

SUBMITTAL

Manufacturer: Itron
(formerly Actaris / Schlumberger)
Model: CL231

As Specified	
Capacity Required	
Inlet /Outlet Pres.	
Overpres. Limits	

As Submitted	
Capacity	
Droop	
Build-up	

Options Designations:

CL231-R: Internal Relief
CL31-N: No Internal Relief

Specifications:

Pilot Spring	Outlet Pressure Range
Orange	1.0 – 1.6 psig
Brown	1.6 – 2.6 psig
Green	3.5 – 7.4 psig
S Black	3.8 – 13.3 psig
Blue	4.6 – 21.5 psig
Blue (N)	1.0 – 20 psig

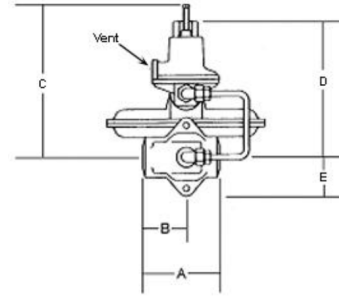
Orifice	MAOP PSIG delivery
1/4"	125
S 3/8"	75
1/2"	50

	Inlet	Outlet
	1-1/4"	1-1/4"
	1-1/4"	1-1/2"
	1-1/4"	2"
	1-1/2"	1-1/2"
	2-1/2"	2"
S	2" (NPT or Flanged)	2" (NPT or Flanged)
	3" (Flanged)	3" (Flanged)

Assembly:

Valve Body	High Tensile Strength Cast Iron
Orifice:	Brass (Aluminum available)
Valve Seat:	Buna-N or silicone
Valve Stem:	Plated Steel
Lever:	Zinc & dichromate plated steel
Upper Diaphr Plate	Zinc & dichromate plated steel
Lower Diaph. Plate	Die cast aluminum
Diaphragm	Buna N & nylon reinforcing mtl.
Pilot Vent Screen	Stainless Steel

Dimensions:



	A	B	C	D	E
NPT	5-3/4	2-7/8	8	6-1/2	2
Flanged	10	5	8	6-1/2	2

General Note on installation: The regulator includes a pilot regulator to control outlet pressure. The pilot regulator feeds necessary pressure on top of the diaphragm. The pilot regulator has a small vent with a stainless steel vent screen. On outside installations, the pilot regulator should be oriented with the vent pointing down to keep water or ice from entering the vent. If the pilot regulator is installed with the vent pointing up or to the side, the vent screen should be removed and an elbow (or elbows) should be installed to position the vent correctly. If installed inside, the pilot vent must be piped to a safe outside location in accordance with NFPA 54 recommendations and/or local codes.

Typical Capacity:

Note: Capacity will change as a function of the orifice size, inlet pressure & outlet pressure setting. The capacity tables below are for a typical configuration: 2" NPT CL231 Regulator, with 3/8" orifice. Smaller orifices may have less capacity. Outlet pipe size and length may also reduce flow. Consult complete brochure for capacities and relief curves of other configurations.

Inlet	Capacity as a Function of Set Point in SCFH				
	1 PSIG	2 PSIG	5 PSIG	10 PSIG	15 PSIG
2 PSIG	675				
5 PSIG	1650	1550			
10 PSIG	2700	2700	2100		
20 PSIG	4300	4300	4100	3450	1650



Capacities expressed for 0.6 s.g. nat. gas
S- Denotes standard stock configuration