

# SUBMITTAL

v.4

**Manufacturer:** Itron  
(formerly Actaris / Schlumberger)  
**Model:** B34S

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

**HP:** denotes High Pressure Construction

**Specifications:**

	Spring Color	Adj. Range
<input type="checkbox"/>	Brown	3.5 – 5" w.c.
<input type="checkbox"/>	Dk Green	4.5 – 6.5" w.c.
<input type="checkbox"/>	Light Green	5.5 – 7.5" w.c.
<input type="checkbox"/>	Black	6 – 9" w.c.
<input type="checkbox"/>	Blue	8.5 – 12.5" w.c.
<input type="checkbox"/>	Silver	11 - 17" w.c.
<input type="checkbox"/>	Red/Gray (HP)	1 PSIG
<input type="checkbox"/>	Yellow (HP)	1.2 – 1.5 PSIG
<input type="checkbox"/>	Red (HP)	1.5 – 1.9 PSIG
<input type="checkbox"/>	White (HP)	1.75 – 2.5 PSIG
<input checked="" type="checkbox"/> <b>S</b>	Gray	5.5-11.5" w.c.

	Orifice	MAOP "w.c. delivery	MAOP PSIG delivery
<input type="checkbox"/>	1/4 x 3/8"	100	100
<input type="checkbox"/>	3/8 x 1/2"	50	50
<input type="checkbox"/>	1/2 x 5/8"	25	25
<input type="checkbox"/>	5/8 x 3/4"	15	15
<input type="checkbox"/>	3/4 x 7/8"	10	10
<input checked="" type="checkbox"/> <b>S</b>	7/8 x 1"	10	10

(HP)

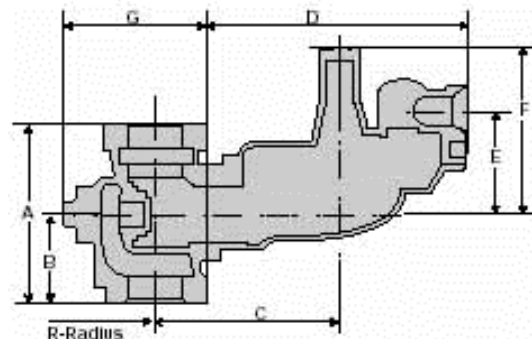
	Connections*	
	Inlet	Outlet
<input checked="" type="checkbox"/> <b>S</b>	1 1/4"	1 1/4"
<input type="checkbox"/>	1 1/4"	1 1/2"
<input type="checkbox"/>	1 1/4"	2"
<input checked="" type="checkbox"/> <b>S</b>	1 1/2"	1 1/2"
<input type="checkbox"/>	1 1/2"	2"
<input checked="" type="checkbox"/> <b>S</b>	2"	2"
<input type="checkbox"/>	2" FL	2" FL
<input type="checkbox"/>	3" FL	3" FL

\* NPT unless noted

**Assembly:**

Valve Body	High Tensile Strength Cast Iron
Orifice:	Brass
Valve Seat:	Buna-N or Silicone
Valve Stem:	Alodined aluminum
Lever:	Zinc & dichromate plated steel
Upper Diaphr Plate	Zinc & dichromate plated steel
Lower Diaph. 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	R	Weight
Screwed	5 3/4"	2 7/8"	6"	7 13/16"	3 1/4"	4 7/8"	4 1/2"	3 1/4"	22
Flanged	10"	2 1/8"	5 13/16"	7 13/16"	3 1/4"	4 7/8"	4 9/16"	3 1/4"	31

**General Note on installation:** The regulator comes with 3/4" or 1" 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 an 3/4" x 1" 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 1 1/2" Regulator, with 7/8x1" 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 product bulletin 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.	895	1540	2300	5150	>7500
14" w.c.		1100	1880	4300	>7500
1 PSIG			1120	2220	3900

Capacities expressed for 0.6 s.g. nat. gas, \*Max capacity for 1 1/4" outlet pipe: 2500 SCFH, 1 1/2" pi

