Pusher P627H & P627HM Assy		827-005-001		Steel Body - 2 NPT		664-283-000
	Post, Pusher P627 & P627M, NACE		827-008-000		LCC Body - 3/4 NPT		664-325-000
	Post, Pusher P627H & P627HM, NACE		827-008-001		LCC Body - 1 NPT LCC		664-325-001
	Post, Pusher P627H & P627HM, NACE		827-008-001		LCC Body - 2 NPT LCC		664-326-000
14	Diaphragm Case P627 - Aluminum	1	629-202-000		Stainless Body - 3/4 NPT		664-394-000
	Diaphragm Case P627 & P627H - Steel		629-203-000		Stainless Body - 1 NPT		664-394-001
	Diaphragm Case P627M & P627HM - Steel		629-204-000		Stainless Body - 2 NPT		664-395-000
	Diaphragm Case - Aluminum (for Steel Body)		629-215-000		Steel - 3/4 NPT Socket Weld		664-356-000
	Diaphragm Case P627 - Iron		629-240-000		Steel - 1 NPT Socket Weld		664-358-000
	Diaphragm Case P627M - Iron		629-241-000		Steel - 2 NPT Socket Weld		664-359-000
	Diaphragm Case P627 - Stainless		629-242-000		Stainless - 3/4" Socket Weld		664-422-000
	Diaphragm Case P627H - Stainless		629-243-000		Stainless - 1" Socket Weld		664-423-000
15	Diaphragm Case R627	1	629-400-000		Stainless - 2" Socket Weld		664-424-000
	Lever, Stainless		703-011-000	32	Diaphragm Spacer (P627H or P627HM only)	1	654-167-000
	Lever		703-004-000		Stainless Steel Diaphragm Spacer (P627H or P627HM only)	1	654-167-001
	Lever, NACE		703-005-000	33	O-ring, Spacer, Nitrile (P627H or P627HM only)	1	649-279-000
16	Lever Screw	2	648-466-002		O-ring, Spacer, Fluorocarbon (P627H or P627HM only)		649-279-001
	Lever Screw, NACE		648-474-000	34	O-ring, Throat Block, Nitrile	2	649-281-000
17	Pin, Lever	1	635-053-000		O-ring, Throat Block, Fluorocarbon		649-281-001
	Pin, Lever, NACE		635-057-000	35	Throat Block (P627M or P627HM only)	1	626-081-000
18	Lever Retainer, Stainless	1	643-210-000	36	Backup Ring, Throat Block	2	644-048-000
	Lever Retainer		643-192-000	37	Steel Build Bolt - 1" Aluminum Housing	2	648-466-001
	Lever Retainer, NACE		643-194-000		Steel Build Bolt - 2" Aluminum Housing		648-466-003
19	Stem O-ring, Nitrile	1	649-000-003		Steel Build Bolt - Steel Housing		648-467-001
	Stem O-ring, Fluorocarbon		649-000-343		Stainless Build Bolt - 1" Aluminum Housing		648-548-001
20	Stem Backup Ring, TFE	2	644-047-000		Stainless Build Bolt - 2" Aluminum Housing		648-548-003
	Pin, Groove, Stainless		635-076-000		Stainless Build Bolt - Steel or SS Housing		648-549-000
21	Pin, Groove	1	635-054-000	38	Spring Guide, Lower (P627H & P627HM only)	1	637-307-000
	Pin, Groove, Nace		635-058-000	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

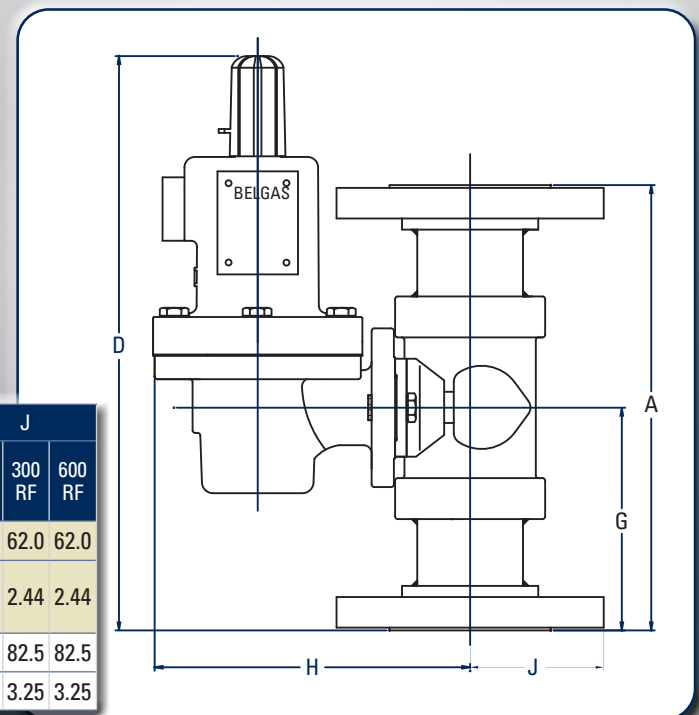
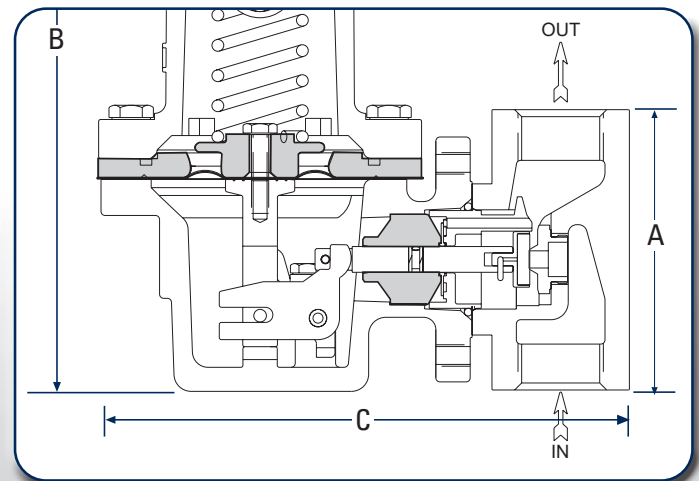
Aluminum/Cast Ductile Iron Units



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

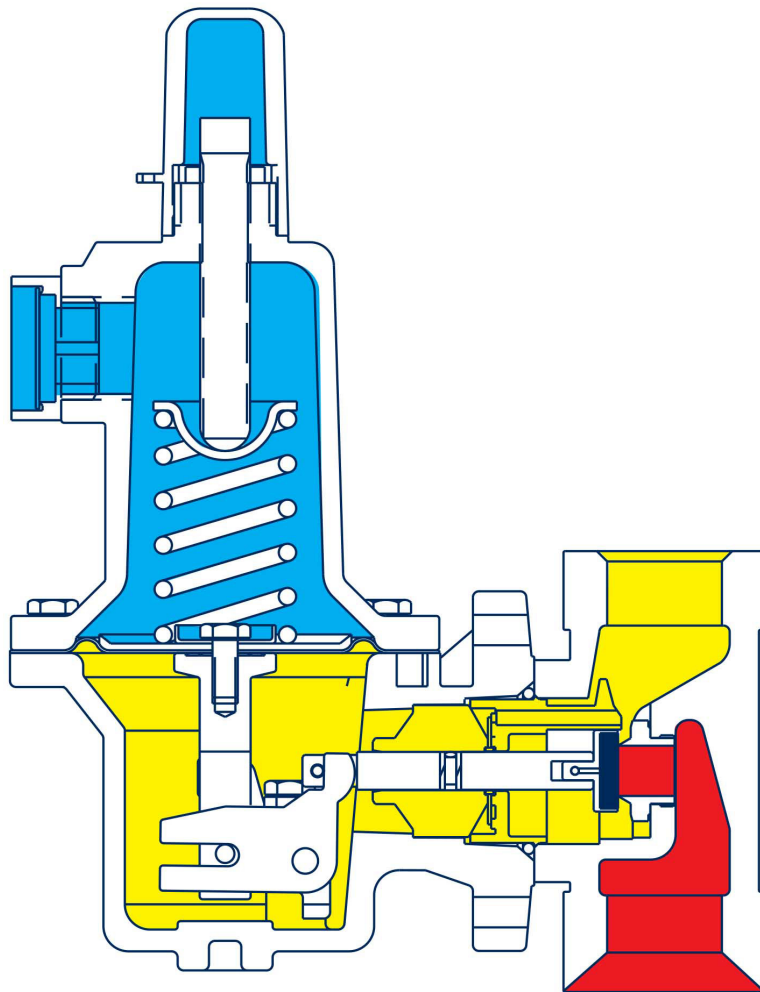
P627H



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	3/4" & 1"	mm	184	197	210	286	292	298	91.9	98.6	105	172	53.8	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"	mm	254	267	286	321	327	337	127	133	143	181	76.2	82.5
		in.	10	10.5	11.25	12.63	12.88	13.25	5	5.25	5.62	7.12	3	3.25



- Inlet Pressure
- Outlet Pressure
- Atmospheric Pressure

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