

FlowMax™ 2" Regulator NPT Flanged CL

The **Mooney™** FlowMax 2" Single Port regulator is an economical and easy-to-maintain pilot loading type regulator specifically designed for low differential pressure applications. It is designed to be used in conjunction with a self-contained pilot control system to provide exceptional pressure control.

Specifications

Size	2" (DN 50)
Body Style	Single port
End Connections	NPT 150 FF, 150 RF
Temperature Working	-20°F to 150°F (-29°C to 66°C)
Emergency	-40°F to 175°F (-40°C to 79°C)
Max. Operating Differential	250 psi (17 bar)
Min. Operating Differential	3 psid (0.21 bar)
Max. Inlet Pressure	250 psig ¹ (17 bar)
Outlet Pressure Range Series 20L	5" w.c. to 8 psi (0.01 bar to 0.55 bar)
Series 20	3 psi to 248 psi (0.21 bar to 17 bar)
Pilot Supply Body Tap	One 1/4" - 18 NPT
Sense Line Tap	One 1/2" - 14 NPT

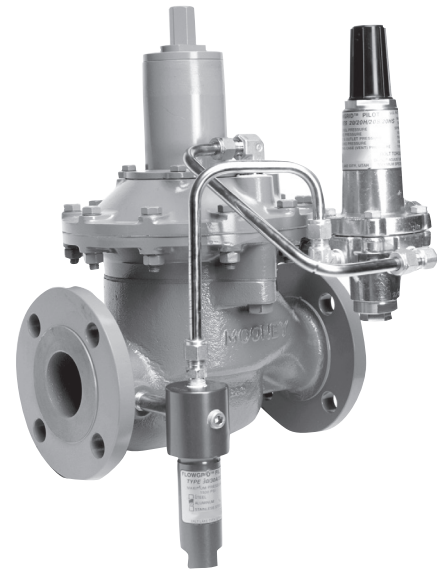
1. Limited by pilot or flange rating.

Materials of Construction

Body	ASTM A 395 Ductile Iron
Actuator Housing	A 356-T6 Cast Aluminum
Spring Case	A 356-T6 Cast Aluminum
Plug	Nitrile
Diaphragm	Nitrile/Nylon
O-Ring & Seals	Nitrile
Bolting	ASTM B8 or equal
Spring	Music wire

Overpressure Protection

The Mooney FlowMax regulator has a full ASME rating of 250 psi (17 bar) on both the inlet and outlet connections as well as the actuator housing assembly. Overpressure protection is required only if the pressure can exceed the flange or body rating.



FlowMax 2" Low Differential Regulator with Series 20 Pilot and Type 30 Filter

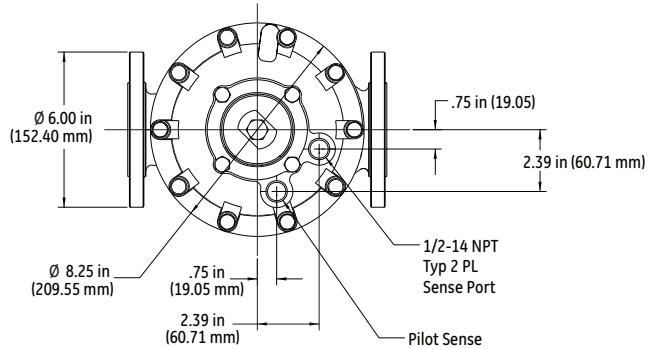
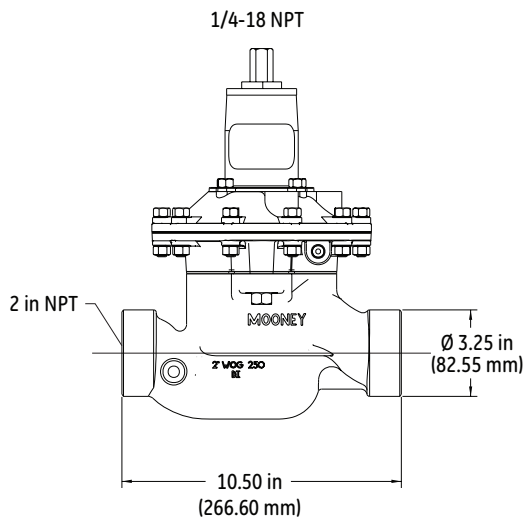
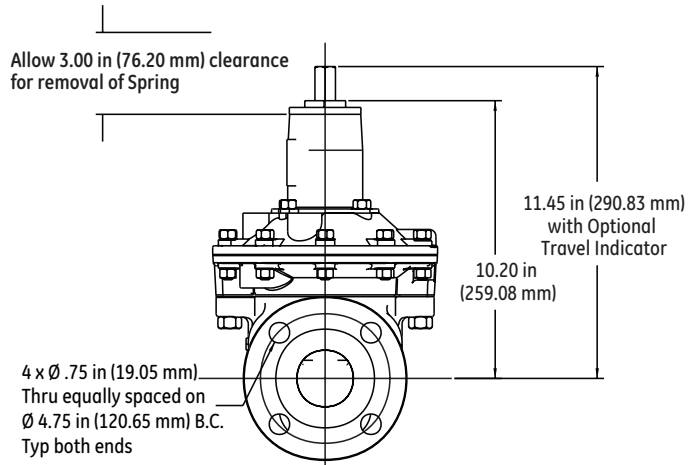
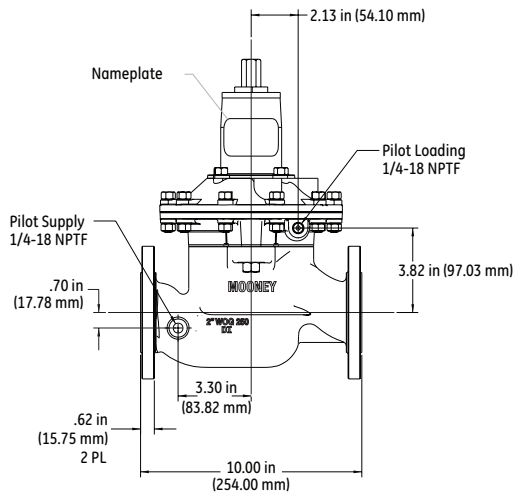
The pilots, like most regulators, may have an outlet pressure rating lower than the inlet pressure rating. If this is the case, then some external form of over pressure protection must be provided for the pilot.

Anytime the FlowMax regulator or pilot system is exposed to pressures in excess of its rating, it should be inspected for damage.

Stock Numbers

FlowMax 2" Regulator	Stock Number	Weight
150 CL RF Flanged	FM-1	36 lbs. (16 kg)
2" NPT	FM-2	31 lbs. (14 kg)
150 CL FF Flanged	FM-3	36 lbs. (16 kg)

Dimensions



Flow Coefficients and Constants

FlowMax 2" Single Port Regulator			
Percent Capacity	C _v	C ₁	C _g
100%	64	35	2250
75%	47 ¹	34	1650
50%	34 ¹	32	1200
25%	17 ¹	28	600

1. Estimate.