

SUBMITTAL

v.4

Manufacturer: Itron
(formerly Actaris / Schlumberger)
Model: B838

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

As Submitted	
Capacity	
Droop	
Build-up	

Options Designations:

N: denotes No Internal Relief

S R: denotes Internal Relief valve for over-pressure protection

MR: denotes closed throat monitor construction w/R

Other designations include MN, DN, DR, IMR, IMN, IMRV. Consult full brochure for details

Specifications:

Spring Color	Adj. Range
Orange	2.5 – 5" w.c.
Brown	3.5 – 7" w.c.
Green/white	4 - 9" w.c.
Black	5 - 15" w.c.
Blue	0.5 – 1 PSIG
Silver	0.8 – 2.5 PSIG
Yellow	1.5 – 4.7 PSIG
Red	1.5 – 6.0 PSIG

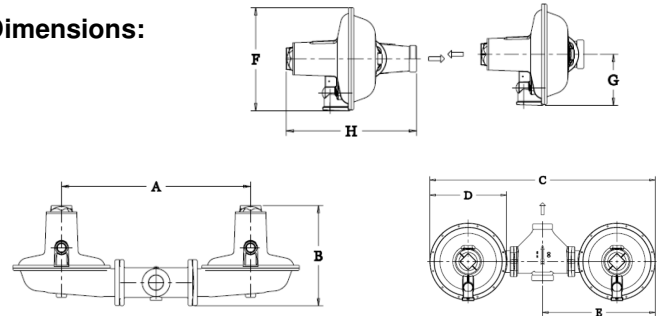
Orifice	MAOP "w.c. delivery	MAOP PSIG delivery
3/8"	25	125
1/2"	25	75
5/8"	25	75
3/4"	25	60
1"	10	45
1-1/4"	5	40

Connection Size
2" x 2" NPT
2" x 2" Flanged
2" x 3" Flanges
2" x 4" Flanged

Assembly:

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

Dimensions:



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

General Note on installation: The regulator comes with a 1" to 2-1/2" vent with a stainless steel vent screen. On outside installations, regulator should be oriented with the vent pointing down to keep water or ice from entering vent. If regulator is installed with vent pointing up or to the side, vent screen should be removed and a 1 to 2-1/2" elbow (or elbows) should be installed to position the vent correctly. If installed inside, 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: a 2" Regulator, with 3/4" orifice and 0° loading ring setting. Smaller orifices may have less capacity, but will handle higher inlet pressures (see MAOP above). Outlet pipe size* and length may also reduce flow. Consult complete product bulletin for capacities and relief curves of other configurations.

Set Point	Capacity as a Function of Inlet Pressure & Set Point in SCFH				
	1 PSIG	2 PSIG	3 PSIG	5 PSIG	10 PSIG
7" w.c.	3000	3750	5150	7800	11250
1 PSIG		4000	6200	7900	12600
5 PSIG					5500

Capacities expressed for 0.6 s.g. nat. gas,



Phone 877-566-3837/Fax 925-407-2903/Email sales@mvandc.com /Web www.mvandc.com