

# SUBMITTAL

**Manufacturer:** Itron  
(formerly Actaris / Schlumberger)  
**Model:** CL838

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

As Submitted	
Capacity	
Droop	
Build-up	

## Options Designations:

-1: For 6"wc to 5 psig outlet
-2: For 1-30 psig outlet

<b>CL838:</b> Internal Registration <b>CL838-M:</b> Monitor
--

<b>CL838-IM:</b> Internal Monitor <b>CL838-IMV:</b> IM with vent hole
--

## Specifications:

	Pilot Spring	Orange Main Spring
1	Green/White	5.6 – 8.1" w.c.
1	Blue/White	8.2 – 16.6" w.c.
1	Dark Green	13.3 – 18.2 w.c.
1	Silver/White	0.75 – 1.5 psig
1	Yellow/White	1.8 – 2.7 psig
2	Brown	0.8 – 2.7 psig
2	Green	1.5 – 9.5 psig
2	Black	5 – 14.8 psig
2	Blue	9 - 29 psig
2	Silver	25 - 30 psig

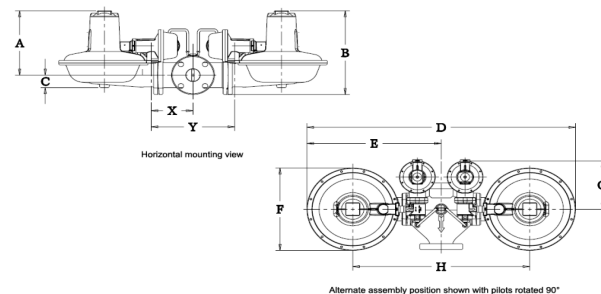
Orifice	MAOP
	PSIG delivery
3/8"	125
1/2"	125
5/8"	125
3/4"	125
1"	10
1-1/4"	75
1-3/8"	75

Connections (NPT or Flanged)	
Inlet	Outlet
2" SCR	2" SCR
2" FL	2" FL
2" FL	3" FL
2" FL	4" FL

## Assembly:

Valve Body	High Tensile Strength Cast Iron
Orifice:	Aluminum
Valve Seat:	Buna-N
Valve Stem:	Nylon
Lever:	Zinc & dichromate plated steel
Upper Diaphr Plate	Zinc & dichromate plated steel
Lower Diaphr. Plate	Die cast aluminum
Diaphragm	Buna N reinforcing mtl.
Vent Screen	Stainless Steel

## Dimensions:



	A	B	C	D	E	F	G	H	X	Y
1 1/2"; 2", or 3"	9-5/8"	13"	2-3/16"	37-3/4"	18-7/8"	12-3/4"	7-3/8"	25"	6-1/2"	13"

**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" CL838 Regulator, with 1-3/8" 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.

Capacity as a Function of Set Point in MSCFH					
Inlet	7" w.c.	1 PSIG	2 PSIG	5 PSIG	10 PSIG
2 PSIG	11.7	9.3			
5 PSIG	18.8	17.7	15.9		
10 PSIG	26.7	26.3	25.6	22.2	
20 PSIG	38.3	38.3	38.3	38.0	34.9



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

v.3