

High-Pressure Regulators RG10 Models

The RG10 pressure regulator is a high-pressure, directspring operated pressure regulator. Its heavy-duty design makes it ideal for high-pressure regulation in the oil and natural gas industry.

Typical applications include farm taps, first or second cut regulation, transmission to distribution and many other high-pressure processes. It has a maximum inlet pressure of 1500 psi and an outlet range of 27-500 psi. This high-pressure regulator may also be converted into a relief valve. A NACE option is available for sour service.

Specifications

Sizes: 1" & 2"

Connection: Female NPT, flanged

Body Type: Globe

Orifice Sizes: .125" (1/8"), .188" (3/16"), .25", .375" (3/8"), .50"

Temperature Range:

0° F to 300° F (-18° C to 149° C) Viton®

-20° F to 180° F (-29° C to 82° C) Buna, nylon, neoprene

Body Pressure Rating: 1500 psi Housing Pressure Rating: To prevent housing failure: 550 psi

To prevent damage to internal parts: 200 psi above set point

up to 550 psi max

Weight: 1"-25 lbs, 2"-30 lbs

Materials: Body: WCB steel

Housing and Spring Cover: WCB steel

Orifice, Disk Holder and Shuttle: Brass, stainless (optional)

Disk: Buna, Viton®, nylon

Diaphragm: Neoprene, Viton® (optional)

Inlet Pressure

The inlet pressure should not exceed the sum of the regulator set point and the max pressure drop.

Example:

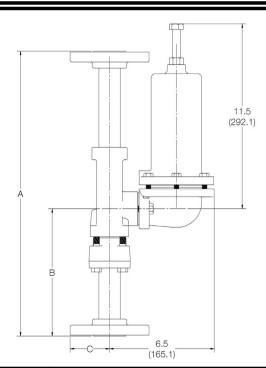
For a 100 psi set point with a max pressure-drop of 750, the inlet pressure should be kept below 850 psi.

Maximum Inlet Pressure and Pressure Drop													
0.16.	Max	Inlet	Max Pressure Drop										
Orifice Size	Pres	sure	Nylon Disk		Viton®	Disk	Buna Disk						
	psi	bar	psi	bar	psi	bar	psi	bar					
.125"	1500	103.4	1500	103.4			600	41.4					
.188"	1500	103.4	1500	103.4]		600	41.4					
.25"	1500	103.4	1000	69.0	200	13.8	600	41.4					
.375"	1000	69.0	500	34.5]		500	34.5					
.50"	750	51.7	250	17.2			250	17.2					



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Dimensions



Dimensions											
Connection	Body Size	Body Size A B C									
Threaded	1" Body	7.5	3.7	1.3							
Tilleaded	2" Body	7.9	3.9	1.9							
150 RFF	1" Body	17.9	8.0	2.1							
	2" Body	19.9	8.7	3.0							
300/600 RFF	1" Body	17.9	8.0	2.4							
·	2" Body	19.9	8.7	3.3							

Outlet	0.	tlet				1'	Body Si	7A	2" Body Size						
Pressure Prange		sure	Inlet Pressure		Orifice Diameter					Orifice Diameter					
Range	poia	bar	psig	bar	.125"	.188"	.25"	.375*	.50"	.125"	.188"	.25"	.375"	.50*	
	psig	Dai	60	4.1	900	2,000	3,100	5,200	8,100	1,000	2,100	3,200	5,300	12,000	
			75	5.2	1,300	2,800	3,800	7,200	10,000	1,400	2,900	3,900	7,300	16,000	
			100	6.9	1,700	3,500	5,700	10,500	13,000	1,800	3,600	5,800	10,000	21,000	
27 to 50		İ	150	10.3	2,600	5,700	8,700	13,000	17,000	2,700	5,800	9,000	15,000	36,000	
		l	200	13.8	3,500	7,800	11,000	16,000	19,000	3,600	7,900	12,000	21,000	55,000	
psig	50	3.4	300	20.7	5,300	10,500	14,000	20,000	23,000	5,500	11,000	19,000	48,000	83,000	
(1.86 to 3.4 bar)			400	27.6	6,900	13,000	17,000	23,000		7,000	15,000	27,000	63,000		
			550	19.3	9,600	16,000	20,000	26,000		9,700	21,000	38,000	88,000		
			1,050	72.4	9,800	17,000	21,000			10,000	23,000 42,000	42,000 74,000			
			1,500	103	19,000	25,000	27,000			27,000	60,000	14,000			
			60	4.1	800	1,500	2,400	4,300	6,400	900	1,600	2,500	4,400	7,300	
			75	5.2	1,200	2,100	3,100	5,500	8,000	1,300	2,200	3,200	6,100	9,300	
			100	6.9	1,500	3,100	4,200	7,500	10,000	1,600	3,400	4,300	7,600	12,000	
		l	150	10.3	2,400	4,500	6,700	11,000	14,000	2,500	4,600	7,100	12,000	19,000	
			200	13.8	3,400	6,600	9,400	14,000	17,000	3,500	6,700	9,600	16,000	27,000	
	50	3.4	300	20.7	5,200	8,900	11,000	16,000	20,000	5,300	10,000	14,000	27,000	51,000	
			400	27.6	6,800	11,000	15,000	20,000		6,900	13,000	21,000	46,000		
		1	550 600	19.3 41.4	9,500	13,000	17,000	23,000	_	9,600	18,000	29,000 35,000	87,000		
46 to 95			1,050	72.4	14.000	19,000	22,000			18,000	41,000	73,000			
psig			1,500	103	18,000	24,000	22,000			26,000	59,000	70,000			
(32 to 6.5 bar)		 	100	6.9	1,700	3,200	5,000	8,000	13,000	1,800	3,300	5,200	9,000	14,000	
		5.2	125	8.6	2,200	4,300	6,700	10,000	15,000	2,300	4,400	6,900	11,000	18,000	
			200	5.2	3,500	7,300	10,000	16,000	22,000	3,600	7,400	11,000	19,000	30,000	
			250	17.2	4,400	9,400	13,000	19,000	24,000	4,500	9,500	14,000	26,000	44,000	
	75		325	22.4	5,700	11,000	16,000	23,000	27,000	5,800	12,000	18,000	36,000	67,000	
	l "		400	27.6	7,100	14,000	19,000	27,000		7,200	15,000	24,000	47,000		
			575	39.6	9,700	18,000	23,000	30,000		9,800	22,000	37,000	92,000		
			1,075	74.1	9,900	19,000	25,000 32,000			10,000	23,000 42,000	39,000 75,000			
			1,500	103	23,000	32,000	32,000			24,000	60,000	73,000			
			125	8.6	2,000	3,600	5,500	9,200	13,000	2,100	3,700	5,600	9,800	15,000	
		l	150	10.3	2,500	4,600	6,800	11,000	16,000	2,600	4,900	7,400	12,000	18,000	
		l	200	5.2	3,600	6,600	9,400	13,000	22,000	3,700	6,900	10,000	17,000	27,000	
		l	250	17.2	4,400	8,500	11,000	18,000	26,000	4,500	8,700	13,000	22,000	34,000	
	100	6.9	300	20.7	5,300	9,800	14,000	21,000	30,000	5,400	10,000	16,000	27,000	44,000	
	.00		350	24.1	6,100	10,000	16,000		32,000		12,000		33,000	57,000	
			400	27.6	7,000	13,000	18,000	27,000		7,200	14,000	21,000			
			1,100	41.4 75.8	9,500 19,500	18,000 28,000	23,000 35,000	35,000		10,000	21,000	74,000	69,000		
			1,500	103	25,000	35,000	35,000			19,000 27,000	43,000 59,000	74,000			
			150	10.3	2,400	4,600	6,700	11,000	17,000	2,500	5,000	8,100	12,000	20,000	
		İ	200	5.2	3,500	6,800	10,000	15,000	23,000	3,600	7,400	11,000	19,000	30,000	
			250	17.2	4,300	8,900	12,000	19,000	29,000	4,400	9,400	14,000	_	39,000	
90 to 150			300	20.7	5,200	10,000	15,000	25,000	34,000	5,300	11,000	17,000	31,000	48,000	
psig	125	8.6	375	25.9	6,600	13,000	18,500	28,000	39,000	7,000	15,000	24,000	43,000	65,000	
(6.2 to 10.3 bar)	120	0.0	400	27.6	7,300	14,500	19,000	29,000		8,300	18,000	28,000			
			500	34.5	7,900	15,000	25,000	36,000		8,800	19,000	30,000			
			625	43.1	10,000	22,000	29,000	41,000		11,000	24,000	40,000	79,000		
			1,125	77.6	18,000	33,000	42,000			19,000	44,000	79,000			
		\vdash	1,500	103	26,000	6.800	10.000	16 000	26 000	27,000	7 300	11.000	12 000	30,000	
			200	13.8	3,400 4,400	6,800 8,800	10,000	16,000	26,000 32,000	3,500 4,500	7,300 9,500	11,000	18,000 26,000	30,000	
			300	20.7	5,300	10,000	15,000	24,000	35,000	5,400	11,000	19,000		52,000	
		10.3	400	27.6	7,100	14,000	22,000	34,000	42,000	7,200	15,000	26,000		77,000	
	150		450	31.0	7,700	17,000	24,000	36,000		8,100	18,000	29,000		1,500	
			650	44.8	9,000	24,000	33,000	49,000		10,000		44,000			
			800	55.2	13,000	29,000	38,000			14,000	30,000	54,000			
			1,150	79.2	20,000	38,000	49,000			21,000	46,000	78,000			
			1,500	103	26,000	47,000				27,000	60,000				

Capacities of 0.6 S.G. Natural Gas in SCFH (Continued)

President Pres	Outlet	0	tlet				Body Si	7 0		2" Body Size						
Part Part	Range			Inlet Pr	ressure											
150 lo 200 13.8 3.400 6.200 9.300 16.000 24.000 3.000 6.200 10.000 27.000 24.000 27.000 24.000 27.000 24.000 27.000 24.000 27.000 24.000 27.000 27.000 24.000 27.000 27.000 24.000 27.000 27.000 24.000 27.0				l -	h	4051				501	4051				501	
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(10.3 to 13.8 bar) 1,500 103 25,000 103,000 103,000 12,000 2,000 30,000 4,300 4,300 4,300 30,000 4,300 30,000 42,000 30,000 4,300 4,300 30,000 33,000 32,000 42,000 30,000 4,300 4,300 4,300 30,000 33,000 33,000 82,000 4,300 4,300 4,300 4,300 4,300 4,300 4,300 4,300 30,000 44,000 30,000 30,000 44,000 4,300 4,300 4,300 4,300 4,300 4,300 4,300 4,000 33,000 84,000 4,300 4,300 4,300 4,300 4,0		l	l	1,150	79.3	19,500	34,000	49,000			20,000	45,000	78,000			
10.3 to 13.8 bay 20.0		l		1,500	103	26,000	44,000				27,000	60,000				
13.8 30. 20.7 5.200 10.000 16.000 25.000 35.000 5.300 11.000 18.000 33.000 83.000 84.000 10.000 10.000 23.000 33.000 84.000 84.000 10.000 23.000 40.000 75.000 41.000 23.000 40.000 75.000 41.000 23.000 40.000 75.000 41.000 23.000 40.000 75.000 41.000 23.000 40.000 75.000 41.000 23.000 40.000 75.000 41.000 23.000 40.000 75.000 41.000 23.000 40.000 75.000 41.000 23.000 40.000 75.000 41.000 23.000 40.000 4				250	17.2	4,200	8,300	12,000	20,000	30,000	4,300	9,100	13,000	23,000	42,000	
13.8 600 41.1 9,500 22,000 34,000 55,000 10,000 23,000 47,000 90,000 1,000 35,000 35,000 1,000 35,000 1,000 35,000 1,000 35,0	(10.5 1015.0 001)				20.7	5,200	10,000	16,000	25,000	35,000	5,300	11,000	18,000	33,000	52,000	
200 13.8 700 48.3 11.000 25.000 40.000 61.000 12.000 27.000 47.000 90.000 12.000 45.000 12.000 45.000 12.000 45.000 12.000 45.000 12.000 45.000 12.000 45.000 12.000 45.000 12.000 45.000 12.000 45.000 45.000 12.000 45				450	31.0	7,800	16,000	26,000		50,000	7,900	17,000	29,000	52,000	84,000	
Record 1,000 68.9 16,000 30,000 43,000 14,000 51,000 69,000 1,000 69,000 1,000 69,000 1,000 69,000 1,000 69,000 1,000 69,000 1,000 69,000 1,000 69,000 1,000 69,000 1,000 69,000 1,000 69,000 1,000 69,000 1,0					41.1	9,500	22,000	34,000			10,000	23,000	40,000	75,000		
1,000 68.9 16,000 37,000 50,000 17,000 39,000 69,000 1,000		200	13.8						61,000		_		_	90,000		
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200 to 275 psig (13.8 to 19 bar) 250		l														
13.8 700 48.3 11,000 25,000 35,000 55,000 11,000 27,000 45,000 83,000		200				_				50,000					78,000	
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1,200 82.7 19,000 41,000 55,000 20,000 46,000 83,000 1,500 1,500 1,500 1,500 1,500 1,500 2,700 6,000 1,500 2,700 6,000 1,700 30,000 5,200 5,000 1,700 30,000 5,200 1,500 2,700 1,500 2,700 1,500 2,700 1,500 2,500 2,500 1,500 2,500		l										_				
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250 to 275 psig (13.8 to 19 bar) 250 17.2 17.2 250 34.5 8,500 34.5 8,500 18,000 22,000 34,000 59,000 10,000 23,000 41,000 78,000 1,000 1,000 88,000 1,000 1,000 1,000 88,000 1						-										
(13.8 to 19 bar) 17.2 17.2			i	_				_			_					
100		l		600	41.4	9,500	22,000	34,000	59,000		10,000	23,000	41,000	78,000		
1,200 82.7 21,000 49,000 69,000 22,000 50,000 87,000	(13.8 to 19 bar)	250	17.2	750	51.7	12,500	28,000	44,000	69,000		13,000	29,000	51,000	106,000		
1,500	İ	İ	l	1,000	68.9	16,000	39,000	58,000			17,000	40,000	68,000			
275 to 500 psig (19 to 34.5 bar) 275				1,200	82.7	21,000	49,000	69,000			22,000	50,000	87,000			
19				1,500	103	26,000	59,000				27,000	60,000				
Page				300	20.7	4,700	9,000	15,000	28,000	39,000	4,800	10,000	17,000	29,000	43,000	
275 19																
1,000 68.9 16,000 39,000 67,000 17,000 40,000 68,000 1,275 89.9 21,000 50,000 87,000 22,000 51,000 89,000 1,500 103 26,000 60,000 26,000 31,000 46,000 20,000 32,000 37,000 40,000 20,000 31,000 46,000 20,000 32,000 32,000 32,000 53,000 40,000 70,000 13,000 20,000 32,000 53,000 52,000 52,000 12,000 32,000 32,000 32,000 32,000 32,000 32,000 53,000 10,000 20,000 32,00		l			36.2					94,000					112,000	
1,275 89.9 21,000 50,000 87,000 22,000 51,000 89,000 10,500 89,000 26,000 61,000 26,000 61,000 26,000 61,000 20,000 31,000 4600 8,400 13,000 23,000 37,000 20,000 31,000 46,000 31,000 43,000 7,000 13,000 20,000 32,000 53,000 52,500 525 36.2 8,600 16,000 21,000 39,000 56,000 9,300 18,000 27,000 46,000 73,000 52,500 11,000 68.9 17,000 32,000 43,000 55,000 13,000 28,000 44,000 73,000 11,275 87.9 21,000 40,000 53,000 22,000 48,000 77,000 11,275 87.9 21,000 40,000 53,000 22,000 48,000 77,000 11,275 87.9 21,000 40,000 53,000 22,000 48,000 77,000 11,500 103 26,000 46,000 27,000 48,000 77,000 11,500 103 26,000 46,000 27,000 48,000 77,000 11,500 103 26,000 46,000 27,000 57,000 11,500 103 26,000 48,000 11,000 16,000 31,000 42,000 7,000 13,000 21,000 35,000 54,000 55,000 10,000 21,000 35,000 54,000 10,000 21,000 34,000 59,000 10,000 50,000 10,000 21,000 34,000 59,000 10,000 52,000 70,000 10,000 52,000 70,000 10,000 52,000 70,000 10,000 52,000 70,000 10,000 50,000 10		275	19		_				95,000		_	_		112,000		
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275 to 500 psig (19 to 34.5 bar) 276 277 278 279 279 277 277 277 277								87,000					89,000			
275 to 500 psig (19 to 34.5 bar) 275		_			_			40.000	00.000	24 222			40.000	00.000	07.000	
275 to 500 psig (19 to 34.5 bar) 525 36.2 8,600 16,000 21,000 39,000 56,000 9,300 18,000 27,000 46,000 73,000 526,000 13,000 28,000 44,000 73,000 1,000 68.9 17,000 32,000 43,000 18,000 37,000 57,000 1,275 87.9 21,000 40,000 53,000 22,000 48,000 77,000 1,500 103 26,000 46,000 27,000 57,000 1,500 103 26,000 46,000 27,000 57,000 20,000 30,000 52,000 1,500 38 9,700 18,000 23,000 44,000 63,000 9,800 20,000 30,000 52,000 78,000 550 38 9,700 18,000 23,000 44,000 63,000 9,800 20,000 30,000 52,000 78,000 600 41.4 9,900 19,000 26,000 48,000 10,000 21,000 34,000 59,000 700 48.3 11,000 23,000 30,000 54,000 12,000 34,000 59,000 800 55.2 13,000 26,000 35,000 61,000 14,000 29,000 47,000 81,000 900 62.1 15,000 29,000 39,000 16,000 34,000 53,000		l														
275 to 500 psig (19 to 34.5 bar) 19 775 53.4 11,000 68.9 17,000 32,000 43,000 43,000 18,000 37,000 57,000 1,275 87.9 21,000 40,000 53,000 22,000 48,000 77,000 27,000 57,000 27,000 57,000 27,000 57,000 27,000 57,000 27,000 57,000 1,500 1,000 1,500 1,000 1,500 1					_						_		_			
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1,275 87.9 21,000 40,000 53,000 22,000 48,000 77,000 157,000 15,500 103 26,000 46,000 27,600 57,000 27,000 57,000 27,000 27,000 27,60 6,600 11,000 16,000 31,000 42,000 7,000 13,000 21,000 35,000 54,000 21,000 34,000 55,000 41,44 9,900 19,000 26,000 48,000 10,000 21,000 34,000 59,000 20,000 30,000 52,000 78,000 20,000 30,000 52,000 78,000 20,000 30,000 52,000 78,000 20,000 30,000 52,000 78,000 20,000 30,000 52,000 52,000 52,000 52,000 52,000 52,000 52,000 52,00		2/5	19	-					55,000					73,000		
275 to 500 psig (19 to 34.5 bar) 1,500 103 26,000 46,000 11,000 16,000 31,000 42,000 7,000 13,000 21,000 35,000 54,000 550 38 9,700 18,000 23,000 44,000 63,000 9,800 20,000 30,000 52,000 78,000 600 41.4 9,900 19,000 26,000 48,000 10,000 21,000 34,000 59,000 700 48.3 11,000 23,000 30,000 54,000 10,000 21,000 34,000 59,000 700 48.3 11,000 23,000 30,000 54,000 11,000 21,000 34,000 34,000 59,000 10,000 11,00		l														
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(19 to 34.5 bar) 550 38 9,700 18,000 23,000 44,000 63,000 9,800 20,000 30,000 52,000 78,000 60.0 41.4 9,900 19,000 26,000 48,000 10,000 21,000 34,000 59,000 700 48.3 11,000 23,000 30,000 54,000 12,000 26,000 40,000 72,000 800 55.2 13,000 26,000 35,000 61,000 14,000 29,000 47,000 81,000 900 62.1 15,000 29,000 39,000 16,000 34,000 53,000		\vdash						16.000	31,000	42.000	_		21.000	35.000	54.000	
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1,300 90 22,000 43,000 58,000 23,000 50,000 80,000		l			_								_			
		l	1	1,300	90	22,000	43,000	58,000				50,000	80,000			
1,500 103 26,000 49,000 27,000 58,000				1,500	103	26,000	49,000				27,000	58,000				

Capacities of 0.6 S.G. Natural Gas in SCFH (Continued)

Outlet Pressure	Outlet		Inlet Pr			1	" Body S	ize		2" Body Size					
	Pres	Pressure		essure		Ori	ifice Diam	neter		Orifice Diameter					
Range	psig	bar	psig	bar	.125*	.188"	.25*	.375"	.50"	.125"	.188*	.25"	.375*	.50"	
			500	34.5	8,300	16,000	24,000	44,000	62,000	8,800	17,000	28,000	49,000	77,000	
			600	41.4	10,000	24,000	33,000	61,000	86,000	11,000	25,000	40,000	75,000	112,000	
		27.6	800	55.2	13,000	30,000	41,000	76,000		14,000	31,000	51,000	95,000		
	400		900	62.1	15,000	34,000	49,000	85,000		16,000	36,000	58,000	110,000		
	400		1,000	68.9	17,000	38,000	54,000			18,000	40,000	66,000			
275 to 500			1,200	82.7	20,000	46,000	63,000			21,000	48,000	80,000			
psig (19 to 34.5 bar)			1,400	96.5	24,000	55,000	76,000			25,000	57,000	96,000			
(19 to 34.5 bar)			1,500	103	26,000	60,000				27,000	61,000				
			500	34.5	8,700	16,000	26,000	50,000	77,000	9,000	18,000	30,000	53,000	89,000	
		34.5	750	51.7	12,000	28,000	40,000	78,000	100,000	13,000	29,000	48,000	90,000	141,000	
	500		900	62.1	15,000	34,000	52,000	92,000		16,000	35,000	60,000	113,000		
			1,000	68.9	17,000	39,000	60,000	100,000		18,000	40,000	67,000	130,000		
			1,500	103	26,000	59,000	72,000			27,000	60,000	82,000			

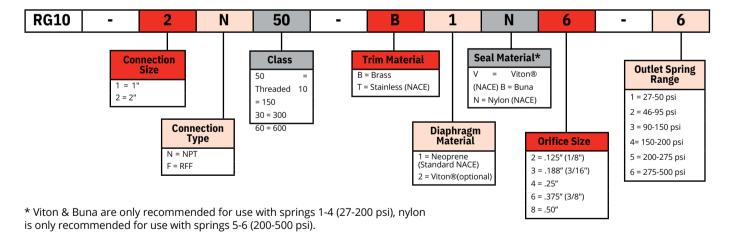
- -Capacity is based on 20 percent droop unless otherwise noted below.
- -Grayed out areas indicate that the inlet pressure is too high for a given orifice size.
- -To convert capacities to another gas, multiply by .775 and divide by the square root of the specific gravity of the desired gas.

How to Order

Options are listed below. All configurations may not be available. Call your sales representative or FW Murphy for more information. Repair kits are available.

Example Model No. RG10-2N50-B1N6-6

RG10 Series Regulator, 2" Body, Threaded Ends, Brass Trim, Neoprene Diaphragm, Nylon Seat, .375" Orifice, 275-500 psi Spring





CONTACT

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