

SUBMITTAL

Manufacturer: Itron
(formerly Actaris / Schlumberger)
Model: CL31

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

As Submitted	
Capacity	
Droop	
Build-up	

Options Designations:

CL31-R: Internal Relief CL31-M: Monitor
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CL31-IM: Internal Monitor CL31-IMV: IM with vent hole
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Specifications:

	Pilot Spring	Orange Main Spring
	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 (MN & N)	1.0 – 20 psig

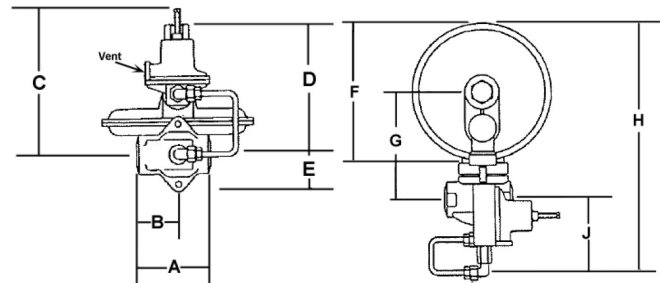
	Orifice	MAOP
		PSIG delivery
	1/8"	125
S	3/16"	125
	1/4"	125
	3/8"	60

Connections (NPT)	
Inlet	Outlet
3/4"	3/4"
3/4"	1" or 1-1/4"
1"	1"
1"	1-1/4"
1-1/4"	1-1/4"

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 Diaphr. Plate	Die cast aluminum
Diaphragm	Buna N & nylon reinforcing mtl.
Pilot Vent Screen	Stainless Steel

Dimensions:



	A	B	C	D	E	F	G	H	J
3/4 & 1"	3-3/4	2-1/8	8	6-1/2	2	7-13/16	5-13/16	13	3
1-1/4"	4	2-1/8	8	6-1/2	2	7-13/16	5-13/16	13	3

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: 1-1/4" CL31 Regulator, with 3/16" orifice. IM models and 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	300				
5 PSIG	550	500			
10 PSIG	825	825	625		
20 PSIG	1275	1275	1200	1075	825

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



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