

SERVING THE GAS INDUSTRY WORLDWIDE



Technical Bulletin

GAS PRESSURE REGULATOR SERIES 240PL



MODEL 240PL REGULATOR

Introduction, Characteristics, Constructions, Technical Data

Introduction

- The Model 240PL Regulator is a pilot-operated, constant-loaded regulator
- Use with confidence on natural and manufactured gases of non-aggressive nature, including nitrogen, carbon dioxide, propane, butane, etc.
- Versions available for special applications like indoor applications with no requirement for vent-line
- Fixed factor billing model available (PFM) for applications that require accuracy to +/- 1% absolute pressure
- Measurement Canada Approved
- Reduce expensive instrumentation on medium sized commercial/industrial installations with

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Characteristics

- Wide inlet pressure range 1-275 psi (0.07-19.0 bar)
- Maximum inlet pressure 275 psi (19.0 bar)
- Maximum allowable operating pressure 275 psi (19.0 bar) without incorporated integral safety slam-shut valve
- Maximum allowable operating pressure 150 psi (10.3 bar) with incorporated integral safety slam-shut valve
- Pilot-operated to accommodate changes in inlet pressure and accurate outlet pressure control, constant-loaded for superior accuracy
- Light closing spring for decrease lock-up percentage
- Outlet pressure range from 1.0 - 60.0 psi (0.07-4.1 bar) over 3 pilot spring ranges
- 3 different inlet/outlet thread types (NPT, BSPT, BSPP) in ¾", 1", 1¼" & 1½" screwed in-line (180°)
- 1" flanged connections (180°) in ANSI 150 RF/FF or PN 16 RF/FF. Flanged body material available in cast iron, ductile iron or cast steel
- Available with internal (I.C.L.) or external (E.C.L.) impulse
- Ease of maintenance due to interchangeable diaphragm casing cartridge
- Various integral safety slam-shut (SSV) models available for pressure shut off protection.
- Custom designed and pre-fabricated regulator meter set assemblies available

Available Constructions

- 240PL-309LP OPCO - pilot-loaded with integral over-pressure slam-shut device (over-pressure shut-off up to 8 psig)
- 240PL-309LP UPCO/OPCO - pilot-loaded with integral under and over-pressure slam-shut device (over-pressure shut-off up to 8 psig)
- 240PL-309LP2 OPCO - pilot-loaded with integral over-pressure slam-shut device (over-pressure shut-off up to 22 psig)
- 240PL-309LP2 UPCO/OPCO - pilot-loaded with integral under and over-pressure slam-shut device (over-pressure shut-off up to 22 psig)
- 240PL-309LP4 OPCO - pilot-loaded with integral over-pressure slam-shut device (over-pressure shut-off up to 66 psig)
- 240PL-309LP4 UPCO/OPCO - pilot-loaded with integral under and over-pressure slam-shut device (over-pressure shut-off up to 66 psig)
- 240PL-309LP t OPCO - pilot-loaded with integral over-pressure slam-shut device with thermal (temperature) shut-off protection (over-pressure shut-off up to 6 psig)
- 240PL-309LP t UPCO/OPCO - pilot-loaded with integral under and over-pressure slam-shut device with thermal (temperature) shut-off protection (over-pressure shut-off up to 6 psig)
- 240PL-309LP2 t OPCO - pilot-loaded with integral over-pressure slam-shut device with thermal (temperature) shut-off protection (over-pressure shut-off up to 12 psig)
- 240PL-309LP2 t UPCO/OPCO - pilot-loaded with integral under and over-pressure slam-shut device with thermal (temperature) shut-off protection (over-pressure shut-off up to 12 psig)

PRESSURE RATINGS		
Maximum Inlet Pressure	12.5mm Orifice with SSV	12.5mm Orifice without SSV
Maximum Allowable Operating Pressure	150 psi (10.3 bar)	275 psi (19.0 bar)

Temperature Rating

- 40° to 60° Celsius
- 40° to 120° Fahrenheit

Weights

- with screwed body (¾", 1") - 7.0 lb. (2.8 kg)
- with screwed body (1¼", 1½") - 8.5 lb. (3.9 kg)
- with flanged body - 11.0 lb. (4.4 kg)
- with 309LP SSV - add 2.2 lb. (0.9 kg)
- with 309LP2 SSV - add 2.5 lb. (1.0 kg)
- with 309LP4 SSV - add 8.0 lb. (3.2 kg)
- with 309 T-type SSV - add 5.0 lb. (2.2 kg)

MATERIALS OF CONSTRUCTION	
Screwed Body Casting	Cast Iron or Ductile Iron
Flanged Body Casting	Cast Iron, Ductile Iron or Cast Steel
Diaphragm Casings	Die Cast Aluminum
Diaphragm	Molded Nitrile Rubber with Nylon Reinforcing
Valve Head (Seat)	Polyurethane
Diaphragm Plates	Steel
Orifice (regulator without SSV)	Aluminum
Orifice (regulator with SSV)	Brass or Stainless Steel (t-type)
Vent Screen	Stainless Steel
Fasteners	Steel
Top Cap	Aluminum
Springs	Steel
Lever	Steel
Pilot Regulator Diaphragm Casings	Machined Aluminum
Pilot Regulator Body	Machined Aluminum
Pilot Supply Line	Copper or Stainless Steel (optional)
Pilot Valve Seat	Nitrile

MODEL 240PL REGULATOR

Spring Ranges, Relief Valve Ranges, Correction Factors

OUTLET PRESSURE RANGES		
Range (imperial)	Range (metric)	Spring Number (Colour)
1.0 - 5.0 psi	70 - 350 mbar	1047 (purple)
3.0 - 30.0 psi	0.21 - 2.1 bar	TX/002 (silver)
30.0 - 60.0 psi	2.1 - 6.1 bar	TX/003 (blue)

It is recommended that for high inlet pressures, higher outlet pressure set points or higher range flow capacity requirements, the regulator be ordered or converted to E.C.L. (external impulse) where a control line is sensing downstream pressure more than 5x pipe diameter.

Note for regulators with SD-type diaphragm assemblies

- the vent-less option comes from the vent fitting located in the pilot regulator vent and the top cap of the safety slam-shut valve

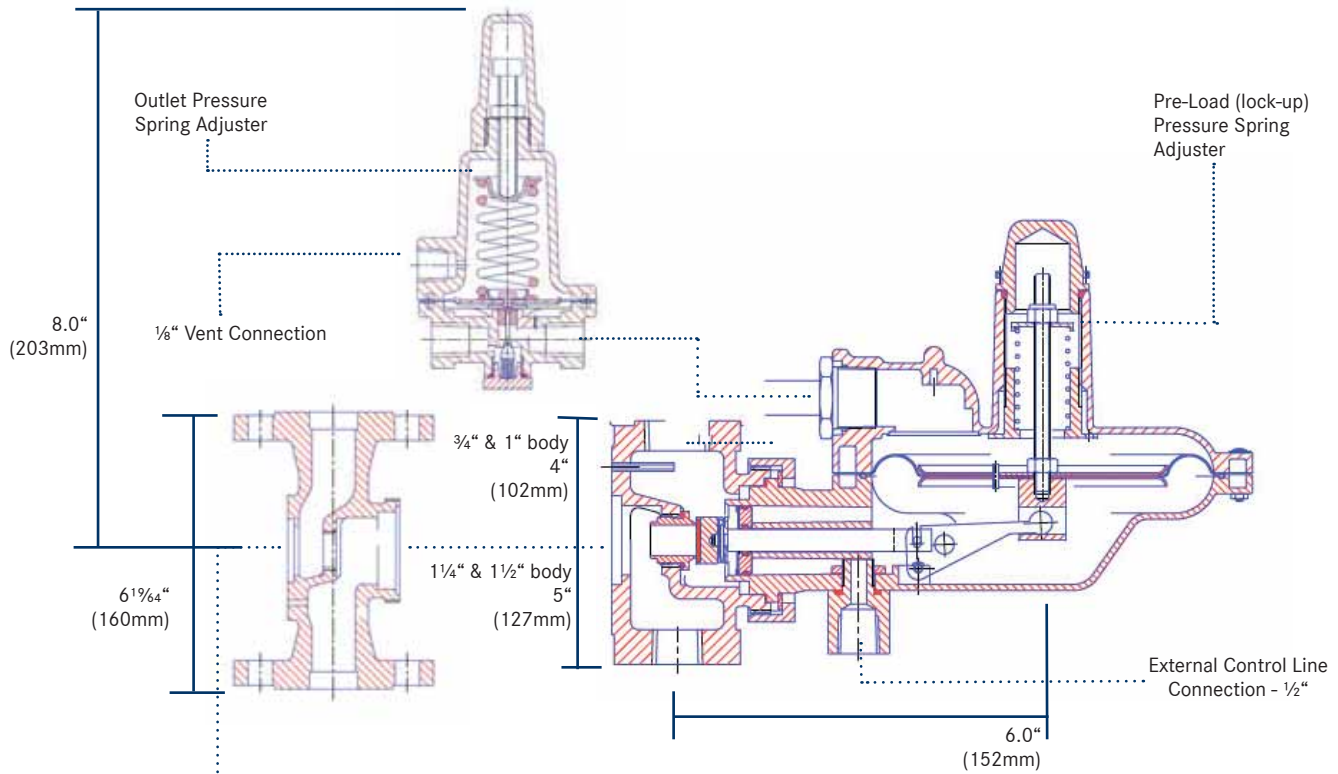
CORRECTION FACTORS FOR OTHER GASES		
Gas Type	Specific Gravity	Correction Factor (CF)
Air	1.00	0.77
Butane	2.01	0.55
Carbon Dioxide (Dry)	1.52	0.63
Carbon Monoxide (Dry)	0.97	0.79
Natural Gas	0.60	1.00
Nitrogen	0.97	0.79
Propane	1.53	0.63
Propane-Air Mix	1.20	0.71

For Other Conversion Factors

$$C_f = \sqrt{\frac{0.6}{\text{SG of Gas}}}$$

MODEL 240PL REGULATOR

Dimensional Data, Sectional View, SSV Reset, ECL Connection, Spring Adjustment

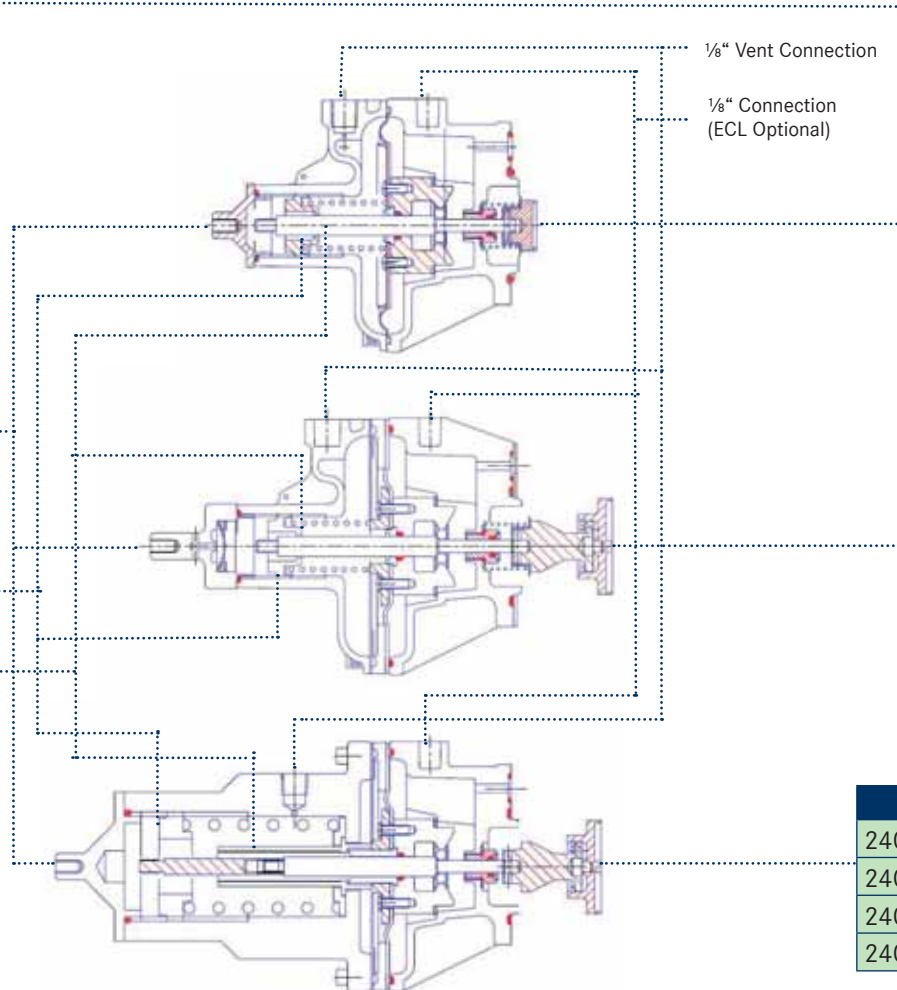


TO RESET VALVE
 - remove fitting
 - reverse & thread on spindle
 - pull back to reset



Over Pressure Shut-off Spring Adjustment

Under Pressure Shut-off Spring Adjustment

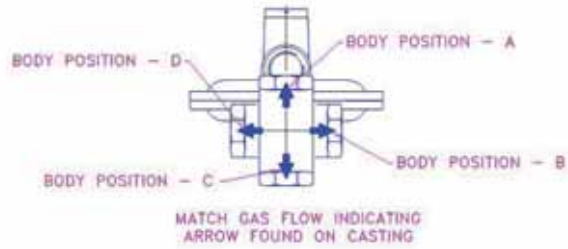
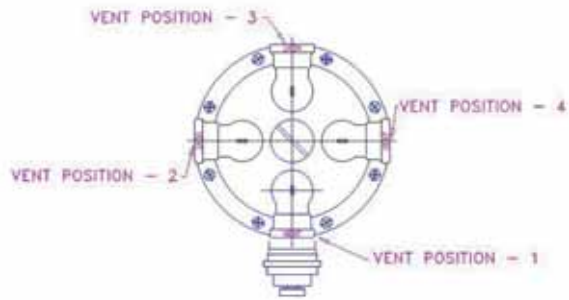


OVERALL LENGTH	
240PL	13.0" (330mm)
240PL-309LP	16.5" (419mm)
240PL-309LP2	17.0" (432mm)
240PL-309LP4	20.0" (508mm)

MODEL 240PL REGULATOR

Orientation, Approvals, Vent-Less Indoor Regulator

Body/Vent Orientation



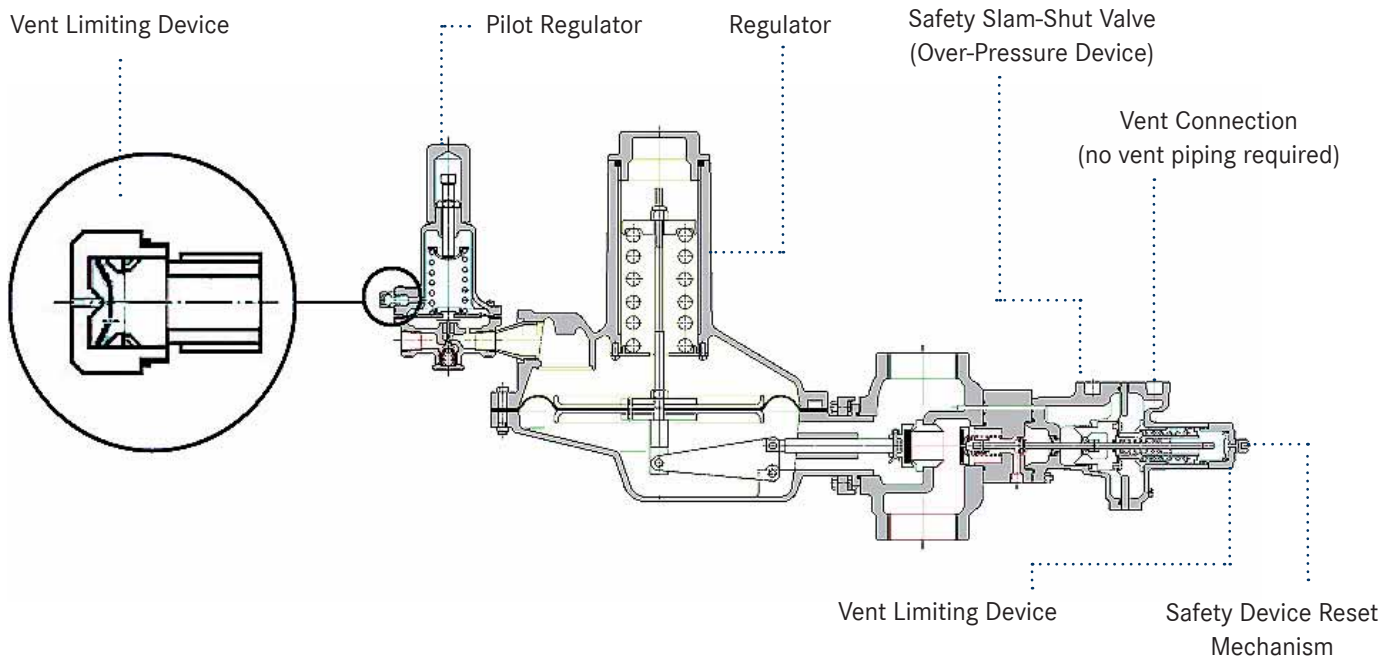
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Agency Approvals

- Measurement Canada Approved (P.F.M. applications)

Indoor „Vent-Less“ Regulator

- Regulator assembly incorporates a regulator with integral over-pressure safety slam-shut device (OPCO)
- Regulator does not incorporate an internal relief valve (IRV)
- Both regulator and integral slam-shut device have internal vent-limiting devices to limit the gas expelled from the valve upon diaphragm failure to below 1 ft³/hr (0.0283 m³/hr)
- If there is an over-pressure condition above a pre-determined level downstream of the regulator assembly, the slam-shut device (OPCO) will completely shut-off the gas flow.
- The valve must be manually reset after an over-pressure shut-off condition
- The pilot regulator and slam-shut device have vent connections. These are for atmospheric reference and do not require a vent line connection to the outside
- Vent lines will actually restrict the performance of the regulator
- REFER TO TECHNICAL BOOKLET - CERTIFIED LINE PRESSURE REGULATORS FOR MORE INFORMATION



MODEL 240PL REGULATOR

Performance Capacities

Spring (Spring Range)	Outlet Pressure	Inlet Pressure		Orifice Diameter		Outlet Pressure	Inlet Pressure		Orifice Diameter		Outlet Pressure	Inlet Pressure		Orifice Diameter	
		psi	bar	12.5mm			psi	bar	12.5mm			psi	bar	12.5mm	
Spring 1047 (range 1.0 - 5.0 psi) (range 70 - 350 mbar)	SET POINT 2 psi (140 mbar)	10	0.700	2,300	(65.2)	SET POINT 2 psi (140 mbar)	10	0.700	1,600	(45.3)	SET POINT 2 psi (140 mbar)	10	0.700	1,400	(39.7)
		15	1.0	3,300	(93.5)		15	1.0	2,300	(65.2)		15	1.0	2,000	(56.7)
		30	2.0	4,200	(119.0)		30	2.0	3,000	(85.0)		30	2.0	2,500	(70.8)
	DROOP/ BOOST 11" wc 28 mbar	45	3.0	4,200	(119.0)	DROOP/ BOOST 3" wc 7.5 mbar	45	3.0	3,000	(85.0)	DROOP/ BOOST 1.5" wc 4 mbar	45	3.0	2,500	(70.8)
		60	4.1	4,600	(130.3)		60	4.1	3,250	(92.1)		60	4.1	2,800	(79.3)
		90	6.2	2,300	(65.2)		90	6.2	1,650	(46.7)		90	6.2	1,400	(39.7)
	Accuracy Class 20%	150	10.3	3,300	(93.5)	Accuracy Class 10%	150	10.3	2,300	(61.2)	Accuracy Class 5%	150	10.3	2,000	(56.7)
		225	15.5	n/a	n/a		225	15.5	n/a	n/a		225	15.5	n/a	n/a
		275	19.0	n/a	n/a		275	19.0	n/a	n/a		275	19.0	n/a	n/a

Spring (Spring Range)	Outlet Pressure	Inlet Pressure		Orifice Diameter		Outlet Pressure	Inlet Pressure		Orifice Diameter		Outlet Pressure	Inlet Pressure		Orifice Diameter	
		psi	bar	12.5mm			psi	bar	12.5mm			psi	bar	12.5mm	
Spring TX/002 (range 3.0 - 30.0 psi) (range 0.21 - 2.1 bar)	SET POINT 5 psi (350 mbar)	10	0.700	2,100	(59.5)	SET POINT 2 psi (140 mbar)	10	0.700	1,500	(42.5)	SET POINT 2 psi (140 mbar)	10	0.700	1,250	(35.4)
		15	1.0	2,800	(79.3)		15	1.0	2,000	(56.7)		15	1.0	1,700	(48.2)
		30	2.0	5,100	(144.5)		30	2.0	3,600	(102.0)		30	2.0	3,050	(86.4)
	DROOP/ BOOST 28" wc 70 mbar	45	3.0	6,000	(167.0)	DROOP/ BOOST 3" wc 7.5 mbar	45	3.0	4,200	(119.0)	DROOP/ BOOST 1.5" wc 4 mbar	45	3.0	3,600	(102.0)
		60	4.1	6,000	(167.0)		60	4.1	4,200	(119.0)		60	4.1	3,600	(102.0)
		90	6.2	6,000	(167.0)		90	6.2	4,200	(119.0)		90	6.2	3,600	(102.0)
	Accuracy Class 20%	150	10.3	4,200	(119.0)	Accuracy Class 10%	150	10.3	2,950	(83.6)	Accuracy Class 5%	150	10.3	2,500	(70.8)
		225	15.5	4,200	(119.0)		225	15.5	2,950	(83.6)		225	15.5	2,500	(70.8)
		275	19.0	n/a	n/a		275	19.0	n/a	n/a		275	19.0	n/a	n/a

Spring (Spring Range)	Outlet Pressure	Inlet Pressure		Orifice Diameter		Outlet Pressure	Inlet Pressure		Orifice Diameter		Outlet Pressure	Inlet Pressure		Orifice Diameter	
		psi	bar	12.5mm			psi	bar	12.5mm			psi	bar	12.5mm	
Spring TX/002 (range 3.0 - 30.0 psi) (range 0.21 - 2.1 bar)	SET POINT 15 psi (1.0 bar)	30	2.0	5,100	(144.5)	SET POINT 15 psi (1.0 bar)	30	2.0	3,600	(102.0)	SET POINT 15 psi (1.0 bar)	30	2.0	3,100	(87.8)
		45	3.0	7,500	(212.5)		45	3.0	5,250	(148.7)		45	3.0	4,500	(127.5)
		60	4.1	11,100	(314.5)		60	4.1	7,750	(219.5)		60	4.1	6,750	(191.2)
	DROOP/ BOOST 3 psi 210 mbar	90	6.2	14,700	(416.4)	DROOP/ BOOST 1.5 psi 105 bar	90	6.2	10,300	(291.8)	DROOP/ BOOST 21" wc 52 mbar	90	6.2	8,800	(249.3)
		150	10.3	17,600	(498.6)		150	10.3	12,300	(348.4)		150	10.3	10,500	(297.4)
		225	15.5	13,000	(368.3)		225	15.5	9,100	(257.8)		225	15.5	7,800	(221.0)
	Accuracy Class 20%	275	19.0	n/a	n/a	Accuracy Class 10%	275	19.0	n/a	n/a	Accuracy Class 5%	275	19.0	n/a	n/a

Spring (Spring Range)	Outlet Pressure	Inlet Pressure		Orifice Diameter		Outlet Pressure	Inlet Pressure		Orifice Diameter		Outlet Pressure	Inlet Pressure		Orifice Diameter	
		psi	bar	12.5mm			psi	bar	12.5mm			psi	bar	12.5mm	
Spring TX/002 (range 3.0 - 30.0 psi) (range 0.21 - 2.1 bar)	SET POINT 30 psi (2.1 bar)	30	2.0	n/a	n/a	SET POINT 30 psi (2.1 bar)	30	2.0	n/a	n/a	SET POINT 30 psi (2.1 bar)	30	2.0	n/a	n/a
		45	3.0	5,100	(144.5)		45	3.0	3,600	(102.0)		45	3.0	3,100	(87.8)
	DROOP/ BOOST 6 psi 420 mbar	60	4.1	9,200	(260.6)	DROOP/ BOOST 3 psi 210 mbar	60	4.1	6,500	(184.1)	DROOP/ BOOST 1.5 psi 105 mbar	60	4.1	3,900	(110.5)
		90	6.2	13,800	(390.9)		90	6.2	9,750	(276.2)		90	6.2	8,300	(235.1)
		150	10.3	23,900	(677.1)		150	10.3	16,750	(474.5)		150	10.3	14,400	(407.9)
	Accuracy Class 20%	225	15.5	27,600	(781.9)	Accuracy Class 10%	225	15.5	19,250	(545.3)	Accuracy Class 5%	225	15.5	16,500	(467.4)
		275	19.0	n/a	n/a		275	19.0	n/a	n/a		275	19.0	n/a	n/a

MODEL 240PL REGULATOR

Performance Capacities

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Spring (Spring Range)	Outlet Pressure	Inlet Pressure		Orifice Diameter		Outlet Pressure	Inlet Pressure		Orifice Diameter		Outlet Pressure	Inlet Pressure		Orifice Diameter	
		psi	bar	12.5mm			psi	bar	12.5mm			psi	bar	12.5mm	
Spring TX/003 (range 30.0 - 60.0 psi) (range 2.1 - 4.1 bar)	SET POINT 45 psi (3.1 bar)	30	2.0	n/a	n/a	SET POINT 45 psi (3.1 bar)	30	2.0	n/a	n/a	SET POINT 45 psi (3.1 bar)	30	2.0	n/a	n/a
		45	3.0	5,100	(144.5)		45	3.0	3,550	(100.6)		45	3.0	3,000	(85.0)
	DROOP/ BOOST 9 psi 420 mbar	60	4.1	9,200	(260.6)	DROOP/ BOOST 4.5 psi 315 mbar	60	4.1	6,500	(184.1)	DROOP/ BOOST 2.2 psi 154 mbar	60	4.1	5,500	(155.8)
		90	6.2	13,800	(390.9)		90	6.2	9,650	(273.4)		90	6.2	8,250	(233.7)
		150	10.3	23,900	(677.1)		150	10.3	16,700	(473.1)		150	10.3	14,300	(405.1)
	Accuracy Class 20%	225	15.5	27,600	(781.9)	Accuracy Class 10%	225	15.5	19,300	(546.7)	Accuracy Class 5%	225	15.5	16,500	(467.4)
		275	19.0	n/a	n/a		275	19.0	n/a	n/a		275	19.0	n/a	n/a

Spring (Spring Range)	Outlet Pressure	Inlet Pressure		Orifice Diameter		Outlet Pressure	Inlet Pressure		Orifice Diameter		Outlet Pressure	Inlet Pressure		Orifice Diameter	
		psi	bar	12.5mm			psi	bar	12.5mm			psi	bar	12.5mm	
Spring TX/003 (range 30.0 - 60.0 psi) (range 2.1 - 4.1 bar)	SET POINT 60 psi (4.1 bar)	30	2.0	n/a	n/a	SET POINT 60 psi (4.1 bar)	30	2.0	n/a	n/a	SET POINT 60 psi (4.1 bar)	30	2.0	n/a	n/a
		45	3.0	n/a	n/a		45	3.0	n/a	n/a		45	3.0	n/a	n/a
	DROOP/ BOOST 12 psi 0.8 bar	60	4.1	n/a	n/a	DROOP/ BOOST 6 psi 540 bar	60	4.1	n/a	n/a	DROOP/ BOOST 3 psi 270 bar	60	4.1	n/a	n/a
		90	6.2	9,200	(260.6)		90	6.2	6,400	(181.3)		90	6.2	5,500	(155.8)
		150	10.3	23,000	(651.6)		150	10.3	16,100	(456.1)		150	10.3	13,800	(390.9)
	Accuracy Class 20%	225	15.5	23,000	(651.6)	Accuracy Class 10%	225	15.5	16,100	(456.1)	Accuracy Class 5%	225	15.5	13,800	(390.9)
		275	19.0	30,000	(849.9)		275	19.0	21,000	(594.9)		275	19.0	18,000	(509.9)

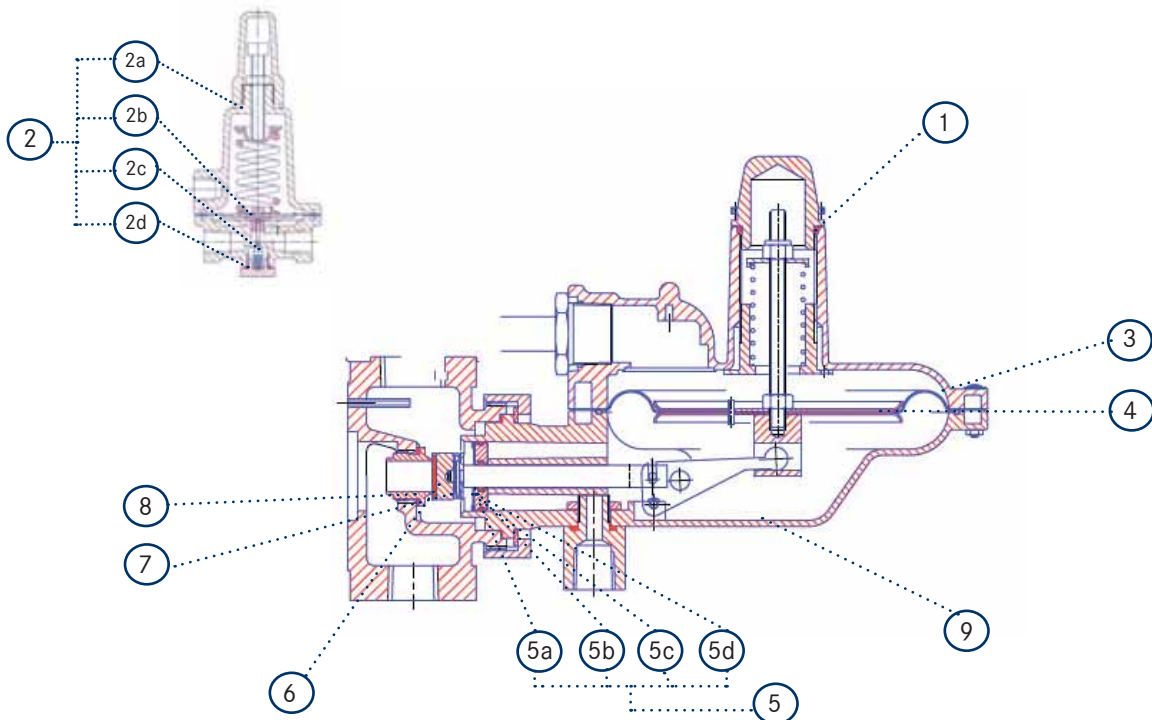
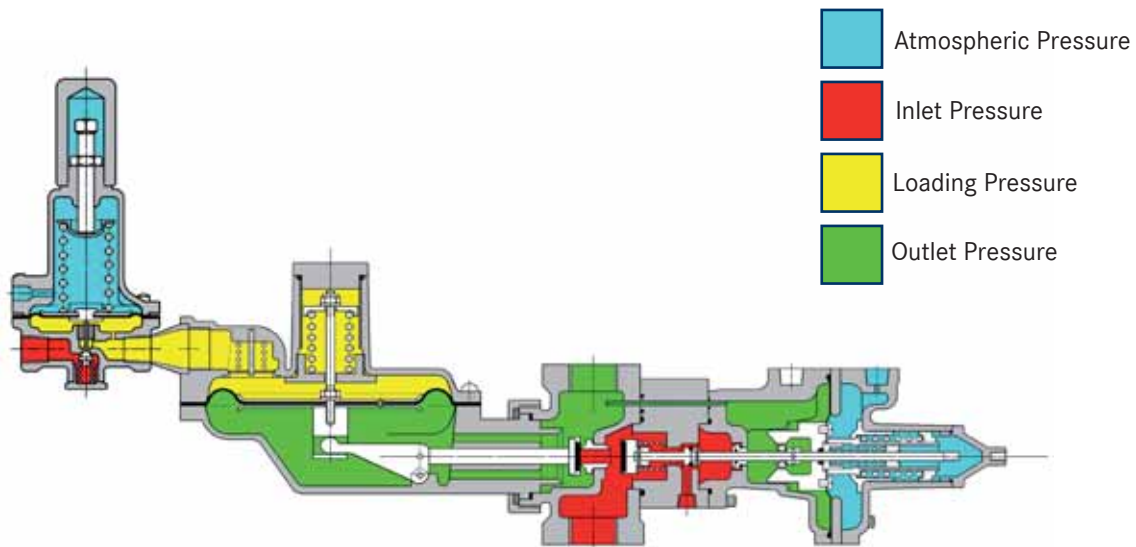
Pressure Factor Metering (+/- 1% Absolute Pressure) Measurement Canada Approved - AG-0476

Outlet Pressure	Inlet Pressure		Flow Capacity	
	psi	bar	12.5mm	
2.0 psi (150 mbar)	30	2.1	2,000	(55.0)
	60	4.1	2,200	(60.0)
5.0 psi (350 mbar)	30	2.1	3,000	(85.0)
	60	4.1	3,200	(90.0)
10.0 psi (750 mbar)	30	2.1	3,600	(100.0)
	60	4.1	4,600	(130.0)
20 psi (1.3 bar)	30	2.1	4,800	(135.0)
	60	4.1	9,200	(260.0)
30.0 psi (2.0 bar)	60	4.1	12,500	(350.0)

ft³/hr
(m³/hr)

MODEL 240PL REGULATOR

Performance Capacities



SPARES KIT FOR MODEL 240PL REGULATOR - CSK 0616 (INCLUDES MODEL 600 PILOT REGULATOR SPARES KIT)

Bullet	Description	Part Number
1	O-Ring	BS/USA 120
2	Spares Kit for Model 600 Pilot	CSK 1921
2a	O-Ring	BS/USA 113
2b	O-Ring	BS/USA 013
2c	Valve	TN-003
2d	Diaphragm Assembly	TJ-005
3	Diaphragm	200/LJ/053
4	Diaphragm Plates (x2)	204/XH/050
9	O-Ring (E.C.L.)	BS/USA 129

SPARES KIT FOR MODEL 240PL REGULATOR - CSK 0616 (INCLUDES MODEL 600 PILOT REGULATOR SPARES KIT)

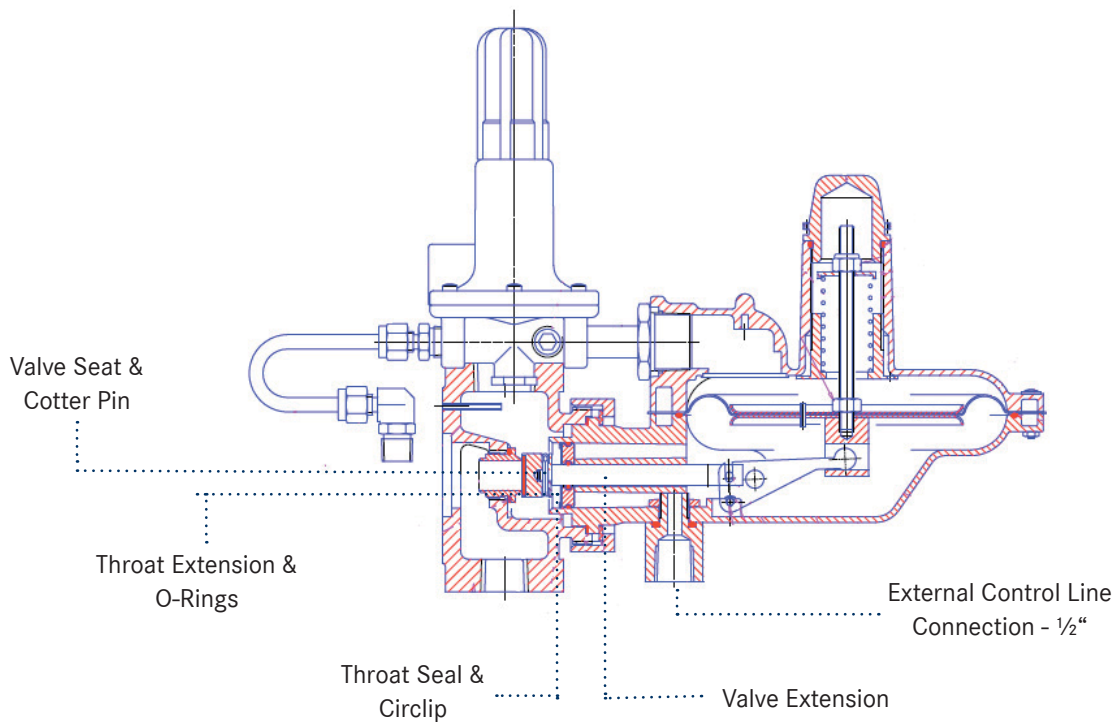
Bullet	Description	Part Number
5	Throat Seal Assembly	MN-006
5a	Sealing Bush	200/LG/005
5b	Push-In Fastener	5005-112
5c	O-Ring	BS/USA 8.5x2
5d	O-Ring	BS/USA 022
6a	Valve Assembly (3/4" & 1")	200/LN-006
6b	Valve Seat (1 1/4" & 1 1/2")	200/LN/046
7	Cotter Pin	2mm x 25mm
8	O-Ring	0176-24

MODEL 240PL REGULATOR

Internal to External Impulse Conversion (E.C.L.)

External Control Line (E.C.L.)

- The standard regulator is supplied as internally impused or internal control line (I.C.L.) unless specified
 - Sensing outlet pressure via an external control line enables the regulator to respond more accurately to the downstream system.
 - Additionally, the standard regulator is supplied with both bosses drilled and tapped on the underside of the diaphragm casing. These bosses will be plugged with a removeable brass fitting.
- To modify to E.C.L., loosen union nut that secures the diaphragm casing to the regulator body. Remove the throat extension and o-rings. Ensure that the o-rings and the throat extension are kept away from debris
- Remove the valve seat by taking out the cotter pin that secures it to the valve extension.
 - Secure the throat seal down the valve extension, ensuring that it bottoms out against the diaphragm casing. Secure with the circlip.
 - Replace the valve seat and new cotter pin. Replace throat extension and o-rings.
 - Bolt body back to the diaphragm casing with the 4 original bolts.
 - Remove one of the brass fittings from the bottom of the diaphragm casing.
 - Connect ½" compression fitting and external control line to this boss.
 - The sensing point at the termination of the control line should be a minimum of 5 times the nominal pipe diameter at the outlet of the regulator.



PARTS REQUIRED FOR I.C.L. TO E.C.L. CONVERSION

Bullet	Description	Part Number
1	Throat Seal Assembly (includes:)	MN-006
	- Seal Disc	200/LG/005
	- O-ring	BS/USA 8.5x2
	- O-ring	BD/USA 022
2	Retaining Clip	5005-112
3	Cotter Pin for Valve Seat	2mm x 25mm

MODEL 240PL REGULATOR

Part Numbering System

RMG 240 C 3 H N C I X 3 B X Q M

INTERNAL RELIEF	
C	pilot-loaded

OPCO TYPE	
2	309LP OPCO
3	309LP UPKO/OPCO
4	309LP2 OPCO
5	309LP2 UPKO/OPCO
6	309LP4 OPCO
7	309LP4 UPKO/OPCO

CONNECTIONS SIZE	
F	3/4" x 3/4"
G	1" x 1"
H	1 1/4" x 1 1/4"
K	1 1/2" x 1 1/2"

CONNECTION TYPE	
N	NPT
B	BSPT
P	BSPP
6	PN16RF
7	PN16FF
1	ANSI150RF
2	ANSI150FF

MATERIAL	
C	Cast Iron
D	Ductile Iron
S	Cast Steel

IMPULSE	
I	Internal
E	External

OPTIONAL FEATURES	
U	Union Connection
I	Test Point on Inlet
O	Test Point on Outlet
E	Casting Engraving
B	Test Point on both Inlet & Outlet
P	P.F.M. Pressure Factor Metering
F	Inlet Filter Strainer
Z	Blanking Plate
R	Stainless Steel Pilot Supply Line

BODY/VENT ORIENTATION	
B1	E
D1	M

ORIFICE DIAMETER	
12.5mm	Q

UPKO SPRING	
1138	A
638	B
IA/006	D

OPCO SPRING	
861	A
1171	F
1172	G
1173	H
1174	I
1175	J
1254	C
1030	K
1031	L
1032	M
1033	N

PILOT SPRING	
1047	6
TX/002	2
TX/003	3



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