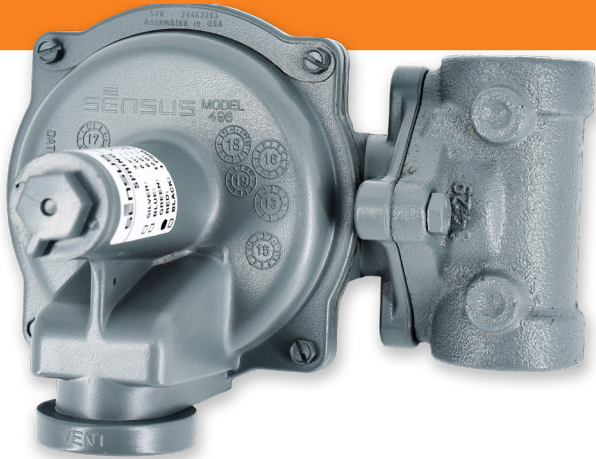


Model 496

Domestic Service Regulator



Technical Data

Valve Body	Cast Iron - 125 psig working pressure
Spring and Lower Case	Die-Cast Aluminum
Orifice	Aluminum
Fulcrum Pin	Stainless Steel
Valve Seat	One piece molded Buna-N seat
Valve Stem	Zamak
Throat/Support/Stem Guide	Cast aluminum integral to lower case
Diaphragm Plate	Plated Steel
Diaphragm	4" Molded, roll-out polyester fabric reinforced Buna-N
Vent and Valve	Polypropylene valve and seat, 1" NPT vent
Adjustment Screw	ABS cyclac
Closing Cap	ABS cyclac with internal relief valve stop and a hole for available tamper seal wire
Operating Temperature	-20° to +150° F (-28.9° to +65.5° C)
Corrosion Protection	Chromate converted castings, e-coated or primed with enamel topcoat
Internal Relief Valve	Set to relieve at approximately 7-10" w.c. above normal outlet pressure setting

Orifice and Maximum Inlet Pressure

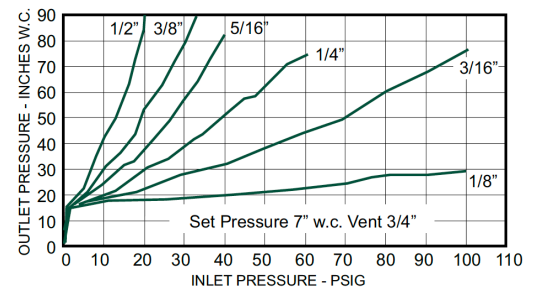
Pressure	Size	Part Number
125 psig	1/8"	019-01029-001
125 psig	3/16"	019-01029-002
60 psig	1/4"	019-01029-003
40 psig	5/16"	019-01029-035
30 psig	3/8"	019-01029-004
20 psig	1/2"	019-01029-005

Regulator Spring Chart

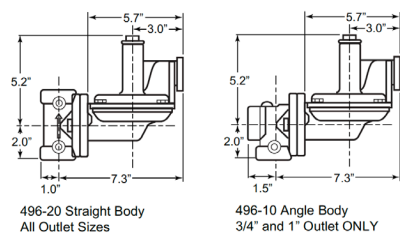
Normal Range	Color	Part Number
3.5" - 10.5" w.c.	Silver	071-03409-004
6.0" - 8.0" w.c.	Blue	071-03409-001
6.0" - 14.0" w.c.	Green	071-03409-002
12.0" - 28.0" w.c.	Red	071-03409-003
1.0 - 2.0 psi	Black	071-03406-002

Relief Valve Performance

Lever blocked with valve disc in the wide open position



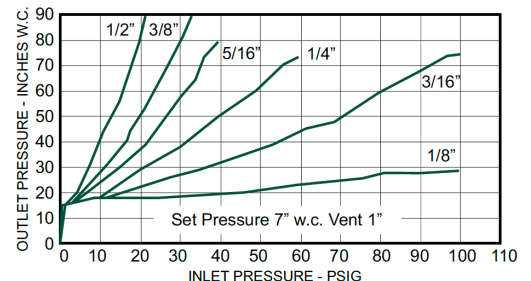
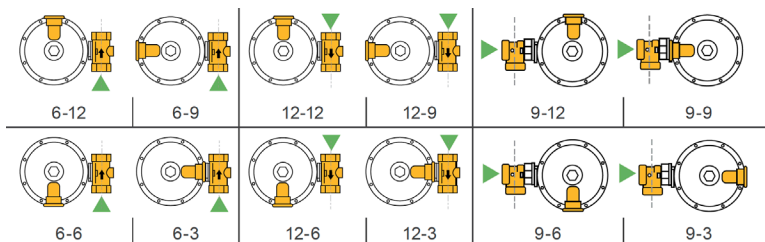
Dimensions



Valve Body Sizes

Straight	Angle
3/8" x 3/8"	-
1/2" x 1/2"	-
3/4" x 3/4"	3/4" x 3/4"
3/4" x 1"	3/4" x 1"
1" x 1"	1" x 1"

Mounting Positions



For outdoor installations, it is recommended that the regulator be installed so that the regulator vent faces downward to avoid the potential for water and other foreign matter entering the regulator and interfering with the proper operation of the regulator.

Model 496

Domestic Service Regulator



Outlet Pressure Set Point

7.0" w.c. @ 50 scfh, variances not to exceed +2.0" w.c. and -1.0" w.c. from set point.

Body Size Outlet: 3/8"

Inlet Psig	Orifice					
	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"
1	-	100	160	190	-	-
2	-	150	200	220	-	-
5	180	200	250	260	-	-
10	190	220	270	280	-	-
15	200	240	280	290	-	-
20	220	260	290	300	-	-
25	230	260	290	300	-	-
30	240	270	300	300	-	-
40	250	280	300	300	-	-
50	260	300	300	-	-	-
60	270	300	300	-	-	-
80	300	300	-	-	-	-
100	300	300	-	-	-	-

Body Size Outlet: 1/2"

Inlet Psig	Orifice					
	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"
1	-	110	200	220	-	-
2	-	210	240	300	-	-
5	220	290	330	390	-	-
10	290	350	420	480	-	-
15	350	410	470	550	-	-
20	410	490	500	560	-	-
25	430	500	550	580	-	-
30	470	520	580	590	-	-
40	500	570	600	600	-	-
50	550	600	600	-	-	-
60	570	600	600	-	-	-
80	600	600	-	-	-	-
100	600	600	-	-	-	-

Body Size Outlet: 3/4"

Inlet Psig	Orifice					
	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"
1	-	200	275	300	400	500
2	-	250	400	475	575	775
5	275	400	675	725	875	1050
10	400	650	900	950	1000	1175
15	500	775	1100	1100	1150	1300
20	600	1000	1175	1250	1300	1350
25	675	1100	1225	1350	1375	-
30	775	1250	1300	1475	1500	-
40	900	1300	1350	1525	-	-
50	1050	1375	1425	-	-	-
60	1250	1425	1500	-	-	-
80	1500	1500	-	-	-	-
100	1550	1550	-	-	-	-

Body Size Outlet: 1"

Inlet Psig	Orifice					
	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"
1	-	200	250	300	400	425
2	-	300	350	475	525	550
5	250	450	600	725	950	1150
10	375	750	900	1200	1250	1700
15	500	950	1150	1550	1550	1800
20	600	1200	1350	1600	1600	1950
25	675	1350	1600	1650	1650	-
30	775	1550	1800	1825	1850	-
40	950	1875	1900	1950	-	-
50	1100	2000	2025	-	-	-
60	1250	2075	2100	-	-	-
80	1500	2200	-	-	-	-
100	1800	2250	-	-	-	-

Outlet Pressure Set Point

2.0psig @ 50 scfh, variances not to exceed ± 10% from pressure set point.

Body Size Outlet: 3/8"

Inlet Psig	Orifice					
	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"
5	150	280	330	380	-	-
10	240	400	430	440	-	-
15	310	440	460	500	-	-
20	350	450	480	510	-	-
25	380	460	500	530	-	-
30	430	490	520	560	-	-
40	450	510	560	580	-	-
50	460	550	570	-	-	-
60	470	560	590	-	-	-
80	540	570	-	-	-	-
100	570	580	-	-	-	-

Body Size Outlet: 1/2"

Inlet Psig	Orifice					
	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"
5	160	290	340	420	-	-
10	250	420	480	500	-	-
15	320	490	520	620	-	-
20	360	510	590	650	-	-
25	390	550	660	700	-	-
30	440	590	720	760	-	-
40	520	700	800	810	-	-
50	530	750	840	-	-	-
60	580	870	920	-	-	-
80	670	910	-	-	-	-
100	750	1000	-	-	-	-

Body Size Outlet: 3/4"

Inlet Psig	Orifice					
	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"
5	200	300	350	500	550	650
10	325	500	600	700	800	1050
15	425	650	725	900	1050	1150
20	525	725	850	1050	1200	1400
25	575	850	1000	1175	-	-
30	600	900	1100	1300	-	-
40	700	950	1250	1500	-	-
50	800	1100	1400	-	-	-
60	900	1250	1500	-	-	-
80	1100	1425	-	-	-	-
100	1200	1500	-	-	-	-

Body Size Outlet: 1"

Inlet Psig	Orifice					
	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"
5	250	275	350	400	450	750
10	300	425	500	650	900	1050
15	400	500	700	1000	1050	1200
20	475	650	800	1200	1300	1500
25	550	700	1000	1300	1400	-
30	650	850	1100	1400	1500	-
40	800	1050	1300	1500	-	-
50	900	1225	1500	-	-	-
60	1000	1350	1700	-	-	-
80	1300	1800	-	-	-	-
100	1700	2000	-	-	-	-

Flow capacities in SCFH of 0.60 specific gravity gas @ 60° F and 14.7 psia. For maximum performance, maximum inlet pressure should not exceed maximum capacity rating for any given orifice size. For other non corrosive gases such as Air, Propane, Propane/Air Mix, Nitrogen and Dry Carbon Dioxide, use the following capacity calculation:

$$\sqrt{\frac{0.60}{\text{Specific Gravity of the Gas}}}$$