

# SUBMITTAL

**Manufacturer:** Itron  
(formerly Actaris / Schlumberger)  
**Model:** B38

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

As Submitted	
Capacity	
Droop	
Build-up	

**Options Designations:**

**N:** denotes No Internal Relief

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

**HP:** denotes High Pressure Construction

**Specifications:**

	Spring Color	Adj. Range
	Orange	3.0 – 4.6" w.c.
	Brown	4" – 6.4" w.c.
	Green	5 - 8" w.c.
<b>S</b>	Black	9.6 – 15.3" w.c.
	Purple	13.5 – 22.2" w.c.
	Blue	17.8 – 30.2" w.c.
	Blue/White	27.4 – 1.7" PSIG
	Silver	1.4 – 2.5 PSIG
	Silver/Red	1.9 – 3.0 PSIG
	Red (HP)	2.0 – 6.7 PSIG
	White (HP)	2.1 – 7.8 PSIG

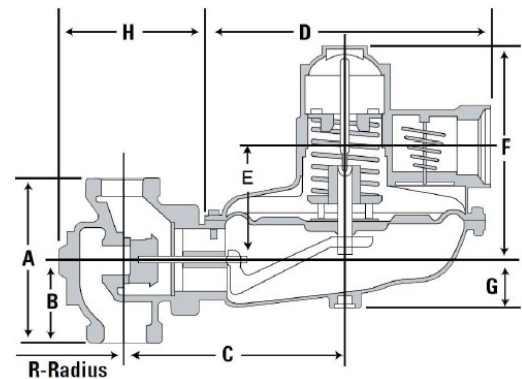
Orifice	MAOP PSIG delivery
1/4"	125
3/8"	125
1/2"	125
5/8"	75
3/4"	60
1"	60
1 1/4"	40
<b>S</b> 1 3/8"	25

Connections (NPT)	
Inlet	Outlet
1-1/2"	1-1/2"
2"	2"
2" Flanged	2" Flanged
3" Flanged	3" Flanged

**Assembly:**

Valve Body	High Tensile Strength Cast Iron
Orifice:	Brass (ASTM B16, Alloy 360)
Valve Seat:	Buna-N
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.
Diaphragm case	Die cast aluminum
Vent Screen	Stainless Steel

**Dimensions:**



	A	B	C	D	E	F	G	H	R
1-1/2" or 2"	7-1/2	3-3/4	10-5/8	13	5	9-5/8	2-3/16	6-3/4	3-3/8
2" Flanged	10	5	10-5/8	13	5	9-5/8	2-3/16	6-1/2	3-5/16
3" Flanged	10	5	10-5/8	13	5	9-5/8	2-3/16	7-3/8	4-3/16

**General Note on installation:** The regulator comes with 2-1/2" vent with a stainless steel vent screen. On outside installations, the regulator should be oriented with the vent pointing down to keep water or ice from entering the vent. If the regulator is installed with the vent pointing up or to the side, the vent screen should be removed and a 2-1/2" elbow (or elbows) should be installed to position the vent correctly. If installed inside, the 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 1-3/8" orifice. 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 brochure for capacities and relief curves of other configurations.

Set Point	Capacity as a Function of Inlet Pressure & Set Point in SCFH				
	14" w.c.	1 PSIG	2 PSIG	5 PSIG	10 PSIG
7" w.c.	2600	3500	5850	10800	17700
14" w.c.		2300	5000	9000	13500
1 PSIG			4200	7500	11200

Capacities expressed for 0.6 s.g. nat. gas

v.3

