HONEYWELL AMERICAN METER COMPANY 3000 SERIES

Industrial Regulator

Brief information

Application: The 3000 Series pressure regulators are designed to control natural gas, air, nitrogen, carbon dioxide, propane vapor, and other non-corrosive gases in light commercial and industrial applications.

Control: A comprehensive range of springs is available, as described overleaf. The outlet pressure can be easily and accurately adjusted by turning the spring adjustment unit located under the top cap. Full lockup capability provides assurance that downstream pressure will not build up during no-flow situations.

Model Number	Description
3000	Basic regulator, non-relieving, internally sensed
3010	Basic regulator, non-relieving, remotely sensed

Technical Data:

Inlet Pressures up to 30 PSIG

Outlet Pressures: 3.5" W.C. to 10 PSIG.

Maximum capacity: up to 65,000 SCFH (1840 m3/h)

Regulator Pressure Rating

30 PSIG (2.07 bar) = Maximum recommended inlet pressure for normal service.

60 PSIG (4.14 bar) = Maximum inlet pressure for abnormal or emergency service, without causing damage to regulator case.

2 PSIG (138 mbar) = Maximum outlet pressure for normal service.
- 1 ¼", 1 ½", 2" LOW PRESSURE, 3", 4" MODELS

10 PSIG (689 mbar) = Maximum outlet pressure for normal service.
- 2" HIGH PRESSURE MODEL ONLY

3000 HP Regulator

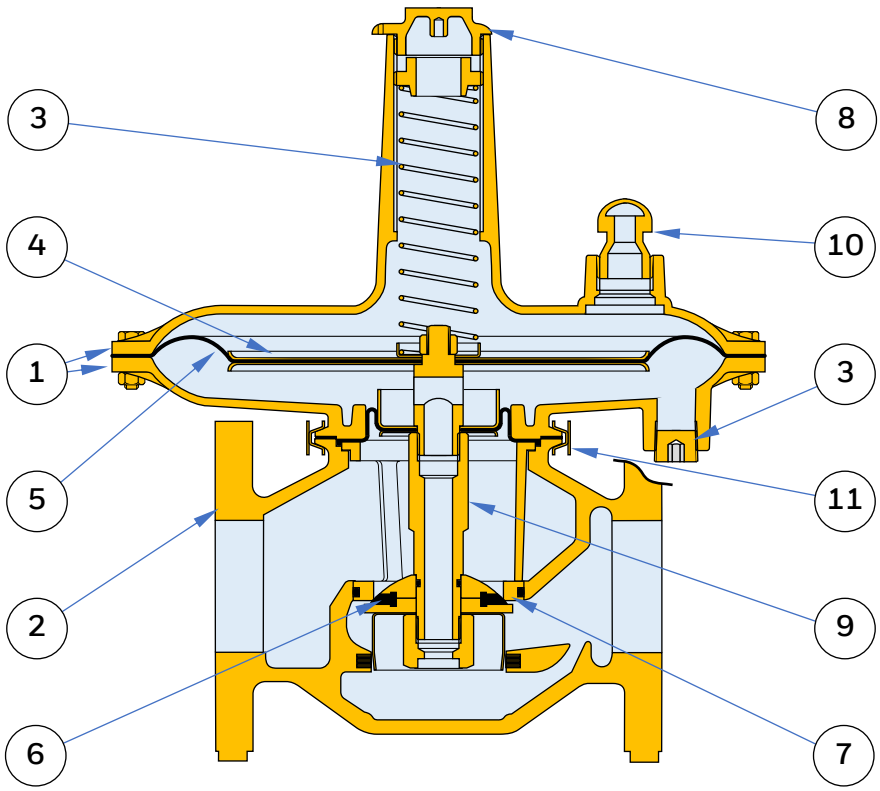
3000 LP Regulator

FEATURES & BENEFITS

Main Features

- Temperature range: -20 °F to 150 °F (-30 °C to 65 °C).
- Balanced valve design offers excellent response and high accuracy
- Large primary diaphragm provides superior lockup
- Body clamp allows valve body to remain in line for maintenance.
- Internal or external sensing options.
- Field convertible.
- Wide range of valve body connection sizes: 1 ¼", 1 ½", 2" NPT, 2", 3" and 4" ASME Class 125 Flanged
- For HP MODEL ONLY, a 3/4" 90° vent elbow/ screen assembly (part #78041G002) may be screwed into the vent for added protection from environmental conditions when the regulator is installed in the horizontal position. This item is available separately from the Honeywell Gas Depot.

Series 3000 Regulator Components



Item No.	Description	Material	Notes
1	Diaphragm Cases	Precision Cast Aluminum	With an exclusive 11 step advanced conversion coating, single- coat polyester primer and high solids polyurethane topcoat.
2	Valve Body	Gray Cast Iron	Undercoated, single coat polyester primer and high solid polyurethane topcoat.
3	Loading Spring	Spring Steel	Zinc plated and chromate. Color coded for identification.
4	Diaphragm Plate	Steel	Zinc plated and yellow chromate
5	Diaphragm	Buna N	Fabric reinforced
6	Seat Disc	Buna N	Replaceable
7	Orifice	Aluminum	High strength, corrosion resistant.
8	Seal Plug	Aluminum	High strength, corrosion resistant.
9	Main Stem	Steel	Zinc plated and yellow chromate. Hollow stem communicates downstream pressure for internal sensing.
10	Vent	UV resistant ABS	Weather- and bug-proof cap. Connection threaded 3/4" or 1" NPT dependent on body size.
11	Body Clamp	Steel	Zinc plated
12	External Sense port	Reinforced Nylon	Threaded ½" NPT for remote sensing. Supplied with steel, zinc plated plug for standard internal sensed product. Conversion to external sense requires modification of lower main stem.

** A vent line terminating at an external location must be installed for any regulators installed indoors or in enclosures to safely evacuate vented gas. Comply with applicable Federal, State and local codes.

Loading Springs

Outlet Pressure	Color Code	Part Number
1¼" & 1½" connections		
1" - 3" W.C.	Yellow/Purple	70157P033
3" - 7" W.C.	Yellow/Brown	70157P034
7" - 14" W.C.	Yellow/Red	70157P035
14" - 28" W.C.	Lt Blue/Purple	70157P036
1-2 PSIG	Blue/Brown	70157P037
2" Connections		
1" - 3" W.C.	Purple/Black	70157P025
3" - 7" W.C.	Orange/White	70157P027
7" - 14" W.C.	Red/Blue	70157P006
14" - 28" W.C.	Green/Silver	70157P017
1-2 PSIG	Black/White	70157P024
2-2.5 PSIG	Purple/White*	71411P021
2-5 PSIG	Orange/Black*	71411P022
6-7 PSIG	Yellow*	71411P044
8-10 PSIG	Black*	71411P023
3" Connections		
1" - 3" W.C.	No Code	70157P028
3" - 7" W.C.	Red/White	70157P029
7" - 14" W.C.	Yellow/Blue	70157P030
14" - 28" W.C.	Red/Purple	70157P031
1-2 PSIG	Green/Purple	70157P032
4" Connections		
4" - 8" W.C.	Blue/Black	71411P036
7" - 14" W.C.	Green/White	71411P034
14" - 28" W.C.	Red/Green	71411P037
1-2 PSIG	Silver/Black	71411P038

* Designates 2" HP model
Not interchangeable with low pressure model

3000 Series Regulator Capacity Data

1¼" 3000 SERIES REGULATOR SCFH (SCMH) 0.60 specific gravity gas at 60 °F and 14.7PSIA

Spring No.	70157P033	70157P034		70157P035		70157P036				70157P037	
Inlet Pressure	2" W.C. .5# Droop	4" W.C. 1# Droop	6" W.C. 1# Droop	9" W.C. 1# Droop	12" W.C. 2# Droop	16" W.C. 2# Droop	20" W.C. 2# Droop	24" W.C. 2.5# Droop	28" W.C. 3# Droop	42" W.C. 4# Droop	56" W.C. 5# Droop
8" WC (20mbar)	2,700 (76.5)	2,300 (65.1)	1,700 (48.1)								
14" WC (35mbar)	3,800 (107.6)	3,500 (99.1)	2,900 (82.1)	1,900 (53.8)	2,000 (56.6)						
21" WC (52mbar)	4,800 (136)	4,600 (130)	3,900 (110)	2,700 (76.5)	3,400 (96.3)	2,200 (62.3)					
1 PSIG (69mbar)	5,600 (159)	5,400 (153)	4,800 (136)	3,800 (108)	4,200 (119)	3,200 (90.6)	2,400 (68.0)	2,100 (59.5)			
1.5 PSIG (103mbar)	6,800 (193)	6,800 (193)	6,100 (173)	5,300 (150)	5,700 (161)	4,400 (125)	3,300 (93.4)	3,600 (102)	3,600 (102)		
2 PSIG (138mbar)	8,000 (226)	7,900 (224)	7,200 (204)	6,500 (184)	6,600 (187)	5,700 (161)	4,600 (130)	4,700 (133)	4,700 (133)	2,900 (82.1)	
3 PSIG (207mbar)	8,000 (226)	9,000 (255)	9,000 (255)	8,500 (241)	8,400 (238)	7,000 (198)	6,500 (184)	6,000 (170)	6,000 (170)	4,400 (125)	4,300 (122)
5 PSIG (345mbar)	10,000 (283)	11,000 (311)	9,200 (261)	9,100 (258)	9,000 (255)	9,100 (258)	8,400 (238)	8,400 (238)	8,400 (238)	7,000 (198)	6,500 (184)
10 PSIG (690mbar)			9,500 (269)	9,300 (263)	9,500 (269)	9,200 (261)	9,200 (261)	9,300 (263)	9,400 (266)	8,800 (249)	9,000 (255)
15 PSIG (1.03 Bar)			9,600 (272)	9,500 (269)	10,000 (283)	10,000 (283)	10,000 (283)	10,000 (283)	10,100 (286)	10,100 (286)	10,400 (294)
20 PSIG (1.38 Bar)			11,500 (326)	11,000 (311)	12,000 (340)	12,000 (340)	12,000 (340)	12,500 (354)	12,500 (354)	13,000 (368)	14,000 (396)
25 PSIG (1.72 Bar)			11,500 (326)	11,000 (311)	12,000 (340)	12,000 (340)	12,000 (340)	12,500 (354)	12,500 (354)	13,000 (368)	14,000 (396)
30 PSIG (2.07 Bar)			11,500 (326)	11,000 (311)	12,000 (340)	12,000 (340)	12,000 (340)	12,500 (354)	12,500 (354)	13,000 (368)	14,000 (396)

For optimum performance, use with inlet pressures above line

1½" 3000 SERIES REGULATOR SCFH (SCMH) 0.60 specific gravity gas at 60 °F and 14.7PSIA

Spring No.	70157P033	70157P034		70157P035		70157P036				70157P037	
Inlet Pressure	2" W.C. .5# Droop	4" W.C. 1# Droop	6" W.C. 1# Droop	9" W.C. 1# Droop	12" W.C. 2# Droop	16" W.C. 2# Droop	20" W.C. 2# Droop	24" W.C. 2.5# Droop	28" W.C. 3# Droop	42" W.C. 4# Droop	56" W.C. 5# Droop
8" WC (20mbar)	2,900 (82.1)	2,600 (73.6)	1,700 (48.1)								
14" WC (35mbar)	3,900 (110)	3,700 (105)	3,200 (90.6)	1,900 (53.8)	2,000 (56.6)						
21" WC (52mbar)	4,800 (136)	4,700 (133)	4,000 (113)	2,700 (76.5)	3,400 (96.3)	2,300 (65.1)					
1 PSIG (69mbar)	5,300 (150)	5,500 (156)	4,800 (136)	3,200 (90.6)	4,300 (122)	3,100 (87.8)	2,400 (68.0)	2,200 (62.3)			
1.5 PSIG (103mbar)	5,500 (156)	6,500 (184)	6,200 (176)	3,700 (105)	5,500 (156)	3,700 (105)	3,500 (99.1)	3,500 (105)	3,500 (105)		
2 PSIG (138mbar)	7,200 (204)	7,300 (207)	7,100 (201)	5,300 (150)	6,000 (170)	4,700 (133)	4,200 (119)	4,200 (119)	4,200 (119)	3,000 (84.9)	
3 PSIG (207mbar)	8,600 (244)	9,000 (255)	8,000 (227)	8,000 (227)	8,000 (227)	7,300 (207)	6,400 (181)	6,400 (181)	6,400 (181)	4,000 (113)	4,500 (127)
5 PSIG (345mbar)	10,000 (283)	11,000 (311)	8,300 (235)	8,100 (229)	8,100 (229)	8,000 (227)	8,000 (227)	8,000 (227)	8,000 (227)	6,500 (184)	7,000 (198)
10 PSIG (690mbar)			8,400 (238)	8,200 (232)	8,200 (232)	8,300 (235)	8,300 (235)	8,000 (227)	8,000 (227)	7,500 (212)	8,000 (227)
15 PSIG (1.03 Bar)			8,500 (241)	8,300 (235)	9,000 (255)	8,900 (252)	8,900 (252)	8,900 (252)	9,000 (255)	9,000 (255)	9,400 (266)
20 PSIG (1.38 Bar)			10,000 (283)	9,500 (269)	10,000 (283)	11,000 (311)	10,500 (297)	11,000 (311)	11,000 (311)	11,000 (311)	11,000 (311)
25 PSIG (1.72 Bar)			9,000 (255)	8,500 (241)	10,000 (283)	10,000 (283)	9,500 (269)	10,000 (283)	11,000 (311)	11,000 (311)	12,000 (340)
30 PSIG (2.07 Bar)			4,500 (127)	4,500 (127)	4,500 (127)	4,500 (127)	4,500 (127)	4,500 (127)	10,000 (283)	10,500 (297)	11,000 (311)

For optimum performance, use with inlet pressures above line

3000 Series Regulator Capacity Data

2" 3000 SERIES REGULATOR – LOW PRESSURE SCFH (SCMH) 0.60 specific gravity gas at 60 °F and 14.7PSIA

Spring No.	70157P025	70157P027		70157P006		70157P017				70157P024	
Inlet Pressure	2" W.C. .5# Droop	4" W.C. 1# Droop	6" W.C. 1# Droop	9" W.C. 1# Droop	12" W.C. 2# Droop	16" W.C. 2# Droop	20" W.C. 2# Droop	24" W.C. 2.5# Droop	28" W.C. 3# Droop	42" W.C. 4# Droop	56" W.C. 5# Droop
8" WC (20mbar)	5,000 (198)	4,000 (113)	2,300 (65.1)								
14" WC (35mbar)	7,000 (198)	6,000 (170)	5,000 (142)	2,800 (79.3)							
21" WC (52mbar)	8,000 (227)	8,000 (227)	7,600 (215)	4,000 (113)	5,800 (164)						
1 PSIG (69mbar)	10,000 (283)	8,500 (241)	9,200 (261)	5,000 (142)	6,600 (187)	4,000 (113)					
1.5 PSIG (103mbar)	12,500 (354)	11,500 (326)	12,500 (354)	7,400 (210)	10,000 (283)	6,500 (184)	5,000 (142)	5,000 (142)			
2 PSIG (138mbar)	15,000 (425)	13,500 (382)	14,800 (419)	10,500 (297)	13,000 (368)	8,500 (241)	6,500 (184)	7,000 (198)	7,000 (198)	5,000 (142)	
3 PSIG (207mbar)	18,000 (510)	16,500 (467)	18,500 (524)	16,000 (453)	17,500 (496)	11,500 (326)	9,500 (269)	9,500 (269)	10,000 (283)	8,200 (232)	6,100 (173)
5 PSIG (345mbar)	18,500 (524)	19,000 (538)	24,200 (685)	24,000 (680)	24,000 (680)	14,500 (411)	13,000 (368)	13,500 (382)	14,500 (411)	13,000 (368)	12,000 (340)
10 PSIG (690mbar)	19,000 (538)	21,000 (595)	21,800 (617)	20,000 (566)	22,000 (623)	21,000 (595)	20,500 (580)	21,000 (595)	20,500 (580)	20,800 (589)	20,500 (580)
15 PSIG (1.03 Bar)	19,500 (552)	24,000 (680)	26,000 (736)	27,000 (736)	30,000 (849)	29,000 (821)	25,500 (722)	25,000 (708)	27,500 (779)	21,500 (609)	22,000 (623)
20 PSIG (1.38 Bar)			17,500 (496)	25,000 (708)	26,000 (736)	26,000 (736)	24,000 (680)	25,000 (708)	26,000 (736)	22,000 (623)	24,000 (680)
25 PSIG (1.72 Bar)			15,500 (439)	22,000 (623)	25,000 (708)	24,000 (680)	24,000 (680)	24,000 (680)	25,000 (708)	23,000 (651)	25,000 (708)
30 PSIG (2.07 Bar)			14,000 (396)	20,000 (566)	24,000 (680)	22,000 (623)	22,000 (623)	22,000 (623)	23,000 (651)	23,000 (651)	24,500 (694)

For optimum performance, use with inlet pressures above line

2" 3000 SERIES REGULATOR – HIGH PRESSURE SCFH (SCMH) 0.60 specific gravity gas at 60 °F and 14.7PSIA

Spring No.	71411P021	71411P022		71411P044		71411P023				71411P021	
Inlet Pressure	2" W.C. .5# Droop	4" W.C. 1# Droop	6" W.C. 1# Droop	9" W.C. 1# Droop	12" W.C. 2# Droop	16" W.C. 2# Droop	20" W.C. 2# Droop	24" W.C. 2.5# Droop	28" W.C. 3# Droop	42" W.C. 4# Droop	56" W.C. 5# Droop
3 PSIG (207mbar)	3,900 (110)	2,400 (68.0)	1,600 (45.3)								
4 PSIG (276mbar)	4,900 (139)	4,600 (130)	3,500 (99.1)	2,600 (73.6)							
5 PSIG (345mbar)	9,600 (272)	8,500 (241)	4,800 (136)	5,200 (147)	4,500 (127)						
6 PSIG (414mbar)	10,300 (292)	9,700 (275)	5,400 (153)	5,600 (159)	6,700 (190)	4,100 (116)					
7 PSIG (483mbar)	14,200 (402)	12,600 (357)	6,100 (173)	6,400 (181)	7,100 (201)	7,300 (207)	4,600 (130)				
8 PSIG (552mbar)	16,200 (459)	16,000 (453)	6,700 (190)	7,900 (224)	9,000 (255)	9,200 (261)	7,300 (207)	6,000 (170)			
9 PSIG (621mbar)	17,900 (507)	18,400 (521)	7,500 (212)	9,300 (263)	10,400 (294)	11,100 (314)	8,300 (235)	8,500 (241)	5,100 (144)		
10 PSIG (690mbar)	20,600 (583)	21,400 (610)	8,500 (241)	9,700 (275)	11,500 (326)	12,200 (345)	10,600 (300)	10,500 (297)	4,900 (138)	5,000 (142)	
15 PSIG (1.03 Bar)	29,500 (835)	39,900 (1,130)	9,200 (261)	18,200 (515)	18,500 (524)	19,000 (538)	16,800 (476)	17,800 (504)	15,400 (436)	15,700 (445)	15,800 (447)
20 PSIG (1.38 Bar)	25,100 (711)	28,600 (810)	36,700 (1,039)	47,300 (1,339)	47,200 (1,337)	46,700 (1,323)	28,900 (818)	29,800 (844)	24,000 (680)	24,300 (688)	26,500 (750)
25 PSIG (1.72 Bar)	23,700 (671)	27,900 (790)	33,600 (951)	36,600 (1,036)	41,300 (1,169)	51,900 (1,470)	57,900 (1,640)	54,200 (1,535)	41,000 (1,161)	39,300 (1,113)	36,900 (1,045)
30 PSIG (2.07 Bar)	23,400 (663)	27,000 (765)	31,100 (881)	33,400 (946)	38,800 (1,099)	44,500 (1,260)	52,300 (1,481)	66,500 (1,883)	64,400 (1,824)	64,400 (1,824)	61,600 (1,744)

3000 Series Regulator Capacity Data

3" 3000 SERIES REGULATOR SCFH (SCMH) 0.60 specific gravity gas at 60 °F and 14.7PSIA

Spring No.	70157P028	70157P029		70157P030		70157P031				70157P032	
Inlet Pressure	2" W.C. .5# Droop	4" W.C. 1# Droop	6" W.C. 1# Droop	9" W.C. 1# Droop	12" W.C. 2# Droop	16" W.C. 2# Droop	20" W.C. 2# Droop	24" W.C. 2.5# Droop	28" W.C. 3# Droop	42" W.C. 4# Droop	56" W.C. 5# Droop
8" WC (20mbar)	8,400 (238)	8,750 (248)	6,000 (170)								
14" WC (35mbar)	12,500 (360)	12,800 (362)	8,400 (238)	6,100 (173)							
21" WC (52mbar)	14,100 (399)	16,300 (462)	10,550 (299)	8,050 (228)	9,900 (280)						
1 PSIG (69mbar)	15,050 (426)	18,100 (513)	11,900 (337)	10,100 (286)	11,050 (313)	8,300 (235)					
1.5 PSIG (103mbar)	17,600 (498)	23,000 (651)	18,500 (524)	13,100 (371)	18,000 (507)	12,500 (360)	11,800 (334)	11,800 (334)			
2 PSIG (138mbar)	20,400 (578)	25,000 (708)	20,700 (586)	19,400 (549)	21,000 (595)	16,000 (453)	15,200 (430)	14,850 (421)	14,700 (416)	9,150 (259)	
3 PSIG (207mbar)	22,500 (637)	28,800 (816)	24,000 (680)	23,500 (665)	24,500 (694)	22,000 (623)	21,000 (595)	21,000 (595)	20,900 (592)	14,600 (413)	13,650 (387)
5 PSIG (345mbar)	23,400 (663)	33,900 (960)	29,000 (821)	28,750 (814)	29,000 (821)	27,500 (779)	26,300 (745)	26,300 (745)	26,150 (740)	23,950 (678)	23,800 (674)
10 PSIG (690mbar)		35,100 (994)	33,500 (949)	32,100 (909)	32,300 (915)	30,000 (849)	30,400 (861)	32,000 (906)	32,850 (931)	32,500 (920)	32,500 (920)
15 PSIG (1.03 Bar)			33,500 (949)	33,100 (937)	34,200 (968)	32,900 (932)	33,300 (943)	33,600 (951)	33,850 (959)	34,400 (974)	34,000 (963)
20 PSIG (1.38 Bar)			39,000 (1,104)	35,000 (991)	37,000 (1,048)	35,000 (991)	38,000 (1,076)	40,000 (1,133)	40,000 (1,133)	40,000 (1,133)	40,000 (1,133)
25 PSIG (1.72 Bar)			39,000 (1,104)	35,000 (991)	40,000 (1,133)	40,000 (1,133)	40,000 (1,133)	40,000 (1,133)	42,000 (1.189)	45,000 (1,274)	45,000 (1,274)
30 PSIG (2.07 Bar)			45,000 (1,274)	45,000 (1,274)	45,000 (1,274)	45,000 (1,274)	45,000 (1,274)	45,000 (1,274)	45,000 (1,274)	45,000 (1,274)	45,000 (1,274)

4" 3000 SERIES REGULATOR SCFH (SCMH) 0.60 specific gravity gas at 60 °F and 14.7PSIA

Spring No.	71411P022		71411P044		71411P023				71411P021	
Inlet Pressure	4" W.C. 1# Droop	6" W.C. 1# Droop	9" W.C. 1# Droop	12" W.C. 2# Droop	16" W.C. 2# Droop	20" W.C. 2# Droop	24" W.C. 2.5# Droop	28" W.C. 3# Droop	42" W.C. 4# Droop	56" W.C. 5# Droop
3 PSIG (207mbar)	12,500 (354)	8,500 (241)								
4 PSIG (276mbar)	18,000 (510)	13,000 (368)	14,000 (396)							
5 PSIG (345mbar)	23,500 (665)	20,000 (566)	21,000 (595)	18,000 (510)						
6 PSIG (414mbar)	24,000 (680)	22,000 (623)	28,000 (793)	23,000 (651)	21,000 (595)					
7 PSIG (483mbar)	29,000 (821)	25,000 (708)	34,000 (963)	28,000 (793)	26,000 (736)	24,000 (680)	18,000 (510)			
8 PSIG (552mbar)	32,000 (906)	28,000 (793)	44,000 (1,246)	37,100 (1,051)	37,500 (1,062)	37,000 (1,048)	26,000 (736)	16,000 (453)	26,000 (736)	
9 PSIG (621mbar)	40,000 (1,133)	50,000 (1,516)	55,000 (1,557)	56,000 (1,586)	56,000 (1,586)	55,000 (1,557)	44,000 (1,246)	30,000 (849)	43,000 (1,218)	38,000 (1,076)
10 PSIG (690mbar)	45,000 (1,274)	50,000 (1,516)	55,000 (1,557)	60,000 (1,699)	70,000 (1,982)	72,000 (2,039)	62,000 (1,756)	56,000 (1,586)	60,000 (1,699)	55,000 (1,557)
15 PSIG (1.03 Bar)	45,000 (1,274)	50,000 (1,516)	55,000 (1,557)	60,000 (1,699)	70,000 (1,982)	75,000 (2,124)	75,000 (2,124)	75,000 (2,124)	90,000 (2,548)	90,000 (2,548)
20 PSIG (1.38 Bar)	45,000 (1,274)	50,000 (1,516)	55,000 (1,557)	60,000 (1,699)	70,000 (1,982)	75,000 (2,124)	75,000 (2,124)	75,000 (2,124)	90,000 (2,548)	90,000 (2,548)
25 PSIG (1.72 Bar)		50,000 (1,516)	55,000 (1,557)	55,000 (1,557)	65,000 (1,841)	65,000 (1,841)	65,000 (1,841)	60,000 (1,699)	80,000 (2,265)	75,000 (2,124)
30 PSIG (2.07 Bar)		55,000 (1,557)	57,000 (1,614)	55,000 (1,557)	65,000 (1,841)	65,000 (1,841)	65,000 (1,841)	60,000 (1,699)	80,000 (2,265)	75,000 (2,124)

FULL-OPEN REGULATOR RELIEF CAPACITY

For sizing downstream relief valves, use the following formulas to determine the regulator full-open capacity.

For critical flow rate:

$$Q = \frac{(59.64 \times C)}{2} \times \frac{P_1}{\sqrt{G}}$$

For sub-critical flows:

$$Q = 59.64 \times C \times h \frac{\sqrt{P_2}}{\sqrt{G}}$$

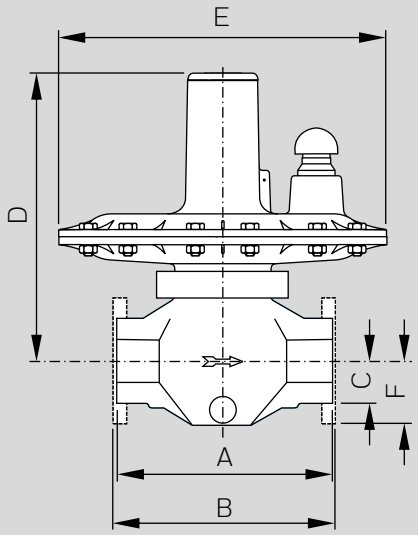
- **Q** Maximum capacity of regulator
- **C** Orifice constant (see table)
- **P_1** Inlet absolute pressure (PSIA)
- **P_2** Outlet absolute pressure (PSIA)
- **h** Differential pressure (P1 -P2)
- **G** Specific gravity of gas

ORIFICE CONSTANTS	
Size	**C**
1¼"	20
1½"	20
2"	43
3"	86
4"	141

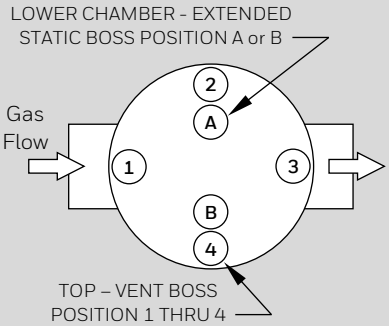
Critical flow occurs when the absolute outlet pressure is less than about ½ of the absolute inlet pressure.

SERIES 1800 Dimensions

Size	Dimensions A	B	C	D	E	F	Shipping Weight
1¼" NPT	6.25" 158.8mm		1.16" 29.46mm	8.25" 209.6mm	9.38" 238.3mm		9.5 lb 4.3 Kg
1½" NPT	6.25" 158.8mm		1.16" 29.46mm	8.25" 209.6mm	9.38" 238.3mm		9.25 lb 4.2 Kg
2" NPT	7.81" 197.4mm		1.81" 46.0mm	L.P. 10.41" 264.4mm H.P. 17.25" 438.2mm	12.13" 308.1mm		L.P. 22 lb 10.0 Kg H.P. 33 lb 15 Kg
2" ANSI 125 Flanged		8.75" 222.3mm		L.P. 10.41" 264.4mm H.P. 17.25" 438.2mm	12.13" 308.1mm	3" 76.2mm	L.P. 30 lb 13.6 KG H.P. 43 lb 19.5 Kg
3" ANSI 125 Flanged		10.25" 260.4mm		12.88" 327.2mm	15" 381mm	3.75" 95.3mm	47 lb 21.3 Kg
4" ANSI 125 Flanged		12.38" 314.5mm		19.56" 495.6mm	17.25" 438.2mm	4.5" 114.3mm	77 lb 34.9 Kg



REGULATOR ASSEMBLY POSITIONS



Unless othered otherwise
Factory Standard = A2

Other Gas Capacities

To determine the capacity of these regulators for gases other than natural gas, multiply the values within the capacity tables by a Specific Gravity Conversion Factor (Fg). The table below lists this factor for some of the more common gases.

GAS TYPE	SPECIFIC GRAVITY	CONVERSION FACTOR (Fg)
Air	1.00	0.77
Butane	2.01	0.55
Carbon Dioxide	1.52	0.63
Nitrogen	0.97	0.79
Propane	1.53	0.63

To calculate the Conversion Factor for other gases:

$$(Fg) = \sqrt{\frac{\text{Specific gravity of gas on which the capacity table is based}}{\text{Specific gravity of gas being used}}}$$

Example: If using propane and only having tables based on natural gas, the Specific Gravity Conversion Factor is:

$$(Fg) = \sqrt{\frac{\text{Specific gravity of natural gas (0.6)}}{\text{Specific gravity of gas being used}}}$$

$$(Fg) = \sqrt{\frac{0.60}{1.53}}$$

$$(Fg) = 0.626$$

For more information

www.smartenergy.honeywell.com

Honeywell I Smart Energy

2221 Industrial Road
Nebraska City, NE 68410
T +1 402-873-8200
F +1 402-873-7616

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