

Model 243 Capacity Tables

2" Models 243-12-1 and 243-12-2 in SCFH of Natural Gas (0.6 Specific Gravity – 14.65 psia – 60°F)

Outlet Pressure and Spring	Inlet Pressure psi	Orifice Size and Valve Angle						
		1¼"	1"	¾"	¾"	½"	⅜"	¼"
		30°	30°	30°	10°	10°	10°	10°
Setpoint 6" w.c. 1" w.c. Droop Red Spring 3½" to 6½" w.c. 143-16-021-03	12	2400	2200	1500	1250	800	500	
	1	4000	3600	2700	2100	1300	850	400
	2	6400	6000	4500	3800	2200	1400	600
	5	11000	11000	8200	6500	3800	2300	1000
	10	13000	15000	12500	9000	5700	3300	1500
	15	14000	15000	15000	10300	7100	4000	1750
	25		15000	20000	11500	9500	5300	2400
	40			20000	13000	13000	7500	3300
	60				15000	13000	10000	4500
	80					13000	12000	5700
	100					13000	12000	7000
	125						12000	8000
Setpoint 7" w.c. 1" w.c. Droop Blue Spring 5" to 8½" w.c. 143-16-021-04	12	2000	1800	1400	1100	700	500	
	1	3400	3000	2200	2000	1200	750	400
	2	6000	5600	4000	3200	2000	1250	600
	5	11000	11000	8000	6000	3700	2100	1000
	10	12500	14000	12000	8400	5600	3300	1400
	15	14000	15000	15000	10000	7100	4000	1750
	25		15000	20000	11500	9500	5300	2400
	40			20000	13500	12000	7500	3200
	60				15000	13000	10000	4400
	80					13000	12000	5600
	100					13000	12000	7000
	125						12000	8000
Setpoint 11" w.c. 2" w.c. Droop Green Spring 6" to 14" w.c. 143-16-021-05	1	3400	3000	2100	1950	1150	750	400
	2	5600	4700	3700	3400	2000	1200	600
	5	10500	9000	7800	6900	3500	2100	1000
	10	13000	13000	12000	9200	5500	3200	1600
	15	14000	14000	15000	10500	7000	4000	1800
	25		15000	20000	12000	9500	5300	2400
	40			20000	14500	12500	7500	3200
	60				15500	13000	10000	4400
	80					14000	12000	5600
	100					14000	12000	7000
	125						12000	8000

The last capacity figure in each group indicates the maximum allowable inlet pressure (except for emergency conditions). The stepped line indicates the recommended maximum capacity and inlet pressure for each orifice for operation within the optimum performance range.

NOTE: The performance data is based on normal testing at 70°F flowing temperature. Changes in performance can occur at extreme low flowing temperatures.

Model 243 Capacity Tables

2" Models 243-12-1 and 243-12-2 in SCFH of Natural Gas (0.6 Specific Gravity – 14.65 psia – 60°F) (Continued)

Outlet Pressure and Spring	Inlet Pressure psi	Orifice Size and Valve Angle						
		1¼"	1"	¾"	¾"	½"	⅜"	¼"
		30°	30°	30°	10°	10°	10°	10°
Setpoint 18" w.c. 3" w.c. Droop Orange Spring 12" to 28" w.c. 143-16-021-06	1	2500	2000	1400	1200	950	650	
	2	4200	3400	2700	2400	1500	1000	500
	5	8000	7100	5600	4700	2800	1800	950
	10	12000	12000	10500	7500	4800	2900	1400
	15	13500	14500	15000	9500	6500	3900	1700
	25		16500	20000	11500	9200	5300	2300
	40			20000	13500	12000	7500	3200
	60				15000	13000	10000	4400
	80					14000	12000	5600
	100					14000	12000	7000
125						12000	8000	
Setpoint 1 psi 0.31 psi Droop Orange Spring 12" to 28" w.c. 143-16-021-06	2	6500	5000	4000	4000	2000	1300	500
	5	8000	7500	6000	6000	4000	2200	1000
	10	9000	8500	8000	8000	5500	3000	1400
	15	12000	11000	10000	10000	7000	4000	1800
	25		13500	12500	11500	9500	5500	2400
	40			14000	13000	11000	7400	3300
	60				15000	13500	10000	4500
	80					15000	13000	6000
	100					16000	14000	7000
125						14000	8500	
Setpoint 1 psi 0.2 psi Droop Black Spring 1 to 2 psi 143-16-021-07	2	3350	3000	2000	1900	1200	1000	500
	5	6600	5900	4200	3900	2400	1600	1000
	10	11000	10000	7600	6500	4100	2800	1450
	15	13000	12000	9300	8300	5600	3800	1700
	25		15000	16500	11000	8500	5300	2400
	40			20000	14000	12500	7500	3400
	60				15500	13000	10000	4400
	80					14000	12000	5600
	100					14000	12000	7000
125						12000	8000	

The last capacity figure in each group indicates the maximum allowable inlet pressure (except for emergency conditions). The stepped line indicates the recommended maximum capacity and inlet pressure for each orifice for operation within the optimum performance range.

NOTE: The performance data is based on normal testing at 70°F flowing temperature. Changes in performance can occur at extreme low flowing temperatures.

Model 243 Capacity Tables

2" Models 243-12-1 and 243-12-2 in SCFH of Natural Gas (0.6 Specific Gravity – 14.65 psia – 60°F) (Continued)

Outlet Pressure and Spring	Inlet Pressure psi	Orifice Size and Valve Angle						
		1¼"	1"	¾"	¾"	½"	⅜"	¼"
		30°	30°	30°	10°	10°	10°	10°
Setpoint 2 psi 0.6 psi Droop Cadmium Spring 1½ to 3 psi 143-16-021-08	5	8200	7400	5200	4800	2900	1900	900
	10	12500	11300	8700	7800	4800	3000	1400
	15	15500	14500	11500	10000	6500	3800	1700
	25		18000	16500	13500	9000	5300	2400
	40			20000	16500	12500	7600	3400
	60				16500	15500	10000	4600
	80					16000	12000	5600
	100					16000	12000	7000
	125						12000	8000
Setpoint 3 psi 0.35 psi Droop Cadmium Spring 1½ to 3 psi 143-16-021-08	5	3500	3000	2000	1800	1400	1100	750
	10	8000	7000	5500	5000	3000	2000	1100
	15	10500	10000	8000	7000	4000	3000	1600
	25		11500	9800	9000	5600	4500	2000
	40			21500	20000	10500	7500	3500
	60				21000	14500	10500	4500
	80					18000	13500	6000
	100					20500	16400	7500
	125						19000	9000

The last capacity figure in each group indicates the maximum allowable inlet pressure (except for emergency conditions). The stepped line indicates the recommended maximum capacity and inlet pressure for each orifice for operation within the *optimum performance* range.

NOTE: The performance data is based on normal testing at 70°F flowing temperature. Changes in performance can occur at extreme low flowing temperatures.

Model 243 Capacity Tables

1½" Models 243-12-1 and 243-12-2 in SCFH of Natural Gas (0.6 Specific Gravity – 14.65 psia – 60°F)

Outlet Pressure and Spring	Inlet Pressure psi	Orifice Size and Valve Angle					
		1¼"	1"	¾"	½"	⅜"	¼"
		30°	30°	10°	10°	10°	10°
Setpoint 6" w.c. 1" w.c. Droop Red Spring 3½" to 6½" w.c. 143-16-021-03	12	2000	1600	1300	700	500	
	1	2800	2500	2100	1200	800	400
	2	4000	3500	3200	2100	1300	600
	5	6100	5600	4800	3700	2200	1000
	10	8200	7700	6500	5600	3100	1400
	15	9300	9300	7400	6800	3900	1750
	25		11000	9100	8100	5100	2400
	40			10500	9800	7100	3200
	60			12000	11000	9300	4400
	80				12000	10500	5600
	100				12000	11000	7000
	125					11000	8000
Setpoint 7" w.c. 1" w.c. Droop Blue Spring 5" to 8½" w.c. 143-16-021-04	12	1800	1550	1100	600	500	
	1	2600	2300	1850	1100	750	400
	2	3800	3300	2600	1900	1250	600
	5	5700	5100	4200	3300	2100	1000
	10	8200	7600	6000	5400	3100	1400
	15	9300	9100	7000	6600	3900	1750
	25		11000	8400	7800	5100	2400
	40			10000	9500	7100	3200
	60			10500	10500	9300	4400
	80				11500	10500	5600
	100				12000	11000	7000
	125					11000	8000
Setpoint 11" w.c. 2" w.c. Droop Green Spring 6" to 14" w.c. 143-16-021-05	1	2700	2300	1900	1100	750	400
	2	4000	3500	2700	1900	1200	600
	5	6000	5600	4500	3500	2100	1000
	10	8800	8200	6500	5500	2900	1400
	15	10000	9800	7700	6800	3800	1750
	25		11500	9700	8100	5100	2400
	40			11500	9700	7100	3200
	60			12500	11500	9300	4400
	80				12000	10500	5600
	100				12500	11000	7000
	125					11000	8000

The last capacity figure in each group indicates the maximum allowable inlet pressure (except for emergency conditions). The stepped line indicates the recommended maximum capacity and inlet pressure for each orifice for operation within the optimum performance range.

NOTE: The performance data is based on normal testing at 70°F flowing temperature. Changes in performance can occur at extreme low flowing temperatures.

Model 243 Capacity Tables

1½" Models 243-12-1 and 243-12-2 in SCFH of Natural Gas (0.6 Specific Gravity – 14.65 psia – 60°F) (Continued)

Outlet Pressure and Spring	Inlet Pressure psi	Orifice Size and Valve Angle					
		1¼"	1"	¾"	½"	⅜"	¼"
		30°	30°	10°	10°	10°	10°
Setpoint 18" w.c. 3" w.c. Droop Orange Spring 12" to 28" w.c. 143-16-021-06	1	1800	1300	1100	800	500	
	2	3000	2800	2200	1500	1000	500
	5	5600	5200	4200	2600	1800	950
	10	8600	7700	6000	4300	2900	1400
	15	10000	9300	7400	5800	3800	1750
	25		11500	9100	7800	5100	2400
	40			11000	9500	7100	3200
	60			12500	11000	9300	4400
	80				12500	10500	5600
	100				13000	11000	7000
	125					11000	8000
Setpoint 1 psi 0.31 psi Droop Orange Spring 12" to 28" w.c. 143-16-021-06	2	6500	5000	4000	2000	1300	500
	5	8000	7500	6000	4000	2200	1000
	10	9000	8500	8000	5500	3000	1400
	15	12000	11500	10000	7000	4000	1800
	25		13500	11500	9500	5500	2400
	40			13000	11000	7400	3300
	60			15000	13500	10000	4500
	80				15000	13000	6000
	100				16000	14000	7000
	125					14000	8500
Setpoint 1 psi 0.2 psi Droop Black Spring 1 to 2 psi 143-16-021-07	2	2800	2450	1500	1200	850	500
	5	5500	5100	3700	2400	1600	950
	10	8000	7500	5700	4000	2700	1400
	15	10000	9100	7100	5300	3700	1750
	25		11000	9300	7300	5100	2400
	40			11000	9300	7100	3200
	60			12500	11000	9300	4600
	80				12500	10500	5600
	100				13000	11000	7000
125					11000	8000	

The last capacity figure in each group indicates the maximum allowable inlet pressure (except for emergency conditions). The stepped line indicates the recommended maximum capacity and inlet pressure for each orifice for operation within the *optimum performance* range.

NOTE: The performance data is based on normal testing at 70°F flowing temperature. Changes in performance can occur at extreme low flowing temperatures.

Model 243 Capacity Tables

1½" Models 243-12-1 and 243-12-2 in SCFH of Natural Gas (0.6 Specific Gravity – 14.65 psia – 60°F) (Continued)

Outlet Pressure and Spring	Inlet Pressure psi	Orifice Size and Valve Angle					
		1¼"	1"	¾"	½"	¾"	¼"
		30°	30°	10°	10°	10°	10°
Setpoint 3 psi 0.35 psi Droop Cadmium Spring 1½ to 3 psi 143-16-021-08	5	3500	3000	2000	1400	1100	500
	10	7000	6000	5000	2500	2000	1000
	15	9000	8000	7000	3500	2500	1500
	25		10000	8000	4800	4500	1900
	40			11500	6500	6000	3500
	60			14000	8000	7500	4500
	80				9000	8000	6000
	100				12000	11000	7000
	125					12000	8500
Setpoint 2 psi 0.6 psi Droop Cadmium Spring 1½ to 3 psi 143-16-021-08	5	6000	5300	4100	2700	1700	900
	10	10000	9300	7100	4700	2900	1400
	15	13000	12000	8800	6200	3800	1700
	25		14500	11000	8600	5200	2400
	40			13500	11000	7100	3200
	60			15000	13500	10000	4600
	80				15000	12000	5600
	100				16000	12000	7000
	125					12000	8000

The last capacity figure in each group indicates the maximum allowable inlet pressure (except for emergency conditions). The stepped line indicates the recommended maximum capacity and inlet pressure for each orifice for operation within the *optimum performance* range.

NOTE: The performance data is based on normal testing at 70°F flowing temperature. Changes in performance can occur at extreme low flowing temperatures.

Model 243 Capacity Tables

1¼", 1½" and 2" Model 243-12-1 with External Control Line in SCFH of Natural Gas

(0.6 Specific Gravity – 14.65 psia – 60°F)

Outlet Pressure and Spring	Inlet Pressure psi	Orifice Size and Valve Angle					
		1¼"	1"	¾"	½"	⅜"	¼"
		10°	10°	10°	10°	10°	10°
Setpoint 6" w.c. 1" w.c. Droop Red Spring 3½" to 6½" w.c. 143-16-021-03	12	2200	1900	1600	800	500	
	1	3600	3200	2300	1300	850	400
	2	5600	4700	3500	2000	1400	600
	5	10500	8200	5700	3500	2200	1000
	10	15000	12000	8900	5200	3000	1500
	15	19000	16000	12000	6700	4000	1750
	25	22000	20000	16000	9000	5200	2400
	40		24000	21000	12000	7500	3200
	60			27000	15500	10000	4400
	80				17000	12000	5700
	100				19000	13500	7000
	125					15000	8000
Setpoint 7" w.c. 1" w.c. Droop Blue Spring 5" to 8½" w.c. 143-16-021-04	12	2000	1700	1500	700	450	
	1	3100	2600	2000	1100	750	400
	2	5000	3800	3000	1700	1200	600
	5	7800	6500	5000	3100	2000	1000
	10	13000	10000	7000	4800	2900	1500
	15	15000	14000	9400	6400	4000	1750
	25	20000	17000	13500	8500	5200	2400
	40		21000	17000	11500	7500	3200
	60			19000	15000	10000	4400
	80				17000	12000	5700
	100				19000	13500	7000
	125					15000	8000
Setpoint 11" w.c. 2" w.c. Droop Green Spring 6" to 14" w.c. 143-16-021-05	1	3200	2500	1900	1100	700	350
	2	5200	4200	3200	1800	1300	550
	5	8500	7200	5200	3200	2000	1000
	10	13500	11000	8000	5000	3000	1500
	15	16000	14000	11000	6500	4000	1750
	25	20000	17000	14000	9000	5200	2400
	40		24000	21000	12000	7000	3200
	60			25000	15000	9800	4400
	80				17000	12000	5700
	100				19000	13500	7000
	125					15000	8000

The last capacity figure in each group indicates the maximum allowable inlet pressure (except for emergency conditions). The stepped line indicates the recommended maximum capacity and inlet pressure for each orifice for operation within the optimum performance range.

* 2" Body Only.

NOTE: The performance data is based on normal testing at 70°F flowing temperature. Changes in performance can occur at extreme low flowing temperatures.

Model 243 Capacity Tables

1 1/4", 1 1/2" and 2" Model 243-12-1 with External Control Line in SCFH of Natural Gas

(0.6 Specific Gravity – 14.65 psia – 60°F) (Continued)

Outlet Pressure and Spring	Inlet Pressure psi	Orifice Size and Valve Angle					
		1 1/4"	1"	3/4"	1/2"	3/8"	1/4"
		10°	10°	10°	10°	10°	10°
Setpoint 18" w.c. 3" w.c. Droop Orange Spring 12" to 28" w.c. 143-16-021-06	1	2400	2000	1200	900	600	300
	2	4200	3200	2000	1500	1000	500
	5	6500	5500	4100	2700	1600	950
	10	11000	8000	6200	4200	2800	1500
	15	14500	11000	8000	5800	3800	1750
	25	18000	15000	11500	8000	5000	2400
	40		21000	15000	11000	7000	3200
	60			20000	15000	9800	4400
	80				17000	12000	5700
	100				19000	13500	7000
125					15000	8000	
Setpoint 1 psi 0.2 psi Droop Black Spring 1 to 2 psi 143-16-021-07	2	3500	2900	1700	1300	850	500
	5	7000	5400	4000	2600	1600	950
	10	10500	8500	5800	4000	2800	1500
	15	14500	10500	7600	5400	3800	1750
	25	18000	14500	10500	7500	5000	2400
	40		20000	15000	10500	7000	3200
	60			20000	15000	9800	4400
	80				17000	12000	5700
	100				19000	13500	7000
	125					15000	8000
Setpoint 2 psi 0.6 psi Droop Cadmium Spring 1 1/2 to 3 psi 143-16-021-08	5	8600	6800	5300	2700	1900	850
	10	13000	10500	7500	4500	2900	1400
	15	17500	13500	10500	6000	3800	1750
	25	25000	20000	14000	8500	5000	2400
	40		25000	20000	12000	7000	3200
	60			25000	15000	10000	4400
	80				17000	12000	5700
	100				19000	13500	7000
125					15000	8000	

The last capacity figure in each group indicates the maximum allowable inlet pressure (except for emergency conditions). The stepped line indicates the recommended maximum capacity and inlet pressure for each orifice for operation within the optimum performance range.

* 2" Body Only.

NOTE: The performance data is based on normal testing at 70°F flowing temperature. Changes in performance can occur at extreme low flowing temperatures.

Model 243 Capacity Tables

1½" and 2" Model 243-8-1 and 243-8-2 in SCFH of Natural Gas (0.6 Specific Gravity – 14.65 psia – 60°F)

Outlet Pressure and Spring	Inlet Pressure psi	Orifice Size and Valve Angle					
		1"	¾"	½"	⅜"	¼"	0.207"
		30°	10°	10°	10°	10°	10°
Setpoint 6" w.c. 1" w.c. Droop Red-Black Spring 3½" to 6½" w.c. 143-82-021-00	12	1100	900	700	500		
	1	1950	1600	1050	750	350	
	2	3200	2400	1550	1000	550	350
	5	5200	3900	2700	1900	950	550
	10	7400	5800	4500	3000	1350	900
	15	9100	7100	5800	3800	1700	1150
	25	12500	8700	7200	5100	2400	1500
	40		10500	9200	7100	3200	2100
	60			11000	9300	4400	2900
	80			11500	10500	5600	3700
	100				11000	7000	4500
125					8000	5600	
Setpoint 7" w.c. 1" w.c. Droop Blue-Black Spring 5" to 8½" w.c. 143-82-021-01	12	1000	750	650	400		
	1	1600	1150	900	650	300	
	2	2700	1800	1350	950	450	350
	5	4800	3500	2350	1600	770	500
	10	7000	5400	3900	2500	1250	900
	15	9100	7000	5000	3500	1700	1150
	25	12500	8700	6600	5100	2400	1500
	40		10500	9000	7100	3200	2100
	60			11000	9300	4400	2900
	80			11500	10500	5600	3700
	100				11000	7000	4500
125					8000	5600	
Setpoint 11" w.c. 2" w.c. Droop Green-Black Spring 6" to 14" w.c. 143-82-021-02	1	1650	1150	1000	650	300	
	2	2700	2000	1400	1000	450	350
	5	4800	3800	2600	1750	900	600
	10	7000	5400	4200	2800	1300	900
	15	9000	7400	5500	3600	1700	1100
	25	11000	8800	7500	5100	2400	1500
	40		11000	9600	7100	3200	2100
	60			11000	9300	4400	2900
	80			11500	10500	5600	3700
	100				11000	7000	4500
	125					8000	5600

The last capacity figure in each group indicates the maximum allowable inlet pressure (except for emergency conditions). The stepped line indicates the recommended maximum capacity and inlet pressure for each orifice for operation within the optimum performance range.

NOTE: The performance data is based on normal testing at 70°F flowing temperature. Changes in performance can occur at extreme low flowing temperatures.

Model 243 Capacity Tables

1½" Models 243-8-1 and 243-8-2 in SCFH of Natural Gas (0.6 Specific Gravity – 14.65 psia – 60°F)

Outlet Pressure and Spring	Inlet Pressure psi	Orifice Size and Valve Angle					
		1"	¾"	½"	⅜"	¼"	0.207"
		30°	10°	10°	10°	10°	10°
Setpoint 18" w.c. 3" w.c. Droop Green Spring 12" to 28" w.c. 143-16-021-05	1	1500	1100	800	550		
	2	2100	1700	1300	900	450	350
	5	4500	3400	2000	1350	850	600
	10	6600	5700	3500	2400	1300	850
	15	8800	7100	5000	3400	1700	1050
	25	11500	9100	7100	5100	2400	1500
	40		11000	9300	7100	3200	2100
	60			11000	9400	4400	2900
	80			12000	10500	5600	3700
	100				11000	7000	4500
	125					8000	5600
Setpoint 1 psi 0.31 psi Droop Green Spring 12" to 28" w.c. 143-16-021-05	2	4000	3500	1800	1200	500	
	5	6000	5000	3500	2200	1000	
	10	7500	7000	5000	3000	1500	
	15	9000	8000	6500	4000	1850	
	25	12000	10000	8000	5000	2000	
	40		12500	9500	7000	3000	
	60			11500	9500	4500	
	80			12500	11500	6000	
	100				12500	7000	
	125					8000	
Setpoint 1 psi 0.2 psi Droop Orange Spring 1 to 2 psi 143-16-021-06	2	2100	1650	1200	850	450	
	5	4000	3200	2100	1300	850	550
	10	6500	5200	3100	2200	1300	800
	15	8400	6500	4400	3000	1700	1000
	25	11000	8600	6500	4400	2400	1500
	40		11000	8600	6700	3200	2100
	60			10500	9000	4400	2900
	80			11500	10500	5600	3700
	100				11000	7000	4500
125					8000	5600	

The last capacity figure in each group indicates the maximum allowable inlet pressure (except for emergency conditions). The stepped line indicates the recommended maximum capacity and inlet pressure for each orifice for operation within the *optimum performance* range.

NOTE: The performance data is based on normal testing at 70°F flowing temperature. Changes in performance can occur at extreme low flowing temperatures.

Model 243 Capacity Tables

1½" Models 243-8-1 and 243-8-2 in SCFH of Natural Gas (0.6 Specific Gravity – 14.65 psia – 60°F) (Continued)

Outlet Pressure and Spring	Inlet Pressure psi	Orifice Size and Valve Angle					
		1"	¾"	½"	⅜"	¼"	0.207"
		30°	10°	10°	10°	10°	10°
Setpoint 3 psi 0.35 psi Droop Black Spring 2 to 4¼ psi 143-16-021-07	5	3000	1800	1200	1100	900	
	10	4000	2500	1800	1500	1000	
	15	5200	4000	2850	2000	1400	
	25	7000	5200	3600	3100	1800	
	40		9000	5000	4200	2200	
	60			8300	6500	3000	
	80			10000	8500	5000	
	100				9000	6000	
	125					8000	
	Setpoint 3 psi 0.6 psi Droop Black Spring 2 to 4¼ psi 143-16-021-07	5	4400	3400	2400	1600	800
10		7100	5900	3600	2400	1300	750
15		9600	7500	4800	3400	1700	1000
25		12500	10500	6500	5000	2400	1500
40			13000	9600	7000	3200	2100
60				12500	9300	4400	2900
80				13500	11000	5600	3700
100					12000	7000	4500
125						8000	5600

The last capacity figure in each group indicates the maximum allowable inlet pressure (except for emergency conditions). The stepped line indicates the recommended maximum capacity and inlet pressure for each orifice for operation within the *optimum performance* range.

NOTE: The performance data is based on normal testing at 70°F flowing temperature. Changes in performance can occur at extreme low flowing temperatures.

Model 243 Capacity Tables

1¼" Models 243-8-1, 243-8-2, 243-12-1 and 243-12-2 in SCFH of Natural Gas

(0.6 Specific Gravity – 14.65 psia – 60°F)

Outlet Pressure and Spring 243-12	Outlet Pressure and Spring 243-8	Inlet Pressure psi	Orifice Size and Valve Angle				
			¾"	½"	⅜"	¼"	0.207"
			10°	10°	10°	10°	10°
Setpoint 6" w.c. 1" w.c. Droop Red Spring 3½" to 6" w.c. 143-16-021-03	Setpoint 6" w.c. 1" w.c. Droop Red-Black Spring 3½" to 6½" w.c. 143-82-021-00	1/2	900	700	500		
		1	1600	1050	750	350	
		2	2250	1500	1000	550	350
		5	2500	2200	1900	950	550
		10	3100	2900	2650	1350	900
		15	3550	3600	2700	1700	1050
		25	4200	3800	3300	2400	1500
		40	4200	4100	3800	3200	2100
		60		4800	4400	4400	2900
		80		5600	5600	5600	3700
		100			6000	6000	4500
125				6000	5600		
Setpoint 7" w.c. 1" w.c. Droop Blue Spring 5" to 8½" w.c. 143-16-021-04	Setpoint 7" w.c. 1" w.c. Droop Blue-Black Spring 5" to 8½" w.c. 143-82-021-01	1/2	750	650	400		
		1	1150	900	650	300	
		2	1700	1300	950	450	350
		5	2300	1900	1600	770	500
		10	2900	2600	2200	1250	900
		15	3500	3100	2500	1700	1050
		25	4200	3600	3300	2400	1500
		40	4800	4000	3800	3200	2100
		60		4600	4400	4400	2900
		80		5600	5600	5600	3700
		100			6000	6000	4500
125				6000	5600		
Setpoint 11" w.c. 2" w.c. Droop Green Spring 6" to 14" w.c. 143-16-021-05	Setpoint 11" w.c. 2" w.c. Droop Green-Black Spring 6" to 14" w.c. 143-82-021-02	1	1150	1000	650	300	
		2	1850	1350	1000	450	350
		5	2500	2200	1750	800	550
		10	2900	2700	2450	1300	900
		15	3700	3950	2600	1700	1100
		25	4250	4000	3300	2400	1500
		40	5300	4200	3800	3200	2100
		60		4850	4400	4400	2900
		80		5850	5600	5600	3700
		100			6000	7000	4500
		125				8000	5600

The last capacity figure in each group indicates the maximum allowable inlet pressure (except for emergency conditions). The stepped line indicates the recommended maximum capacity and inlet pressure for each orifice for operation within the optimum performance range.

NOTE: 1" x 30° and 1¼" x 30° orifice and valve angle are available on the 1¼" 243-12-1 and 243-12-2 models.

NOTE: The performance data is based on normal testing at 70°F flowing temperature.

Changes in performance can occur at extreme low flowing temperatures.

Model 243 Capacity Tables

1¼" Models 243-8-1, 243-8-2, 243-12-1 and 243-12-2 in SCFH of Natural Gas

(0.6 Specific Gravity – 14.65 psia – 60°F) (Continued)

Outlet Pressure and Spring 243-12	Outlet Pressure and Spring 243-8	Inlet Pressure psi	Orifice Size and Valve Angle				
			¾"	½"	⅜"	¼"	0.207"
			10°	10°	10°	10°	10°
Setpoint 18" w.c. 3" w.c. Droop Orange Spring 12" to 28" w.c. 143-16-021-06	Setpoint 18" w.c. 3" w.c. Droop Green Spring 12" to 28" w.c. 143-16-021-05	1	1100	800	500		
		2	1900	1250	900	450	350
		5	2250	1700	1350	750	550
		10	2950	2250	2100	1300	850
		15	3450	3600	2450	1700	1050
		25	4400	3750	3300	2400	1500
		40	5300	4100	3800	3200	2100
		60		4800	4400	4400	2900
		80		4850	5600	5600	3700
		100			6000	7000	4500
		125				8000	5600
Setpoint 1 psi 0.31 psi Droop Orange Spring 12" to 28" w.c. 143-16-021-06	Setpoint 1 psi 0.31 psi Droop Green Spring 12" to 28" w.c. 143-16-021-05	2	3000	1800	1200	500	
		5	4000	3000	2000	1000	
		10	5000	4000	3000	1500	
		15	6000	5100	3900	1900	
		25	7500	6400	4500	2200	
		40	8000	7400	6100	2600	
		60		8000	7350	4000	
		80		8500	8000	5100	
		100			8500	6500	
		125				7000	
Setpoint 1 psi 0.2 psi Droop Black Spring 1 to 2 psi 143-16-021-07	Setpoint 1 psi 0.2 psi Droop Orange Spring 1 to 2 psi 143-16-021-06	2	1850	1150	850	450	
		5	2100	1700	1350	750	500
		10	2700	2000	1950	1300	800
		15	3150	3100	2050	1700	1000
		25	4150	3250	2850	2400	1500
		40	5300	3800	3600	3200	2100
		60		4600	4250	4400	2900
		80		4650	5600	5600	3700
		100			6000	7000	4500
		125				8000	5600

The last capacity figure in each group indicates the maximum allowable inlet pressure (except for emergency conditions). The stepped line indicates the recommended maximum capacity and inlet pressure for each orifice for operation within the *optimum performance range*.

NOTE: 1" x 30° and 1¼" x 30° orifice and valve angle are available on the 1¼" 243-12-1 and 243-12-2 models.

NOTE: The performance data is based on normal testing at 70°F flowing temperature. Changes in performance can occur at extreme low flowing temperatures.

Model 243 Capacity Tables

1 1/4" Models 243-8-1, 243-8-2, 243-12-1 and 243-12-2 in SCFH of Natural Gas

(0.6 Specific Gravity – 14.65 psia – 60°F) (Continued)

Outlet Pressure and Spring 243-12	Outlet Pressure and Spring 243-8	Inlet Pressure psi	Orifice Size and Valve Angle				
			3/4"	1/2"	3/8"	1/4"	0.207"
			10°	10°	10°	10°	10°
Setpoint 3 psi 0.35 psi Droop Cadmium Spring 1 1/2 to 3 psi 143-16-021-08	Setpoint 3 psi 0.35 psi Droop Black Spring 2 to 4 1/4 psi 143-16-021-07	5	1200	1000	800	500	
		10	2000	1800	1400	1000	
		15	3300	2800	1800	1400	
		25	4700	3300	2300	1650	
		40	6300	4900	2800	2000	
		60		5800	5000	2800	
		80		6500	6400	4600	
		100			6500	4750	
		125				5000	
Setpoint 3 psi 0.6 psi Droop Cadmium Spring 1 1/2 to 3 psi 143-16-021-08	Setpoint 3 psi 0.6 psi Droop Black Spring 2 to 4 1/4 psi 143-16-021-07	5	2200	1950	1650	700	
		10	3600	2300	2150	1300	750
		15	3800	3400	2350	1700	1000
		25	5000	3900	3250	2400	1500
		40	6300	4300	3700	3200	2100
		60		5500	4400	4400	2900
		80		5500	5850	5600	3700
		100			6550	7000	4500
		125				8000	5600

The last capacity figure in each group indicates the maximum allowable inlet pressure (except for emergency conditions). The stepped line indicates the recommended maximum capacity and inlet pressure for each orifice for operation within the optimum performance range.

NOTE: 1" x 30° and 1 1/4" x 30° orifice and valve angle are available on the 1 1/4" 243-12-1 and 243-12-2 models.

NOTE: The performance data is based on normal testing at 70°F flowing temperature. Changes in performance can occur at extreme low flowing temperatures.

Model 243 Capacity Tables

2" Models 243-8-1 and 243-8-2 in SCFH of Natural Gas (0.6 Specific Gravity – 14.65 psia – 60°F)

Outlet Pressure and Spring	Inlet Pressure psi	Orifice Size and Valve Angle					
		1"	3/4"	3/4"	1/2"	3/8"	1/4"
		30°	30°	10°	10°	10°	10°
Setpoint 18" w.c. 3" w.c. Droop Green Spring 12" to 28" w.c. 143-16-021-05	1	1500	1200	1100	800	600	
	2	2400	1800	1700	1250	950	500
	5	5500	3700	3500	2300	1400	900
	10	9400	8400	6000	3700	2400	1400
	15	12000	12000	8100	5600	3800	1700
	25	14500	17500	10000	8200	5600	2400
	40		20000	12000	11500	7400	3400
	60				13500	10000	4600
	80				14000	11000	5600
	100					12000	7000
125						8000	
Setpoint 1 psi 0.31 psi Droop Green Spring 12" to 28" w.c. 143-16-021-05	2	5000	4000	4000	3000	1000	500
	5	8000	7000	7000	4000	1900	1000
	10	14000	12800	10000	5500	3000	1500
	15	16500	14000	13900	7750	4500	1800
	25	17700	16900	15000	9000	5500	2500
	40		18000	16500	11500	7400	3200
	60				15000	10000	4600
	80				17000	13800	6100
	100					14000	7000
	125						9000
Setpoint 1 psi 0.2 psi Droop Orange Spring 1 to 2 psi 143-16-021-06	2	2400	1800	1700	1200	850	450
	5	4000	3400	3300	2200	1300	900
	10	7000	6000	5400	3500	2200	1400
	15	11000	9000	7000	4600	3100	1700
	25	14500	15000	10000	7400	4800	2400
	40		17500	12000	10500	7000	3400
	60				12500	9500	4600
	80				13500	10500	5600
	100					11000	7000
	125						8000

The last capacity figure in each group indicates the maximum allowable inlet pressure (except for emergency conditions). The stepped line indicates the recommended maximum capacity and inlet pressure for each orifice for operation within the optimum performance range.

NOTE: The performance data is based on normal testing at 70°F flowing temperature. Changes in performance can occur at extreme low flowing temperatures.

Model 243 Capacity Tables

2" Models 243-8-1 and 243-8-2 in SCFH of Natural Gas (0.6 Specific Gravity – 14.65 psia – 60°F) (Continued)

Outlet Pressure and Spring	Inlet Pressure psi	Orifice Size and Valve Angle					
		1"	3/4"	3/4"	1/2"	3/8"	1/4"
		30°	30°	10°	10°	10°	10°
Setpoint 3 psi 0.35 psi Droop Black Spring 2 to 4 1/4 psi 143-16-021-07	5	2000	1600	1600	1400	1000	500
	10	4000	3000	3000	2000	1400	1000
	15	5800	4200	4000	2600	1800	1500
	25	7500	5200	5000	3900	2750	2300
	40		9100	9000	6500	5800	3100
	60				10000	7500	4600
	80				14000	10000	6000
	100					12000	7000
	125						9000
	Setpoint 3 psi 0.6 psi Droop Black Spring 2 to 4 1/4 psi 143-16-021-07	5	4400	3400	3300	2400	1600
10		7600	6000	5800	3600	2400	1300
15		11000	9000	7500	4800	3500	1700
25		15000	15000	10500	8000	5100	2400
40			17500	13000	11000	7000	3400
60					14000	9600	4600
80					15000	11000	5600
100						12000	7000
125							8000

The last capacity figure in each group indicates the maximum allowable inlet pressure (except for emergency conditions). The stepped line indicates the recommended maximum capacity and inlet pressure for each orifice for operation within the *optimum performance* range.

NOTE: The performance data is based on normal testing at 70°F flowing temperature. Changes in performance can occur at extreme low flowing temperatures.

Model 243 Capacity Tables

Model 243-8HP in SCFH of Natural Gas (0.6 Specific Gravity – 14.65 psia – 60°F)

Outlet Pressure	Inlet Pressure psi	1¼" Model 243-8HP				1½" Model 243-8HP					2" Model 243-8HP				
		Orifice Size and Valve Angle				Orifice Size and Valve Angle					Orifice Size and Valve Angle				
		¾" 10°	½" 10°	⅜" 10°	¼" 10°	1" 30°	¾" 10°	½" 10°	⅜" 10°	¼" 10°	1" 30°	¾" 10°	½" 10°	⅜" 10°	¼" 10°
Setpoint 5 psi 1 psi Droop Cadmium Spring 3 to 6½ psi 143-16-021-08	10	3300	2050	2000	1300	6000	5500	3200	2300	1300	6000	5500	3200	2400	1300
	15	3400	3100	2200	1700	8600	6500	4400	3200	1700	8600	6000	4400	3200	1700
	25	4400	3650	3050	2400	12000	9300	6100	4800	2400	13000	8200	6100	4800	2400
	40	5800	3800	3200	3200	12000	8500	6100	3200		12000	8700	6100	3400	
	60		4400	4100	4400		10000	8700	4400			10000	8700	4600	
	80		4500	5300	5600		11000	10000	5600			11500	10000	5600	
	100			6000	7000			11000	7000				11000	7000	
	125				8000				8000						8000
Setpoint 7 psi 1 psi Droop Cadmium- White Springs 6 to 10 psi 143-16-021-03	10	2300	2000	1800	1000	2500	2300	2000	1600	1000	2700	2500	2100	1600	1000
	15	3000	2800	2200	1400	5000	4000	2500	2200	1500	5900	4300	2800	2400	1500
	25	5400	4100	3300	2000	8500	6500	4300	3500	2000	8600	6600	4600	3600	2000
	40	7600	5600	4800	2800	9500	9500	6500	5000	3000	10000	7200	5600	3000	
	60		7500	6200	3800		9000	6500	4000			9700	7000	4500	
	80		8800	7200	5200		11000	8500	5000			12000	9000	5500	
	100			8600	5800			10500	5500				11500	7000	
	125				7000				5500						5500
Setpoint 7 psi 2 psi Droop Cadmium- White Springs 6 to 10 psi 143-16-021-03	10	5400	3500	2500	1400	8000	5500	3500	2500	1300	8600	6000	4300	2700	1400
	15	7400	5000	3500	1800	10500	8000	5000	3500	1700	12700	8900	5700	3800	1800
	25	10000	7600	5500	2500	15000	12000	8000	5000	2300	18600	13500	8600	5700	2400
	40	12500	10000	7500	3500	16000	11500	7500	3300		19000	12500	8000	3500	
	60		12500	9500	4800		15000	9500	4500			17000	10000	4800	
	80		14000	11500	6100		17500	12500	5500			20000	13500	6200	
	100			13500	7200			15500	7000				16500	7300	
	125				8800				7000						8100
Setpoint 10 psi 1 psi Droop Cadmium- White Springs 6 to 10 psi 143-16-021-03	15	2500	2200	1800	1200	3500	3000	2000	1300	1000	3600	3000	2000	1800	1000
	25	4800	3500	2800	1900	6500	5000	3500	2500	1900	6800	5700	4000	3000	1900
	40	7200	5000	4000	2500	8000	8000	5500	4300	2500	8600	5700	4600	2800	
	60		6700	5700	3500		10500	7500	6000	3500		8600	6400	4300	
	80		7800	6600	4600		9000	7500	4500			10500	8400	5200	
	100			7800	5400			9500	6000				10700	6500	
	125				6500				7000						8000
Setpoint 10 psi 2 psi Droop Cadmium- White Springs 6 to 10 psi 143-16-021-03	15	6000	4000	2800	1700	8500	6500	4000	2500	1500	9000	6600	4800	3000	1500
	25	9000	6500	5000	2500	12000	10500	7000	4500	2300	15500	11000	7400	5000	2400
	40	12000	9000	7000	3500	15000	10000	7500	3000		16500	11000	7700	3200	
	60		12000	9400	4700		14000	10000	4500			15000	10700	4800	
	80		13000	11000	6000		17000	12000	5500			18500	13000	6000	
	100			13000	7000			15000	7000				16000	7300	
	125				8800				9000						9000

The last capacity figure in each group indicates the maximum allowable inlet pressure (except for emergency conditions). The stepped line indicates the recommended maximum capacity and inlet pressure for each orifice for operation within the optimum performance range.

NOTE: The performance data is based on normal testing at 70°F flowing temperature. Changes in performance can occur at extreme low flowing temperatures.