



BelGAS™

A DIVISION OF MARSH BELLOFRAM

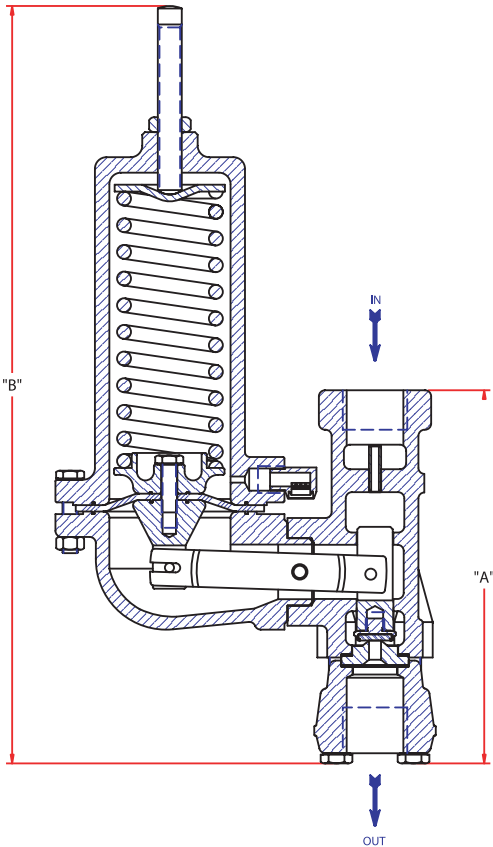
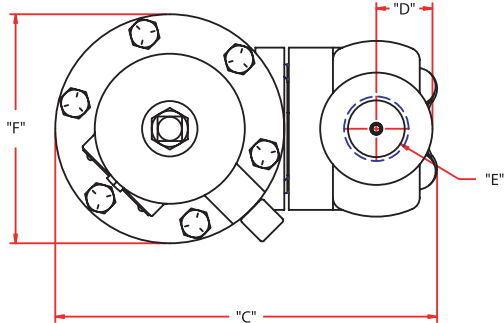


P630

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DIMENSIONS:

BODY SIZE		A	B	C	D	E	F
1"	mm	193	392	198	29	1"	119
	inches	7.61	15.45	7.79	1.15	NPT	4.67
2"	mm	207	398	215	45	2"	119
	inches	8.13	15.68	8.45	1.90	NPT	4.67



P630 REGULATOR PART

P 6 3 0 [] [] [] [] [] 0 [] [] [] []

PORT SIZE	
1"	08
2"	16

SPRING RANGE		
psi	BAR	
27-50	1.9-3.5	050
46-95	3.2-6.6	095
90-150	6.2-1.3	150
150-200	10.3-13.8	200
200-275	13.8-18.9	275
275-500	18.9-34.5	500

STD	0
NACE	1

ORIFICE	
1/8"	2
3/16"	3
1/4"	4
3/8"	6
1/2"	8

SEAT MATERIAL	
Nylon	1
CTFE	2

DIAPHRAGM	
Fluorocarbon	2
Neoprene	3

CASING MATERIAL	
Ductile Iron	0
Steel	1



REGULATOR REBUILD KITS

PART NUMBER	KIT INCLUDES
971-630-000	Neoprene diaphragm, Nylon valve disk, one body gasket, and 2 orifice gaskets.
971-630-100	Neoprene diaphragm, CTFE valve disk, one body gasket, and 2 orifice gaskets.
971-630-200	Fluorocarbon diaphragm, Nylon valve disk, one body gasket, and 2 orifice gaskets.
971-630-300	Fluorocarbon diaphragm, CTFE valve disk, one body gasket, and 2 orifice gaskets.

P630 High Flow GAS Regulators

The P630 is a spring loaded, direct-operated regulator for high pressure, and high flow applications. The heavy duty construction, made possible by the addition of stainless steel internal components and a powder-coated epoxy exterior finish, makes it ideally suited for the oil and gas industries. The P630 is also available in NACE construction for corrosive (sour gas) environments.

APPLICATIONS

- First cut or second stage regulator
- Farm taps
- Transmission to distribution bridge
- High pressure process

MATERIALS OF CONSTRUCTION

Body, Bonnet Cast Iron or Steel
 Diaphragm Neoprene or Fluorocarbon
 Seat Nylon or CTFE
 Orifice 316 Stainless Steel

SPECIFICATIONS

Maximum Inlet 1500 psig
 Outlet 27-500 psig
 Port Sizes 1" NPT, 2" NPT
 Orifice Sizes 1/8", 3/16", 1/4", 3/8", 1/2"
 Outlet Range Flow Range*
 27-50 psig 800 - 85,000
 46-95 psig 900 - 92,000
 90-150 psig 2,000 - 88,000
 150-200 psig 3,400 - 90,000
 200-275 psig 4,200 - 112,000
 275-500 psig 6,600 - 141,000

*(SCFH of 0.6 S.G. Natural Gas)

Temp. Range -20° to 150°F (-29° to 66°C)

The P630 comes standard with durable stainless steel components for added corrosion protection and long life.



FLOW CAPACITIES in SCFH at 20% Droop

OUTLET PRESSURE RANGE (psig)	INLET PRESSURE (psig)	OUTLET PRESSURE	PORT DIAMETER									
			1" BODY					2" BODY				
			1/8"	3/16"	1/4"	3/8"	1/2"	1/8"	3/16"	1/4"	3/8"	1/2"
27 to 50	60	50	900	2000	3100	5200	8100	1000	2100	3200	5300	12,000
	75		1300	2800	3800	7200	10,000	1400	2900	3900	7300	16,000
	100		1700	3500	5700	10,500	13,000	1800	3600	5800	10,000	21,000
	150		2600	5700	8700	13,000	17,000	2700	5800	9000	15,000	36,000
	200		3500	7800	11,000	16,000	19,000	3600	7900	12,000	21,000	55,000
	300		5300	10,500	14,000	20,000	23,000	5500	11,000	19,000	48,000	83,000
	400		6900	13,000	17,000	23,000	-----	7000	15,000	27,000	63,000	-----
	550		9600	16,000	20,000	26,000	-----	9700	21,000	38,000	88,000	-----
	600		9800	17,000	21,000	-----	-----	10,000	23,000	42,000	-----	-----
	1050		17,000	23,000	27,000	-----	-----	19,000	42,000	74,000	-----	-----
1500	19,000	25,000	-----	-----	-----	27,000	60,000	-----	-----	-----		

FLOW CAPACITIES in SCFH at 20% Droop

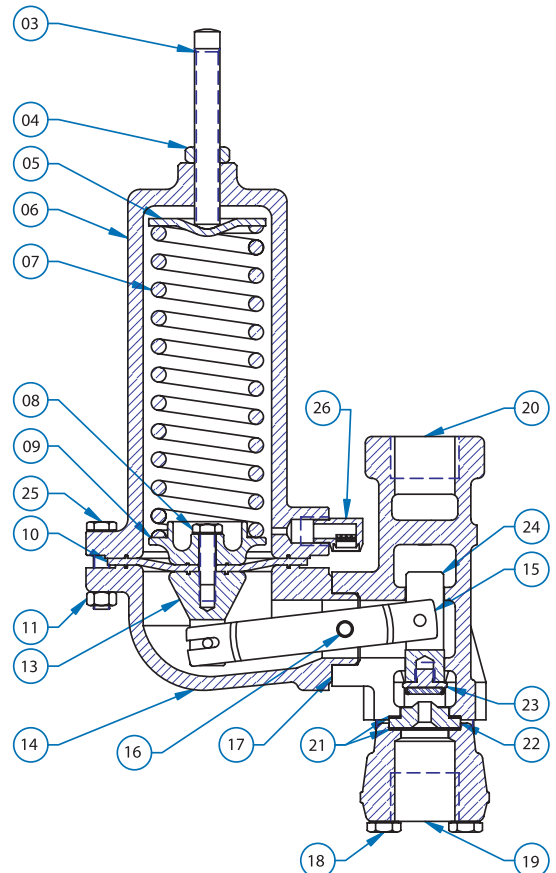
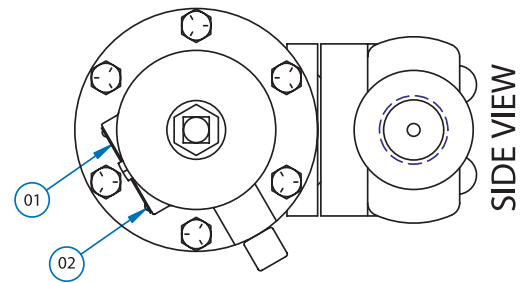
OUTLET PRESSURE RANGE (psig)	INLET PRESSURE (psig)	OUTLET PRESSURE	PORT DIAMETER									
			1" BODY					2" BODY				
			1/8"	3/16"	1/4"	3/8"	1/2"	1/8"	3/16"	1/4"	3/8"	1/2"
46 to 95	60	50	800	1500	2400	4300	6400	900	1600	2500	4400	7300
	75		1200	2100	3100	5500	8000	1300	2200	3200	6100	9300
	100		1500	3100	4200	7500	10,000	1600	3400	4300	7600	12,000
	150		2400	4500	6700	11,000	14,000	2500	4600	7100	12,000	19,000
	200		3400	6600	9400	14,000	17,000	3500	6700	9600	16,000	27,000
	300		5200	8900	11,000	16,000	20,000	5300	10,000	14,000	27,000	51,000
	400		6800	11,000	15,000	20,000	-----	6900	13,000	21,000	46,000	-----
	550		9500	13,000	17,000	23,000	-----	9600	18,000	29,000	87,000	-----
	600		9800	14,000	19,000	-----	-----	10,000	20,000	35,000	-----	-----
1050	14,000	19,000	22,000	-----	-----	18,000	41,000	73,000	-----	-----		
1500	18,000	24,000	-----	-----	-----	26,000	59,000	-----	-----	-----		
46 to 95	100	75	1700	3200	5000	8000	13,000	1800	3300	5200	9000	14,000
	125		2200	4300	6700	10,000	15,000	2300	4400	6900	11,000	18,000
	200		3500	7300	10,000	16,000	22,000	3600	7400	11,000	19,000	30,000
	250		4400	9400	13,000	19,000	24,000	4500	9500	14,000	26,000	44,000
	325		5700	11,000	16,000	23,000	27,000	5800	12,000	18,000	36,000	67,000
	400		7100	14,000	19,000	27,000	-----	7200	15,000	24,000	47,000	-----
	575		9700	18,000	23,000	30,000	-----	9800	22,000	37,000	92,000	-----
	600		9900	19,000	25,000	-----	-----	10,000	23,000	39,000	-----	-----
	1075		18,000	27,000	32,000	-----	-----	19,000	42,000	75,000	-----	-----
	1500		23,000	32,000	-----	-----	-----	24,000	60,000	-----	-----	-----
90 to 150	125	100	2000	3600	5500	9200	13,000	2100	3700	5600	9800	15,000
	150		2500	4600	6800	11,000	16,000	2600	4900	7400	12,000	18,000
	200		3600	6600	9400	13,000	22,000	3700	6900	10,000	17,000	27,000
	250		4400	8500	11,000	18,000	26,000	4500	8700	13,000	22,000	34,000
	300		5300	9800	14,000	21,000	30,000	5400	10,000	16,000	27,000	44,000
	350		6100	10,000	16,000	25,000	32,000	6300	12,000	19,000	33,000	57,000
	400		7000	13,000	18,000	27,000	-----	7200	14,000	21,000	39,000	-----
	600		9500	18,000	23,000	35,000	-----	10,000	21,000	34,000	69,000	-----
	1100		19,500	28,000	35,000	-----	-----	19,000	43,000	74,000	-----	-----
	1500		25,000	35,000	-----	-----	-----	27,000	59,000	-----	-----	-----
90 to 150	150	125	2400	4600	6700	11,000	17,000	2500	5000	8100	12,000	20,000
	200		3500	6800	10,000	15,000	23,000	3600	7400	11,000	19,000	30,000
	250		4300	8900	12,000	19,000	29,000	4400	9400	14,000	24,000	39,000
	300		5200	10,000	15,000	25,000	34,000	5300	11,000	17,000	31,000	48,000
	375		6600	13,000	18,500	28,000	39,000	7000	15,000	24,000	43,000	65,000
	400		7300	14,500	19,000	29,000	-----	8300	18,000	28,000	56,000	-----
	500		7900	15,000	25,000	36,000	-----	8800	19,000	30,000	59,000	-----
	625		10,000	22,000	29,000	41,000	-----	11,000	24,000	40,000	79,000	-----
	1125		18,000	33,000	42,000	-----	-----	19,000	44,000	79,000	-----	-----
	1500		26,000	43,000	-----	-----	-----	27,000	60,000	-----	-----	-----
90 to 150	200	150	3400	6800	10,000	16,000	26,000	3500	7300	11,000	18,000	30,000
	250		4400	8800	13,000	20,000	32,000	4500	9500	15,000	26,000	38,000
	300		5300	10,000	15,000	24,000	35,000	5400	11,000	19,000	32,000	52,000
	400		7100	14,000	22,000	34,000	42,000	7200	15,000	26,000	46,000	77,000
	450		7700	17,000	24,000	36,000	-----	8100	18,000	29,000	54,000	-----
	650		9000	24,000	33,000	49,000	-----	10,000	25,000	44,000	88,000	-----
	800		13,000	29,000	38,000	-----	-----	14,000	30,000	54,000	-----	-----
	1150		20,000	38,000	49,000	-----	-----	21,000	46,000	78,000	-----	-----
	1500		26,000	47,000	-----	-----	-----	27,000	60,000	-----	-----	-----
	150 to 200		200	150	3400	6200	9300	16,000	24,000	3500	6900	10,000
250		4300	8800		12,000	20,000	27,000	4400	9000	13,000	23,000	36,000
300		5300	10,000		15,000	24,000	30,000	5400	11,000	17,000	28,000	47,000
400		7100	14,000		21,000	32,000	38,000	7200	15,000	24,000	40,000	66,000
450		7600	15,000		24,000	36,000	-----	8000	17,000	27,000	46,000	-----
650		9000	21,000		33,000	48,000	-----	10,000	22,000	40,000	74,000	-----
800		13,000	27,000		37,000	-----	-----	14,000	30,000	51,000	-----	-----
1150		19,500	34,000		49,000	-----	-----	20,000	45,000	78,000	-----	-----
1500		26,000	44,000		-----	-----	-----	27,000	60,000	-----	-----	-----

FLOW CAPACITIES in SCFH at 20% Droop

OUTLET PRESSURE RANGE (psig)	INLET PRESSURE (psig)	OUTLET PRESSURE	PORT DIAMETER											
			1" BODY					2" BODY						
			1/8"	3/16"	1/4"	3/8"	1/2"	1/8"	3/16"	1/4"	3/8"	1/2"		
150 to 200	250	200	4200	8300	12,000	20,000	30,000	4300	9100	13,000	23,000	42,000		
	300		5200	10,000	16,000	25,000	35,000	5300	11,000	18,000	33,000	52,000		
	450		7800	16,000	26,000	43,000	50,000	7900	17,000	29,000	52,000	84,000		
	600		9500	22,000	34,000	55,000	-----	10,000	23,000	40,000	75,000	-----		
	700		11,000	25,000	40,000	61,000	-----	12,000	27,000	47,000	90,000	-----		
	800		13,000	30,000	43,000	-----	-----	14,000	31,000	54,000	-----	-----		
	1000		16,000	37,000	50,000	-----	-----	17,000	39,000	69,000	-----	-----		
	1200		20,000	41,000	59,000	-----	-----	21,000	48,000	83,000	-----	-----		
	1500		26,000	53,000	-----	-----	-----	27,000	60,000	-----	-----	-----		
200 to 275	250	200	4200	8200	11,000	20,000	29,000	4300	8900	12,000	23,000	35,000		
	300		5200	10,000	14,500	25,000	35,000	5300	11,000	18,000	31,000	46,000		
	450		7700	16,000	24,000	40,000	50,000	7800	17,000	28,000	50,000	78,000		
	600		9500	22,000	31,000	51,000	-----	10,000	23,000	38,000	70,000	-----		
	700		11,000	25,000	35,000	55,000	-----	12,000	27,000	45,000	83,000	-----		
	800		13,000	29,000	42,000	-----	-----	14,000	31,000	52,000	-----	-----		
	1000		16,000	63,000	50,000	-----	-----	17,000	39,000	68,000	-----	-----		
	1200		19,000	41,000	55,000	-----	-----	20,000	46,000	83,000	-----	-----		
	1500		26,000	51,000	-----	-----	-----	27,000	60,000	-----	-----	-----		
200 to 275	300	250	4900	9000	15,000	28,000	42,000	5000	10,000	17,000	30,000	52,000		
	400		7000	14,000	23,000	40,000	56,000	7100	15,000	25,000	47,000	76,000		
	500		8500	18,000	29,000	51,000	65,000	8600	19,000	34,000	62,000	103,000		
	600		9500	22,000	34,000	59,000	-----	10,000	23,000	41,000	78,000	-----		
	750		12,500	28,000	44,000	69,000	-----	13,000	29,000	51,000	106,000	-----		
	1000		16,000	39,000	58,000	-----	-----	17,000	40,000	68,000	-----	-----		
	1250		21,000	49,000	69,000	-----	-----	22,000	50,000	87,000	-----	-----		
	1500		26,000	59,000	-----	-----	-----	27,000	60,000	-----	-----	-----		
	200 to 275		300	275	4700	9000	15,000	28,000	39,000	4800	10,000	17,000	29,000	43,000
400		6900	14,000		25,000	40,000	54,000	7000	15,000	26,000	47,000	73,000		
525		8600	18,000		35,000	68,000	94,000	9200	20,000	36,000	69,000	112,000		
775		11,000	28,000		51,000	95,000	-----	12,000	30,000	52,000	112,000	-----		
1000		16,000	39,000		67,000	-----	-----	17,000	40,000	68,000	-----	-----		
1275		21,000	50,000		87,000	-----	-----	22,000	51,000	89,000	-----	-----		
1500		26,000	60,000		-----	-----	-----	26,000	61,000	-----	-----	-----		
275 to 500		300	275		4500	7500	10,000	20,000	31,000	4600	8400	13,000	23,000	37,000
		400			6600	12,000	16,000	31,000	43,000	7000	13,000	20,000	32,000	53,000
	525	8600		16,000	21,000	39,000	56,000	9300	18,000	27,000	46,000	73,000		
	775	11,000		24,000	32,000	55,000	-----	13,000	28,000	44,000	73,000	-----		
	1000	17,000		32,000	43,000	-----	-----	18,000	37,000	57,000	-----	-----		
	1275	21,000		40,000	53,000	-----	-----	22,000	48,000	77,000	-----	-----		
	1500	26,000		46,000	-----	-----	-----	27,000	57,000	-----	-----	-----		
	275 to 500	400		300	6600	11,000	16,000	31,000	42,000	7000	13,000	21,000	35,000	54,000
		550			9700	18,000	23,000	44,000	63,000	9800	20,000	30,000	52,000	78,000
600		9900	19,000		26,000	48,000	-----	10,000	21,000	34,000	59,000	-----		
700		11,000	23,000		30,000	54,000	-----	12,000	26,000	40,000	72,000	-----		
800		13,000	26,000		35,000	61,000	-----	14,000	29,000	47,000	81,000	-----		
900		15,000	29,000		39,000	-----	-----	16,000	34,000	53,000	-----	-----		
1300		22,000	43,000		58,000	-----	-----	23,000	50,000	80,000	-----	-----		
1500		26,000	49,000		-----	-----	-----	27,000	58,000	-----	-----	-----		
275 to 500		500	400		8300	16,000	24,000	44,000	62,000	8800	17,000	28,000	49,000	77,000
	600	10,000		24,000	33,000	61,000	86,000	11,000	25,000	40,000	75,000	112,000		
	800	13,000		30,000	41,000	76,000	-----	14,000	31,000	51,000	95,000	-----		
	900	15,000		34,000	49,000	85,000	-----	16,000	36,000	58,000	110,000	-----		
	1000	17,000		38,000	54,000	-----	-----	18,000	40,000	66,000	-----	-----		
	1200	20,000		46,000	63,000	-----	-----	21,000	48,000	80,000	-----	-----		
	1400	24,000		55,000	76,000	-----	-----	25,000	57,000	96,000	-----	-----		
	1500	26,000		60,000	-----	-----	-----	27,000	61,000	-----	-----	-----		
	275 to 500	500		500	8700	16,000	26,000	50,000	77,000	9000	18,000	30,000	53,000	89,000
750		12,000	28,000		40,000	78,000	100,000	13,000	29,000	48,000	90,000	141,000		
900		15,000	34,000		52,000	92,000	-----	16,000	35,000	60,000	113,000	-----		
1000		17,000	39,000		60,000	100,000	-----	18,000	40,000	67,000	130,000	-----		
1500		26,000	59,000		72,000	-----	-----	27,000	60,000	82,000	-----	-----		

P630 PARTS

ITEM	DESCRIPTION	PART NUMBER
①	Nameplate	632-472-000
②	Drive Screw (4 required)	648-464-000
③	Adjusting Screw	see table 1
④	Hex Nut	634-000-056
⑤	Upper spring guide - Pressure range to 275 psig	626-077-000
	Upper spring guide - Over 275 psig	626-078-000
⑥	Bonnet - Iron	604-204-000
	Bonnet - Steel	604-205-000
⑦	Spring	see table 1
⑧	Screw	648-463-000
⑨	Lower spring guide - Up to 275 psig	637-304-000
	Lower spring guide - Over 275 psig	637-305-000
⑩	Diaphragm - Neoprene	618-068-000
	Diaphragm - Fluorocarbon (2 required)	618-068-001
⑪	Hex nut for the iron diaphragm housing (4 required)	634-000-112
⑫	Build Screw for the iron diaphragm housing (4 required)	648-463-003
	Build Screw for the steel diaphragm housing (4 required)	648-463-005
⑬	Connector piston assembly Aluminum trim	827-004-000
	Connector piston assembly Stainless Steel trim	827-004-001
⑭	Diaphragm housing - iron	629-199-000
	Diaphragm housing - steel	629-200-000
⑮	Lever Assembly	827-003-000
⑯	Pin	635-052-000
⑰	Gasket	624-056-000
⑱	Build screw (4 required) - 1" body	648-463-004
	Build screw (4 required) - 2" body	648-463-006
⑲	Inlet adapter - 1" NPT steel	679-036-000
	Inlet adapter - 2" NPT steel	679-037-000
⑳	Body - 1" NPT iron	805-308-001
	Body - 1" NPT steel	805-308-000
	Body - 2" NPT iron	664-277-000
	Body - 2" NPT steel	664-279-000
㉑	Body gaskets (2 required)	624-058-000
㉒	Orifice - 1/8"	688-010-000
	Orifice - 3/16"	688-010-001
	Orifice - 1/4"	688-010-002
	Orifice - 3/8"	688-010-003
	Orifice - 1/2"	688-010-004
㉓	Valve Disk Assembly - SS holder / nylon disk	822-018-000
	Valve Disk Assembly - SS holder / TFE disk	822-018-001
㉔	Valve Carrier	673-017-000
㉕	Build screw for diaphragm housing (2 required)	648-463-001
㉖	Vent protector assembly	836-004-000
㉗	Cap screws (Body to Housing) (not shown)	648-463-002



SPRING RANGE	ADJ. SCREW ③	RANGE SPRING ⑦	SPRING COLOR CODE
27-50 psig	648-462-002	655-659-000	Red Stripe
46-95 psig	648-462-001	655-659-001	Olive Drab
90-150 psig	648-462-000	655-659-002	Silver
150-200 psig	648-462-000	655-659-003	Green Strip
200-275 psig	648-462-000	655-659-004	Blue Stripe
275-500 psig	648-462-000	655-659-005	Yellow Strip

USA

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LT0630 3M 7/03

SALES & APPLICATIONS
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