



B58 Series Regulator

Residential Regulator

The B58 regulator is ideally suited for use where inches of water column or pounds delivery pressure are desired for uses including utility services, small boilers, and other similar applications. The B58 is ideal for situations where rapid response is required, such as on/off loads, and can be utilized to avoid shock problems.

DESCRIPTION

- » B58R
 - The B58R is a spring-loaded, self operated regulator with an internal relief (designated by the letter “R”) valve. The 1” or optional ¾” internal relief valve provides excellent relief capacity.
- » B58N
 - The B58N is the same as the B58R (above) with the exception that it does not have an internal relief (designated by the letter “N”) valve. This model may be used in situations where an over-pressure internal relief valve is not required.

OPTION DESIGNATIONS

- » R Internal Relief
- » N No Internal Relief
- » HP All models for outlet pressures above 0.5 PSIG

BENEFITS

- » Light weight
- » Easy to install
- » Smooth control over widely varying inlet pressures
- » No special tools required for outlet pressure adjustment

FEATURES

- » Field interchangeable orifice
- » Field interchangeable adjustment spring
- » 27 sq. in. diaphragm area
- » Spring-loaded internal relief valve assembly
- » Wide range of NPT valve body sizes
- » Primary and secondary informational badges (4 lines available with 24 characters per line)
- » Serial numbers available upon request

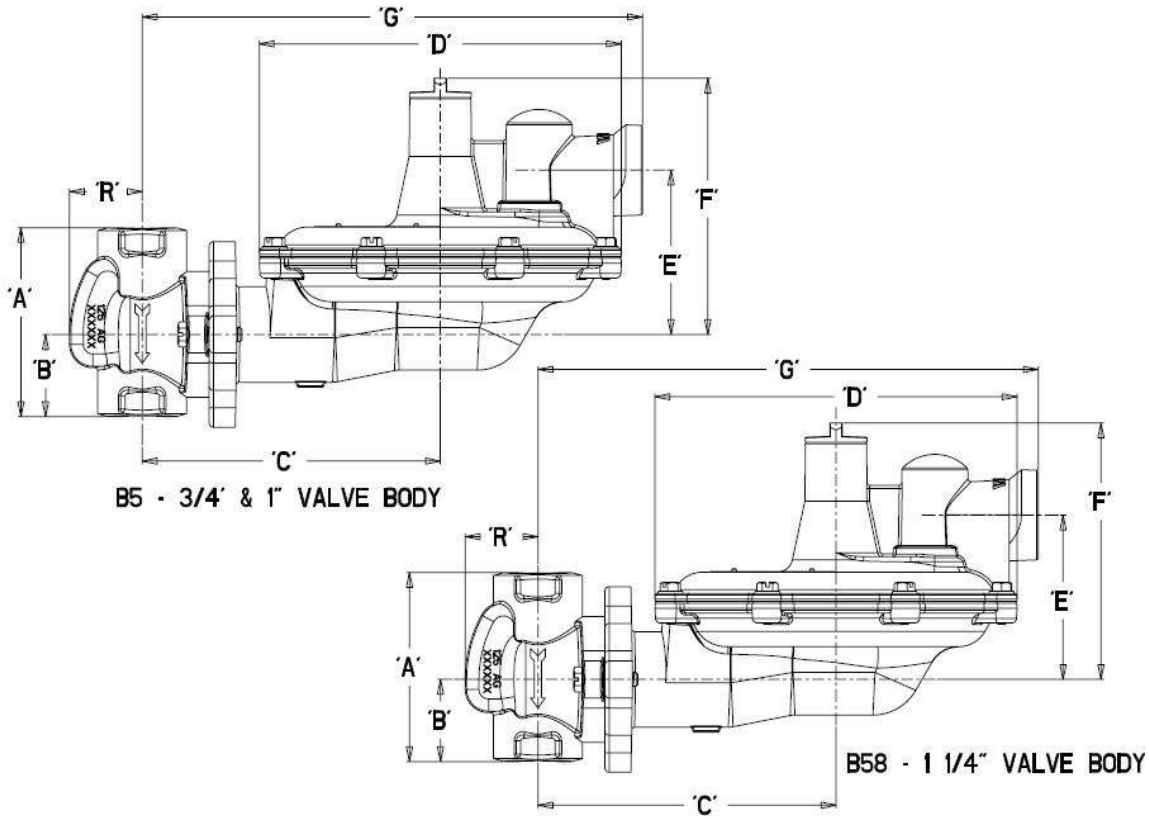
SHIPPING WEIGHT

Eight regulators per box

Box weight: 52 lbs.

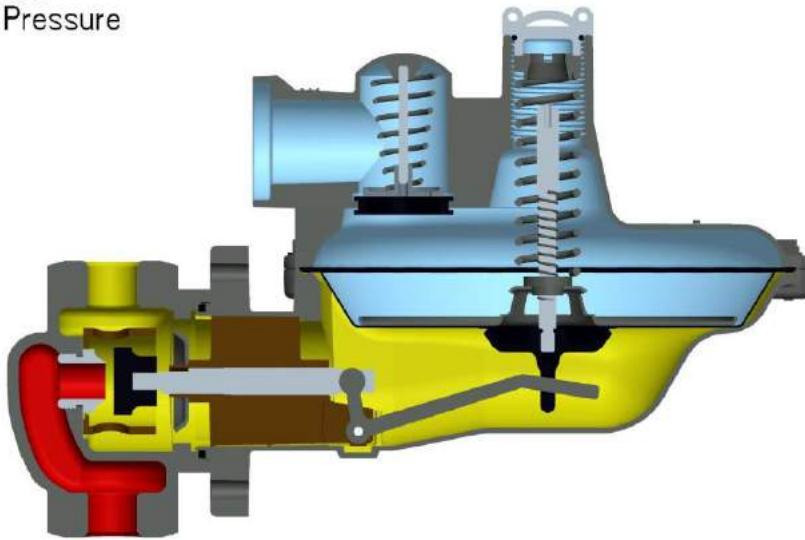
B58 DIMENSIONS (INCHES)

Valve Body	A	B	C	D	E	F	G	R
3/4" & 1"	3-13/16	1-21/32	6	7-5/16	3-5/16	5-3/16	10-5/32	1-1/2
1-1/4"	4	1-7/8	6	7-5/16	3-5/16	5-3/16	10-5/32	1-1/2



OPERATIONAL SCHEMATIC

- Inlet Pressure
- Outlet Pressure
- Atmospheric Pressure



SPRING DATA - SPRING COLOR OUTLET PRESSURE RANGE*

Model - B58	Inches w.c.
Brown	4.5 to 5.5
Dark Green	5.0 to 6.5
Grey	4.0 to 9.0
Light Green	5.5 to 8.0
Black	7.3 to 11.0
Blue	8.0 to 12.0
Silver	11.0 to 16.0

Model - B58HP**	PSIG
Red/grey	0.75 to 1.1
Yellow	0.9 to 1.4
Red	1.3 to 2.0
White	1.75 to 2.5

Relief Spring Data	
Black	7" w.c. above set point

*Spring ranges are approximate and may vary by application.

**Warning: Springs are not interchangeable between B57 and B57HP.

ORIFICE DATA - WIDE OPEN FLOW COEFFICIENTS AND MAXIMUM PRESSURE DATA

Orifice Size	K - Factors	Maximum Operating Inlet Pressure R Models		Max Emergency Inlet Pressure	Max Emergency Outlet Pressure (Containment)	
		In. w.c. Delivery	PSIG Delivery	All Outlet	In. w.c. Delivery	PSIG Delivery
		Pressure PSIG	Pressure PSIG	Inlet Pressure PSIG		
1/8"	35	125	175	300	18 PSIG	60 PSIG
0.144"x3/16"	50	125	175	300		
3/16"	75	125	175	300		
3/16"x1/4"	75	125	125	300		
1/4"	145	125	125	300		
1/4"x5/16"	145	100	100	150		
5/16"	235	100	100	150		
3/8"	325	65	60	150		
1/2"	500	40	40	100		
1/2"x9/16"	500	40	40	100		

Note: N model regulators cannot be used without additional safety equipment above 60 PSIG inlet pressures.

OPERATING TEMPERATURE RANGE

- 20°F to 150°F.
- Silicone valve seats available below -20°F.

CONSTRUCTION

Itron takes pride in delivering American made products with the utmost concern for safety, quality, and customer satisfaction.

Material Construction

Valve Body:	High tensile strength cast iron (ASTM A-126, Class A)
Orifice:	Aluminum
Valve Seat:	Buna-N
Valve Stem:	Nylon
Lever Pin:	Stainless steel (Type 303)
Lever:	Zinc and dichromate plated steel (AISI C1010)
Upper Diaphragm Plate:	Zinc and dichromate plated steel (14 gauge steel)
Lower Diaphragm Plate:	Die cast aluminum (ASTM B-85 Alloy SC84A)
Diaphragm:	Buna-N and reinforcing fiber
Vent Valve/Seat:	Neoprene
Vent Screen:	Stainless Steel (16 mesh)
Adjustment Ferrule:	Acetal; die cast aluminum for HP model (ASTM CS43A)
Seal Cap:	ABS Plastic
Diaphragm Case:	Die cast aluminum (ASTM B85 - Alloy SC84A)
Valve Stem Insert:	Acetal

VALVE BODY SIZES

Inlet	Outlet	Straight
1/2"	1/2"	x
3/4"	3/4"	x
3/4"	1"	x
3/4"	1-1/4"	x
1"	1"	x
1"	1-1/4"	x
1-1/4"	1-1/4"	x

X indicates the valve body is available in that configuration.

CORRECTION FACTORS FOR NON-NATURAL GAS APPLICATIONS

The B58 may be used to control gases other than natural gas. To determine the capacity for gases other than natural gas, multiply the values within the capacity tables by a correction factor. The table below lists the correction factors for some of the more common gases:

Gas Type	Specific Gravity	Correction Factor (CF)
Air	1.00	0.77
Butane	2.01	0.55
Carbon Dioxide (Dry)	1.52	0.63
Carbon Monoxide (Dry)	0.97	0.79
Natural Gas	0.60	1.00
Nitrogen	0.97	0.79
Propane	1.53	0.63
Propane-Air-Mix	1.20	0.71

To calculate the correction factor for gases not listed in the table above, use the gases' specific gravity and insert it in the formula listed below:

$$\text{Correction Factor (CF)} = \sqrt{\frac{SG_1}{SG_2}}$$

Where:

SG₁ = Specific gravity of the gas in which the capacity is published.

SG₂ = Specific gravity of the gas to be controlled.

Wide Open Flow Calculations

For wide-open orifice flow calculations use the following equations:

$$\text{For } P_1/P_2 < 1.89 \text{ use: } Q = K \sqrt{P_2(P_1 - P_2)}$$

$$\text{For } P_1/P_2 > 1.89 \text{ use: } Q = \frac{KP_1}{2}$$

Where: P₁ = Absolute Inlet Pressure (PSIA)

P₂ = Absolute Outlet Pressure (PSIA)

Q = Flow Rate (SCFH)

K = Orifice Coefficient (SCFH/PSI)

B58 SERIES RESIDENTIAL REGULATOR – MODELS N AND R

7" w.c. Capacity Table (1" Droop*) 3/4" x 3/4" Valve Body

Capacities in SCFH of 0.6 S.G. gas; base conditions of 14.7 PSIA and 60° F.

Typical Capacity Info.

Manufacturer	Itron
Type and model	B58R
Regulator	
Inlet size	3/4"
Outlet size	3/4"
Spring color	Lt. Green
Position	5

Inlet Pressure PSIG	Orifice Size										
	1/8"	0.144" x 3/16"	3/16"	3/16" x 1/4"	1/4"	1/4" x 5/16"	5/16"	3/8"	1/2"	1/2" x 9/16"	
8" w.c.				65	70	90	100	105	135	210	
10" w.c.				75	80	100	110	120	215	230	
12" w.c.		65	70	90	100	120	125	135	250	285	
14" w.c.		75	80	100	110	130	140	200	275	300	
16" w.c.		80	90	115	120	200	215	225	295	310	
21" w.c.		90	100	135	150	230	250	260	315	380	
24" w.c.	70	100	115	170	170	250	275	285	350	400	
1	80	120	130	220	230	275	280	300	400	425	
2	110	210	235	185	250	325	375	400	525	535	
3	195	250	300	350	350	400	420	500	550	600	
5	250	300	400	440	450	500	550	590	625	650	
10	350	500	510	610	630	650	700	700	700		
20	500	600	720	750	760	765	765	800			
30	550	800	810	820	820	825	830	830			
40	700	875	900	900							
50	800	920	950	910							
60	850	975	1000	1010							
70	900	1000	1060	1060							
80	925	1025	1050	1065							
90	975	1030	1090	1100							
100	1000	1010	1025	1110							
120	1035	1045	1100	1115							
125	1090	1100	1120	1120							

Inlet Effect (inches w.c.) ^B	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.7	0.9
Lock Up (inches w.c.) ^C	0.2	0.3	0.3	0.4	0.4	0.6	0.6	0.7	0.7	0.9

Notes:


B. Change in outlet pressure for 10 PSIG inlet pressure change.

C. Outlet pressure increase required for lock up.

*Individual regulator performance may vary from data shown.

 Inlet pressure is too low to achieve desired outlet pressure.

 Do not operate orifice in shaded inlet pressure area.

 Capacity in black outline generated with black spring.

B58 SERIES RESIDENTIAL REGULATOR – MODELS N AND R

7" w.c. Capacity Table (1" Droop*) 3/4" x 1" and 1" x 1" Valve Bodies

Capacities in SCFH of 0.6 S.G. gas; base conditions of 14.7 PSIA and 60°F.

Typical Capacity Info.	
Manufacturer	Itron
Type and model	B58R
Regulator	
Inlet size	3/4"
Outlet size	1"
Spring color	Lt.
Position:	5

Inlet Pressure PSIG	Orifice Size										
	1/8"	0.144" x 3/16"	3/16"	3/16" x 1/4"	1/4"	1/4" x 5/16"	5/16"	3/8"	1/2"	1/2" x 9/16"	
8" w.c.				60	65	70	75	80	100	180	
10" w.c.				75	80	85	90	95	155	240	
12" w.c.		55	80	85	90	95	100	110	260	320	
14" w.c.		60	90	95	100	110	115	140	300	350	
16" w.c.		65	100	110	120	130	140	270	320	370	
21" w.c.		75	115	130	140	250	280	310	390	400	
24" w.c.	70	80	125	140	190	290	320	350	400	475	
1	80	95	240	175	260	320	330	360	490	535	
2	90	250	300	345	350	415	470	540	775	800	
3	200	300	335	440	460	525	620	750	880	1020	
5	270	405	450	580	640	725	915	1035	1040	1110	
10	370	575	680	840	940	970	1470	1500	1520	1590	
20	600	790	1210	1300	1740	1750	2135	2200	2225	2240	
30	775	1020	1675	1700	2100	2110	2500	2500	2500	2500	
40	940	1230	2000	2020	2280	2300	2500	2500	2500	2500	
50	1100	1360	2310	2390	2500	2500	2500	2500			
60	1235	1425	2500	2500	2500	2500	2500	2500			
70	1430	1600	2500	2500	2500	2500	2500				
80	1580	1710	2500	2500	2500	2500	2500				
90	1730	1775	2500	2500	2500	2500	2500				
100	1890	1900	2500	2500	2500	2500	2500				
120	2140	2085	2500	2500	2500						
125	2160	2175	2500	2500	2500						





Inlet Effect (inches w.c.) ^B	0.1	0.2	0.2	0.3	0.2	0.4	0.4	0.4	0.5	0.7
Lock Up (inches w.c.) ^C	0.3	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.6	1.1

Notes:

B. Change in outlet pressure for 10 PSIG inlet pressure change.

C. Outlet pressure increase required for lock up.

*Individual regulator performance may vary from data shown.

-  Inlet pressure is too low to achieve desired outlet pressure.
-  Do not operate orifice in shaded inlet pressure area.
-  Capacity in grey outline generated with Black Spring
-  Capacity in black outline generated with Brown Spring.

B58 SERIES RESIDENTIAL REGULATOR – MODELS N AND R

7" w.c. Capacity Table (1" Droop*) – 3/4" x 1-1/4", 1" x 1-1/4", and 1-1/4" x 1-1/4" Valve Bodies

Capacities in SCFH of 0.6 S.G. gas; base conditions of 14.7 PSIA and 60°F.

Typical Capacity Info.

Manufacturer	Itron
Type and model	B58R
Regulator	
Inlet size	1-1/4"
Outlet size	1-1/4"
Spring color	Lt. Green
Position:	5

Inlet Pressure PSIG	Orifice Size										
	1/8"	0.144" x 3/16"	3/16"	3/16" x 1/4"	1/4"	1/4" x 5/16"	5/16"	3/8"	1/2"	1/2" x 9/16"	
8" w.c.				55	60	65	70	95	200	210	
10" w.c.				60	65	85	90	100	210	220	
12" w.c.		55	70	80	90	110	115	235	300	410	
14" w.c.		60	80	85	90	225	235	320	360	450	
16" w.c.		65	80	90	95	250	270	385	415	510	
21" w.c.		80	90	210	250	325	350	420	530	640	
24" w.c.	55	90	100	220	280	350	410	500	645	695	
1	65	90	190	275	300	445	450	810	750	885	
2	90	265	340	425	475	620	690	1060	1100	1280	
3	200	345	415	525	625	815	940	1520	1475	1585	
5	280	455	550	690	880	1125	1300	1785	2015	2020	
10	400	570	860	900	1450	1585	2150	2500	2500	2500	
20	575	810	1250	1275	2155	2200	2500	2500	2500	2500	
30	745	1035	1610	1630	2500	2500	2500	2500	2500	2500	
40	910	1270	1980	2000	2500	2500	2500	2500	2500	2500	
50	1075	1500	2275	2290	2500	2500	2500	2500			
60	1250	1710	2500	2500	2500	2500	2500	2500			
70	1430	1945	2500	2500	2500	2500	2500				
80	1585	2185	2500	2500	2500	2500	2500				
90	1720	2380	2500	2500	2500	2500	2500				
100	1895	2500	2500	2500	2500	2500	2500				
120	2265	2500	2500	2500	2500						
125	2350	2500	2500	2500	2500						


Inlet Effect (inches w.c.) ^B	0.1	0.2	0.2	0.4	0.4	0.5	0.5	0.6	0.7	0.8
Lock Up (inches w.c.) ^C	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.5	0.7	1.0

Notes:


B. Change in outlet pressure for 10 PSIG inlet pressure change.

C. Outlet pressure increase required for lock up.

*Individual regulator performance may vary from data shown.

 Inlet pressure is too low to achieve desired outlet pressure.

 Do not operate orifice in shaded inlet pressure area.

 Capacity in black outline generated with black spring.

7" W.C. RELIEF CURVES

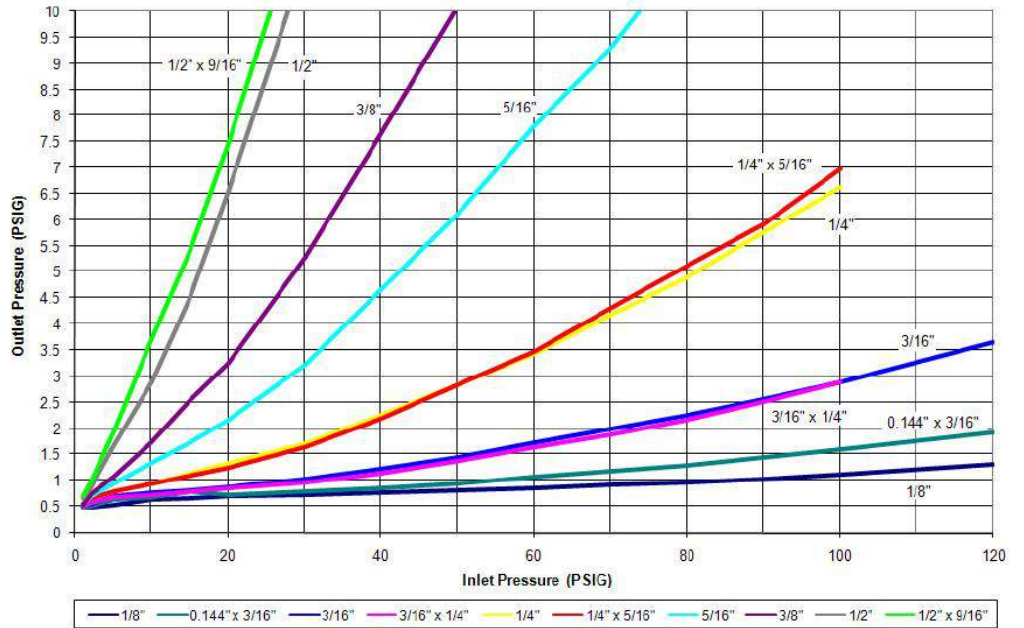
B58 Relief Curves

7" w.c. set point 3/4" vent with screen

Manufacturer	Itron
Type and Model	B58R
Inlet Size	3/4"
Outlet Size	1"
Spring Color	Lt. Green
Vent Size	3/4"
Position	5

Set point 7.0" w.c. with 40 PSIA inlet @ 50 SCFH. All test results are reported at a base of 14.7 PSIA and 60°F.

Lever Disconnect



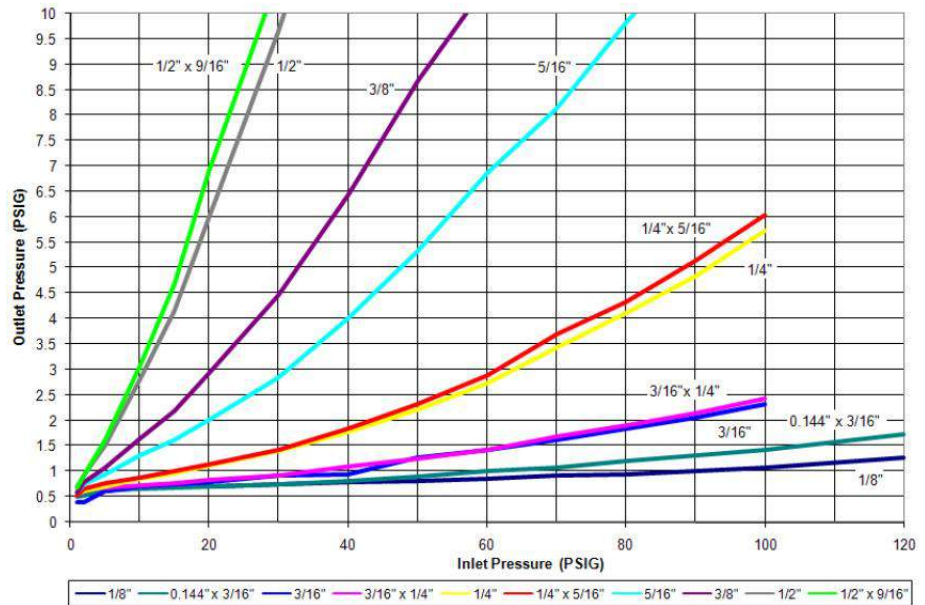
B58 Relief Curves

7" w.c. set point 1" vent with screen

Manufacturer	Itron
Type and Model	B58R
Inlet Size	3/4"
Outlet Size	1"
Spring Color	Lt. Green
Vent Size	1"
Position	5

Set point 7.0" w.c. with 40 PSIG inlet @ 50 SCFH. All test results are reported at a base of 14.7 PSIA and 60°F.

Lever Disconnect

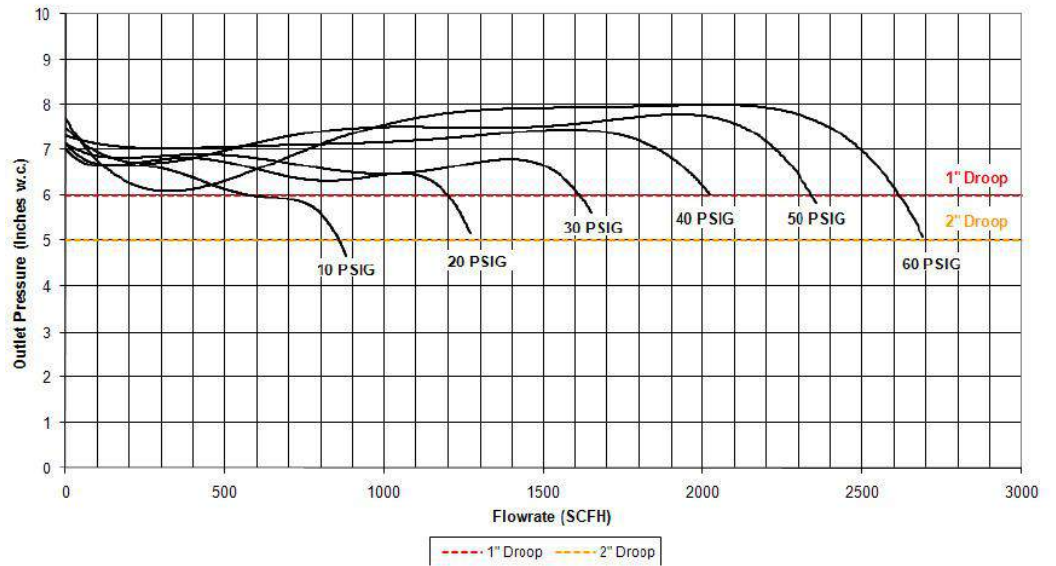


B58 Performance Curves

7" w.c. set point

Manufacturer	Itron
Type and Model	B58R
Inlet Size	3/4"
Outlet Size	1"
Spring Color	Lt. Green
Orifice Size	3/16"

Set point 7.0" w.c. with 40 PSIA inlet @ 50 SCFH. All test results are reported at a base of 14.7 PSIA and 60°F.



B58 SERIES RESIDENTIAL REGULATOR – MODELS N AND R

14" w.c. Capacity Table (2" Droop*) 3/4" x 3/4" Valve Body

Capacities in SCFH of 0.6 S.G. gas; base conditions of 14.7 PSIA and 60° F.

Typical Capacity Info.		Orifice Size										
		Inlet Pressure PSIG	1/8"	0.144" x 3/16"	3/16"	3/16" x 1/4"	1/4"	1/4" x 5/16"	5/16"	3/8"	1/2"	1/2" x 9/16"
Manufacturer	Itron	16" w.c.				70	85	115	125	145	340	370
Type and model	B58R	21" w.c.		75	90	100	110	145	250	270	350	395
Regulator		24" w.c.		85	100	120	130	165	270	290	375	400
Inlet size	3/4"	1	80	100	115	150	300	320	320	360	400	430
Outlet size	3/4"	2	110	220	230	295	320	380	390	450	530	600
Spring color	Silver	3	210	260	295	375	390	450	465	510	645	660
Position:	5	5	260	360	370	480	500	580	600	620	785	900
		10	340	475	525	600	680	725	800	840	1120	1200
		20	510	685	750	860	900	1000	1010	1100	1200	1380
		30	675	825	925	1000	1010	1100	1120	1185	1520	1575
		40	800	940	1045	1100	1120	1150	1150	1300	1600	1630
		50	900	1050	1200	1220	1230	1250	1250	1400		
		60	1000	1150	1300	1320	1325	1330	1330	1450		
		70	1060	1175	1315	1320	1325					
		80	1130	1225	1340	1340	1340					
		90	1150	1250	1345	1350	1350					
		100	1155	1280	1375	1380	1400					
		120	1240	1300	1400	1410	1450					
		125	1275	1310	1425	1430	1500					


Inlet Effect (inches w.c.) ^A	0.1	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.7	1.0
Lock Up (inches w.c.) ^B	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.7	0.8	1.1

Notes:


A. Change in outlet pressure for 10 PSIG inlet pressure change.

B. Outlet pressure increase required for lock up.

*Individual regulator performance may vary from data shown.

 Inlet pressure is too low to achieve desired outlet pressure.

 Do not operate orifice in shaded inlet pressure area.

 Capacity in black outline generated with Blue Spring.

B58 SERIES RESIDENTIAL REGULATOR – MODELS N AND R

14" w.c. Capacity Table (2" Droop*) 3/4" x 1" and 1" x 1" Valve Body

Capacities in SCFH of 0.6 S.G. gas; base conditions of 14.7 PSIA and 60° F.

Typical Capacity Info.		Orifice Size										
		Inlet Pressure PSIG	1/8"	0.144" x 3/16"	3/16"	3/16" x 1/4"	1/4"	1/4" x 5/16"	5/16"	3/8"	1/2"	1/2" x 9/16"
Manufacturer	Itron	16" w.c.			60	65	85	90	100	110	140	275
Type and model	B58R	21" w.c.		60	70	85	95	125	200	250	290	350
Regulator		24" w.c.		75	80	100	110	210	220	300	340	410
Inlet size	3/4"	1	70	85	95	110	250	260	270	300	420	450
Outlet size	1"	2	100	225	240	310	330	380	400	490	650	740
Spring color	Silver	3	195	300	310	400	430	490	540	610	845	950
Position:	5	5	230	395	400	510	590	660	770	850	985	1235
		10	350	550	600	775	940	970	1210	1250	1390	1645
		20	500	800	1010	1220	1510	1540	1820	1850	2080	2120
		30	700	1035	1375	1550	1980	2000	2150	2170	2260	2130
		40	925	1260	1830	1870	2200	2230	2445	2420	2500	2215
		50	1130	1410	2070	2080	2500	2440	2500	2500		
		60	1250	1600	2300	2350	2500	2500	2500	2500		
		70	1410	1775	2500	2475	2500	2500	2500			
		80	1560	1960	2500	2500	2500	2500	2500			
		90	1710	2000	2500	2500	2500	2500	2500			
		100	1900	2240	2500	2500	2500	2500	2500			
		120	2265	2300	2500	2500	2500					
		125	2315	2345	2500	2500	2500					


Inlet Effect (inches w.c.) ^A	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	1.0
Lock Up (inches w.c.) ^B	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.7	0.8	1.1

Notes:


A. Change in outlet pressure for 10 PSIG inlet pressure change.

B. Outlet pressure increase required for lock up.

*Individual regulator performance may vary from data shown.

 Inlet pressure is too low to achieve desired outlet pressure.

 Do not operate orifice in shaded inlet pressure area.

 Capacity in black outline generated with Blue Spring.

 Capacity in grey outline generated with Yellow Spring

B58 SERIES RESIDENTIAL REGULATOR – MODELS N AND R

14" w.c. Capacity Table (2" Droop*) 3/4" x 1-1/4", 1" x 1-1/4" and 1-1/4" x 1-1/4" Valve Body

Capacities in SCFH of 0.6 S.G. gas; base conditions of 14.7 PSIA and 60° F.

Typical Capacity Info.

Manufacturer	Itron
Type and model	B58R
Regulator	
Inlet size	1-1/4"
Outlet size	1-1/4"
Spring color	Silver
Position	5

Inlet Pressure PSIG	Orifice Size										
	1/8"	0.144" x 3/16"	3/16"	3/16" x 1/4"	1/4"	1/4" x 5/16"	5/16"	3/8"	1/2"	1/2" x 9/16"	
16" w.c.			65	70	80	100	120	200	370	420	
21" w.c.		70	80	180	200	225	250	300	400	450	
24" w.c.		80	90	200	210	250	300	340	450	520	
1	60	90	110	240	300	330	360	400	600	650	
2	80	250	275	400	400	500	550	600	900	1100	
3	120	320	350	500	600	700	750	900	1250	1300	
5	250	420	500	650	750	1000	1080	1250	1700	1800	
10	400	550	800	900	1250	1500	1700	2000	2500	2500	
20	550	800	1250	1290	2150	2180	2500	2500	2500	2500	
30	750	1000	1600	1650	2500	2500	2500	2500	2500	2500	
40	900	1250	2000	2030	2500	2500	2500	2500	2500	2500	
50	1000	1500	2300	2350	2500	2500	2500	2500	2500		
60	1250	1700	2500	2500	2500	2500	2500	2500	2500		
70	1400	1950	2500	2500	2500	2500	2500	2500			
80	1500	2150	2500	2500	2500	2500	2500	2500			
90	1700	2375	2500	2500	2500	2500	2500	2500			
100	1900	2500	2500	2500	2500	2500	2500	2500			
120	2250	2500	2500	2500	2500						
125	2325	2500	2500	2500	2500						




Inlet Effect (inches w.c.) ^A	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.9	1.0
Lock Up (inches w.c.) ^B	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	1.0	1.0

Notes:

A. Change in outlet pressure for 10 PSIG inlet pressure change.

B. Outlet pressure increase required for lock up.

*Individual regulator performance may vary from data shown.

-  Inlet pressure is too low to achieve desired outlet pressure.
-  Do not operate orifice in shaded inlet pressure area.
-  Capacity in black outline generated with Red/grey Spring

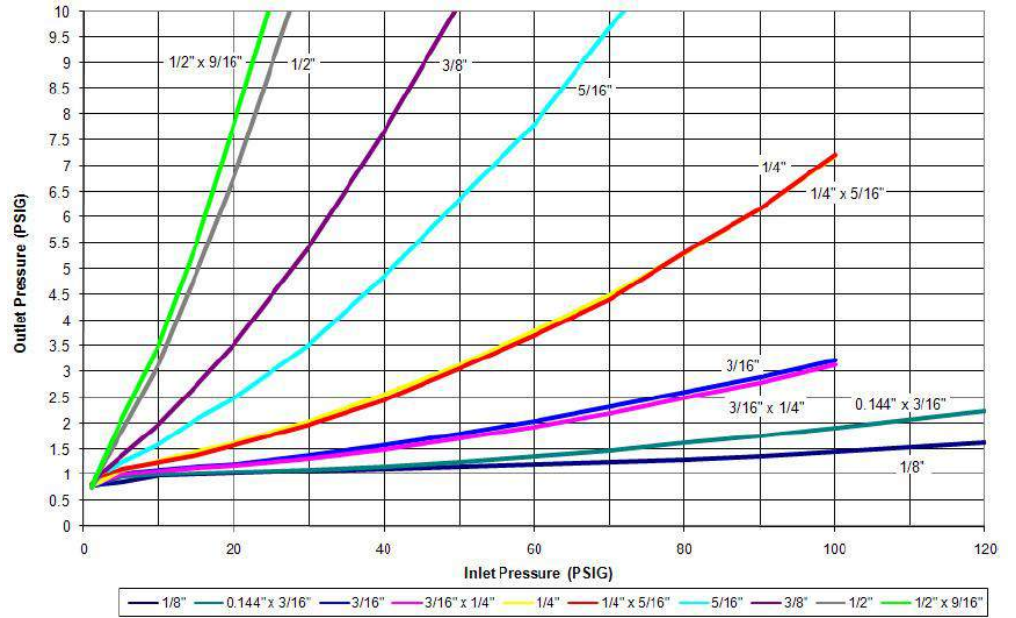
B58 Relief Curves

14" w.c. set point - 3/4" vent with screen

Manufacturer	Itron
Type and Model	B58R
Inlet Size	3/4"
Outlet Size	1"
Spring Color	Silver
Vent Size	3/4"
Position	5

Set point 7.0" w.c. with 40 PSIG inlet @ 50 SCFH. All test results are reported at a base of 14.7 PSIA and 60°F.

Lever Disconnect



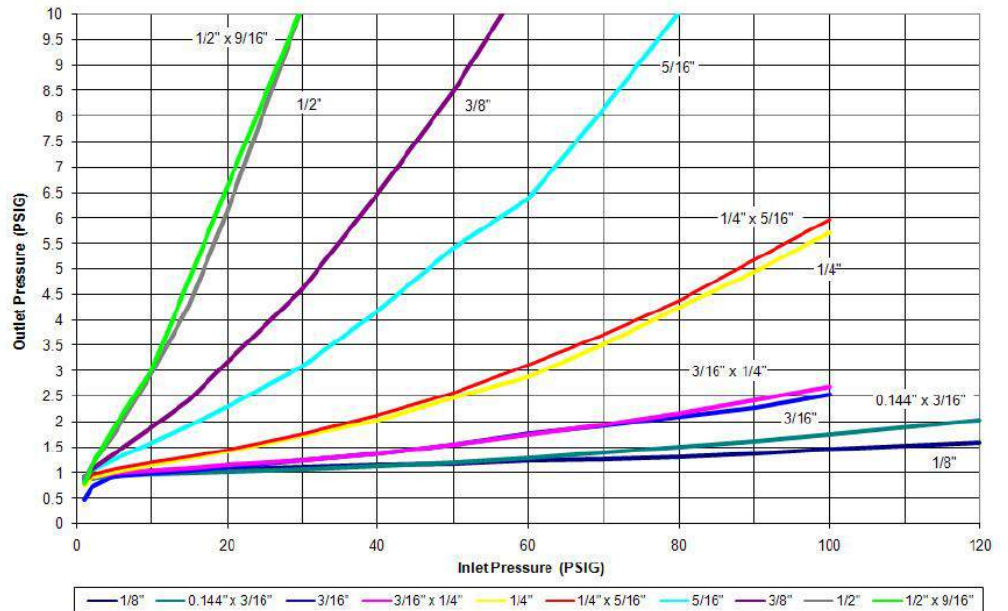
B58 Relief Curves

14" w.c. set point - 1" vent with screen

Manufacturer	Itron
Type and Model	B58R
Inlet Size	3/4"
Outlet Size	1"
Spring Color	Silver
Vent Size	1"
Position	5

Set point 7.0" w.c. with 40 PSIG inlet @ 50 SCFH. All test results are reported at a base of 14.7 PSIA and 60°F.

Lever Disconnect

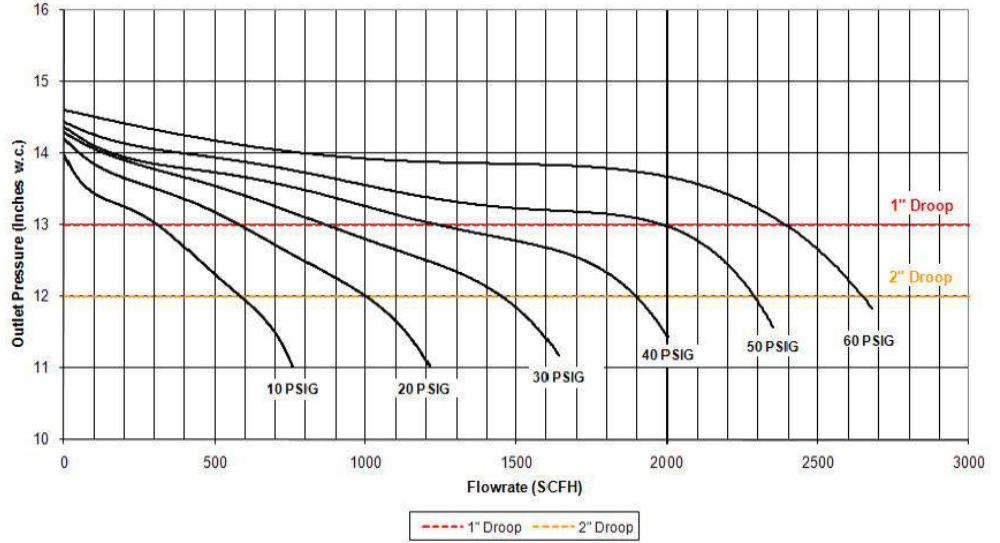


B58 Performance Curves

14" w.c. set point

Manufacturer	Itron
Type and Model	B58R
Inlet Size	3/4"
Outlet Size	1"
Spring Color	Silver
Orifice Size	3/16"

Set point 7.0" w.c. with 40 PSIA inlet @ 50 SCFH. All test results are reported at a base of 14.7 PSIA and 60°F.



B58 SERIES RESIDENTIAL REGULATOR – MODELS N AND R

1 PSIG Capacity Table (1% Absolute Droop*) 3/4" x 3/4" Valve Body

Capacities in SCFH of 0.6 S.G. gas; base conditions of 14.7 PSIA and 60° F.

Typical Capacity Info.		Orifice Size										
		Inlet Pressure PSIG	1/8"	0.144" x 3/16"	3/16"	3/16" x 1/4"	1/4"	1/4" x 5/16"	5/16"	3/8"	1/2"	1/2" x 9/16"
Manufacturer	Itron	2	75	180	225	240	250	275	285	300	400	450
Type and model	B58RHP	3	180	230	250	300	310	350	360	400	520	600
Regulator		5	220	300	310	410	415	450	475	510	630	725
Inlet size	3/4"	10	300	420	450	525	550	600	650	700	875	940
Outlet size	3/4"	20	450	600	625	780	800	825	880	935	995	1100
Spring color	Red/Grey	30	525	780	840	950	960	990	1000	1100	1180	1170
Position	5	40	690	875	940	1050	1060	1100	1110	1145	1200	1200
		50	760	950	1000	1100	1150	1150	1160	1200		
		60	850	1000	1180	1200	1225	1275	1280	1300		
		70	950	1100	1200	1275	1300	1320	1340			
		80	975	1125	1285	1310	1390	1400	1400			
		90	1000	1200	1300	1320	1400	1400	1420			
		100	1100	1225	1325	1400	1425	1425				
		120	1200	1250	1420	1435	1450					
		125	1225	1300	1440	1470	1490					

Inlet Effect (PSIG) ^A	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.04	0.05	0.06
Lock Up (PSIG) ^B	0.05	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.08	0.09	0.08

Notes:

A. Change in outlet pressure for 10 PSIG inlet pressure change.

B. Outlet pressure increase required for lock up.

*Individual regulator performance may vary from data shown.

Do not operate orifice in shaded inlet pressure area.

1 PSIG Capacity Table (2% Absolute Droop*) 3/4" x 3/4" Valve Body

Capacities in SCFH of 0.6 S.G. gas; base conditions of 14.7 PSIA and 60° F.

Inlet Pressure PSIG	Orifice Size									
	1/8"	0.144" x 3/16"	3/16"	3/16" x 1/4"	1/4"	1/4" x 5/16"	5/16"	3/8"	1/2"	1/2" x 9/16"
2	80	230	300	350	400	440	490	520	700	820
3	200	310	360	430	500	560	585	680	900	1000
5	275	425	450	600	635	800	825	900	1100	1200
10	400	550	700	850	930	1080	1100	1275	1450	1550
20	600	800	1000	1200	1300	1400	1500	1660	1800	1890
30	760	1000	1300	1450	1550	1650	1700	1800	2100	2115
40	950	1200	1500	1650	1700	1835	1880	1990	2110	2120
50	1100	1480	1725	1800	1900	1975	2000	2050		
60	1200	1600	1900	1975	2000	2080	2100	2165		
70	1400	1700	2000	2050	2100	2160	2200			
80	1500	1800	2100	2075	2150	2200	2300			
90	1600	1850	2125	2125	2150	2230	2325			
100	1700	1900	2150	2175	2200	2240	2360			
120	1900	1950	2200	2225	2225					
125	1950	1975	2225	2250	2250					

Inlet Effect (PSIG) ^A	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.04	0.05	0.06
Lock Up (PSIG) ^B	0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.09	0.08

Notes:

A. Change in outlet pressure for 10 PSIG inlet pressure change.

B. Outlet pressure increase required for lock up.

*Individual regulator performance may vary from data shown.

██████████ Do not operate orifice in shaded inlet pressure area.

B58 SERIES RESIDENTIAL REGULATOR – MODELS N AND R

1 PSIG Capacity Table (1% Absolute Droop*) 3/4" x 1" and 1" x 1" Valve Bodies

Capacities in SCFH of 0.6 S.G. gas; base conditions of 14.7 PSIA and 60° F.


Typical Capacity Info.		Orifice Size										
		Inlet Pressure PSIG	1/8"	0.144" x 3/16"	3/16"	3/16" x 1/4"	1/4"	1/4" x 5/16"	5/16"	3/8"	1/2"	1/2" x 9/16"
Manufacturer	Itron											
Type and model	B58RHP	2	75	85	220	230	260	290	300	325	440	490
Regulator		3	100	230	270	310	330	370	390	420	575	650
Inlet size	3/4"	5	215	325	340	420	440	490	500	590	810	950
Outlet size	1"	10	300	450	470	625	650	715	740	920	1250	1400
Spring color	Red/Grey	20	495	675	750	980	1075	1120	1250	1425	1820	1990
Position:	5	30	630	880	1025	1270	1480	1510	1740	1790	2280	2460
		40	790	1060	1310	1640	1830	1975	2050	2115	2500	2500
		50	925	1235	1665	1945	2200	2060	2330	2315		
		60	1140	1415	1935	2160	2360	2280	2500	2425		
		70	1230	1645	2205	2390	2500	2400	2500			
		80	1330	1720	2445	2500	2500	2500	2500			
		90	1555	1750	2500	2500	2500	2500	2500			
		100	1750	2035	2500	2500	2500	2500	2500			
		120	2075	2160	2500	2500	2500					
		125	2100	2200	2500	2500	2500					
Inlet Effect (PSIG) ^A			0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.05	0.06
Lock Up (PSIG) ^B			0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.07	0.09	0.09

Notes:

A. Change in outlet pressure for 10 PSIG inlet pressure change.

B. Outlet pressure increase required for lock up.

*Individual regulator performance may vary from data shown.

 Do not operate orifice in shaded inlet pressure area.

1 PSIG Capacity Table (2% Absolute Droop*) 3/4" x 1" and 1" x 1" Valve Body

Capacities in SCFH of 0.6 S.G. gas; base conditions of 14.7 PSIA and 60° F.

Inlet Pressure PSIG	Orifice Size									
	1/8"	0.144" x 3/16"	3/16"	3/16" x 1/4"	1/4"	1/4" x 5/16"	5/16"	3/8"	1/2"	1/2" x 9/16"
2	85	230	320	365	420	490	530	590	800	900
3	200	325	390	460	520	630	670	775	1035	1180
5	280	430	510	610	700	850	880	1060	1400	1585
10	375	580	720	895	1050	1275	1330	1560	1980	2200
20	580	800	1170	1275	1700	1950	2050	2285	2500	2500
30	770	1030	1590	1610	2240	2385	2500	2500	2500	2500
40	955	1255	1950	1980	2500	2500	2500	2500	2500	2500
50	1125	1475	2330	2275	2500	2500	2500	2500		
60	1220	1710	2500	2500	2500	2500	2500	2500		
70	1420	1965	2500	2500	2500	2500	2500			
80	1580	2190	2500	2500	2500	2500	2500			
90	1725	2385	2500	2500	2500	2500	2500			
100	1885	2500	2500	2500	2500	2500	2500			
120	2225	2500	2500	2500	2500					
125	2300	2500	2500	2500	2500					

Inlet Effect (PSIG) ^A	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.05	0.06
Lock Up (PSIG) ^B	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.07	0.09	0.09

Notes:

A. Change in outlet pressure for 10 PSIG inlet pressure change.

B. Outlet pressure increase required for lock up.

*Individual regulator performance may vary from data shown.

██████████ Do not operate orifice in shaded inlet pressure area.

B58 SERIES RESIDENTIAL REGULATOR – MODELS N AND R

1 PSIG Capacity Table (1% Absolute Droop*) 3/4" x 1-1/4", 1" x 1-1/4" and 1-1/4" x 1-1/4" Valve Bodies

Capacities in SCFH of 0.6 S.G. gas; base conditions of 14.7 PSIA and 60° F.

Typical Capacity Info.		Orifice Size										
		Inlet Pressure PSIG	1/8"	0.144" x 3/16"	3/16"	3/16" x 1/4"	1/4"	1/4" x 5/16"	5/16"	3/8"	1/2"	1/2" x 9/16"
Manufacturer	Itron	2	100	190	230	300	320	400	420	450	640	730
Type and model	B58RHP	3	210	230	240	400	420	520	540	600	820	1000
Regulator		5	250	400	450	550	580	700	730	850	1100	1400
Inlet size	1-1/4"	10	350	550	650	850	880	1150	1200	1450	1750	2250
Outlet size	1-1/4"	20	550	800	1100	1250	1400	1900	2000	2400	2500	2500
Spring color	Red/Grey	30	700	1020	1400	1600	2100	2500	2500	2500	2500	2500
Position	5	40	900	1250	1800	2000	2500	2500	2500	2500	2500	2500
		50	1100	1500	2300	2300	2500	2500	2500	2500		
		60	1250	1720	2500	2500	2500	2500	2500	2500		
		70	1400	1960	2500	2500	2500	2500	2500			
		80	1580	2150	2500	2500	2500	2500	2500			
		90	1720	2300	2500	2500	2500	2500	2500			
		100	1900	2500	2500	2500	2500	2500	2500			
		120	2250	2500	2500	2500	2500					
		125	2350	2500	2500	2500	2500					

Inlet Effect (PSIG) ^A	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.06
Lock Up (PSIG) ^B	0.03	0.04	0.04	0.05	0.04	0.04	0.05	0.05	0.05	0.05

Notes:

A. Change in outlet pressure for 10 PSIG inlet pressure change.

B. Outlet pressure increase required for lock up.

*Individual regulator performance may vary from data shown.

Do not operate orifice in shaded inlet pressure area.

Capacity in black line generated with Yellow Spring.

1 PSIG Capacity Table (2% Absolute Droop*) 3/4" x 1-1/4", 1" x 1-1/4" and 1-1/4" x 1-1/4" Valve Bodies

Capacities in SCFH of 0.6 S.G. gas; base conditions of 14.7 PSIA and 60° F.

Inlet Pressure PSIG	Orifice Size									
	1/8"	0.144" x 3/16"	3/16"	3/16" x 1/4"	1/4"	1/4" x 5/16"	5/16"	3/8"	1/2"	1/2" x 9/16"
2	110	250	330	350	480	620	650	750	1000	1300
3	220	340	400	500	600	800	850	1030	1400	1750
5	270	430	550	650	850	1100	1200	1450	1950	2400
10	400	560	850	900	1350	1600	1950	2250	2500	2500
20	580	810	1200	1280	2100	2300	2500	2500	2500	2500
30	750	1050	1600	1650	2500	2500	2500	2500	2500	2500
40	920	1280	1900	2000	2500	2500	2500	2500	2500	2500
50	1110	1500	2300	2350	2500	2500	2500	2500		
60	1260	1730	2500	2500	2500	2500	2500	2500		
70	1420	1960	2500	2500	2500	2500	2500			
80	1590	2170	2500	2500	2500	2500	2500			
90	1730	2350	2500	2500	2500	2500	2500			
100	1920	2500	2500	2500	2500	2500	2500			
120	2260	2500	2500	2500	2500					
125	2375	2500	2500	2500	2500					

Inlet Effect (PSIG) ^A	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.06
Lock Up (PSIG) ^B	0.03	0.04	0.04	0.05	0.04	0.04	0.05	0.05	0.05	0.05


Notes:

A. Change in outlet pressure for 10 PSIG inlet pressure change.

B. Outlet pressure increase required for lock up.

*Individual regulator performance may vary from data shown.

 Do not operate orifice in shaded inlet pressure area.

 Capacity in black line generated with Yellow Spring.

1 PSIG RELIEF CURVES

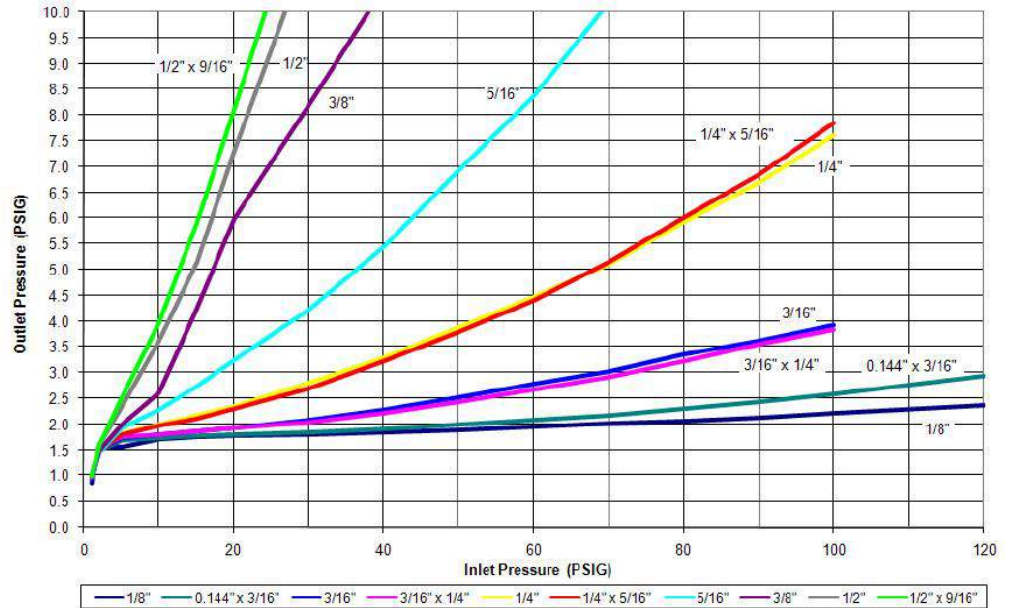
B58 Relief Curves

1 PSIG set point 3/4" vent with screen

Manufacturer	Itron
Type and Model	B58RHP
Inlet Size	3/4"
Outlet Size	1"
Spring Color	Red/Grey
Vent Size	3/4"
Position	5

Set point 7.0" w.c. with 40 PSIG inlet @ 50 SCFH. All test results are reported at a base of 14.7 PSIA and 60°F.

Lever Disconnect



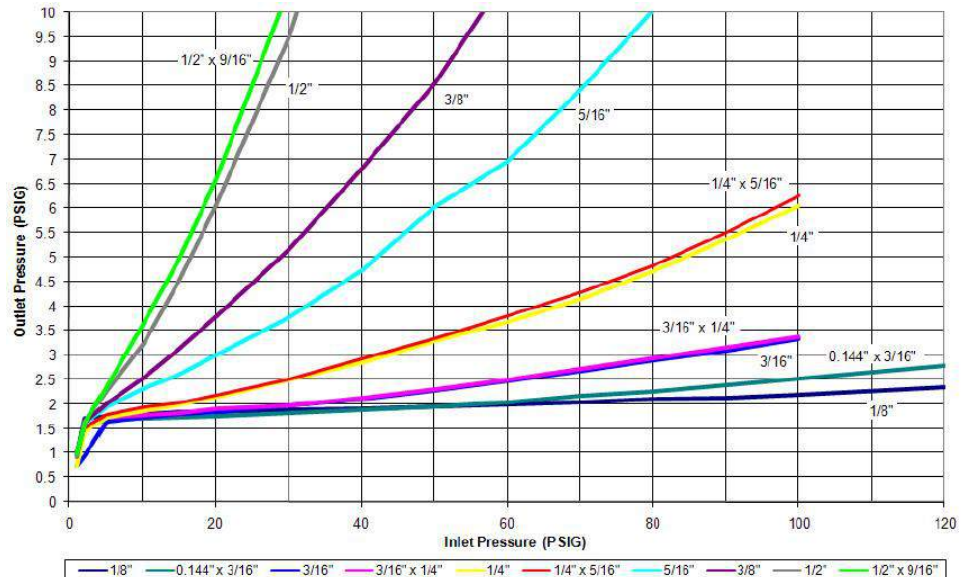
B58 Relief Curves

1 PSIG set point 1" vent with screen

Manufacturer	Itron
Type and Model	B58RHP
Inlet Size	3/4"
Outlet Size	1"
Spring Color	Red/Grey
Vent Size	1"
Position	5

Set point 7.0" w.c. with 40 PSIG inlet @ 50 SCFH. All test results are reported at a base of 14.7 PSIA and 60°F.

Lever Disconnect

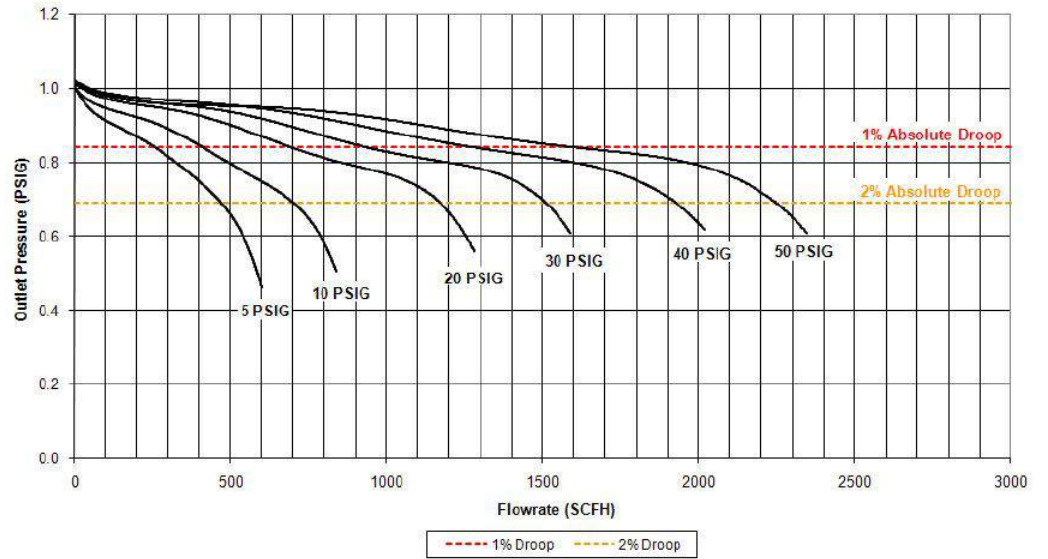


B58 Performance Curves

1 PSIG set point

Manufacturer	Itron
Type and Model	B58RHP
Inlet Size	3/4"
Outlet Size	1"
Spring Color	Red/Grey
Orifice Size	3/16"

Set point 7.0" w.c. with 40 PSIG inlet @ 50 SCFH. All test results are reported at a base of 14.7 PSIA and 60°F.



B58 SERIES RESIDENTIAL REGULATOR – MODELS N AND R

2 PSIG Capacity Table (1% Absolute Droop*) 3/4" x 3/4" Valve Body

Capacities in SCFH of 0.6 S.G. gas; base conditions of 14.7 PSIA and 60° F.

Typical Capacity Info.		Orifice Size										
		Inlet Pressure PSIG	1/8"	0.144" x 3/16"	3/16"	3/16" x 1/4"	1/4"	1/4" x 5/16"	5/16"	3/8"	1/2"	1/2" x 9/16"
Manufacturer	Itron											
Type and model	B58RHP	3	65	75	180	200	220	220	220	240	270	310
Regulator		5	85	200	200	260	290	310	310	330	400	450
Inlet size	3/4"	10	220	300	300	410	420	420	430	460	625	650
Outlet size	3/4"	20	320	375	475	550	550	600	600	750	775	780
Spring color	Red	30	400	500	550	600	610	750	750	760	800	795
Position	5	40	525	550	650	710	720	775	800	840	825	835
		50	545	640	675	800	810	825	840	890		
		60	600	775	800	850	880	900	900	950		
		70	650	830	900	1000	1000	1000	1000			
		80	730	840	950	940	1000	1050	1050			
		90	775	895	975	950	1020	1100	1100			
		100	830	945	1025	1100	1100	1200	1200			
		120	1000	1005	1090	1125	1150					
		125	1010	1030	1060	1135	1175					

Inlet Effect (PSIG) ^A	0.02	0.03	0.03	0.03	0.03	0.04	0.06	0.06	0.07	0.09
Lock Up(PSIG) ^B	0.08	0.08	0.09	0.09	0.09	0.10	0.11	0.12	0.12	0.12

Notes:

A. Change in outlet pressure for 10 PSIG inlet pressure change.

B. Outlet pressure increase required for lock up.

*Individual regulator performance may vary from data shown.

 Do not operate orifice in shaded inlet pressure area.

2 PSIG Capacity Table (2% Absolute Droop*) 3/4" x 3/4" Valve Body

Capacities in SCFH of 0.6 S.G. gas; base conditions of 14.7 PSIA and 60° F.

Inlet Pressure PSIG	Orifice Size									
	1/8"	0.144" x 3/16"	3/16"	3/16" x 1/4"	1/4"	1/4" x 5/16"	5/16"	3/8"	1/2"	1/2" x 9/16"
3	85	90	300	300	325	350	340	410	450	620
5	220	330	325	420	430	525	530	600	675	880
10	330	485	510	650	680	725	785	800	1100	1280
20	520	700	770	975	990	1000	1000	1300	1500	1700
30	700	850	950	1100	1100	1300	1300	1600	1700	1910
40	840	1000	1100	1250	1260	1500	1540	1700	1775	2000
50	900	1100	1200	1450	1450	1750	1750	1900		
60	1000	1300	1400	1560	1650	1900	1920	2000		
70	1100	1400	1500	1800	1900	1925	1970			
80	1200	1600	1650	1850	1950	1950	1950			
90	1280	1700	1700	1900	1975	2000	2000			
100	1400	1800	1800	200	1980	2000	2000			
120	1550	1850	1800	2050	2100					
125	1600	1875	1900	2075	2110					

Inlet Effect (PSIG) ^A	0.02	0.03	0.03	0.03	0.03	0.04	0.06	0.06	0.07	0.09
Lock Up(PSIG) ^B	0.08	0.08	0.09	0.09	0.09	0.10	0.11	0.12	0.12	0.12

Notes:

A. Change in outlet pressure for 10 PSIG inlet pressure change.

B. Outlet pressure increase required for lock up.

*Individual regulator performance may vary from data shown.



Do not operate orifice in shaded inlet pressure area.

B58 SERIES RESIDENTIAL REGULATOR – MODELS N AND R

2 PSIG Capacity Table (1% Absolute Droop*) 3/4" x 1" and 1" x 1" Valve Bodies

Capacities in SCFH of 0.6 S.G. gas; base conditions of 14.7 PSIA and 60° F.

Typical Capacity Info.		Orifice Size										
		Inlet Pressure PSIG	1/8"	0.144" x 3/16"	3/16"	3/16" x 1/4"	1/4"	1/4" x 5/16"	5/16"	3/8"	1/2"	1/2" x 9/16"
Manufacturer	Itron	3	75	95	190	210	220	230	240	250	290	340
Type and model	B58RHP	5	100	200	210	300	275	310	320	340	450	500
Regulator		10	205	290	300	400	420	470	535	550	575	680
Inlet size	3/4"	20	340	450	500	640	660	680	700	720	1020	1110
Outlet size	1"	30	445	585	650	850	880	900	920	1030	1150	1325
Spring color	Red	40	530	710	790	950	990	1020	1040	1200	1410	1460
Position	5	50	620	815	990	1100	1130	1150	1290	1595		
		60	725	920	1090	1250	1280	1350	1530	1625		
		70	825	1050	1240	1500	1530	1680	1740			
		80	900	1150	1450	1500	1715	1780	1855			
		90	980	1180	1620	1820	1950	1980	1990			
		100	1125	1230	1715	1950	1975	2000	2020			
		120	1255	1400	1870	2275	2350					
		125	1295	1425	1900	2340	2460					


Inlet Effect (PSIG) ^A	0.02	0.03	0.03	0.03	0.03	0.04	0.05	0.06	0.08	0.09
Lock Up(PSIG) ^B	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.11


Notes:

A. Change in outlet pressure for 10 PSIG inlet pressure change.

B. Outlet pressure increase required for lock up.

*Individual regulator performance may vary from data shown.

 Do not operate orifice in shaded inlet pressure area.

 Capacity in black outline generated with White Spring.

2 PSIG Capacity Table (2% Absolute Droop*) 3/4" x 1" and 1" x 1" Valve Bodies

Capacities in SCFH of 0.6 S.G. gas; base conditions of 14.7 PSIA and 60° F.

Inlet Pressure PSIG	Orifice Size									
	1/8"	0.144" x 3/16"	3/16"	3/16" x 1/4"	1/4"	1/4" x 5/16"	5/16"	3/8"	1/2"	1/2" x 9/16"
3	85	250	270	300	350	370	390	440	550	640
5	210	330	350	440	460	520	550	620	840	990
10	320	520	525	700	720	850	900	1030	1210	1410
20	510	750	850	1140	1170	1300	1350	1425	1980	2030
30	690	1000	1150	1550	1610	1760	1800	1930	2460	2500
40	870	1250	1475	1900	1930	2085	2110	2300	2500	2500
50	1020	1450	1785	2210	2230	2285	2410	2500		
60	1200	1675	2025	2475	2500	2500	2500	2500		
70	1400	1880	2240	2500	2500	2500	2500			
80	1525	2065	2500	2500	2500	2500	2500			
90	1675	2175	2500	2500	2500	2500	2500			
100	1860	2375	2500	2500	2500	2500				
120	2185	2500	2500	2500	2500					
125	2230	2500	2500	2500	2500					


Inlet Effect (PSIG) ^A	0.02	0.03	0.03	0.03	0.03	0.04	0.05	0.06	0.08	0.09
Lock Up(PSIG) ^B	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.11


Notes:

A. Change in outlet pressure for 10 PSIG inlet pressure change.

B. Outlet pressure increase required for lock up.

*Individual regulator performance may vary from data shown.

 Do not operate orifice in shaded inlet pressure area.

 Capacity in black outline generated with White Spring.

B58 SERIES RESIDENTIAL REGULATOR – MODELS N AND R

2 PSIG Capacity Table (1% Absolute Droop*) 3/4" x 1-1/4", 1" x 1-1/4" and 1-1/4" x 1-1/4" Valve Bodies

Capacities in SCFH of 0.6 S.G. gas; base conditions of 14.7 PSIA and 60° F.

Typical Capacity Info.		Orifice Size										
		Inlet Pressure PSIG	1/8"	0.144" x 3/16"	3/16"	3/16" x 1/4"	1/4"	1/4" x 5/16"	5/16"	3/8"	1/2"	1/2" x 9/16"
Manufacturer	Itron											
Type and model	B58RHP	3	75	115	225	230	240	255	270	320	410	410
Regulator		5	120	230	250	355	365	435	450	510	580	590
Inlet size	1-1/4"	10	290	365	400	580	580	600	610	690	960	1160
Outlet size	1-1/4"	20	435	610	660	920	930	950	970	1220	1755	2060
Spring color	Red	30	610	825	860	1200	1210	1260	1350	1750	2500	2500
Position	5	40	735	900	1100	1460	1470	1775	1820	2280	2500	2500
		50	875	1085	1310	1730	1910	2350	2500	2500		
		60	1030	1360	1700	2200	2225	2500	2500	2500		
		70	1150	1540	2010	2500	2500	2500	2500			
		80	1285	1635	2280	2500	2500	2500	2500			
		90	1365	1960	2500	2500	2500	2500	2500			
		100	1485	2190	2500	2500	2500	2500	2500			
		120	1970	2500	2500	2500	2500					
		125	2080	2500	2500	2500	2500					

Inlet Effect (PSIG) ^A	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.05	0.07
Lock Up(PSIG) ^B	0.05	0.05	0.05	0.05	0.05	0.06	0.07	0.07	0.07	0.07

Notes:

A. Change in outlet pressure for 10 PSIG inlet pressure change.

B. Outlet pressure increase required for lock up.

*Individual regulator performance may vary from data shown.

Do not operate orifice in shaded inlet pressure area.

2 PSIG Capacity Table (2% Absolute Droop*) 3/4" x 1-1/4", 1" x 1-1/4" and 1-1/4" x 1-1/4" Valve Bodies

Capacities in SCFH of 0.6 S.G. gas; base conditions of 14.7 PSIA and 60° F.

Inlet Pressure PSIG	Orifice Size									
	1/8"	0.144" x 3/16"	3/16"	3/16" x 1/4"	1/4"	1/4" x 5/16"	5/16"	3/8"	1/2"	1/2" x 9/16"
3	95	240	310	375	380	460	480	550	770	810
5	215	300	390	560	570	740	760	860	1120	1300
10	380	530	660	880	940	1150	1170	1400	1820	2100
20	590	775	1085	1250	1550	1890	1920	2325	2500	2500
30	780	1000	1495	1610	2080	2500	2500	2500	2500	2500
40	965	1240	1850	2000	2500	2500	2500	2500	2500	2500
50	1145	1450	2250	2300	2500	2500	2500	2500		
60	1320	1695	2500	2500	2500	2500	2500	2500		
70	1480	1950	2500	2500	2500	2500	2500			
80	1680	2160	2500	2500	2500	2500	2500			
90	1815	2365	2500	2500	2500	2500	2500			
100	2015	2485	2500	2500	2500	2500				
120	2360	2500	2500	2500	2500					
125	2500	2500	2500	2500	2500					

Inlet Effect (PSIG) ^A	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.05	0.07
Lock Up(PSIG) ^B	0.05	0.05	0.05	0.05	0.05	0.06	0.07	0.07	0.07	0.07

Notes:

A. Change in outlet pressure for 10 PSIG inlet pressure change.

B. Outlet pressure increase required for lock up.

*Individual regulator performance may vary from data shown.



Do not operate orifice in shaded inlet pressure area.

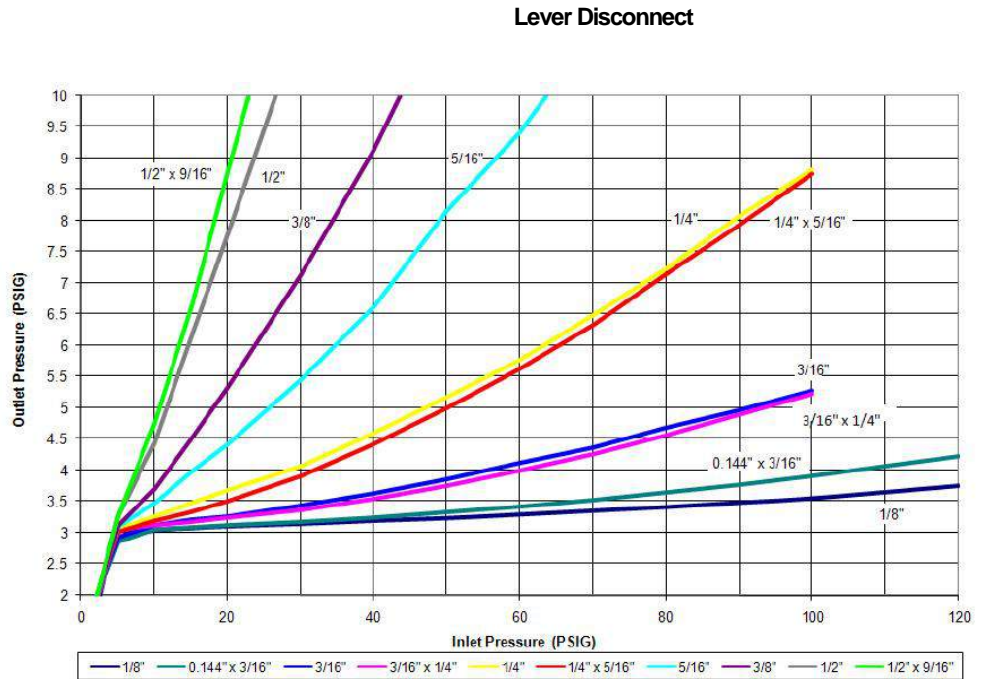
2 PSIG RELIEF CURVES

B58 Relief Curves

2 PSIG set point 3/4" vent with screen

Manufacturer	Itron
Type and Model	B58RHP
Inlet Size	3/4"
Outlet Size	1"
Spring Color	Red
Vent Size	3/4"
Position	5

Set point 7.0" w.c. with 40 PSIG inlet @ 50 SCFH. All test results are reported at a base of 14.7 PSIA and 60°F.

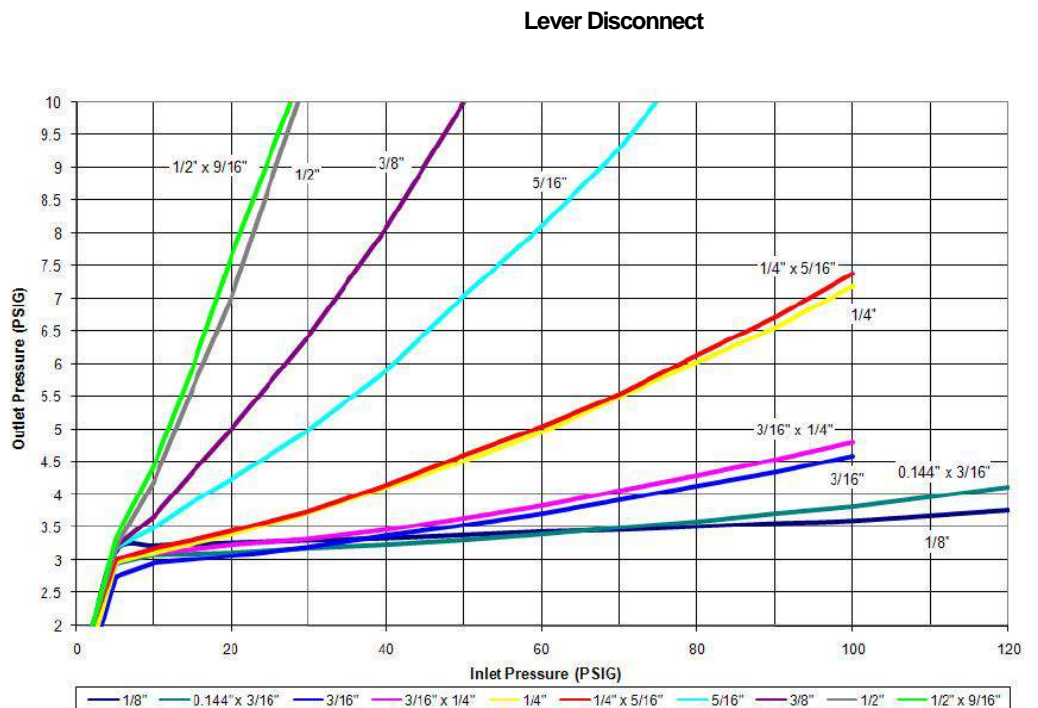


B58 Relief Curves

2 PSIG set point 1" vent with screen

Manufacturer	Itron
Type and Model	B58RHP
Inlet Size	3/4"
Outlet Size	1"
Spring Color	Red
Vent Size	1"
Position	5

Set point 7.0" w.c. with 40 PSIG inlet @ 50 SCFH. All test results are reported at a base of 14.7 PSIA and 60°F.

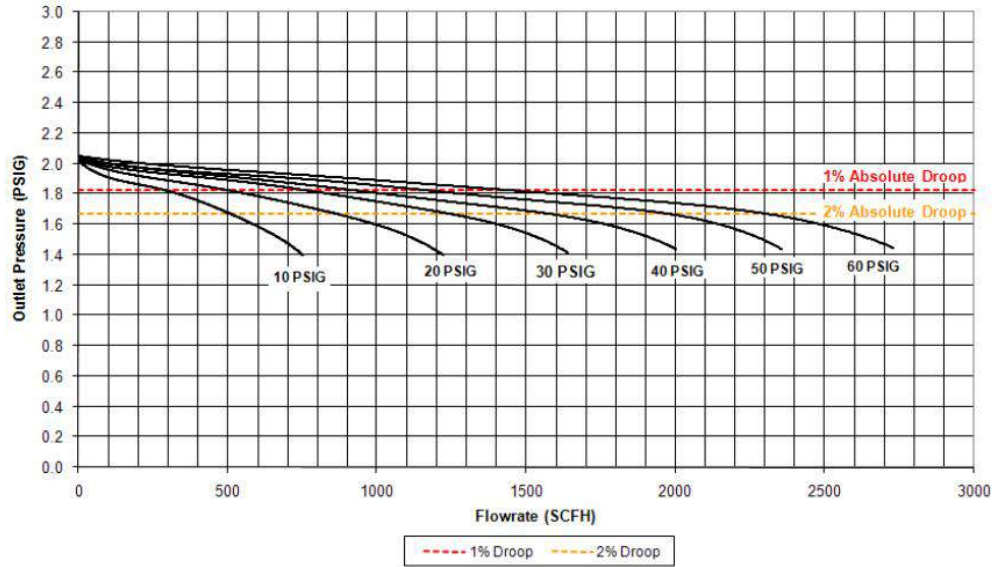


B58 Performance Curves

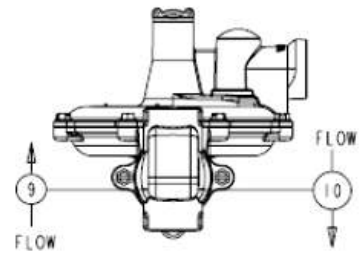
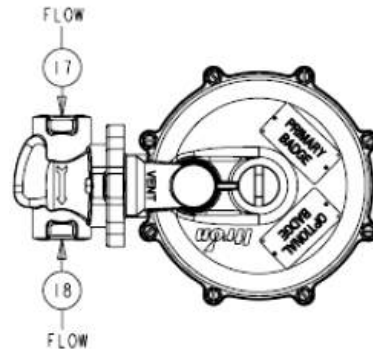
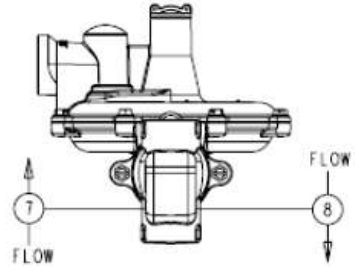
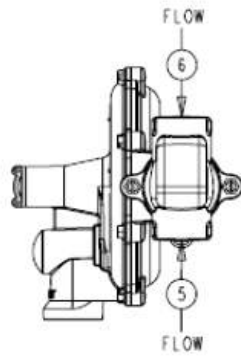
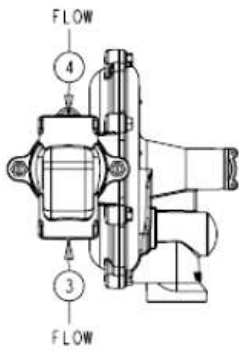
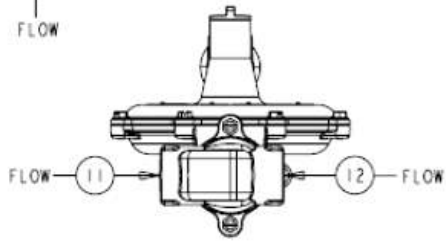
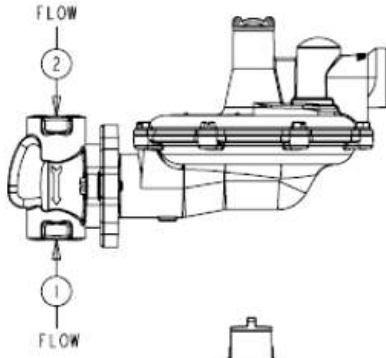
2 PSIG set point

Manufacturer	Itron
Type and Model	B58RHP
Inlet Size	3/4"
Outlet Size	1"
Spring Color	Red
Orifice Size	3/16"

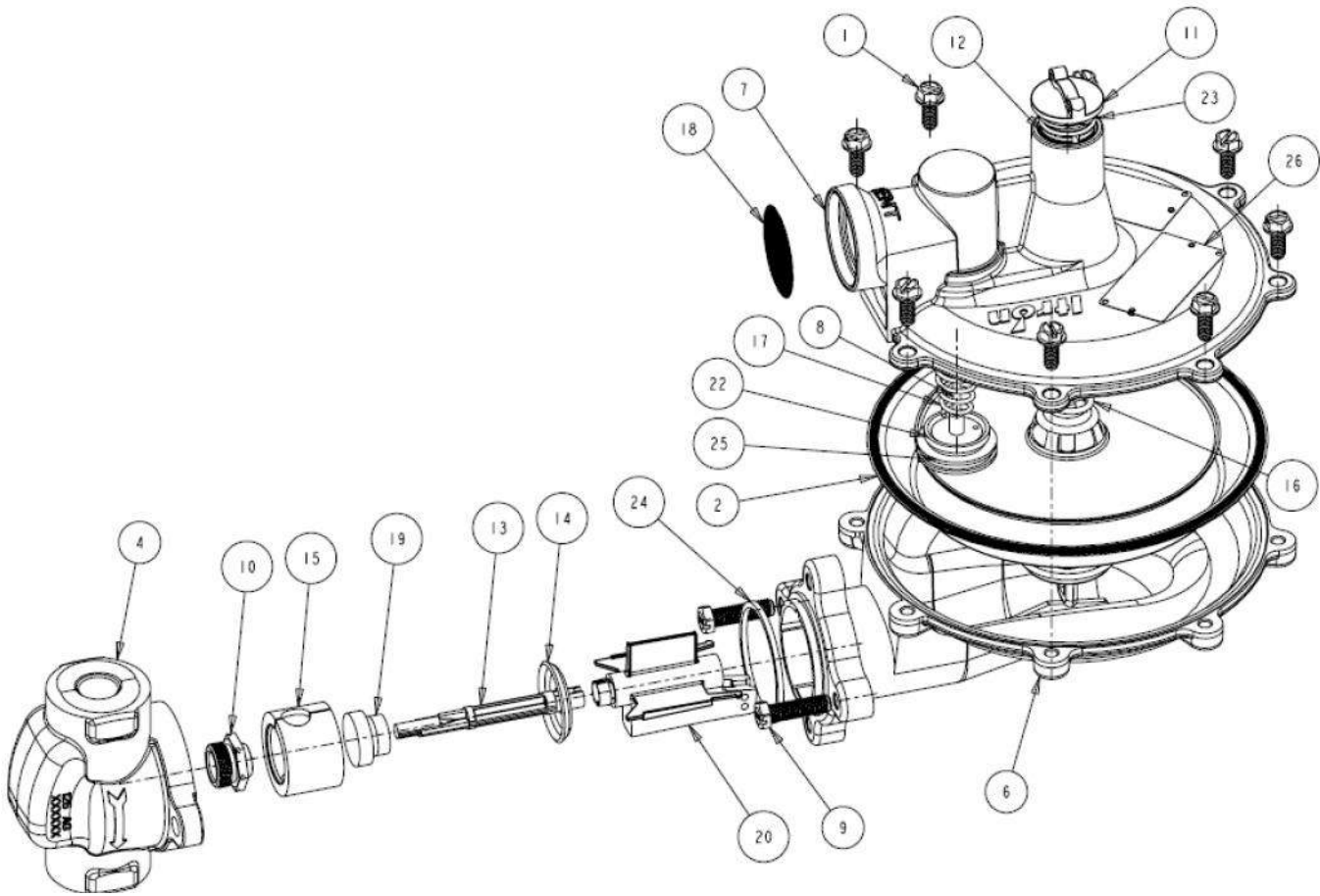
Set point 7.0" w.c. with 40 PSIG inlet @ 50 SCFH. All test results are reported at a base of 14.7 PSIA and 60°F.



ASSEMBLY POSITIONS



B58 PARTS DIAGRAM



B58 Parts List

Item No.	Part No.	Quantity Required per Regulator Model			Description
		N	R	HP	
1	010323	8	8	8	Case Screw (Hex Head) 1/4-20 x 3/4
2	720075		1	1	Diaphragm Assembly -R
	720077	1		1	Diaphragm Assembly -N
4		1	1	1	Valve Body - Straight - Specify Size
	750410				1/2" x 1/2"
	750411				3/4" x 3/4"
	750414				3/4" x 1"
	750412				3/4" x 1-1/4"
	750413				1" x 1"
	750416				1" x 1-1/4"
6	750415				1-1/4" x 1-1/4"
		1	1	1	Lower Diaphragm Case Assembly
	715096				5.5:1 Ratio - 3/4" and 1" valve bodies
	715095				4:1 Ratio - 1-1/4" valve bodies

Item No.	Part No.	Quantity Required per Regulator Model			Description
		N	R	HP	
7					Upper Diaphragm Case
	753189	1	1		Vent - 3/4" Pipe
	753190			1	Vent - 3/4" Pipe -HP
	753250	1	1		Vent - 1" Pipe
	753251			1	Vent - 1" Pipe -HP
8	75483401	1	1	1	Vent Valve 1" Pin
9	755378	2	2	2	Valve Body Screw
10		1	1	1	Orifice - Aluminum (Specify Size)
	757213				1/8" Diameter
	757313				0.144" x 3/16" Diameter
	757219				3/16" Diameter
	757331				3/16" x 1/4" Diameter
	757225				1/4" Diameter
	757337				1/4" x 5/16" Diameter
	757231				5/16" Diameter
	757237				3/8" Diameter
	757451				1/2" Diameter
	75747401				1/2" x 9/16" Diameter
11	760058	1	1	1	Seal Cap
12	760215	1	1		Adjustment Ferrule - Celcon
	760217			1	Adjustment Ferrule - Aluminum
13	761245	1	1	1	Valve Stem
14	761715	1	1	1	Deflector Ring
15	761753	1	1	1	Loading Ring
16		1	1		Adjustment Spring
	762111				Brown
	762117				Dark Green
	762139				Grey
	762119				Light Green
	762123				Black
	762127				Blue
	762129				Silver
				1	HP Adjustment Spring
	762025				Red/Grey
	762131				Yellow
	762135				Red
	762137				White

Item No.	Part No.	Quantity Required per Regulator Model			Description
		N	R	HP	
17	762651	1	1	1	Vent Spring
18	762933	1	1	1	Vent Valve Screen; 1" and 3/4" Vent
19	765011	1	1	1	Buna-N Valve Seat
	765012	1	1	1	Silicone Valve Seat
20		1	1	1	Valve Stem Insert Assembly
	765155				4:1 Lever Ratio - 1-1/4" Valve Bodies
	765156				5.5:1 Lever Ratio - 3/4" & 1" Valve Bodies
22	765193	1	1	1	Vent Valve Disc
23	765503	1	1	1	Seal Cap "O" Ring
24	765605	1	1	1	Valve Body Gasket
25	765685	1	1	1	Vent Valve Seat
26	769250	1	1	1	Regulator Badge(s)

Torque Specifications

Case Screws	27-30 in. lbs.
Valve Body Screws	85-115 in. lbs.
Orifice	450-500 in. lbs.

Special Tools

799051	Spring Adjustment Wrench
799017	Orifice Socket

VENT LINES FOR REGULATORS

When constructing vent lines to be attached to regulators installed indoors, follow a few basic rules:

- a. Never use pipe sizes smaller than the vent size; smaller pipe sizes restrict the gas flow. If a long gas run must be used, Itron advises increasing the pipe one nominal size every ten feet to keep the flow restriction as low as possible.
- b. Keep the vent line length as short as possible to minimize the restriction and reduce the vent's tendency to cause regulator pulsation.
- c. Support the vent pipe to eliminate strain on the regulator diaphragm case.
- d. Always point outdoor vent pipes in the downward position to reduce the possibility of rain, snow, sleet, and other moisture entering the pipe. Install a bug screen in the end of the pipe.
- e. Do not locate the vent line terminus near windows, fans, or other ventilation equipment. See the installation instructions furnished with the regulator.
- f. Adhere to all applicable codes and regulations.
- g. If your vent pipe causes regulator pulsation, consult your sales representative or manufacturer.
- h. Itron strongly recommends running a separate vent line for each regulator. Headers with various installed devices can cause regulator malfunction.

Caution Ensure the end of the vent line is away from ANY potential ignition sources. It is the installer's responsibility to ensure the vent line is exhausting to a safe environment.

INSTALLATION

Warning Itron does not endorse or warrant the completeness or accuracy of any third party regulator installation procedures or practices, unless otherwise provided in writing by Itron. Follow your company's standard operating procedures regarding the use of personal protection equipment (PPE). Adhere to guidelines issued by your company in addition to those given in this document when installing regulators.

- a. Remove all shipping plugs from the regulator inlet, outlet, and vent before installation.
- b. Verify the piping interior and regulator inlet and outlet are clean and free of dirt, pipe dope, and other debris. Dirt and other foreign materials entering the regulator can cause a loss of pressure control.
- c. Apply pipe joint sealant to the male pipe threads. Do not use pipe joint material on the regulator's female threads. Joint sealant could become lodged in the regulator and cause a loss of pressure control.
- d. Gas must flow through the regulator's valve body in the direction cast on the regulator body. Gas flowing in the wrong direction can overpressure and cause damage to the regulator.
- e. For the B42, B31, B58, B34, and B34S models, the diaphragm casing can be mounted in any position relative to the body through a full 360° angle at 90° increments. B57, B34, and B38 models can be mounted in a full 360° angle.
- f. When the regulator is installed OUTDOORS, the vent must always be positioned so that rain, snow, moisture or foreign particles cannot enter the vent opening. It is recommended that the vent be positioned to face downward so as to avoid entry of water or other matter which could interfere with the proper operation of the regulator. The vent should be located away from building eaves, window openings, building air intakes and above the expected snow level at the site. The vent opening should be inspected periodically to insure it does not become blocked by foreign material as outlined in DOT PHMSA-RSPA-2004-19856.
- g. When the regulator is installed INDOORS, the vent must be piped to the outside atmosphere while using the shortest length of pipe, the least number of elbows, and having as large a pipe diameter as the vent size or larger. USING VENT PIPE ANY SIZE SMALLER THAN THE VENT CONNECTION WILL LIMIT THE REGULATOR'S INTERNAL RELIEF VALVE CAPACITY. The outlet end of the pipe must be protected from moisture and the entrance of foreign particles. The regulator should be specified by the user with the size vent and pipe threads desired to make the vent pipe connection.

START-UP PROCEDURE

- a. Mount a pressure gauge downstream of the regulator to monitor the downstream pressure.
- b. With the downstream pressure valve closed, slowly open the inlet valve. The outlet pressure should rise to slightly more than the set-point.
- c. Verify there are no leaks and all connections are tight.
- d. The regulator was pre-set at the factory to match order specifications. If necessary, adjust the outlet pressure by removing the seal cap on the top of the spring housing and rotating the ferrule or adjustment screw inside the spring housing. Adjusting the outlet pressure requires either a ratchet with a socket and an extension or a large flat-head screwdriver. With a small amount of gas flowing through the regulator:
- e. Rotate the adjustment screw clockwise to raise the outlet pressure.
- f. Rotate the adjustment screw counter-clockwise to lower the outlet pressure.
- g. Replace the seal cap and check for leaks after the desired outlet pressure is achieved.

The regulator is ready for operation.

SAFETY WARNING

This product, as of the date of manufacture, is designed and tested to conform to all governmental and industry safety standards as they may apply to the manufacturer. The purchaser/user of this product must comply with all fire control, building codes, and other safety regulations governing the application, installation, operation, and general use of this regulator to avoid leaking gas hazards resulting from improper installation, startup or use of this product.

Itron strongly recommends installation by a qualified professional and periodic inspection of pressure regulators (inspections may be required by local applicable codes or regulations).

Inspections should include checking for gas quality, cycle numbers, external environmental changes, and operating conditions that impact wear on the regulator's moving parts. To ensure safe and efficient operation of this product, replace worn or damaged parts found during inspection.

LIMITED WARRANTY

Itron, Inc. 970 Highway 127 North, Owenton, Kentucky 40359-9302, warrants this gas product against defects in materials and workmanship for the earlier of one (1) year from the date the product is shipped by Itron or a period of one year from the date the product is installed by Itron at the original purchaser's site. During such one-year period, provided that the original purchaser continues to own the product, Itron will, at its sole option, repair any defects, replace the product or repay the purchase price.

» This warranty will be void if the purchaser fails to observe the procedures for installation, operation or service of the product as set forth in the Operating Manual and Specifications for the product or if the defect is caused by tampering, physical abuse or misuse of the product.

» ITRON SPECIFICALLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING THOSE OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. UNDER NO CIRCUMSTANCES WILL ITRON BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND WHATSOEVER.

» Itron's liability for any claim of any kind, including negligence and breach of warranty for the sale and use of any product covered by or furnished, shall in no case exceed the price allocable to the product or part thereof which gives rise to the claim.

» In the event of a malfunction of the product, consult your Itron Service Representative or Itron Inc., 970 Highway 127 North, Owenton, Kentucky 40359-9302. See Itron Terms and Conditions of Sale for the full and complete terms of the Limited Warranty.

ORDERING INFORMATION

1. Inlet and outlet connection size and type
2. Model number
3. Outlet pressure desired
4. Inlet pressure range
5. Type of gas and maximum capacity required
6. Assembly position number (see diagram above)
7. Vent size
8. Special requirements such as tagging, pipe plug tap, seal wire, etc.



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