

Pressure Regulators

TRUSTED
SINCE 1958
WORLDWIDE

Precise.

Quality.

Reliable.



Mallard Control Model 5600 Pressure Regulator Valve

Features

- > Easy maintenance
- > Variety of flow capacities
- > Rugged construction
- > Excellent control at low pressure settings
- > NACE compliance
- > Suitable for air and gas

Specifications

Model 5600 pressure regulator
End connections
1" & 2" NPT female
Operating temperature
-20° to 150°F (-29° to 65°C)

The model 5600 pressure regulator pressure relief valve is spring-loaded, self-operated and available in 1" and 2" sizes. It provides economical control of air, natural gas and a variety of other gases and is built to withstand the most difficult processes and

environments. It is designed for inlet pressures up to 1500 psig and outlet pressures from 27 to 500 psig. Model 5600 is well suited for high pressure, high capacity applications.



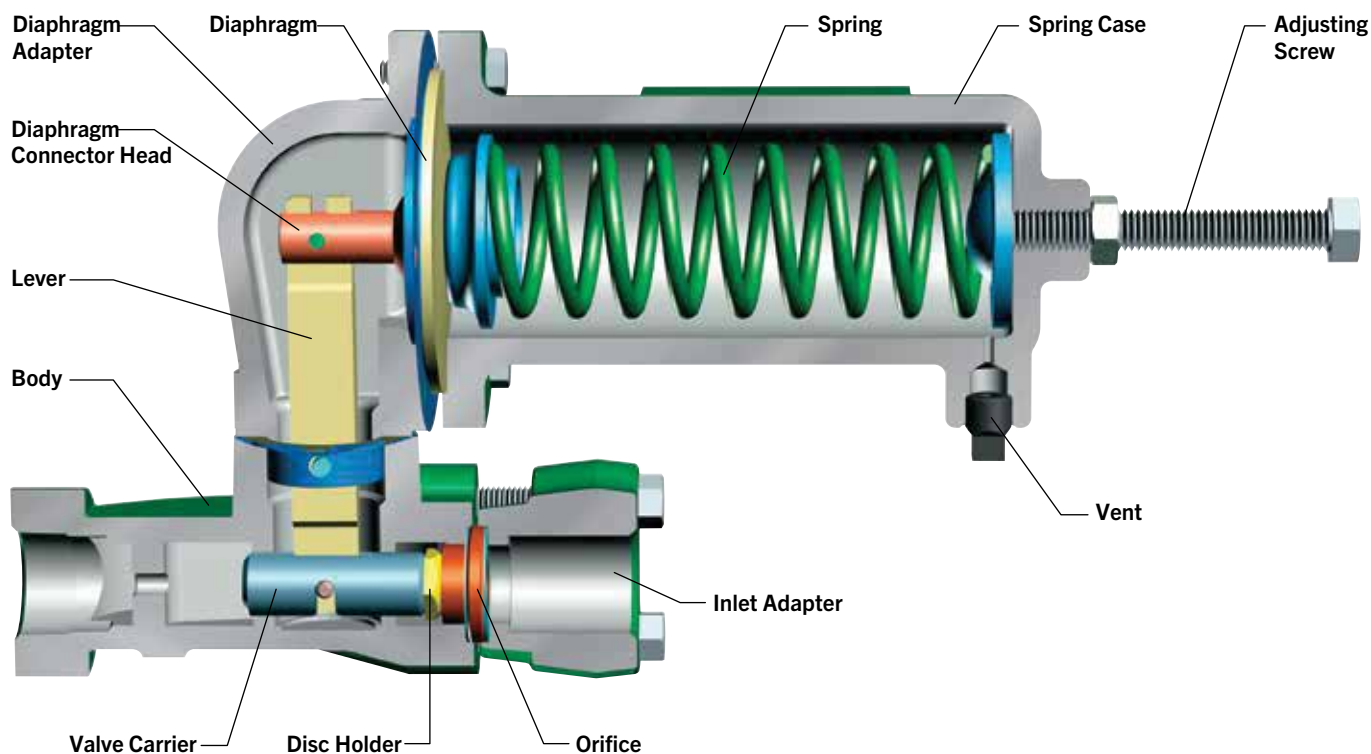
*Model 5600
Pressure Regulator*

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Mallard Control Model 5600 Pressure Regulator Valve

Component Parts



Materials of Construction

Description	Material
Body	Ductile Iron Steel (Optional)
Inlet Adapter	Steel
Diaphragm Adapter	Ductile Iron Steel (Optional)
Spring Case	Ductile Iron Steel (Optional)
Orifice	Brass Stainless Steel (Opt.)
Valve Disc	Nylon or TFE Viton® (Optional)

Description	Material
Disc Holder	Brass Stainless Steel (Opt.)
Valve Carrier	Brass Stainless Steel (Opt.)
Diaphragm	Buna-N (Embedded Nylon Fabric) Viton® (Optional)
Lever	Steel
Diaphragm Connector Head	Brass Stainless Steel (Opt.)

Flow Coefficients (C_v)

Port Diameter (in.)	Flow Coefficient (C_v)
1/8	0.49
3/16	1.11
1/4	2.03
3/8	4.61
1/2	8.18

Mallard Control Model 5600 Pressure Regulator Flow Capacities

Pressure, scfh of 0.6 Specific Gravity Gas, Based on 20% Droop

Inlet Pressure (psig)	Outlet Pressure (psig)	Port Diameter (in.)									
		1" NPT					2" NPT				
		1/8	3/16	1/4	3/8	1/2	1/8	3/16	1/4	3/8	1/2
60	50	900	2000	3100	5200	8100	1000	2100	3200	5300	12,000
75		1300	2800	3800	7200	10,000	1400	2900	3900	7300	16,000
100		1700	3500	5700	10,500	13,000	1800	3600	5800	10,000	21,000
150		2600	5700	8700	13,000	17,000	2700	5800	9000	15,000	36,000
200		3500	7800	11,000	16,000	19,000	3600	7900	12,000	21,000	55,000
300		5300	10,500	14,000	20,000	23,000	5500	11,000	19,000	48,000	83,000
400		6900	13,000	17,000	23,000	—	7000	15,000	27,000	63,000	—
550		9600	16,000	20,000	26,000	—	9700	21,000	38,000	88,000	—
600		9800	17,000	21,000	—	—	10,000	23,000	42,000	—	—
1050		17,000	23,000	27,000	—	—	19,000	42,000	74,000	—	—
1500		19,000	25,000	—	—	—	27,000	60,000	—	—	—
60	50	800	1500	2400	4300	6400	900	1600	2500	4400	7300
75		1200	2100	3100	5500	8000	1300	2200	3200	6100	9300
100		1500	3100	4200	7500	10,000	1600	3400	4300	7600	12,000
150		2400	4500	6700	11,000	14,000	2500	4600	7100	12,000	19,000
200		3400	6600	9400	14,000	17,000	3500	6700	9600	16,000	27,000
300		5200	8900	11,000	16,000	20,000	5300	10,000	14,000	27,000	51,000
400		6800	11,000	15,000	20,000	—	6900	13,000	21,000	46,000	—
550		9500	13,000	17,000	23,000	—	9600	18,000	29,000	87,000	—
600		9800	14,000	19,000	—	—	10,000	20,000	35,000	—	—
1050		14,000	19,000	22,000	—	—	18,000	41,000	73,000	—	—
1500		18,000	24,000	—	—	—	26,000	59,000	—	—	—
100	75	1700	3200	5000	8000	13,000	1800	3300	5200	9000	14,000
125		2200	4300	6700	10,000	15,000	2300	4400	6900	11,000	18,000
200		3500	7300	10,000	16,000	22,000	3600	7400	11,000	19,000	30,000
250		4400	9400	13,000	19,000	24,000	4500	9500	14,000	26,000	44,000
325		5700	11,000	16,000	23,000	27,000	5800	12,000	18,000	36,000	67,000
400		7100	14,000	19,000	27,000	—	7200	15,000	24,000	47,000	—
575		9700	18,000	23,000	30,000	—	9800	22,000	37,000	92,000	—
600		9900	19,000	25,000	—	—	10,000	23,000	39,000	—	—
1075		18,000	27,000	32,000	—	—	19,000	42,000	75,000	—	—
1500		23,000	32,000	—	—	—	24,000	60,000	—	—	—
125	100	2000	3600	5500	9200	13,000	2100	3700	5600	9800	15,000
150		2500	4600	6800	11,000	16,000	2600	4900	7400	12,000	18,000
200		3600	6600	9400	13,000	22,000	3700	6900	10,000	17,000	27,000
250		4400	8500	11,000	18,000	26,000	4500	8700	13,000	22,000	34,000
300		5300	9800	14,000	21,000	30,000	5400	10,000	16,000	27,000	44,000
350		6100	10,000	16,000	25,000	32,000	6300	12,000	19,000	33,000	57,000
400		7000	13,000	18,000	27,000	—	7200	14,000	21,000	39,000	—
600		9500	18,000	23,000	35,000	—	10,000	21,000	34,000	69,000	—
1100		19,500	28,000	35,000	—	—	19,000	43,000	74,000	—	—
1500		25,000	35,000	—	—	—	27,000	59,000	—	—	—
150	125	2400	4600	6700	11,000	17,000	2500	5000	8100	12,000	20,000
200		3500	6800	10,000	15,000	23,000	3600	7400	11,000	19,000	30,000
250		4300	8900	12,000	19,000	29,000	4400	9400	14,000	24,000	39,000
300		5200	10,000	15,000	25,000	34,000	5300	11,000	17,000	31,000	48,000
375		6600	13,000	18,500	28,000	39,000	6600	13,600	21,400	38,300	59,400
400		7300	14,500	19,000	29,000	—	7300	15,000	24,000	43,000	65,000
500		7900	15,000	25,000	36,000	—	8800	19,000	30,000	59,000	—
625		10,000	22,000	29,000	41,000	—	11,000	24,000	40,000	79,000	—
1125		18,000	33,000	42,000	—	—	19,000	44,000	79,000	—	—
1500		26,000	43,000	—	—	—	27,000	60,000	—	—	—

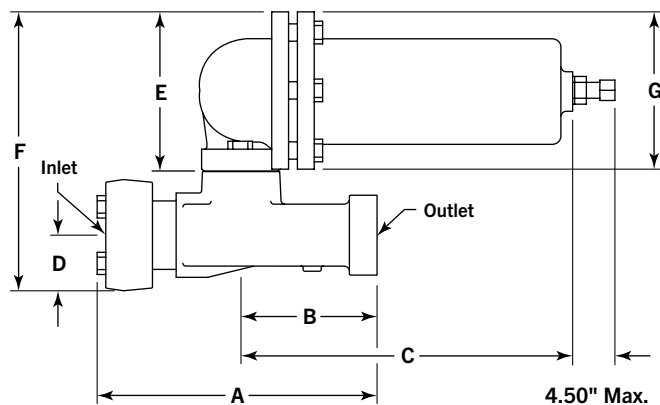
Mallard Control Model 5600 Pressure Regulator Flow Capacities

Pressure, scfh of 0.6 Specific Gravity Gas, Based on 20% Droop (Continued)

Inlet Pressure (psig)	Outlet Pressure (psig)	Port Diameter (in.)									
		1" NPT					2" NPT				
		1/8	3/16	1/4	3/8	1/2	1/8	3/16	1/4	3/8	1/2
200		3400	6800	10,000	16,000	26,000	3500	7300	11,000	18,000	30,000
250	150	4400	8800	13,000	20,000	32,000	4500	9500	15,000	26,000	38,000
300		5300	10,000	15,000	24,000	35,000	5400	11,000	19,000	32,000	52,000
400	90 to 150	7100	14,000	22,000	34,000	42,000	7200	15,000	26,000	46,000	77,000
450	or	7700	17,000	24,000	36,000	—	8100	18,000	29,000	54,000	—
650	150 to 200	9000	24,000	33,000	49,000	—	10,000	25,000	44,000	88,000	—
800	psig	13,000	29,000	38,000	—	—	14,000	30,000	54,000	—	—
1150	Spring	20,000	38,000	49,000	—	—	21,000	46,000	78,000	—	—
1500		26,000	47,000	—	—	—	27,000	60,000	—	—	—
250		4200	8300	12,000	20,000	30,000	4300	9100	13,000	23,000	42,000
300	200	5200	10,000	16,000	25,000	35,000	5300	11,000	18,000	33,000	52,000
450		7800	16,000	26,000	43,000	50,000	7900	17,000	29,000	52,000	84,000
600	150 to 200	9500	22,000	34,000	55,000	—	10,000	23,000	40,000	75,000	—
700	or	11,000	25,000	40,000	61,000	—	12,000	27,000	47,000	90,000	—
800	200 to 275	13,000	30,000	43,000	—	—	14,000	31,000	54,000	—	—
1000	psig	16,000	37,000	50,000	—	—	17,000	39,000	69,000	—	—
1200	Spring	20,000	41,000	59,000	—	—	21,000	48,000	83,000	—	—
1500		26,000	53,000	—	—	—	27,000	60,000	—	—	—
300		4900	9000	15,000	28,000	42,000	5000	10,000	17,000	30,000	52,000
400	250	7000	14,000	23,000	40,000	56,000	7100	15,000	25,000	47,000	76,000
500		8500	18,000	29,000	51,000	65,000	8600	19,000	34,000	62,000	103,000
600	200 to 275	9500	22,000	34,000	59,000	—	10,000	23,000	41,000	78,000	—
750	psig	12,500	28,000	44,000	69,000	—	13,000	29,000	51,000	106,000	—
1000	Spring	16,000	39,000	58,000	—	—	17,000	40,000	68,000	—	—
1250		21,000	49,000	69,000	—	—	22,000	50,000	87,000	—	—
1500		26,000	59,000	—	—	—	27,000	60,000	—	—	—
300	275	4700	9000	15,000	28,000	39,000	4800	10,000	17,000	29,000	43,000
400		6900	14,000	25,000	40,000	54,000	7000	15,000	26,000	47,000	73,000
525	200 to 275	8600	18,000	35,000	68,000	94,000	9200	20,000	36,000	69,000	112,000
775	or	11,000	28,000	51,000	95,000	—	12,000	30,000	52,000	112,000	—
1000	275 to 500	16,000	39,000	67,000	—	—	17,000	40,000	68,000	—	—
1275	psig	21,000	50,000	87,000	—	—	22,000	51,000	89,000	—	—
1500	Spring	26,000	60,000	—	—	—	26,000	61,000	—	—	—
400		6600	11,000	16,000	31,000	42,000	7000	13,000	21,000	35,000	54,000
550	300	9700	18,000	23,000	44,000	63,000	9800	20,000	30,000	52,000	78,000
600		9900	19,000	26,000	48,000	—	10,000	21,000	34,000	59,000	—
700	275 to 500	11,000	23,000	30,000	54,000	—	12,000	26,000	40,000	72,000	—
800	psig	13,000	26,000	35,000	61,000	—	14,000	29,000	47,000	81,000	—
900	Spring	15,000	29,000	39,000	—	—	16,000	34,000	53,000	—	—
1300		22,000	43,000	58,000	—	—	23,000	50,000	80,000	—	—
1500		26,000	49,000	—	—	—	27,000	58,000	—	—	—
500		8300	16,000	24,000	44,000	62,000	8800	17,000	28,000	49,000	77,000
650	400	10,000	24,000	33,000	61,000	86,000	11,000	25,000	40,000	75,000	112,000
800		13,000	30,000	41,000	76,000	—	14,000	31,000	51,000	95,000	—
900	275 to 500	15,000	34,000	49,000	85,000	—	16,000	36,000	58,000	110,000	—
1000	psig	17,000	38,000	54,000	—	—	18,000	40,000	66,000	—	—
1200	Spring	20,000	46,000	63,000	—	—	21,000	48,000	80,000	—	—
1400		24,000	55,000	76,000	—	—	25,000	57,000	96,000	—	—
1500		26,000	60,000	—	—	—	27,000	61,000	—	—	—
550	500	8700	16,000	26,000	50,000	77,000	9000	18,000	30,000	53,000	89,000
750		12,000	28,000	40,000	78,000	100,000	13,000	29,000	48,000	90,000	141,000
900	275 to 500	15,000	34,000	52,000	92,000	—	16,000	35,000	60,000	113,000	—
1000	psig	17,000	39,000	60,000	100,000	—	18,000	40,000	67,000	130,000	—
1500	Spring	26,000	59,000	72,000	—	—	27,000	60,000	82,000	—	—

NOTE: Taylor Valve reserves the right to change product designs and specifications without notice.

Mallard Control Model 5600 Pressure Regulator Valve



Model 5600

Dimensional Data (in., mm), Model 5600

Model	Dimension (in., mm)													
	A		B		C		D		E		F		G	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
5600 - 1"	7.38	187.45	3.69	93.73	9.12	231.65	1.19	30.23	4.82	122.43	7.94	201.68	4.75	120.65
5600 - 2"	7.88	200.15	3.94	100.08	9.12	231.65	2.00	50.80	4.82	122.43	8.63	219.20	4.75	120.65

CAUTION: Model 5600 regulators have an outlet pressure rating that is lower than the inlet pressure rating. Consequently, overpressure protection is required if the actual inlet pressure can exceed the regulator's outlet pressure rating. To avoid overpressure, provide an appropriate overpressure protection device to ensure that none of the limits listed will be exceeded. Internal parts of the regulator may be damaged if the outlet pressure exceeds the pressure setting beyond the amounts shown.

1. This applies to outlet pressure settings below 350 psig only. For pressure setting above 350 psig, outlet pressure is limited to 550 psig, the maximum emergency outlet pressure.

Outlet Pressure Range (psig)	High Pressure (psig)	
	Max. Outlet Pressure Over Pressure Setting	Max. Emergency Outlet Pressure
27 to 50	200	550
46 to 95		
90 to 150		
150 to 200		
200 to 275	200 ¹	
275 to 500		

Maximum Inlet & Differential Pressures

Port Diameter (in.)	Max. Allowable Inlet Pressure (psig)	Max. Allowable Pressure Drop (psid)	
		TFE/Nylon Disc	Viton® Disc
3/16, 1/8	1500	1500	200
1/4	1500	1000	
3/8	1000	500	
1/2	750	250	

The sum of the outlet pressure setting and the maximum allowable pressure drop determines the maximum allowable inlet pressure for a given installation. For example, with a 1/2" port diameter (maximum pressure drop of 250 psi) and a 400 psig outlet pressure setting, the maximum inlet pressure is 650 psig (250 psi plus 400 psig).

Mallard Control Model 5600 Pressure Regulator Valve

Part Number Codes

Model

None • Regulator

Body Size & End Connection

1 • 1" FNPT
2 • 2" FNPT

Style

H • Standard Pressure (Spring Code E-K)

Body Material

W • Carbon Steel

Outlet Pressure Range

Outlet Pressure Range

E • 27 to 50 psig
F • 46 to 95 psig
G • 90 to 150 psig
H • 150 to 200 psig
J • 200 to 275 psig
K • 275 to 500 psig

Trim Material

Model 5600 Only

W • Stainless Steel / TFE (For Pressure Drops up to 1500 psi)
X • Stainless Steel / Nylon (For Pressure Drops 200 to 1500 psi)
Y • Stainless Steel / Viton® (For Pressure Drops Below 200 psi)

Note: Reference "Maximum Inlet & Differential Pressures" chart on page 6.

Port Diameter

1 • 1/8" **4** • 1/2"
2 • 1/4" **5** • 3/16" (Model 5600 Only)
3 • 3/8"

Options

S • None

5600 - 1 HWG-W4 S
Example

Mallard Control Model 5602 Air Set Regulator

Features

- > Inlet Relief
- > Dual Outlet
- > Built-in 40 micron filter & dripwell (5602 only)
- > Self-relieving
- > Low droop at high flow
- > Variety of mounting options
- > Low cost
- > (Optional) Gauges Available

Specifications

Connection: 1/4"NPT

Temperature Range:
-20°F to 180°F (-29°C to 82°C)

Inlet Pressure Rating: 250psi

Outlet Pressure Range:

5602-1 (0-30psi)

5602-2 (0-60psi)

5602-3 (0-120psi)

The Model 5602 is a spring-operated regulator used to supply air or gas to pilots, positioners or to pneumatic controls.

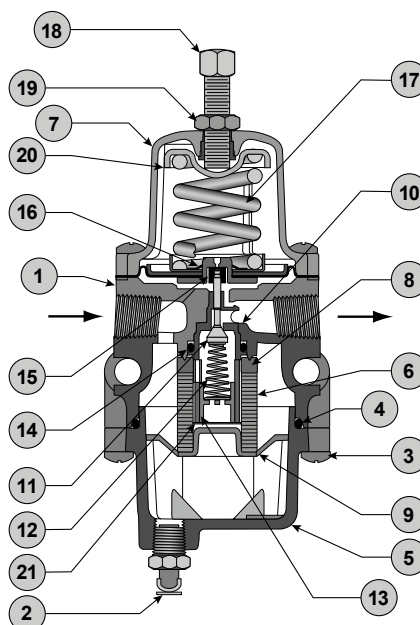
Materials of Construction

Description	Material
Body	Die-Cast Aluminum Alloy
Diaphragm	Buna-N



Capacities in SCFH OF 0.6 SG Natural Gas

Inlet Pressure (psi)	Outlet Pressure Setting (Spring Range)		
	25psi (0-30)	40psi (0-60)	80psi (0-120)
50	510	190	---
75	710	640	---
100	960	640	510
150	1290	900	840
250	1800	1900	1300



Parts List, Filtered Unit

Item	Description	Qty.
1	BODY	1
2	DRAIN VALVE	1
3	SCREW	10
4	O-RING	1
5	DRIPWELL	1
6	FILTER ELEMENT	1
7	SPRING CASE	1
8	FILTER GASKET	1
9	FILTER RETAINER	1
10	VALVE CARTRIDGE	1
11	VALVE PLUG	1
12	VALVE SPRING	1
13	VALVE RETAINER	1
14	O-RING	1
15	SOFT SEAT	1
16	DIAPHRAGM ASSY.	1
	SPRING, 0-30#	1
17	SPRING, 0-60#	1
	SPRING, 0-120#	1
18	ADJUSTING SCREW	1
19	LOCK NUT	1
20	UPPER SPRING SEAT	1
21	WASHER	1
22*	WASHER	2
23*	PIPE PLUG	1

* Not Shown

Mallard Control Model 5646C Pressure Regulator

Features

- > Rugged construction: Available in carbon steel and aluminum diaphragm case.
- > Easy maintenance: Union connection between the diaphragm case and body allows easy access to trim parts without removing the regulator from the line.
- > Installation flexibility: The diaphragm case can be rotated in relation to the regulator body to allow installation in locations with limited space. The regulator may be installed in any position without affecting performance, provided the spring case vent is protected from the elements.
- > Wide range of flow capacities: A variety of orifice sizes are available to satisfy a wide range of flow requirements.
- > Tight shutoff: A soft seat disc, available in nitrile (Buna), or nylon, provides excellent shutoff performance.

The model 5646C pressure regulator provides economic control of natural gas, air, or a variety of other gases in commercial and industrial applications. This self-operated pressure reducing regulator is equipped with an integral pitot (boost) tube for increased flow capacities and stability. It is designed for inlet pressures up to 1000 psig and outlet pressures from 5 to 150 psig.



Flow Capacities, scfh of 0.6 Specific Gravity Gas, Based on 20% Droop

Inlet Pressure (psig)	Outlet Pressure (psig)	Port Diameter (in.)				
		All Body Sizes 1/8	3/16	1/4	3/8	1/2
10	5	325	730	1160	1980	2520
15		450	910	1540	2560	5000
20		540	1230	2100	3450	6900
30		690	1610	2900	4850	11,250
50		1000	2550	4500	8000	13,500
75	10 to 95	1400	3130	5750	9770	14,600
100		1800	4270	7300	12,750	16,200
125		2150	4550	8100	15,150	—
15		180	270	360	520	700
20		240	350	460	690	920
25	15	280	410	550	820	1090
50		460	680	910	1350	1800
75		630	950	1270	1870	2500
100		810	1210	1620	2390	3200
150		1160	1740	2330	3430	—
200	5 to 20	1520	2270	3040	4480	—
300		2230	3330	4450	6570	—
500		3640	5450	7290	—	—
20		450	950	1480	2950	5100
30		660	1440	2530	4800	7480
50	15	1000	2480	4200	7700	11,500
75		1400	3000	5400	10,700	16,300
100		1800	3800	7850	14,200	18,500
150		2600	5800	11,500	18,000	—
200		3300	7350	14,300	22,200	—
400	5 to 20	6100	14,800	24,500	—	—
600		9070	21,000	—	—	—
750		11,500	—	—	—	—
1000		15,550	—	—	—	—

Specifications

Body size: 1"
 Orifice sizes: 1/4", 3/8" & 1/2" (Standard) 1/8", 3/16" (Consult Factory)
 Maximum body inlet pressure: 1000 psig at 100 °F
 Maximum soft seat disc inlet / differential pressure
 Nylon: 1000 psig / 1000 psid
 Buna: 600 psig / 400 psid
 Operating temperature range: -20 to 250°F (-29° to 65°C)
 Approximate Weight: 6 lb., 8 oz. (3 kg)

Materials of Construction

Description	Material
Body	Carbon Steel
Spring & Diaphragm Casings	Die-Cast Aluminum
Diaphragm	Nylon-Reinforced Buna
O-Rings	Buna
Orifice	Stainless Steel
Disc Holder w/Soft Seat Disc	Stainless Steel w/Buna Disc Stainless Steel w/Nylon Disc

Capacity Information: Natural gas regulating capacities are given for selected inlet/outlet pressures. Flows are in scfh (60°F/14.7 psia) of 0.6 SG natural gas. To determine the equivalent regulating capacities of other gases, multiply the capacity given by 0.775, and divide by the square root of the appropriate specific gravity. If capacity is desired in normal cubic meters per hour, multiply the scfh capacity given by 0.0268.

Mallard Control Model 5646C Pressure Regulator

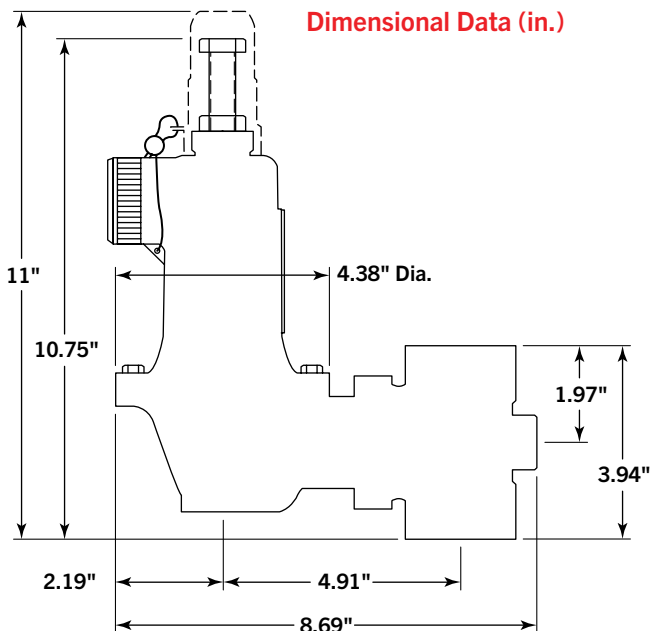
Flow Coefficients (C_v)

Port Diameter (in.) / Flow Co. (C_v)				
1/8	3/16	1/4	3/8	1/2
0.43	1.00	1.70	3.40	5.30

Max. Outlet Pressure

Criteria	Max. Pressure (psig)
Max. outlet pressure over pressure setting to prevent damage to internal parts.	100
Max. outlet pressure to prevent leak to atmosphere. Damage to internal parts may occur.	250
Max. outlet pressure to prevent burst of diaphragm housing. Leak to atmosphere and damage to internal parts may occur.	400

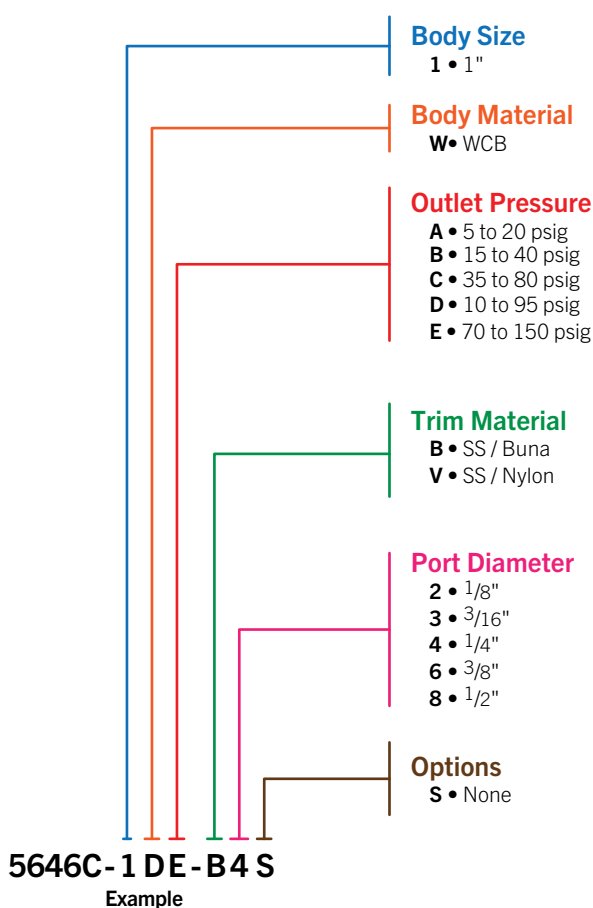
Overpressure Protection: The model 5646C regulator's outlet pressure rating is lower than its inlet pressure rating. Consequently, overpressure protection is required if the actual inlet pressure of a given application can exceed the regulator's outlet pressure rating. To avoid overpressure, the user must provide an appropriate pressure relieving or pressure limiting device to ensure that none of the limits shown are exceeded.



Maximm Inlet / Differential Pressures

Spring Range	Orifice (in.)	Max. Inlet Pressure (psig)	Max. Differential Pressure (psig)
5 to 20 psig	1/8	125	125
	3/16	125	125
	1/4	125	125
	3/8	125	125
	1/2	100	100
15 to 40 psig	1/8	1000	1000
	3/16	600	600
	1/4	400	400
	3/8	200	200
	1/2	100	100
35 to 80 psig	1/8	1000	1000
	3/16	1000	1000
	1/4	800	800
	3/8	500	500
	1/2	250	250
10 to 95 psig	1/8	1000	1000
	3/16	1000	1000
	1/4	1000	1000
	3/8	600	600
	1/2	350	350
70 to 150 psig	1/8	1000	1000
	3/16	1000	1000
	1/4	1000	1000
	3/8	800	800
	1/2	500	500

Part Number Codes



Mallard Control Model 5646C Pressure Regulator

Flow Capacities, scfh of 0.6 Specific Gravity Gas, Based on 20% Drop

Inlet Pressure (psig)	Outlet Pressure (psig)	Port Diameter (in.)				
		All Body Sizes 1/8	1" Body			
			3/16	1/4	3/8	1/2
30	20	640	1430	2500	4600	7280
50		1000	2320	4000	7800	11,300
75		1400	3000	5400	10,700	16,300
100		1800	3800	7850	14,800	18,500
150		2600	5800	11,500	20,500	—
200		3300	7350	14,300	25,200	—
400		6100	14,800	24,500	—	—
600	Dark Green Spring	9070	21,000	—	—	—
750		11,500	—	—	—	—
1000		15,500	—	—	—	—
30	25	580	1000	1300	1950	2600
50		1000	1700	2300	3350	4500
75		1400	2350	3150	4650	6250
100		1000	3050	4050	5950	8000
150		2600	4350	5800	8600	—
200		3300	5700	7600	11,200	—
300		4800	8300	11,150	16,400	—
400	Dark Green Spring	6400	10,900	14,700	—	—
500		8000	13,600	18,200	—	—
750		11,500	20,250	—	—	—
1000	30	15,500	26,850	—	—	—
40		780	1620	2800	4400	5800
50		950	2100	3700	5600	7700
75		1400	3000	5000	8600	11,400
100		1800	3800	7250	10,700	16,000
150		2600	5800	10,500	16,500	23,000
200		3300	7350	12,800	21,000	29,000
300	Dark Green Spring	4800	10,800	17,800	26,000	—
400		6500	13,700	23,000	28,000	—
750		11,500	23,400	30,300	—	—
1000	40	15,500	31,000	—	—	—
50		900	2000	3400	5500	7100
75		1400	3000	5000	8200	10,300
100		1800	3800	7250	10,700	16,000
150		2600	5800	10,500	16,500	25,000
200		3300	7350	12,800	22,000	33,000
300		4800	10,800	17,800	28,000	—
400	Blue Spring	6500	13,700	23,000	32,000	—
750		11,500	25,400	34,300	—	—
1000		15,500	34,400	—	—	—
60	50	1020	2100	3900	6300	9000
75		1350	2900	5200	8900	13,500
100		1760	3750	6900	12,500	16,800
150		2600	5800	10,500	19,000	33,400
200		3300	7350	12,300	24,000	42,500
300		4800	10,800	19,000	33,000	—
400		6500	13,700	25,000	46,000	—
750	Blue Spring	11,500	25,400	43,400	—	—
1000		15,500	34,000	—	—	—

Inlet Pressure (psig)	Outlet Pressure (psig)	Port Diameter (in.)				
		All Body Sizes 1/8	1" Body			
			3/16	1/4	3/8	1/2
75	60	1230	2760	4880	8630	16,100
100		1740	4010	7000	13,000	19,300
150		2580	5850	10,500	18,900	32,800
200		3370	7630	13,700	24,000	42,200
300		4910	7350	20,100	32,500	69,100
500		8090	11,200	32,900	64,000	94,300
750		12,000	18,300	43,800	66,900	130,000
1000	Blue Spring	16,000	36,100	50,300	67,700	—
1250		19,000	45,000	57,000	—	—
1500		22,000	54,000	63,000	—	—
1750	75	25,000	63,000	—	—	—
2000		28,000	—	—	—	—
80		1190	2300	3450	5000	6250
90		1450	2900	4250	6300	7100
100		1680	3450	4900	7600	8050
150		2500	5400	7300	12,000	—
200		3300	7100	9700	15,700	—
300	10 to 95 psig	4800	10,400	14,200	20,450	—
400		6400	13,700	18,700	—	—
500		8000	17,000	23,000	—	—
750	Blue Spring	11,500	25,000	—	—	—
1000		15,500	34,000	—	—	—
100		1600	3750	6650	12,200	18,600
150	80	2580	5850	10,500	21,100	33,600
200		3370	7630	13,700	28,400	44,100
300		4910	11,200	20,100	43,300	75,400
500		8090	18,300	32,900	71,600	110,000
750		12,000	27,200	48,900	105,500	135,000
1000		16,040	36,100	64,900	118,000	—
1250		19,000	45,000	80,000	—	—
1500	Blue Spring	22,000	54,000	96,000	—	—
1750		25,000	63,000	—	—	—
2000		28,000	—	—	—	—
110	100	1640	3500	5900	7900	9300
125		2000	4400	7300	12,000	14,500
150		2500	5500	9000	16,000	23,500
200		3300	7000	12,000	21,000	34,600
300		4800	10,500	18,000	30,100	51,000
400		6400	13,700	25,000	44,500	70,000
500		8040	17,200	32,000	66,000	84,000
800	Red Spring	12,100	30,000	44,000	89,000	—
1000		15,500	36,000	57,000	—	—
135		1960	4200	7600	11,500	13,900
150	125	2340	5000	8900	15,700	20,000
200		3300	7000	13,100	26,000	32,500
300		4800	10,500	19,400	38,000	52,000
400		6400	13,700	26,400	51,000	90,000
500		8040	17,200	33,400	68,000	105,000
800		12,100	30,000	46,500	99,000	—
1000		15,500	36,000	63,000	—	—
200	150	2900	7150	11,000	21,200	30,500
300		4600	11,100	19,000	31,200	45,000
400		6400	14,800	24,800	39,500	50,000
500	psig	8150	18,000	32,000	50,500	52,000
750		12,000	27,000	45,000	52,500	—
1000		15,200	35,500	58,000	—	—

Capacity Information: Natural gas regulating capacities are given for selected inlet/outlet pressures. Flows are in scfh (60°F/14.7 psia) of 0.6 SG natural gas. To determine the equivalent regulating capacities of other gases, multiply the capacity given by 0.775, and divide by the square root of the appropriate specific gravity. If capacity is desired in normal cubic meters per hour, multiply the scfh capacity given by 0.0268.

Mallard Model 5660 High Pressure Regulators

The model 5660 is designed to reduce high inlet pressures to working pressures. Careful design and quality materials throughout assure long, trouble-free operation in the most difficult industrial environments.



Model 5660
High Pressure
Regulator



Features

- > Non-venting
- > Seating surface is field repairable by simply rotating the seat block 90 degrees to a new seating surface

Specifications

Connections: 1/4" FNPT
Operating temperature range
-70 to 225°F (-57 to 107 °C)
Maximum inlet pressure
6000 psig at 100 °F (38°C)
(model 5660)
5500 psig at 100 °F (38°C)
(model 5670)
Outlet ranges
10 to 75 psi, 50 to 150 psi
& 100 to 225 psi

Materials of Construction

Description	Material
Body & Bonnet	Forged Brass (5660) 316 Stainless Steel (5670)
Seat	Nylon

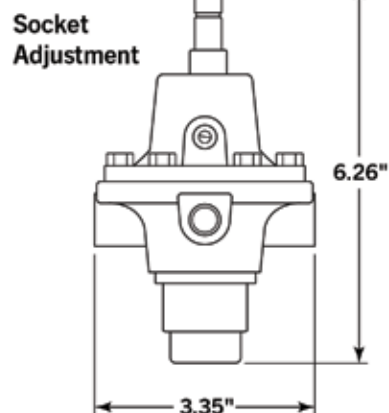
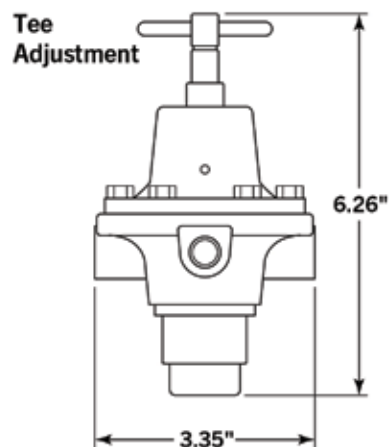
Description	Material
Seals	TFE & Buna-N
Nozzle	316 Stainless Steel
Filter	40 Micron Screen

Ordering Information

Model 5660		
Spring Range	Adjusting Screw	Model Number
10 to 75 psi	Socket Tee	5660-1-2
50 to 150 psi	Socket Tee	5660-3-4
100 to 225 psi	Socket Tee	5660-5-6

CAPACITIES IN SCFH MEDIA: AIR

SPRING RANGE	OUTLET PRESSURE	INLET PRESSURE					
		SCFH					
		1000 PSIG		1500 PSIG		2000 PSIG	
	PSIG	10% Droop	20% Droop	10% Droop	20% Droop	10% Droop	20% Droop
10 to 75 PSIG	25	520	770	540	800	560	820
	50	900	1300	950	1400	1000	1500
	75	1100	1700	1200	1800	1300	1900
50 to 150 PSIG	75	1000	1600	1100	1700	1200	1800
	150	1600	2600	1700	2800	1800	3000
100 to 225 PSIG	150	1500	2250	1650	2750	1800	3000
	225	2400	3500	2700	4000	3000	4500





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